

অসম চৰকাৰ



GOVERNMENT OF ASSAM  
O/o-THE PROJECT DIRECTOR

ASSAM HEALTH INFRASTRUCTURE DEVELOPMENT AND MANAGEMENT SOCIETY  
NAYANTARA SUPER MARKET COMPLEX, SIXMILE, GUWAHATI – 781022

**Response to Pre-Bid Queries**

**Project Name :** Assam Health System Strengthening Project supported by JICA

**JICA Loan No. :** ID-P 302

**Name of the Contract :** Construction of Super-specialty Hospital Block and allied buildings within Lakhimpur Medical College, Fakhruddin Ali Ahmed Medical College - Barpeta and Silchar Medical College campus involving Civil, MEP Works, External Development Works (Package 1-1A).

**IFB No: the Employer/JICA/SUPER SPECILATY TENDER/2025/ECF NO. 598510/01-A**

Sl.No.	Reference Clause	Page No.	Tender Condition	Query / Clarification required by the bidder	Pre-bid Replies /Response by the Employer
1	Section IV: Bidding forms	BF-45	Bank Guarantee	We request you to kindly provide the Beneficiary account details such as Bank A/c number, Branch, Bank Name & IFSC Code for SWIFT confirmation.	Bidders are informed to use the following Beneficiary Account for Bank Guarantee: <b>Bank A/C. No.332601000329, IFSC- ICIC0007350, Bank name- ICICI Bank, Branch- Survey, Guwahati-28</b>
2	Section-VII, GCC, Cl. 14.9	50	When the Taking-Over Certificate has been issued for the Works, the first half of the Retention Money shall be certified by the Engineer for payment to the Contractor. If a Taking-Over Certificate is issued for a Section or part of the Works, a proportion of the Retention Money shall be certified and paid. This proportion shall be half (50%) of the proportion calculated by dividing the estimated contract value of the Section or part, by the estimated final Contract Price. Promptly after the latest of the expiry dates of the Defects Notification Periods, the outstanding balance of the Retention Money shall be certified by the Engineer for payment to the Contractor.	We request you to kindly consider the Bank Guarantee towards retention money which is in accordance with SOP for CPWD Works Manual and request you to kindly amend the cl. 14.3 (c) of Particular conditions as follows: "The security deposit / Retention money deducted can be released against bank guarantee issued by a scheduled bank, on its accumulations to a minimum of Rs. 5 lac subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs. 5 lac." Kindly confirm	Since the subject tender is guided by JICA guidelines, retention money in form of Bank guarantee is not allowed by JICA.  <b>Therefore, the tender conditions shall prevail.</b>
	Section-VIII, Particular Conditions, Cl. 14.3 (c)	PC-2	5% of amount of each interim payment certificate.		
3	Section VIII , particular Conditions /Sub Cl.8.13	PC-4	milestone name/description "Up to Ground Floor level in all aspect at all the three location" ..... .....[]	As it is understood, project consists of Construction of 3 super speciality hospital and all 3 medical college campus are located at three different locations(silchar(south)- 498 km-barpeta(north west) -137 km – Lakhimpur(north east)). In this context , we request you to kindly clarify on the mechanism regarding common milestones are tracked across 3 sites.	Refer sl. no. 13, Corrigendum-1 dated 30/01/2025
4	Section VIII , particular Conditions /Sub Cl.2.1	PC-1	by the Commencement date	Out of 3 locations, Lakhimpur hospital is brown field project which includes demolition of existing facility, tree cutting , shifting of existing utilities etc. In such scenario , whether project duration is inclusive of above mentioned scope or excluding. Kindly clarify	The project duration is inclusive of the said activity of demolition of existing facility, tree cutting , shifting of existing utilities etc.

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5	Section VI/ Annexure 4-site data	Pg no 9	1. Electrical Utility Shifting: - On proposed site of super specialty Hospital there are 11 nos. of electrical utilities like LT poles had been identified for shifting/replacement, which has also been confirmed by the concerned electrical department namely Sub-Divisional Engineer, APDCL, North Lakhimpur Electrical Sub-Division and is to be coordinated for the shifting prior to the commencement of construction.	Scope includes utility shifting before commencement.We request you to kindly provide the details of utilities to be shifted and related drawings for refer ence.	All Electrical Utility shifting works are to be initiated by the Contractor immediately after the date of commencement. Refer <b>Annexure-1</b> for the utility shifting required site wise.
6	Section VI/ Annexure 4-site data	Pdf pg no 355 of 366	File No: SEAC/SEIAA3832/2024 Government of India Ministry of Environment, Forest and Climate Change (Issued by the State Environment Impact Assessment Authority(SEIAA), ASSAM)	We request you to kindly provide the status of all statutory approvals for the 3 sites and we presume that all pre construction approvals are in employer scope. Kindly confirm.	Yes, pre-construction approvals such as utility shifting, tree cutting, Environmental clearance are in the scope of the Employer and the status of all pre-construction statutory approvals is enclosed as <b>Annexure-1</b> .  However, the contractor shall coordinate & liaison with the concerned department for the pending approvals of Pre-construction as shown in the <b>Annexure-1</b> and Post-construction approvals. Any statutory payment in this regard to the concerned department shall be made directly by the Employer to the concerned department.
7	Section IV: Annexure-1 (BOQ)	Grand summary	Note: GST @18% to be added	Please clarify in the summary sheet the overall amount is to be quoted including GST or Excluding GST. We request you to revise the price bid summary accordingly.	Please refer Bid Data Sheet ITB 14.7 and Preamble point no. 11, the Price quoted should be excluding GST.  At the time of signing of the Contract Agreement, the Employer shall add the GST at prevailing rates over and above the quoted rate as indicated in the Price Bid.  The Employer shall pay Goods and Services Tax (GST) payable on receipt of approved Tax Invoice. However, Contractor shall submit quarterly CA Certificate with UDIN certifying that the GST component charged to the Employer by the Contractor has been timely and completely discharged by the Contractor. Non-submission of such CA Certificate shall entitle the Employer to withhold any further payment of applicable GST to the Contractor.
8	Section IV: Bidding forms	BF-4	The discounts offered and the methodology for their application are: The discounts offered are: [specify in detail each discount offered] The exact method of calculations to determine the net price after application of discounts is shown below: [specify in detail the method that shall be used to apply the discounts];	Request you to update the price summary of BoQ incorporating the discounts column mentioning the Letter of Price of bid.	Bidders are informed to use the "Letter of Price bid" only for any mention of Discounts offered and for elaborating their methodology of their application.
9	Section-VI, Work Requirements, Cl. 1.20 (vii)	WR-15	The shop drawings and as-built drawings shall include submission of drawings in BIM LOD 200. Also, all as-built drawings prepared and submitted by the construction contractor shall be in BIM LOD 200	Kindly clarify the following: 1) We understand the GFC drawings shall be provided to the contractor on BIM Model to enable us preparing the Shop drawings & As-Built drawing in BIM Format. 2) We request you to kindly relook into LOD level requirement for shop drawings and as built drawings since LOD 200 model doesn't capture all the elements 3) We request you to kindly include an item in the BoQ for BIM Modelling with Unit as required plinth area of buildings to modelled in BIM.	1) GFC drawings shall not be provided to contractor on BIM model. 2) Bidders are informed to develop the shop drawings and as-built drawings in BIM LOD 500. 3) BIM modelling as separate item shall not be provided and any cost towards BIM model is deemed to have been already included in bidder's bid price.

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10	Section-VI, Work Requirements, Cl. 1.2 (iv)	WR-7	No plot rent shall be charged for materials stacked on Government land during the course of construction provided that all such materials are removed within one month after the work is completed	We Request you to provide the Land within the site for establishing facilities like workmen colony, batching plant, site office etc. Kindly confirm. Also, request you to kindly provide any land available within the campus or nearby area if possible	For establishing facilities like contractor's infrastructures viz. Batching Plant, Material Stock Yard, Stores, Workshop, Cement godown, Site office, Labour Huts etc., bidders are advised to make their own assessment and conclusion of the land availability within the site premises or near to the site location. However, the Employer will extend support and assistance required for the approvals, if any nearby vacant government land is identified by the contractor for this purpose but the expenses towards any lease / rent for the land premises shall not be borne by the Employer and shall be borne by the Contractor.
11	General		Access to Lakhimpur site	We presume that the existing ACCF campus access roads can be used for execution of proposed works at Lakhimpur. Kindly confirm	No. The existing ACCF campus access roads can not be used for the execution of proposed works at Lakhimpur.  Bidders are suggested to assess other routes inside the LMCH campus for this purpose.
12	Section-VII, GCC, Cl. 13.3	42	Each variation shall be evaluated in accordance with Clause 12 However, a new rate or price shall be appropriate for an item of work if: (a) (i) the measured quantity of the item is changed by more than 25% from the quantity of this item in the Bill of Quantities or other Schedule, (ii) this change in quantity multiplied by such specified rate for this item exceeds 0.25% of the Accepted Contract Amount, (iii) this change in quantity directly changes the Cost per unit quantity of this item by more than 1%, and (iv) this item is not specified in the Contract as a "fixed rate item";	Request you to kindly accept the variation procedure in accordance with Cl. 12 of CPWD GCC Construction Works 2023. Also, Kindly clarify on the variation limit applicable if any.	Since the subject tender is guided by JICA guidelines, variation procedures are standard as per Section VII. General Conditions, General Conditions of Contract for Construction MDB Harmonized Edition FIDIC 2010.  <b>Therefore, the tender conditions shall prevail.</b>
13	Section-VII, GCC, Cl. 14.7	49	the amount certified in each Interim Payment Certificate within 56 days after the Engineer receives the Statement and supporting documents; or, at a time when the Bank's loan or credit (from which part of the payments to the Contractor is being made) is suspended, the amount shown on any statement submitted by the Contractor within 14 days after such statement is submitted, any discrepancy being rectified in the next payment to the Contractor	We request you to amend the Payment procedure in accordance with CPWD guidelines i.e. An amount of ad-hoc payment not less than 75% of the net amount of the bill under check, shall be made within 10 working days of submission of the bill by the Contractor to the Engineer-in-Charge. The remaining payment is also to be made after final checking of the bill within 28 working days of submission of bill by the contractor. Kindly confirm	Since the subject tender is guided by JICA guidelines, payment procedures are standard as per Section VII. General Conditions, General Conditions of Contract for Construction MDB Harmonized Edition FIDIC 2010.  <b>Therefore, the tender conditions shall prevail.</b>
14	Section-VIII, Particular Conditions, Cl. 14.6	PC-2	0.75% of the Accepted Contract Amount. However, this condition is not applicable for first three invoice statements and last three invoice statements	Owing to the mobilization and steady progress of work in the initial months, This condition shall not be applicable for first six invoice statements and last three invoice statements. Kindly confirm	Considering the overall project duration of 30 months and provision for 10% interest free advance is also kept, we expect the contractors to expedite the mobilization of resources, plants and machineries soon after the commencement and achieve good progress.  <b>Therefore, the tender conditions shall prevail.</b>

Sl.No.	Reference Clause	Page No.	Tender Condition	Query / Clarification required by the bidder	Pre-bid Replies /Response by the Employer
15	Section-VII, GCC, Cl. 14.5	48	If this Sub-Clause applies, Interim Payment Certificates shall include, under subparagraph (e) of Sub-Clause 14.3, (i) an amount for Plant and Materials which have been sent to the Site for incorporation in the Permanent Works, and (ii) a reduction when the contract value of such Plant and Materials is included as part of the Permanent Works under sub-paragraph (a) of Sub-Clause 14.3 [ Application for Interim Payment Certificates]. If the lists refer red to in sub-paragraphs (b)(i) or (c)(i) below are not included in the Schedules this Sub-Clause shall not apply.	We request you to kindly grant the material advance as per Cl. 14.5 of GCC and request you to kindly include the following in Particular Conditions. "Plant and Materials for payment when delivered to the Site: Plant & Materials advance For MEP services For Finishing works For Façade works Against progressive supply at site - 75% Against progressive installation at site - 20% Against progressive Testing & Commissioning at site - 5%". Kindly confirm	<b>The tender conditions shall prevail.</b>
16	Section-VI, Work Requirements, Cl. 1.20 (iii)	WR-14	The scope of work shall deemed to include all co-ordination activities required for execution of other contract packages such as Modular OT, Medical Gas Pipelines, CSSD, Laundry, Kitchen Equipment, Pneumatic Tube Systems, Medical Equipment, Medical and Non-Medical Furniture, Laboratory Equipment, ICT, etc.	For smooth progress of the project and better co-ordination, we request you to kindly include these coordination packages on main contractor scope and provide the relevant line items in the BoQ. Kindly confirm	Please refer sl no. 12, Corrigendum-1 dated 30/01/2025  Separate line item for coordination shall not be provided in the BOQ and any cost towards such coordination is deemed to have been already included in bidder's bid price.
17	Section-VII, GCC, Cl. 12.3	41	Each new rate or price shall be derived from any relevant rates or prices in the Contract, with reasonable adjustments to take account of the matters described in sub-paragraph (a) and/or (b), as applicable. If no rates or prices are relevant for the derivation of a new rate or price, it shall be derived from the reasonable Cost of executing the work, together with profit, taking account of any other relevant matters	The profit consideration of 5% of cost is very low and request you to kindly consider the profit percentage in accordance with applicable CPWD SOP for Works Manual which is 15% of cost towards Contractor's profit and overheads. Kindlt confirm	<b>The tender conditions shall prevail.</b>
	Section-VII, GCC, Cl. 1.2	5	In these Conditions, provisions including the expression "Cost plus profit" require this profit to be one-twentieth (5%) of this Cost unless otherwise indicated in the Contract Data.		
	Section-VIII, Particular Conditions, Cl. 1.2	PC-1	5% of Cost		
	Section-VI, Work Requirements, Cl. 1.20 (ix)	WR-15	The Following documents shall be applicable for execution of works: i. CPWD SOP for CPWD Works Manual 2022		
18	Section-VI, Work Requirements, Cl. 1.20 (ix)	WR-15	The Following documents shall be applicable for execution of works: i. CPWD SOP for CPWD Works Manual 2022	We request you to kindly consider the latest version of SOP i.e. SOP for CPWD Works Manual 2024	Yes, SOP for CPWD works Manual 2024 shall be considered for the execution of works.
19	Section-IV, Bidding Forms	BF-13	The bidder shall, on successful award of contract, provide the employer with detailed method statement for each activity of construction.	We presume that the Method Statement shall be submitted by Successful bidder only after award of work. Kindly confirm.	No, the method statement has to be submitted by the bidder along with the bid covering all the aspects as stated in the Section-IV, Bidding forms. However, on successful award of contract, the bidder shall modify the submitted schedule to the satisfaction of the employer and follow the same for construction. Work shall be carried out only after receipt of approval on the method statement from the employer.

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20	Section-III, EQC, Cl. 1.1.1	EQC(II)-2	Alternative candidates for key positions shall not be evaluated	Details of key personnel submitted shall demonstrate the availability and during actual deployment if the person is not available, we shall deploy the competent person meeting the experience requirement. Please confirm.	The bidders shall preferably deploy the same key personnel during execution on successful award of contract, as submitted in the technical proposal for the evaluation. However, if the contractor decides to change the Key personnel due to circumstances outside the reasonable control of the Contractor, including but not limited to medical incapacity, then the Contractor shall forthwith provide as a replacement, a person of equivalent or better qualifications and experience, without any additional cost to the employer and such replacement shall be subject to the approval of the Engineer.
21	Section-III, EQC, Cl. 1.1.2	EQC(II)-2	The Bidder must demonstrate that it has the key construction equipment	Bidder is allowed to submit the CA certified List of Assets owned by him as proof of ownership. Kindly confirm	Yes, as a supporting document bidders can submit the CA certified List of Assets owned by him as proof of ownership.
22	Section-VI, Work Requirements, Cl. 1.1 (v)	WR-6	Any extra claims made in consequence of any misunderstanding, incorrect information on any of these points or on the grounds of insufficient description or information shall not be entertained or allowed at any stage. Should the contractor after visiting the site find any discrepancies, omissions, ambiguities or conflicts in or among the contract documents or be in doubt as to their meaning, he shall bring this to the attention of and seek written clarifications from owner/Architect before submitting his tender.	We presume that Any incorrect and/or insufficient information not resolved through pre-bid clarifications shall be mutually resolved. We request you to arrange to provide the all project related information.	<b>Tender conditions shall prevail.</b>
23	Section-VI, Work Requirements, Cl. 1.10	WR-9	SECURITY OF SITE AND MONITORING i. The contractor shall be responsible for keeping unauthorized persons off the site. ii. CCTV camera arrangements shall be provided at suitable locations approved by the Employer's representative by the contractor for vigilance during day and night. This can be carried out as part of the line item in BOQ under CCTV. iii. Any theft at site of Contractors / Employers property shall be responsibility of the contractor till the handover of the entire project to the Employer's Representative. iv. Eight drone videos taken during various stages of progress of work. v. Making of a professional video with drone views for duration of 10 minutes (5 minutes for Phase-I and 5 minutes for overall) including music, voice, etc. to the satisfaction of the employer.	We request you to kindly confirm the line item number in BoQ pertaining to this work.	Please refer sl no. 11, Corrigendum-1 dated 30/01/2025  Separate line item for "Section-VI, Work Requirements, Cl. 1.10. SECURITY OF SITE AND MONITORING" shall not be provided in the BOQ and any cost towards the same is deemed to have been already included in bidder's bid price.
24	Section-VI, Work Requirements, Cl. 1.20 (iii)	WR-14	The scope of work shall deemed to include all co-ordination activities required for execution of other contract packages such as Modular OT, Medical Gas Pipelines, CSSD, Laundry, Kitchen Equipment, Pneumatic Tube Systems, Medical Equipment, Medical and Non-Medical Furniture, Laboratory Equipment, ICT, etc.	We request you to kindly clarify the scope / extent of co-ordination and we presume that our co-ordination shall be within the stipulated project duration of 30 months. Also, Kindly provide the line items for Co-ordination in the BoQ.	Please refer sl no. 12, Corrigendum-1 dated 30/01/2025 Refer Section-VI, Work Requirements, Supplementary Information, Clause 1.20 for better understanding of the scope / extent of co-ordination.  Yes, the co-ordination shall be within the project duration.  Separate line item for coordination shall not be provided in the BOQ and any cost towards such coordination is deemed to have been already included in bidder's bid price.

Sl.No.	Reference Clause	Page No.	Tender Condition	Query / Clarification required by the bidder	Pre-bid Replies /Response by the Employer
25	Section-VII, GCC, Cl. 1.5	6	The priority of the documents shall be in accordance with the following sequence: (a) the Contract Agreement (if any), (b) the Letter of Acceptance, (c) the Letter of Tender, (d) the Particular Conditions - Part A, (e) the Particular Conditions - Part B, (f) these General Conditions, (g) the Specification, (h) the Drawings, and (i) the Schedules and any other documents forming part of the Contract	There is a conflict in the priority of the documents in GCC and Contract agreement format. Being an item rate contract, request you to kindly consider the order of priority as per the order mentioned in Contract agreement. Kindly confirm	Please refer sl no. 14, Corrigendum-1 dated 30/01/2025
26	Section-IX: Contract Forms	CF-22	The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents (a) the Letter of Acceptance; (b) the Letter of Technical Bid; (c) the Letter of Price Bid; (d) the addenda, if any; (e) the Particular Conditions; (f) the General Conditions; (g) the Specification; (h) the Drawings; (i) Works Requirements (j) the Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans; and (k) the Bidder's Safety Declaration (Form JSSS/BSD)		
27	Section-VIII, Particular Conditions, Cl. 8.7	PC-2	0.1% of the Accepted Contract Amount per day of delay Max. Amount of delay @ 5% of the Accepted Contract Amount	As there are 3 sites, we presume that applicability of this clause shall be as per each individual site progress and relevant site contract value shall be considered. Also, the delays attributable to contractor only shall be considered into account. Kindly clarify	<b>Tender conditions shall prevail.</b>  No, the given percentage is applicable on Accepted Contract Amount.  The delay damages shall be levied as per the Section VII. General Conditions, Sub-Clause.8.7.
28	Section-IV, Bidding Forms	BF-6	Labour source of index - Minimum daily wage in rupees of an unskilled adult mazdoor, fixed under any law, statutory rule or order	We presume "The minimum wage of an unskilled Mazdoor shall be the higher of the wage notified by Government of India, Ministry of Labour and that notified by the local administration both relevant to the place of work and the period of reckoning". Kindly confirm	Yes, agreed.
29	Section-IV, Bidding Forms	BF-7	The Values and the Dates of the Base Cost Index(ices) will be provided by the Employer prior to contract signing	We request you to kindly consider the Date of Base Cost as January'2025. Kindly confirm	<b>Tender conditions shall prevail.</b>  Base date of Cost Index(ices) shall be as per the Section VII. General Conditions, Sub-Clause.1.1.3.1
30	Section-VII, GCC, Cl. 13.8	45	If the Contractor fails to complete the Works within the Time for Completion, adjustment of prices thereafter shall be made using either (i) each index or price applicable on the date 49 days prior to the expiry of the Time for Completion of the Works, or (ii) the current index or price, whichever is more favourable to the Employer	This being an item rate contract, all the design deliverable shall be complied by the employer. Hence, we request to make this applicable only for delays attributable to the contractor. Kindly confirm	<b>Tender conditions shall prevail.</b>

Sl.No.	Reference Clause	Page No.	Tender Condition	Query / Clarification required by the bidder	Pre-bid Replies /Response by the Employer
31	Section-VII, GCC, Cl. 19.1	63	<p>Force Majeure may include, but is not limited to, exceptional events or circumstances Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:</p> <p>(i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,</p> <p>(ii) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,</p> <p>(iii) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,</p> <p>(iv) munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and</p> <p>(v) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.</p>	Kindly include Epidemic, pandemic, quarantine restrictions, lockdowns imposed by the appropriate Government" under the definition of Force Majeure. Please confirm	Lockdowns imposed by Government as a result of Epidemic and pandemic shall be covered under "Force Majeure" since it is an exceptional event or circumstance.
32	Section-VII, GCC, Cl. 20.1	65	<p>Notice for Contractor's claims- If the Contractor considers himself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give notice to the Engineer, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 28 days after the Contractor became aware, or should have become aware, of the event or circumstance.</p> <p>If the Contractor fails to give notice of a claim within such period of 28 days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Employer shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub-Clause shall apply.</p>	<p>We seek that failure of the Contractor to give Notice of a claim within 28 days shall not operate as a waiver of that claim. The Contractor's claim shall stand discharged only to such extent (if any) to which the failure to provide timely notice has prevented or prejudiced proper investigation of the claim.</p> <p>We request the replacement of the time period for notification of Contractor's claims as hereunder- "not later than 28 days" to be replaced with "as soon as reasonably practicable". Please confirm.</p>	<b>Tender conditions shall prevail.</b>
33	No clause		No clause for concurrent delay.	<p>We request for the following insertion which clarifies how concurrent delays will be dealt in the contract-</p> <p>"If a delay caused by a matter which is the Employer's responsibility is concurrent with a delay caused by a matter which is the Contractor's responsibility, Contractor shall be entitled to an extension of time in accordance with Sub-Clause 8.4 [Extension of Time for Completion] for that period of delay caused by the Employer.</p> <p>In the event of concurrent delay, no Delay Damages shall be levied on the Contractor by the Employer during the period of such concurrent delay."</p> <p>Please confirm</p>	<b>Tender conditions shall prevail.</b>

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34	Section-VII, GCC, 3.1 B ii)	11	Variations resulting in an increase of the total Accepted Contract Amount in excess of 3% shall require approval of the Employer.	We will be executing the works as per GFC issued by Employer. Hence this limitation shall not applicable for this item rate contract. Kindly clarify	<b>Tender conditions shall prevail.</b>
35	Section-VIII, Particular Conditions, 20.6 (b)	PC-16	if the Contract is with a domestic contractor (or if the lead partner is a domestic contractor, in case of JV), arbitration with proceedings conducted in accordance with the laws of the Country.	We seek that the arbitration is as per Arbitration and Conciliation Act 1996. Number of arbitrators shall be 3 and the seat of arbitration shall be New Delhi. Kindly confirm	Arbitration proceeding will be conducted in accordance with Arbitration and Conciliation Act 1996 and the number of arbitrator shall be 3 (Three) and the seat of arbitration shall be Guwahati.
36	Section-VIII, Particular Conditions, 20.3	PC-3	If Dispute board is not appointed, then the appointment shall be made by International Chamber of Commerce	We seek that the Dispute board shall be constituted by a domestic institute. Please confirm	The Tender is guided by JICA guidelines and JICA only allows international institutes for the Dispute board of International Competitive Bidding (ICB) packages.  <b>Therefore, the tender conditions shall prevail.</b>
37	Section-VI, Work Requirements, Cl. 1.1 (iv)	WR-6	The Employer representative will make available to contractor such data on sub surface conditions have been obtained from investigations undertaken but contractor shall be responsible for his own interpretations thereof.	As this is an item rate contract, the sub structure and super structure works shall be done in accordance with the design & GFC drawings provided by employer to the contractor. Contractor scope is limited to execution as per GFC only. Kindly clarify	As per the contract, the contractor's primary responsibility is to execute the works based on the GFC drawings provided. However, field tests such as pile load tests, initial load tests, routine load tests and Ecpt test must be carried out to confirm the load-carrying capacity, settlement, etc. Based on the outcome of the test results, any necessary revised drawings, if required, will be issued. It is also the contractor's responsibility to obtain the methodology for conducting the necessary field tests as per the relevant IS standards and to complete the tests and submit the results.
38	Section-VI, Work Requirements, Cl. 1.1 (vi)	WR-6	Tree cutting and other approvals	We presume that all pre-construction approvals are in Employer scope in accordance with Section VII (GCC), Cl. 1.13. contractor scope is limited to only construction approvals. Kindly confirm	Yes, pre-construction approvals such as utility shifting, tree cutting, Environmental clearance are in the scope of the Employer and the status of all pre-construction statutory approvals is enclosed as <b>Annexure-1</b> .  However, the contractor shall coordinate & liaison with the concerned department for the pending approvals of Pre-construction as shown in the <b>Annexure-1</b> and Post-construction approvals. Any statutory payment in this regard to the concerned department shall be made directly by the Employer to the concerned department.
39	Section-VI, Work Requirements, Cl. 1.2 (iii)	WR-7	All Royalty, Taxes & Duties on material procured and Government quarries shall be borne by the contractor.	Assam Minor Mineral concession (Amendment) Rules, 2021 came into effective in the state of assam from 07-10-2021. We presume that any amendment in this Rules in future shall be adjusted accordingly. Also, Change in any existing tax rate or introduction of new tax also shall be adjusted accordingly in the contract price.	Please refer , Section VII. General Conditions, Sub-Clause. 13.7.
40	Section-VI, Work Requirements, Cl. 1.10 (v)	WR-9	Making of professional video with drone views for duration of 10 minutes (5 minute for Phase-I and 5 minutes for overall)	We presume that there are no Phases or sections for the proposed work. Kindly clarify	Yes, there is no phases or sections of the proposed work.  Please refer sl no. 11, Corrigendum-1 dated 30/01/2025
41	Section-VI, Work Requirements, Cl. 1.13 (vi)	WR-10	Physical 3D Model for entire layout of project	We presume that the 3D Model shall be restricted to proposed building in the contract and also request you to kindly confirm the scale of model. Kindly clarify	Physical 3D model should show the entire site layout with Buildings including Main Super specialty hospital building and other ancillary buildings in scale of 1:300.



Sl.No.	Reference Clause	Page No.	Tender Condition	Query / Clarification required by the bidder	Pre-bid Replies /Response by the Employer
42	Section-IV, Annexure 1 (BOQ) Preamble	A. Preamble	14. Notwithstanding anything stated anywhere in the bid documents / contract, the rate to be quoted by the bidder shall be deemed to include overheads, profits, labour cess, ESIC, PF, cost index and any other such items not specifically stated. However, the quoted rate for each item is excluding GST.	Employee State Insurance Corporation (ESIC) vide its notification no. T.11/13/11/03/2015 Rev. II dated 26th September 2018 informed that Hon'ble Supreme Court of India vide its order dated 06.07.2018 have stayed Circular dated 31st July 2015 of the ESIC and accordingly it was clarified that no ESI contribution may be collected from the construction site workers and from their employers during the period of stay order by Hon'ble Supreme Court and also no benefits could be extended to such workers during the corresponding benefit period In view of above please consider deletion of such requirement, Upon clarity in the matter and based on the Supreme Court direction in the matter the Contractor shall comply with requirement. Further since there is no clarity in the matter associated costs could not be envisaged in the matter for compliance with requirement of Law and hence we request to consider ESI Contribution cost reimbursement at actuals in case if ESIC will applicable from retrospective or prospective effect in future. Kindly clarify	Noted. However, the contractor to comply with the ESIC norms.  <b>The tender conditions shall prevail.</b>
43	Section-IV, Annexure 1 (BOQ)	BoQ	Rate in INR / JPY / USD	As the 3 proposed sites are about 400-500 kms apart, it is highly difficult to arrive at a common single rate for all the 3 sites owing to variation in rates of bulk material and other construction materials being used in permanent works. Hence, request you to kindly consider different rates for each of the 3 proposed sites and amend the BoQ accordingly.	<b>The tender conditions shall prevail.</b>
44	Section-IV, Annexure 1 (BOQ)	BoQ	Dismantling / Demolition of existing Buildings	All the permissions / NOCs pertaining to demolition shall be arranged by the Employer. Kindly confirm	Yes, all the permissions / NOCs pertaining to demolition shall be arranged by the Employer.  However, the contractor may be required to coordinate & liaison with the concerned department for any pending approvals and any statutory payment in this regard to the concerned department shall be made directly by the Employer.
45	Section-VI, Work Requirements Annexure 2: Technical Specifications Concrete Grades to be adopted	Page 31 of 700	The minimum cement content shall be 400 kg/m <sup>3</sup> in all conditions.	Please confirm if the term "cement" means OPC only.	Yes, "cement" means OPC only.
46	Section-VI, Work Requirements Annexure 2: Technical Specifications Ready Mix Concrete	Page 34 of 700	minimum cement content	Please confirm if the term "cement" means OPC only.	Yes, "cement" means OPC only.
47	Section-VI, Work Requirements Annexure 2: Technical Specifications 2.6. CONCRETE WORKS:	Page 48 of 700	PCC work shall be of 1:4:8 Cement content of 174 kg	Please confirm if the term "cement" means OPC only.	Yes, "cement" means OPC only.
48	Section-VI, Work Requirements Annexure 2: Technical Specifications Reinforced Cement Concrete	Page 52 of 700	Standard of acceptance shall be same as specified in clause 16 of IS 456-2000. In case of rejection of concrete on account of unacceptable compressive strength, the work for which samples have failed shall be redone at the cost of Contractors.	Please allow 56 days compressive strength for concrete containing supplementary cementitious materials such as fly ash, GGBS etc. in accordance with Clause 6.2.1 of IS456 to account for "Increase of Strength with Age", and as per IS516 (Part 1/Sec 1): 2021 Hardened Concrete – Methods of Test, "Clause 3.3. Age at Test" which supports testing at 56 days or later for conformity/compliance.	<b>Tender conditions shall prevail.</b>

Sl.No.	Reference Clause	Page No.	Tender Condition	Query / Clarification required by the bidder	Pre-bid Replies /Response by the Employer
49	Section-IV Annexure 1 (BoQ) Sub Head 2: Concrete Work		S. No. 18 coarse sand (Zone III)	Zone III is finer sand. Is it Zone I. Please clarify.	RCC shall be done with Coarse sand only.
50	Section-IV Annexure 1 (BoQ) Reinforced Cement Concrete		S. No. 35, 36, 37, 38, 39, 40: "minimum cement content"	Please confirm if the term "cement" means OPC only.	Yes, "cement" means OPC only.
51	Section IV_Annexure 1_P1-1A BOQ Bid Document Bill no-5 HVAC works Sub Head 41 : Low side Installation Work		Sub Head 41 : Low side Installation Work	We presume all the items under the sub head 41 (Sl.No.694 to 899) includes Supply, installation, testing and commissioning under contractor scope. Please confirm	Yes, supply, installation, testing and commissioning are under the scope of contractor.
52	Section IV_Annexure 1_P1-1A BOQ Bid Document Bill no-5 HVAC works Sub Head 41 : Low side Installation Work		Sl.No. 795. Strip heater, Pan Humidifier	Please confirm the capacity details of Strip heater and pan Humidifier.	Refer Sl no. 6, Corrigendum-1 dated 30/01/2025 Updated Annexure-1 Bill of Quantities (Excel format) enclosed to this document as Annexure-A.
53	Section IV_Annexure 1_P1-1A BOQ Bid Document Bill no-5 HVAC works Sub Head 41 : Low side Installation Work		Sl.No. 807. 20mm dia(Pipe only)	We presume the cost towards BOQ sl.No. 807 to be quoted only for Pipe with accessories as details in the item description excluding insulation. Please confirm	BOQ Sl.No. 807 - 20mm dia(Pipe only) is including necessary installation material and excluding insulation. However, the BOQ Sl.No. 808 - 20mm dia X 56 mm Thick is the insulation material towards the BOQ Item sl.no. 807.
54	Section IV_Annexure 1_P1-1A BOQ Bid Document Bill no-5 HVAC works Sub Head 41 : Low side Installation Work		Sl.No. 815 to 823.	We presume the cost towards BOQ sl.No. 815 to 823 to include Insulation of Butterfly Valves (Manual).Please confirm	Yes, it is including valves insulation and cladding.
55	Section IV_Annexure 1_P1-1A BOQ Bid Document Bill no-5 HVAC works Sub Head 41 : Low side Installation Work		Sl.No. 848 to 851.	We presume the cost towards BOQ sl.No. 848 to 851 to include Insulation of Rubber Bellows.Please confirm	Insulation not required for Rubber Bellows.
56	Section IV_Annexure 1_P1-1A BOQ Bid Document Bill no-5 HVAC works Sub Head 41 : Low side Installation Work		Sl.No. 864 supply and erection of UL-555 Standeds with CBRI certified Fusible link fire dampers.....the actuator torque shall be suitable for the fire damper size.	We presume the Fusible link fire dmapers shall be CBRI certified as per UL-555 Standards. Please confirm.	UL-555 Standards with CBRI certified Fusible link fire dampers of at least 120 minutes of fire rating.

Sl.No.	Reference Clause	Page No.	Tender Condition	Query / Clarification required by the bidder	Pre-bid Replies /Response by the Employer
57	Section I-IX_Package 1-1A Clause Ref. 2.4.1	EQC(II)-10	General Experience :- Continuous experience under construction contracts in the role of prime contractor (i) (single firm or JV member) or subcontractor between 1st July 2019 and the Bid submission deadline.	We Understand that The bidder must have continuous experience in construction contracts, meaning that they must have been actively engaged in construction work without any significant gaps or interruptions specifically in construction contracts, which implies that the bidder must have been involved in building, civil engineering, or other related construction projects.  This clause has no relation with similar nature of work	All the experience requirements are as per JICA guidelines.  <b>Therefore, the tender conditions shall prevail.</b>
58	Section I-IX_Package 1-1A Clause Ref. 2.4.2	EQC(II)-10	Specific Experience (iv) The bidder should meet the following minimum eligibility criteria: a) Experience of having successfully completed(ii) works as (Single firm or JV firm)(iii) during the last 10 years ending the previous day to the last date of submission of tender. For this purpose, cost of work shall mean gross value of the completed work including cost of material supplied by the respective client but excluding those supplied by the client free of cost: i) Three similar completed works, each cost not less than the amount equal to USD. 22.37 Million (OR) ii) Two similar completed works, each cost not less than the amount equal to USD. 33.55 Million (OR) iii) One similar completed works, each cost not less than the amount equal to USD. 44.73 Million "Similar Work" shall mean Architectural & Engineering Design and Construction of Non-Residential and Non- Industrial building Project(s) with minimum one work of at least Five storey building including work of specialised E&M services of sub-station & HVAC for Government Organizations/Semi Government Organizations of Central or State Government; or by Public Sector Undertakings/ Autonomous Bodies of Central/State Government or their subsidiaries. For this purpose each basement, stilt constructed with the building shall be construed as a storey. Machine room and mumty shall not be counted as a storey.	"Architectural & Engineering Design and Construction of Non-Residential and Non-Industrial building Project(s)"  However, in this specific project, the Architectural & Engineering Design is within the client's scope, which means that the contractor will not be responsible for designing the project.  We are requesting that the phrase "Architectural & Engineering Design" be removed from the definition of "Similar Work", as it doesn't accurately reflect the scope of work for this project.  Your reasoning is that the similarity of the project should be based on the construction aspect only, and not on the design aspect, since the design is being handled by the client.  By removing this phrase, the revised definition of "Similar Work" would be:  "Similar Work" shall mean Construction of Non-Residential and Non- Industrial building Project(s) with minimum one work of at least Five storey building including work of specialised E&M services of sub-station & HVAC for Government Organizations/Semi Government Organizations of Central or State Government; or by Public Sector Undertakings/ Autonomous Bodies of Central/State Government or their subsidiaries. For this purpose each basement, stilt constructed with the building shall be construed as a storey. Machine room and mumty shall not be counted as a storey.	Please refer sl no.4, Corrigendum-1 dated 30/01/2025
59	Section I-IX_Package 1-1A Clause Ref. 2.4.2	EQC(II)-10	AND iv) The bidder should have satisfactorily completed one super-specialty/Multispecialty Hospital Project of minimum 200 beds comprising construction of RCC framed structure including finishing works, water supply and sanitary installations, electrical works, fire-fighting, LV works and HVAC all composite executed under one contract for Government Organizations/Semi Government Organizations of Central or State Government; or by Public Sector Undertakings/ Autonomous Bodies of Central/State Government or their subsidiaries. For all the above requirement, Experience should be in the name of the bidding company and not in subsidiary/ associate company/group company etc.	AND iv) The bidder should have satisfactorily completed one super-specialty/Multispecialty Hospital Project of minimum 200 beds comprising construction of RCC framed structure including finishing works, water supply and sanitary installations, electrical works, fire-fighting, LV works and HVAC all composite executed under one contract for Government Organizations/Semi Government Organizations of Central or State Government; or by Public Sector Undertakings/ Autonomous Bodies of Central/State Government or their subsidiaries. For all the above requirement, Experience should be in the name of the bidding company and not in subsidiary/ associate company/group company etc.	<b>The tender conditions shall prevail.</b>

Sl.No.	Reference Clause	Page No.	Tender Condition	Query / Clarification required by the bidder	Pre-bid Replies /Response by the Employer
60	Section I-IX_Package 1-1A Section IV. Bidding Forms	BF-6	Schedule of Adjustment Data B) Minimum daily wage in rupees of an unskilled adult mazdoor, fixed under any law, statutory rule or order	We understand that the cost index will be taken from minimum wages published by chief labour commissioner	Refer response given for Sl.no.28
61	Section I-IX_Package 1-1A Section IV. Bidding Forms	BF-6	Schedule of Adjustment Data E) Price Index for civil components of other construction materials as issued by the office of CE CSQ (Civil) or successor of CPWD  F) Price Index for E&M components of other construction materials as issued by the office of CE CSQ (Electrical) or successor of CPWD	We understand that the cost index will be taken from CPWD 10 CC indices	Yes, the Source of index for "e.Other Construction Materials" & "f.Electrical & Mechanical" shall be adopted from CPWD 10CC indices.
62	Section I-IX_Package 1-1A Section IV. Bidding Forms	BF-6	Schedule of Adjustment Data Notes for the Bidders  2. The Bidder shall specify a value within the ranges given by the Employer in 'b', 'c', 'd' and 'e' of column (vi), so that the total weighting equals 1.00.	We seek clarification whether the bidder is required to specify a value in column (vi), item 'f'.	Yes. Bidder should specify a value in column (vi), item 'f'.  Please refer sl no.5, Corrigendum-1 dated 30/01/2025
63	General	-	-	In the case of extra items(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor may claim rate on basis of latest CPWD schedule, supported by proper analysis, for the work and the engineer-in charge shall within prescribed time limit of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.	<b>The tender conditions shall prevail.</b>
64	Section VII, GCC, Clause ref. 14.2	46	The Employer shall make an advance payment, as a interest- free loan for mobilisation and cash flow support, when the Contractor submits a guarantee in accordance with this Sub-Clause. The total advance payment, the number and timing of instalments (if more than one) and the applicable currencies and properties, shall be as stated in the contract data.	Surely bond should be accepted for release of advance payment	Tender is guided by the JICA guidelines.  <b>Therefore, the tender conditions shall prevail.</b>

**Annexure-1**

Sl.No.	NOC/ Permission/ Approval/ Clearance	Package 1-1A Facilities		
		FAAMCH, Barpeta	SMCH, Silchar	LMCH, Lakhimpur
		Status & Details		
1	Building Permission	<b>To be applied</b>	<b>To be applied</b>	<b>To be applied</b>
2	Enviromental Clearance(EC)	<b>Obtained</b> (Refer Annexure-4 Site Data)	<b>Obtained</b> (Refer Annexure-4 Site Data)	<b>To be applied</b>
3	Pre-Fire NOC	<b>Obtained</b>	<b>Applied and NOC pending</b>	<b>Applied and NOC pending</b>
4	Forest Clearance (Tree cutting)	Permission <b>Obtained</b> for <b>14 nos of trees</b> to be felled/cut at site	Permission <b>Obtained</b> for <b>219 nos of trees</b> to be felled/cut at site	Permission <b>obtained</b> for <b>32 nos of trees</b> to be felled/cut at site
5	Electrical Utility Shifting	Permission <b>Obtained</b> for: Dismantaling of 7 nos of street light, Shifting of 300 mtr of 6 sqmm 2 core cable, 11 nos Electric pole, ACSR weasel conductor 700 mtr to be shifted.	Permission <b>Obtained</b> for: Dismantaling of Street pole- 6 nos, Steel tubular pole-6 nos, ACSR weasel conductor-1.6 km, overhead line shifting 220 mtr.	Permission <b>Obtained</b> for: Dismantaling of 11 nos of PSC pole, Shifting of ACSR weasel cable conductor- 2.2 km
6	PHED Utility Shifting	Permission <b>Obtained</b> for: Dismantaling of 1 Nos DTW, Raw water pump of 60 Rm,7.5 HP submissibile pump set to be shifted.	Permission <b>Obtained</b> for: Shifting of 100mm dia Gi-1290 Rm,80mm dia GI-900 Rm, 65 mm dia GI-675Rm, Dismantaling of 1 no of sluice valve.	Confirmation from concerned Department <b>Obtained</b> confirming No shifting required

অসম চৰকাৰ



GOVERNMENT OF ASSAM

GOVERNMENT OF ASSAM  
O/o-THE PROJECT DIRECTOR

ASSAM HEALTH INFRASTRUCTURE DEVELOPMENT AND MANAGEMENT SOCIETY  
NAYANTARA SUPER MARKET COMPLEX, SIXMILE, GUWAHATI – 781022

**Corrigendum No.1**

**Date : 30/01/2025**

**Project Name :** Assam Health System Strengthening Project supported by JICA

**JICA Loan No. :** ID-P 302

**Name of the Contract :** Construction of Super-specialty Hospital Block and allied buildings within Lakhimpur Medical College, Fakhruddin Ali Ahmed Medical College - Barpeta and Silchar Medical College campus involving Civil, MEP Works, External Development Works (**Package 1-1A**).

**IFB No:** AHIDMS/JICA/SUPER SPECILATY TENDER/2025/ECF NO. 598510/01-A

Sl.No.	Reference Clause	Page No.	Instead of	Now read as
1	Form of Invitation for Bids	IFB(ii)-2	Approx. Value of Work inclusive of all applicable taxes (Rupees in Cr.) - <b>Rs. 477.58 Cr.</b>	Approx. Value of Work inclusive of all applicable taxes(Rupees in Cr.) - <b>Rs. 477.53 Cr.</b>
2	Section II.Bid Data Sheet, ITB 14.7	36	There is no exemption or reimbursement on taxes and duties for the project. The contractor is responsible for including all duties, taxes (except GST) and other levies payable under the contract in the bid price. In the event of any change in the rate of GST, necessary adjustments shall be made in the invoice statements submitted after the effective date of revision in GST. All rates quoted for individual items shall be excluding GST. GST shall be added separately and payable at prevailing rates over and above the quoted rate as indicated in the Price Bid on submission of proof of payment of GST.	There is no exemption or reimbursement on taxes and duties for the project. The contractor is responsible for including all duties, taxes (except GST) and other levies payable under the contract in the bid price. In the event of any change in the rate of GST, necessary adjustments shall be made in the invoice statements submitted after the effective date of revision in GST. All rates quoted for individual items shall be excluding GST. At the time of signing of the Contract Agreement, the Employer shall add the GST at prevailing rates over and above the quoted rate as indicated in the Price Bid. The Employer shall pay Goods and Services Tax (GST) payable on receipt of approved Tax Invoice. However, Contractor shall submit quarterly CA Certificate with UDIN certifying that the GST component charged to the Employer by the Contractor has been timely and completely discharged by the Contractor. Non-submission of such CA Certificate shall entitle the Employer to withhold any further payment of GST component to the Contractor.

Sl.No.	Reference Clause	Page No.	Instead of	Now read as
3	Section II. Bid Data Sheet, ITB 20.1	37	<p>In addition to the original of the Bid, the number of copies is:</p> <p><b>Two hard copies (Both Technical Bid &amp; Financial Bid) + One soft copy (Only Technical Bid) in Pen-drive format</b> to be submitted/ dropped in the tender box in the office of The Project Director, Assam Health Infrastructure Development &amp; Management Society (AHIDMS), 04th Floor, Nayantara Supermarket Building, Sixmile, Guwahati-22 during the office hours on or before the last date of submission of the bid.</p> <p><b>Price bid should not be submitted in Copies &amp; Pen-drive format.</b></p> <p>Soft copy in pen drive should comprise only Technical bid in PDF format (Scanned copy of the Original Technical Bid with seal &amp; signature of the Authorized signatory in each page) along with technical bid cover.</p>	<p>In addition to the original of the Bid, the number of copies is:</p> <p><b>Two hard copies (Both Technical Bid &amp; {Financial Bid in A2 size}) + One soft copy (Only Technical Bid) in Pen-drive format</b> to be submitted/ dropped in the tender box in the office of The Project Director, Assam Health Infrastructure Development &amp; Management Society (AHIDMS), 04th Floor, Nayantara Supermarket Building, Sixmile, Guwahati-22 during the office hours on or before the last date of submission of the bid.</p> <p><b>Soft copies of Price bid should not be submitted in Pen-drive format.</b></p> <p>Soft copy in pen drive should comprise only Technical bid in PDF format (Scanned copy of the Original Technical Bid with seal &amp; signature of the Authorized signatory in each page) along with technical bid cover.</p>
4	Section III. Evaluation and Qualification Criteria, Clause Ref. 2.4.2	EQC(II)-11	<p>Specific Experience (iv)</p> <p>The bidder should meet the following minimum eligibility criteria: a) Experience of having successfully.....</p> <p>“Similar Work” shall mean Architectural &amp; Engineering Design and Construction of Non-Residential and Non-Industrial building Project(s) with minimum one work of at least Five storey building including work of specialised E&amp;M services of sub-station &amp; HVAC for Government Organizations/Semi Government Organizations of Central or State Government; or by Public Sector Undertakings/ Autonomous Bodies of Central/State Government or their subsidiaries. For this purpose each basement, stilt constructed with the building shall be construed as a storey. Machine room and mummy shall not be counted as a storey.</p> <p>AND</p> <p>iv) The bidder should have satisfactorily completed one super-specialty/Multi-specialty Hospital Project of minimum 200 beds comprising construction of RCC framed structure including finishing works, water supply and sanitary installations, electrical works, fire-fighting, LV works and HVAC all composite executed under one contract for Government Organizations/Semi Government Organizations of Central or State Government; or by Public Sector Undertakings/ Autonomous Bodies of Central/State Government or their subsidiaries.</p> <p>For all the above requirement, Experience should be in the name of the bidding company and not in subsidiary/ associate company/group company etc.</p>	<p>Specific Experience (iv)</p> <p>The bidder should meet the following minimum eligibility criteria: a) Experience of having successfully.....</p> <p>“Similar Work” shall mean Construction of Non-Residential and Non-Industrial building Project(s) with minimum one work of at least Five storey building including work of specialised E&amp;M services of sub-station &amp; HVAC for Government Organizations/Semi Government Organizations of Central or State Government; or by Public Sector Undertakings/ Autonomous Bodies of Central/State Government or their subsidiaries. For this purpose each basement, stilt constructed with the building shall be construed as a storey. Machine room and mummy shall not be counted as a storey.</p> <p>AND</p> <p>iv) The bidder should have satisfactorily completed one super-specialty/Multi-specialty Hospital Project of minimum 200 beds comprising construction of RCC framed structure including finishing works, water supply and sanitary installations, electrical works, fire-fighting, LV works and HVAC all composite executed under one contract for Government Organizations/Semi Government Organizations of Central or State Government; or by Public Sector Undertakings/ Autonomous Bodies of Central/State Government or their subsidiaries.</p> <p>For all the above requirement, Experience should be in the name of the bidding company and not in subsidiary/ associate company/group company etc.</p>

Sl.No.	Reference Clause	Page No.	Instead of	Now read as
5	Section IV. Bidding Forms  Schedule of Adjustment Data	BF-7	<p>Schedule of Adjustment Data</p> <p>Table A. Local Currency....</p> <p><u>Notes for the Bidders</u></p> <ol style="list-style-type: none"> <li>1. The Bidder shall fill in column (v), the Total Amount of each index component (i.e.: labour, material, equipment, etc as stated in column (ii)) quoted in the local currency. The Total Amount of the relevant “Non-adjustable” component shall also be indicated in the corresponding cell.</li> <li>2. The Bidder shall specify a value within the ranges given by the Employer in ‘b’, ‘c’, ‘d’ and ‘e’ of column (vi), so that the total weighting equals 1.00.</li> <li>3. The Values and the Dates of the Base Cost Index(ices) will be provided by the Employer prior to contract signing.</li> </ol> <p>Table B. Foreign Currency<sup>1</sup>....</p> <p><u>Notes for the Bidders</u></p> <ol style="list-style-type: none"> <li>1. If so provided in BDS 15.1, the Bidder may quote in more than one foreign currency and, then this table should be repeated for each of those foreign currencies.</li> <li>2. The Bidder shall indicate at the top of the table, the foreign payment currency.</li> <li>3. The Bidder shall indicate the source of each index in column (iii).</li> <li>4. The Bidder may leave the Values and the Dates of the Base Cost Indices in column (iv) blank. If they are not available prior to submission of the Bid, due to absence of the relevant publication. However, the Bidder shall provide such Values and Dates prior to contract signing.</li> <li>5. The Bidder shall fill in Column (v), the Total Amount of each index component</li> </ol>	<p>Schedule of Adjustment Data</p> <p>Table A. Local Currency....</p> <p><u>Notes for the Bidders</u></p> <ol style="list-style-type: none"> <li>1. The Bidder shall fill in column (v), the Total Amount (excl. GST) of each index component (i.e.: labour, material, equipment, etc as stated in column (ii)) quoted in the local currency. The Total Amount (excl. GST) of the relevant “Non-adjustable” component shall also be indicated in the corresponding cell in column (v).</li> <li>2. The Bidder shall specify a value within the ranges given by the Employer in ‘b’, ‘c’, ‘d’, ‘e’ and ‘f’ of column (vi), so that the total weighting equals 1.00.</li> <li>3. The Values and the Dates of the Base Cost Index(ices) will be provided by the Employer prior to contract signing.</li> </ol> <p>Table B. Foreign Currency<sup>1</sup>....</p> <p><u>Notes for the Bidders</u></p> <ol style="list-style-type: none"> <li>1. If so provided in BDS 15.1, the Bidder may quote in more than one foreign currency and, then this table should be repeated for each of those foreign currencies.</li> <li>2. The Bidder shall indicate at the top of the table, the foreign payment currency.</li> <li>3. The Bidder shall indicate the source of each index in column (iii).</li> <li>4. The Bidder may leave the Values and the Dates of the Base Cost Indices in column (iv) blank. If they are not available prior to submission of the Bid, due to absence of the relevant publication. However, the Bidder shall provide such Values and Dates prior to contract signing.</li> <li>5. The Bidder shall fill in Column (v), the Total Amount (excl. applicable taxes) of each index component (i.e.: labour, material, equipment, etc as stated in column (ii)) to be procured in a particular Source Currency. For the purposes of this Schedule, the “Source Currency” of any index component means the currency, in which that index component is intended to be procured by the Bidder.</li> </ol>



Sl.No.	Reference Clause	Page No.	Instead of	Now read as
			<p>(i.e.: labour, material, equipment, etc as stated in column (ii)) to be procured in a particular Source Currency.</p> <p>For the purposes of this Schedule, the “Source Currency” of any index component means the currency, in which that index component is intended to be procured by the Bidder.</p> <p>If the Source Currency of any index component is as same as the Payment Currency of this table, the Bidder may leave the corresponding cell of column (v) blank.</p> <p>6. The Bidder shall derive the Total Amount in Payment Currency in Column (vi) by applying the exchange rate prevailing on the Base Date (as defined in GC Sub-Clause 1.1.3.1), as published by the central bank of the country of the source currency, to the Total Amount in Source Currency in column (v).</p> <p>The Total Amount of the “Non-adjustable” component quoted in the subject foreign currency shall also be indicated in the corresponding cell.</p> <p>7. The Bidder shall specify a value within the ranges given by the Employer in ‘b’, ‘c’, ‘d’ and ‘e’ of column (vii), so that the total weighting equals 1.00.</p>	<p>If the Source Currency of any index component is as same as the Payment Currency of this table, the Bidder may leave the corresponding cell of column (v) blank.</p> <p>6. The Bidder shall derive the Total Amount in Payment Currency in Column (vi) by applying the exchange rate prevailing on the Base Date (as defined in GC Sub-Clause 1.1.3.1), as published by the central bank of the country of the source currency, to the Total Amount in Source Currency in column (v).</p> <p>The Total Amount (excl. applicable taxes) of the “Non-adjustable” component quoted in the subject foreign currency shall also be indicated in the corresponding cell in column (v).</p> <p>7. The Bidder shall specify a value within the ranges given by the Employer in ‘b’, ‘c’, ‘d’, ‘e’ and ‘f’ of column (vii), so that the total weighting equals 1.00.</p>
6	<p>Section IV. Bidding Forms</p> <p>Annexure-1 Bill of Quantities</p>	BF-10	Annexure-1 Bill of Quantities (Excel format) shared during Tender purchase.	Updated Annexure-1 Bill of Quantities (Excel format) enclosed to this document as <b>Annexure-A</b> .
7	<p>Section VI : Works Requirements Annexure - 2: General &amp; Technical Specification</p> <p>Clause ref. 2.23</p>	Page no. 134 of 700	2.23. FINISHING SCHEDULE [Table]	Will be replaced with, 2.23. FINISHING SCHEDULE enclosed as <b>Annexure-B</b>

Sl.No.	Reference Clause	Page No.	Instead of	Now read as
8	Section VI : Works Requirements Annexure - 2: General & Technical Specification  Clause ref. 4.16	Page no. 269 of 700	4.16. INTERNAL HYDRANTS The Single headed Internal Hydrant outlet shall be as per IS: 5290 (Type-A), and as specified in the Indicative Items. a) A cap with chain is provided..... c) The Hydrant shall be constructed from gun metal and finished to a smooth polish on screwed ends. The Hydrant shall have screwed inlet of 80mm dia. flanged type with 4 nos. holes. The Hydrant shall have a PVC plug with chain fixed to the main body of the Hydrant. The Hydrant shall be tested to minimum 20 kg / cm <sup>2</sup> test pressure. The Hydrant shall not leak at any screwed joint.	4.16. INTERNAL HYDRANTS The Single headed Internal Hydrant outlet shall be as per IS: 5290 (Type-A), and as specified in the Indicative Items. a) A cap with chain is provided..... c) The Hydrant shall be constructed from Stainless Steel and finished to a smooth polish on screwed ends. The Hydrant shall have screwed inlet of 80mm dia. flanged type with 4 nos. holes. The Hydrant shall have a PVC plug with chain fixed to the main body of the Hydrant. The Hydrant shall be tested to minimum 20 kg / cm <sup>2</sup> test pressure. The Hydrant shall not leak at any screwed joint.
9	Section VI : Works Requirements Annexure - 2: General & Technical Specification	-	Whereever, the Approved makelist is given in the Section VI : Works Requirements Annexure - 2: General & Technical Specification.	For all the Items in this contract, the approved make shall be taken from the Approved makelist enclosed as <b>Annexure-C</b> . This make list supersedes all the make list provided in the Section VI- Works Requirement specifications. If makes are not mentioned in the list provided for any items of work, same shall require the approval of the Engineer before use.
10	Section-VI, Work Requirements, Drawings	WR-4	Annexure-3. Drawing volume issued during Tender purchase.	Updated Drawings are enclosed to this document as <b>Annexure-D</b> .
11	Section-VI, Work Requirements, Supplementary Information Clause no. 1.10	WR-9	1.10. SECURITY OF SITE AND MONITORING i. The contractor shall be responsible for keeping unauthorized persons off the site. ii. CCTV camera arrangements shall be provided at suitable locations approved by the Employer's representative by the contractor for vigilance during day and night. The said cameras shall be provided with necessary interface for wireless connectivity access to Employer's Representative without any charge or restriction. Remote monitoring system such as 'Real time / live telecast' shall be implemented by the contractor. This can be carried out as part of the line item in BOQ under CCTV. iii. Any theft at site of Contractors / Employers property shall be responsibility of the contractor till the handover of the entire project to the Employer's Representative. iv. Eight drone videos taken during various stages of progress of work. v. Making of a professional video with drone views for duration of 10 minutes (5 minutes for Phase-I and 5 minutes for overall) including music, voice, etc. to the satisfaction of the employer.	1.10. SECURITY OF SITE AND MONITORING i. The contractor shall be responsible for keeping unauthorized persons off the site. ii. Sufficient numbers of CCTV camera arrangements shall be provided at suitable locations approved by the Employer's representative by the contractor for vigilance during day and night. The said cameras shall be provided with necessary interface for wireless connectivity access to Employer's Representative without any charge or restriction. Remote monitoring system such as 'Real time / live telecast' shall be implemented by the contractor. This can be carried out as part of the line item in BOQ under CCTV. iii. Any theft at site of Contractors / Employers property shall be responsibility of the contractor till the handover of the entire project to the Employer's Representative. iv. Eight drone videos taken during various stages of progress of work. v. Making of a professional video with drone views for duration of 10 minutes including music, voice, etc. to the satisfaction of the employer.

Sl.No.	Reference Clause	Page No.	Instead of	Now read as
12	Section-VI, Work Requirements, Supplementary Information Clause no. 1.20 (iii)	WR-14	iii. At the commencement.....various services. The scope of work shall deemed to include all co-ordination activities required for execution of other contract packages such as Modular OT, Medical Gas Pipelines, CSSD, Laundry, Kitchen Equipment, Pneumatic Tube Systems, Medical Equipment, Medical and Non-Medical Furniture, Laboratory Equipment, ICT, etc.	iii. At the commencement.....various services. The scope of work shall deemed to include all co-ordination activities required for execution of other contract packages such as Modular OT, CSSD, Laundry, Pneumatic Tube Systems, Medical Equipment, Medical Furniture, Laboratory Equipment, etc.
13	Section-VIII, Particular Conditions(PC), Part A - Contract Data (CD)	PC-4	Table 1: Summary of Milestones [Table]....	Revised "Table 1: Summary of Milestones" is enclosed as <b>Annexure-E</b>
14	Section-VIII, Particular Conditions(PC), Part B - Specific Provisions (SP)	PC-6	Sub-Clause 1.5 Priority of Documents Add the following at the end of Sub-Clause 1.5: "Within the Safety Specification, the Particular Safety Specification shall have priority over JICA Standard Safety Specification (JSSS), and the Safety Specification shall have priority over the other parts of the Specification in respect of health and safety matters."	<b>Sub-Clause 1.5 Priority of Documents:</b>  Delete the entire Sub-Clause 1.5 and substitute:  "The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence: (a) the Letter of Acceptance; (b) the Letter of Technical Bid; (c) the Letter of Price Bid including Bill of Quantities (Annexure-1); (d) the addenda, if any; (e) the Particular Conditions; (f) the General Conditions; (g) the Specification; (i) the Safety Specification (ii) the General and Technical Specification (h) the Drawings; (i) Works Requirements (j) the Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans; and (k) the Bidder's Safety Declaration (Form JSSS/BSD)  Within the Safety Specification, the Particular Safety Specification shall have priority over JICA Standard Safety Specification (JSSS), and the Safety Specification shall have priority over the other parts of the Specification in respect of health and safety matters."

Sl.No.	Reference Clause	Page No.	Instead of	Now read as
15	Section-IX: Contract Forms	CF-22	<p>The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents</p> <ul style="list-style-type: none"> <li>(a) the Letter of Acceptance;</li> <li>(b) the Letter of Technical Bid;</li> <li>(c) the Letter of Price Bid;</li> <li>(d) the addenda, if any;</li> <li>(e) the Particular Conditions;</li> <li>(f) the General Conditions;</li> <li>(g) the Specification;</li> <li>(h) the Drawings;</li> <li>(i) Works Requirements</li> <li>(j) the Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans; and</li> <li>(k) the Bidder's Safety Declaration (Form JSSS/BSD)</li> </ul>	<p>The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents</p> <ul style="list-style-type: none"> <li>(a) the Letter of Acceptance;</li> <li>(b) the Letter of Technical Bid;</li> <li>(c) the Letter of Price Bid including Bill of Quantities (Annexure-1);</li> <li>(d) the addenda, if any;</li> <li>(e) the Particular Conditions;</li> <li>(f) the General Conditions;</li> <li>(g) the Specification; <ul style="list-style-type: none"> <li>(i) the Safety Specification</li> <li>(ii) the General and Technical Specification</li> </ul> </li> <li>(h) the Drawings;</li> <li>(i) Works Requirements</li> <li>(j) the Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans; and</li> <li>(k) the Bidder's Safety Declaration (Form JSSS/BSD)</li> </ul>

Project Name : Assam Health System Strengthening Project supported by JICA

JICA Loan No. : ID-P 302

Name of the Contract : Construction of Super-specialty Hospital Block and allied buildings within Lakhimpur Medical College, Fakhruddin Ali Ahmed Medical College - Barpeta and Silchar Medical College campus involving Civil, MEP Works, External Development Works.

IFB No:

#### A.Preamble

1. The Bill of Quantities shall be read in conjunction with the General and Particular Conditions of Contract, Specification, and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The payment shall be made based on the actual quantities of the work executed in accordance with the Contract.
3. The rates and prices in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all costs for construction plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
4. A rate or price shall be entered against each item in the Bill of Quantities, irrespective of whether quantities are stated or not. Items against which no rate or price is entered in the priced Bill of Quantities shall be deemed to be covered by the rates or prices entered for other items therein, and will not be paid for separately.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be included in the rates or prices entered for the related items of work.
6. General requirements, directions and/or descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. Relevant sections of the Contract documents shall be referred before entering prices against each item in the priced Bill of Quantities.
7. Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.5 or Sub-Clause 13.6 of the General Conditions of Contract, as applicable. Notwithstanding the above, the Provisional Sum for the cost of the DB shall require no prior instruction of the Engineer.
8. No Contractor's overhead charges or profit shall be included or payable on the Provisional Sum for the cost of the DB.
9. The method of measurement of completed work for payment shall be in accordance with IS 1200 (All parts) and CPWD specifications as applicable.
10. Any unit rates and/or prices quoted in the Bill of Quantities in:
  - (a) Indian Rupees (INR), there shall be no decimal places below zero.
  - (b) Japanese Yen (JPY), there shall be no decimal places below zero.
  - (c) United States Dollar (USD), there shall be two decimal places below zero.
 Any price(s) resulting from computations (such as unit price multiplied by quantity) shall be rounded down to the nearest decimal place(s) as indicated for each relevant currency above.
11. All rates quoted for individual items shall be excluding GST. GST shall be added separately and payable at prevailing rates over and above the quoted rate as indicated in the Price Bid.
12. Where there are any items of work provided in the Bills of Quantities for complying with requirements of sub-clauses 6.1 through 6.24 of the General Conditions of Contract, payment for such items are made only by monthly instalments upon the Contractor's compliance with all contract requirement with respect of that item, for each month, to the satisfaction of the Engineer.
13. The Engineer shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work
14. Notwithstanding anything stated anywhere in the bid documents / contract, the rate to be quoted by the bidder shall be deemed to include overheads, profits, labour cess, ESIC, health insurance, PF, cost index and any other such items not specifically stated. However, the quoted rate for each item is excluding GST.
15. The Contractor shall make all arrangements for ground breaking ceremony/ Inaugral function etc . for the project as required and the cost towards it deemed to be included in his rates/offer.

Project Name : Assam Health System Strengthening Project supported by JICA			
JICA Loan No. : ID-P 302			
Name of the Contract : Construction of Super-specialty Hospital Block and allied buildings within Lakhimpur Medical College, Fakhruddin Ali Ahmed Medical College - Barpeta and Silchar Medical College campus involving Civil, MEP Works, External Development Works.			
IFB No:			
<b>GRAND SUMMARY</b>			
Description	Amount		
	INR	JPY	USD
Facility No-1 Super Speciality Hospital at Silchar (SMCH)	-	-	-
Facility No-2 Super Speciality Hospital at Barpeta (FAAMCH)	-	-	-
Facility No-3 Super Speciality Hospital at Lakhimpur (LMCH)	-	-	-
(A) Total (SMCH+FAAMCH+LMCH)	-	-	-
(B) Specified Provisional Sums	19,109,250.00	-	-
(C) Total (A+B)	19,109,250.00	-	-
(D) Add contingency allowance (20%)	3,821,850.00	-	-
(E) <b>Bid Price (C+D) [carried forward to Letter of Price Bid]</b>	<b>22,931,100.00</b>	-	-
Note: The Employer shall add GST @ 18% during the contract signing			

Project Name : Assam Health System Strengthening Project supported by JICA				
JICA Loan No. : ID-P 302				
Name of the Contract : Construction of Super-specialty Hospital Block and allied buildings within Lakhimpur Medical College, Fakhruddin Ali Ahmed Medical College - Barpeta and Silchar Medical College campus involving Civil, MEP Works, External Development Works.				
IFB No:				
<b>Specified Provisional Sums</b>				
SI No	Description	Amount		
		INR	JPY	USD
1	Cost of Dispute Board (DB)	19,109,250.00		
	Total Specified Provisional Sums	19,109,250.00	-	-

Notes for the Bidders

- 1 Provisional Sums included and designated above shall be expended in whole or in part at the direction of the Engineer and in accordance with Sub-Clause 13.5 of the General Conditions. Notwithstanding the above, the Provisional Sum for the cost of the DB shall require no prior instruction of the Engineer.
- 2 No Contractor's overhead charges or profit shall be included or payable on the Provisional Sum for the Cost of the DB.





Project Name : Assam Health System Strengthening Project supported by JICA

JICA Loan no : ID-P 302

Name of the Contract : Construction of Super-specialty Hospital Block and allied buildings within Lakhimpur Medical College, Fakhruddin Ali Ahmed Medical College - Barpeta and Silchar Medical College campus involving Civil, MEP Works, External Development Works.

IFB no:

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
4	5	6	7=4+5+6	8.00	9.00	10.00	11=4x8	12=4x9	13=4x10	14=5x8	15=5x9	16=5x10	17=6x8	18=6x9	19=6x10	20=11+14+17	21=12+15+18	22=13+16+19							
<b>I</b>	<b>Pre construction Work- Salvage/Tree cutting</b>																								
I-1	Credit for demolition of building structures etc. complete and taking away all fetched material out of campus within 30 days after completing demolition part except the C&D waste kept for recycling and used the recycle product product for non structural work such as in foot path, manhole, lean concrete, filling under plinth re-filling of oundation etc. or as approved by Engineer-in-charge complete in all respect. The serviceable material received from dismantling/demolishing to be kept with executing agency and take away from the site as per direction of engineer-in-charge. Note : This amount to be paid by agency to the department. Quote the lump sum amount (in minus)	Job	-1	0	-1	-2.00																			
I-2	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.	Nos	219	14	32	265.00																			
	<b>Sub Head 1 : Earth Work &amp; Carriage of Materials</b>																								
	Carriage of material by mechanical transport including loading, unloading and stacking																								
	Earth																								
1	Up to 5 km.	cum	36658.00	1196.00	10.00	37864.00																			
2	5km to 10 km	cum	40289.42	4612.00	2812.60	47714.02																			
3	10km to 20km	cum	3631.42	4612.00	2802.60	11046.02																			
4	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.	cum	8586.00	25320.00	24815.00	58721.00																			
5	Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 m :	cum	1825.00	10472.00	5460.00	17757.00																			
6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.	cum	6298.94	13756.40	25473.76	45529.10																			
7	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	cum	1114.20	537.20	1114.20	2765.61																			
8	Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered).	sqm	145.98	119.58	145.98	411.53																			
9	Depth not exceeding 1.5 m	sqm	94.98	68.58	94.98	258.53																			
10	Depth exceeding 1.5 m but not exceeding 3 m	sqm	63.61	50.50	63.61	177.71																			
	Depth exceeding 3 m but not exceeding 4.5 m	sqm																							

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
11	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	8113.78	7218.00	17306.00	32637.78																			
12	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete	cum	38057.58	4153.29	4905.76	47116.64																			
	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.																								
	All kinds of soil																								
13	1.5 to 3.0	cum	1165.98	1408.22	1759.92	4334.12																			
14	3.0 to 4.5	cum	784.61	320.53	795.11	1900.24																			
15	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	1118.00	1118.00	1050.00	3286.00																			
	Anti termite treatment																								
	Supplying chemical emulsion in sealed containers including delivery as specified.																								
16	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	litre	1777.00	1777.00	1881.00	5435.00																			
	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :																								
	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diarm holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :																								
17	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	sqm	1451.93	1310.93	1451.93	4214.79																			
	<b>Sub Head 2 : Concrete Work</b>																								
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :																								
18	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	cum.	1293.62	901.90	1093.03	3288.54																			
19	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum.	407.40	492.40	527.40	1427.20																			
20	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone - III) : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	sqm	257.00	257.00	299.00	813.00																			
	<b>Sub Head 3 : RCC Work, Form work, Reinforcement &amp; Expansion Joint.</b>																								
	<b>Form Work</b>																								
	Centering and shuttering including strutting, propping etc. and removal of form for :																								
21	Foundations, footings, bases of columns, etc. for mass concrete.	sqm	2687.54	1936.27	3056.14	7679.95																			
22	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc	sqm	16687.65	14996.90	13669.56	45354.11																			
23	Suspended floors, roofs, landings, balconies and access platform.	sqm	32058.86	31115.76	27307.46	90482.09																			
24	Shelves (Cast in situ)	sqm	145.20	145.20	619.44	909.84																			
25	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	20122.49	19487.70	22619.48	62229.67																			
26	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	14898.00	14951.00	12520.00	42369.00																			
27	Stairs, (excluding landings) except spiral-staircases	sqm	846.05	846.05	941.93	2634.03																			
28	Extra for shuttering in circular work (20% of respective centering and shuttering items)	sqm	450.48	450.48	139.97	1040.93																			

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
29	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	sqm	10.00	23.00	26.80	59.80																			
	Edges of slabs and breaks in floors and walls																								
30	Under 20 cm wide	metre	402.80	342.70	396.80	1142.30																			
31	Weather shade, Chajjas, corbels etc., including edges	sqm	1624.13	1622.13	1151.22	4397.47																			
	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)																								
32	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	sqm	18414.24	18414.24	16658.72	53487.20																			
	<b>Reinforcement TMT Steel</b>																								
	Steel Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.																								
33	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	1084155.50	1036827.00	1206975.89	3327958.39																			
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.																								
34	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	kg	1973648.50	1948052.43	1849889.43	5771590.36																			
	<b>Reinforced Cement Concrete</b>																								
	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.																								
	<b>All works upto plinth level</b>																								
35	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	1570.85	899.93	1256.41	3727.19																			
36	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	6205.03	6523.41	7431.49	20159.94																			
37	Concrete of M40 grade with minimum cement content of 390 kg /cum	cum	172.19	172.19	158.64	503.03																			
	<b>All works above plinth level upto floor V level</b>																								
38	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	359.45	325.45	1648.21	2333.11																			
39	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	8037.16	7657.74	7678.81	23373.71																			
40	Concrete of M40 grade with minimum cement content of 390 kg/cum	cum	3491.18	3494.13	3052.50	10037.81																			
41	Add for using extra cement in the items of design mix over and above the specified cement content therein	quintal	3027.91	3027.91	3014.15	9069.97																			
42	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	cum	3572.29	3364.02	2648.33	9584.64																			
	<b>Expansion Joint</b>																								
	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.																								
43	200 mm wide.	metre	175.30	175.30	0.00	350.60																			

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer ' s pre-engineered self-centering arrangement that freely rotates / moves in all directions.The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -inCharge. (Material shall confirm to ASTM 6063).																								
44	Floor Joint of 200 mm gap	metre	60.90	60.90	25.92	147.72																			
	Providing and fixing of expansion joint system related with wall joint (internal/external) location as per drawings and direction of Engineer-InCharge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221-02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063).																								
45	Wall Joint of 200 mm gap	metre	353.40	353.40	130.80	837.60																			
	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arangement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer ' s pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confimetre to ASTM 6063).																								
46	Roof Joint of 200 mm gap	metre	46.52	46.52	25.92	118.96																			
	<b>Sub Head 4 : Masonry Work</b>																								
	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:																								
47	Cement mortar 1:6 (1 Cement : 6 coarse sand)	cum	195.32	89.92	217.45	502.69																			
	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :																								
48	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	381.58	357.67	309.45	1048.70																			
49	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.	cum	2002.00	1949.00	1890.00	5841.00																			

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :																							
50	cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	10.00	10.00	10.00	30.00																		
	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.																							
51	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	30.00	10.00	60.92	100.92																		
	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :																							
52	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	10.00	10.00	10.00	30.00																		
	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rate includes providing and placing in position 2 nos 6 mm dia M.S. bars at every third course of masonry work.	cum	757.00	749.00	587.00	2093.00																		
	Providing and laying autoclaved aerated cement blocks masonry with 150mm to 300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge.	cum	5143.04	5170.04	5725.04	16038.12																		
	<b>Sub Head 5 : Cladding Work</b>																							
	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.																							
	Granite stone slab of colour black, Cherry/Ruby red																							
55	Area of slab over 0.50 sqm	sqm	20.96	20.96	24.85	66.77																		
	Granite stone slab all colour and texture except black, Cherry/ Ruby red																							
56	Area of slab upto 0.50 sqm	sqm	5.24	5.24	6.21	16.69																		
57	Area of slab over 0.50 sqm	sqm	606.00	606.00	719.00	1931.00																		
	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	metre	12.00	12.00	12.00	36.00																		
	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	10.00	10.00	10.00	30.00																		
	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.																							
60	Granite Stone of approved shade	sqm	36.18	36.18	35.10	107.46																		



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61	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	5622.00	5622.00	5671.80	16915.80																						
	<b>Sub Head 6 : Wood &amp; Pvc Work</b>																											
62	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).																											
	Second class teak wood	cum	21.15	22.06	21.35	64.56																						
	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :																											
63	4 mm thick glass pane (weight not less than 10kg/sqm).	sqm	829.93	778.01	816.19	2424.13																						
64	5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	sqm	201.78	188.46	207.18	597.42																						
65	<b>Fly proof stainless</b> steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture with matching wood beading	sqm	85.86	84.60	62.28	232.74																						
	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters.(Area of opening for glass panes excluding portion inside rebate shall be measured)																											
66	5.0 mm thick instead of 4 mm thick.	sqm	201.78	188.46	207.18	597.42																						
67	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	sqm	510.40	545.60	492.80	1548.80																						
68	Extra for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory windows shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).	sqm	319.53	232.41	323.39	875.33																						
69	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	36.00	36.00	36.00	108.00																						
	Supplying and fixing C.I. cover without frame for manholes :																											
70	560 mm diametre C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	each	6.00	6.00	6.00	18.00																						
	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters .																											
71	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1232.13	1281.06	1208.07	3721.26																						
72	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	sqm	1227.63	1278.96	1203.57	3710.16																						

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	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):																								
73	Rectangular or square	sqm	1227.63	1278.96	1203.57	3710.16																			
74	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	sqm	1227.63	1278.96	1203.57	3710.16																			
	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.																								
75	Fixed to steel windows by welding	kg	1442.00	1279.00	2383.00	5104.00																			
76	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	11937.00	10415.00	10998.00	33350.00																			
77	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diametre bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	each	2714.00	2653.00	4865.00	10232.00																			
	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :																								
78	100X58X1.90 mm	each	7.00	7.00	7.00	21.00																			
	Providing and fixing bright finished brass handles with screws etc. complete																								
79	75 mm	each	12.00	12.00	14.00	38.00																			
80	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	18.00	18.00	18.00	54.00																			
	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:																								
81	125x75x4 mm	each	507.00	0.00	750.00	1257.00																			
	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :																								
82	250x16 mm	each	126.00	124.00	112.00	362.00																			
	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :																								
83	150x10 mm	each	126.00	124.00	118.00	368.00																			
	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :																								
84	125 mm	each	1016.00	748.00	1190.00	2954.00																			
	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.																								
85	Twin rubber stopper	each	128.00	126.00	1713.00	1967.00																			
	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.																								
86		each	10.00	10.00	10.00	30.00																			

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	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia metre 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts,including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.																								
87	75 mm overall thickness partition with 12.5 mm thick double skin fire rated Glass Reinforced Gypsum (GRG) plaster board conforming to IS: 2095: part 3 (Board with BIS certification marks)	sqm	166.84	166.84	523.90	857.57																			
88	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge.	each	96.00	94.00	876.00	1066.00																			
89	Providing and fixing <b>Fiber Glass Reinforced plastic (FRP) Door Frames</b> of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	metre	1219.40	1178.20	1791.40	4189.00																			
	Providing and fixing to existing door frames.																								
90	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing pararms of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	sqm	435.12	419.16	639.66	1493.94																			
	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.																								
91	1.0 mm thick	sqm	1227.63	1278.96	1209.87	3716.46																			
92	Providing and fixing panic bar / latch (Double point) fitted with a singlebody, Trim Latch & Lock on back side of the Panic Latch of reputedbrand and manufacture to be approved by the Engineer- in-charge, all complete.	each	18.00	40.00	74.00	132.00																			





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98	Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 min Fire Rating conforming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6mm thick G.I. sheet (zinc coating not less than 120gm/m²) duly filled mineral wool insulation having density min 96 kg/ m³ and fixing with necessary stainless steel ball bearing hinges of size 100x89x3mm of approved make, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-charge (panelling to be paid for seperately).	sqm	561.00	561.00	519.00	1641.00																			
99	Providing and fixing glazing in fire resistant door shutters, fixed panels& partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c , including applying a coat of approved fire resistant primer/ powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-in-charge with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	sqm	29.00	28.00	28.00	85.00																			
	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.																								
100	100 mm	each	106.00	92.00	160.00	358.00																			
	Flush door hardware																								
101	Providing and fixing Stainless steel (SS 304) Mortice door lock with handles and matching to LOM provided lever handles of approved quality with necessary screws etc. complete.	each	1093.00	1771.00	1191.00	4055.00																			
	Providing and fixing stainless steel (Grade 304) tower bolts approved equivalent with necessary screws etc. complete.																								
102	150 x 10mm	each	1103.00	1196.00	1266.00	3565.00																			
	Providing and fixing SS (304)hanging floor door stopper, ISI marked, matt finish with necessary screws etc. complete.																								
103	Single rubber stopper	each	477.00	558.00	486.00	1521.00																			
104	3M Glass Film plain/ colored at All height and Level.Providing and fixing 3M Frosted Translucent, cast PVC, self-adhesive vinyl, special CRYSTAL-effect film to reproduce Sand-blasting effect on glass with customised designs, thickness of 2 mil (0.05mm) without adhesive & 3mil (0.8)with adhesive having minimum tensile strength of 3.5 pound/inch at 73 F(0.6 kg/cm at 23 C). Adhesion after 24hrs of installation should be 4 pounds/inch (0.7 kg/cm) on Acrylic, Glass Polycarbonate, all complete.with required materials of approved make, for all floor heights as per approved design, pattern and drawings and direction of Engineer-In-Charge.(Actual film area shall be measured in sqm up to decimal place for payment)(Basic rate of film is Rs.1055/sqm)	sqm	89.19	94.23	99.99	283.41																			

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105	Supply & Fixing of Lead Lined Stainless steel Clean room door frames and shutters made of Stainless steel grade of 304 hairline finish, frame with 1.60mm (16SWG) thick hairline finish Stainless steel grade of 304 formed to Single/double rebate profile of size 100 mm x 58mm/ 143 x 58 mm, door frames with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the shutter with 1.2 mm thick hairline finish Stainless steel grade of 304 formed to provide a 46mm thick fully flush, double skin door shell with Lock Seam joints at stile edges with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level. The lead sheets extend the full width and height of the door. Lead thickness is to be equal to the shielding in the adjacent wall. Hardware can be provided with Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter etc., including overheads and contractor profit etc., complete for finished item of work in all floors	sqm	53.40	53.40	47.50	154.30																				
<b>Sub Head 7 : Steel Work</b>																										
106	80x1.25 mm M.S. laths with 1.25 mm thick top cover	sqm	31.00	31.00	22.00	84.00																				
107	Providing and fixing <b>ball bearing</b> for rolling shutters.	each	4.00	4.00	2.00	10.00																				
108	Extra for providing <b>mechanical device chain and crank operation</b> for operating rolling shutters.																									
109	Exceeding 10.00 sqm and upto 16.80 sqm in the area	sqm	31.00	31.00	22.00	84.00																				
110	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:																									
110	Profile B																									
109	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	11.00	5.20	11.00	27.20																				
110	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.																									
110	Hot finished welded type tubes	kg	50.00	50.00	50.00	150.00																				
111	Hot finished seamless type tubes	kg	1183.20	1183.20	1183.20	3549.60																				
112	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.																									
112	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	1426.72	1366.72	1455.12	4248.56																				
113	In gratings, frames, guard bar, ladder, railings, brackets,gates and similar works	kg	1635.66	1635.66	4913.76	8185.08																				
114	Providing and fixing carbon steel galvanised ( minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm <sup>2</sup> ), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry etc. as per direction of Engineer-in-charge.																									
114	10 x 80 mm	each	8.00	4.00	8.00	20.00																				

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)						
115	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	6859.00	7190.00	7453.32	21502.32																					
116	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	kg	3678.65	3678.65	3678.65	11035.95																					
	<b>Sub Head 8 : Flooring</b>																										
117	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of noing of steps etc. complete.	sqm	1289.66	1230.85	1286.81	3807.32																					
	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume, including cement slurry etc. complete :																										
118	Light shade pigment with white cement	sqm	381.00	381.00	381.00	1143.00																					
	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Light shade pigment using white cement.																										
119	Light shade pigment using white cement	sqm	1973.50	1750.50	2042.55	5766.55																					
120	Extra for pre finished nosing to tread of steps of marble / granite / kota stone	metre	2238.43	2238.43	2239.23	6716.09																					
	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :																										
121	25 mm thick	sqm	1042.16	772.16	187.23	2001.55																					
122	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	1447.45	1447.45	1888.45	4783.35																					
123	Extra for Kota stone/ sand stone in treads of steps and risers using single length .	sqm	1447.45	1447.45	1888.45	4783.35																					
124	WOODEN PLANK FLOORING-38 mm thick wood block flooring of first class teak wood laid over 25mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete	sqm	53.00	53.00	50.00	156.00																					
	<b>Verified Tiles</b>																										



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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.																									
	Double charge vitrified tile polished finish of size																									
125	Size of Tile 600 x 600 mm	sqm	11569.00	11533.00	12659.00	35761.00																				
	Providing and laying Ceramic glazed/Antiskid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment,epoxy touch ups etc.,complete																									
126	Size of Tile 300 x 300 mm	sqm	1609.00	1609.00	1950.00	5168.00																				
127	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.	sqm	226.60	226.60	235.20	688.40																				
	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.																									
128	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	sqm	2061.00	1698.00	1779.00	5538.00																				
129	Static-conductive Flexible Vinyl floor (non-directional homogeneous) covering shall be having thickness of 2 mm (minimum) as per EN 428, Weight s 3100 gms/sqm as per EN 430, electrical resistance of 104 ≤Rt ≤ 106 Fire rating class Bfl-s1 as per EN 13 501-1, Static electrical propensity < 2 kV as per EN 1815 , Slip resistance wet : ramp test with oil (1) of class R10 as per DIN 51 130, Wear resistance of ≤2.0 as per EN 660.2, wear group 'P' as per NF189, binder content of type -1 as per ISO 10582, dimensional stability of ≤0.4 as per EN 434, Indentation ~0 03 (< 0.10) mm as per standard ISO 24343 - 1, thermal conductivity of 0.25 I W/m.K as per EN 12524, color fastness rating of ≥6 degree as per EN 20105-802, Product should confirm to Floor Score* Indoor Air Quality Certified (≤10 μg / m3 as per ISO 16000-6), performance (ok) in castor chair test (type W) as per ISO 4918 (EN 425), anti-bacterial activity (> 99 % inhibits growth as per ISO 22196). The product shall be classified as class 34-43 as per EN 685. Installation- It is important to ensure the subfloor on which the sheet is being laid is smooth, flat, hard and free from moisture, grease etc. In case of uneven subfloor the same should be levelled using self-levelling compound. IPS Vitrified/ceramic/ mosaic tiles do not provide zero levelled sub floor. The moisture present in the subfloor should be less than 8% before installation of the floor. The vinyl flooring sheet should be installed with coving profile & adhesive recommended by Vinyl Flooring manufacturer. The floor finish should terminate at the room perim passing over a concealed coving profile and continuing up to the wall for 100mm and connected to copper strip for grounding; copper grounding strips (0.05mm thick, 50 mm width) should be laid on floor underneath conductive vinyl flooring roll. The joints in the flooring should be sealed by using a PVC welding rod of matching colour to be supplied by the manufacturer, using a hot air gun for fusion of welding rod with flooring for seamless installation.	sqm	106.00	106.00	191.00	403.00																				

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130	Vinyl flooring shall be having thickness of 2mm (minimum) as per EN 428, weight less than 2900 gms/sqm as per EN 430, Fire rating class Bfl-s1 as per EN 13 501-1, Static electrical propensity < 2 kV as per EN 1815, Slip resistance wet : ramp test with oil (1) of class R10 as per DIN 51 130, Wear resistance of $\leq 2.0$ as per EN 660.2, wear group 'T' as per NF189, binder content of type -1 as per ISO 10582, dimensional stability of $\leq 0.4$ as per EN 434, Indentation $\sim 0.03$ (< 0.10) mm as per Standard ISO 24343-1, impact sound insulation of 8 dB as per EN ISO 712-2, thermal conductivity of 0.25 W/m.K as per EN 12524, color fastness rating of $\geq 6$ degree as per EN 20105-B02, product should conform to Floor Score* indoor Air Quality Certified ( $\leq 10 \mu/m^3$ as per ISO 16000-6) performetrance (ok) in castor chair test (type W) as per ISO 4918 (EN 425), anti-bacterial activity (>99% inhibits growth as per ISO 22196). The thickness of wear layer would be 2mm. The product should be homogeneous and single layered. The product shall be classified as class 34-42 as per EN 685. Installation- It is important to ensure the subfloor on which the sheet is being laid is smooth, flat, hard and free from moisture, grease etc. In case of uneven subfloor the same should be levelled using self-levelling compound. IPS Vitrified/ceramic/ mosaic tiles do not provide zero levelled sub floor. The moisture present in the subfloor should be less than 8% before installation of the floor. The vinyl flooring sheet should be installed with coiving profile & adhesive recommended by Vinyl Flooring 1 manufacturer. The floor finish should terminate at the room perim passing over a concealed coiving profile and continuing up to the wall for 100mm and connected to copper strip for grounding; copper grounding strips (0.05mm thick, 50 mm width) should be laid on floor underneath conductive vinyl flooring roll. The joints in the flooring should be sealed by using a PVC welding rod of matching colour to be supplied by the manufacturer, using a hot air gun for fusion of welding rod with flooring for seamless installation.	sqm	2002.00	2002.00	1137.00	5141.00																						
131	100mm High Vinyl coiving with supporting of aluminium section, between wall and floor corners Rate shall include all material and labour complete. Homogeneous vinyl wall covering shall be in 1 mm thickness (minimum), weight less than 2000 gms/sqm as per EN 430, Fire rating class Bs2-d0 as per EN 13 501-1 , binder content of type -I as per ISO 10582, dimensional stability of $\leq 0.4$ as per EN 434, color fastness rating of $\geq 6$ degree as per EN 20105-802, Product should confirm to Floor Score® Indoor Air Quality Certified ( $\leq 10 \mu g / m^3$ as per ISO 16000-6), anti-bacterial activity (> 99 % inhibits growth as per ISO 22196). The product should be homogeneous and single layered. The product shall have excellent chemical resistance as per EN 423. Installation - Installation of Vinyl Wall Covering 1.00mm thick over smooth wall surface including fixing with adhesive complete as per drawing & as directed by Engineer-in-charge. It is important to ensure the Wall on which the sheet is being pasted is smooth, flat, hard and free from moisture, grease etc	metre	977.16	977.16	715.03	2669.35																						
132	Providing and laying brick aggregate cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 brick aggregate ) with 40mm brick aggregate to a required depth and filling layers of 150mm each in toilets (sunken floor) at all levels with contractor's material, labour, tools and plants including lead and lifts etc as per the directions of the Engineer-in-charge.	cum	558.28	558.20	558.28	1674.76																						
<b>Sub Head 9 : Roofing Work</b>																												
<b>Gypsum Plain Board</b>																												

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)		
	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimetre channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimetre of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimetre channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimetre channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :																						
133	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)	sqm	8437.00	8437.00	6189.00	23063.00																	
134	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	180.00	180.00	49.00	409.00																	
135	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	311.63	206.00	311.63	829.26																	
	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :																						
136	Ridges plain (500 - 600mm)	metre	37.29	16.73	37.29	91.31																	
137	Flashings/ Aprons.( Upto 600 mm)	metre	16.73	16.73	16.73	50.19																	
138	Gutter (600 mm over all girth)	metre	16.73	16.73	16.73	50.19																	

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139	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T,																							
	bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.																							
	12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	sqm	699.00	699.00	0.00	1398.00																		
	<b>Metal Ceiling</b>																							
	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimetre of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring T with :																							
140	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.	sqm	4969.00	4864.00	3465.00	13298.00																		
141	Providing and fixing <b>Heat Resistant Terrace Tiles</b> (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.	sqm	4780.00	4780.00	5288.00	14848.00																		
	<b>Calcium Silicate Board</b>																							



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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm																								
142	center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm, of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.	sqm	10.00	10.00	10.00	30.00																			
	<b>Mineral Fiber Tile False Ceiling</b>																								
	Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance ? 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 & 7) in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item(galvanised@80gsm) 50 mm long 8mm outer diam M-6 dash fasteners, 6 mm diam fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main "T". The system should rest on periphery walls /partitions with the help of GI perm wall angle of size24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights.																								
143	The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge. With 20 mm thick beveled regular mineral fibre false ceiling tile (NRC 0.7)	sqm	1411.00	1411.00	2336.00	5158.00																			

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144	Providing, Supplying & Installation of Microcell Polycarbonate 20mm thick (minimum) UV protected panel system which shall be uniform in color with an integral Microcell core. They should be manufactured with Vertical Standing Seam with standing seam height of 10-20mm at both sides of the panel. Panels shall be fixed on MS /Trusses.purlins with continuous Structural Aluminum double wall I-profile Spacer together with snap-on connector. These connectors to interlock the panels shall have a 2-4 tooth grip-lock locking mechanism to ensure maximum uplift capability and shall pass a pullout load of min. 4000 N (4kN) when tested as per ISO 6892:1998 and IS 1608:2005. Panel shall be with additional End-cap/Aluminum U-Profile (mill finish) for ends.including glass wool 100 mm Above Panel System shall be fixed over structural steel trusses / MS purlin with 2 coats of Enamel paint etc. conforming to the detail technical specifications as per approved Architectural Drawings submitted by Vendor Items includes cost of 20mm thick Polycarbonate sheet roofing with all its elements(Louvers), accessories , fittings and fixtures, scaffolding, labour , all required machineries for fixing and all valid taxes i.e. sales tax, excise duty, custom duty etc. complete. The above work is to be carried out by a Specialized Agency, as approved by the Engineer-in-Charge.	sqm	4.00	4.00	4.00	12.00																					
	Providing and laying of roofing shingle including preparation of surface as required for treatment of roofing shingles, underlaying membrane & nails consisting of following operations systems with nailing method:																										
145	Applying a BITUMEN PRIME COATING is intended for preparation of the surface before installation of self-adhesive sealant tape waterproofing material width 5cm. The primer presents a mix of high-quality bitumen and specially selected organic solvents. It has an enhanced covering mass fraction of non-volatile substances 45-55% , relative viscosity 15-40s, consumption 0.25-0.35Lit per sqm bucket volume 3,10,30 and bitumen primer should be allowed to dry for a minimum of 6 to 8 hours to ensure proper adhesion of subsequent layers including cleaning the surface before treatment.	sqm	1170.75	1170.75	1170.75	3512.25																					
146	Laying of HIP and Ridge/Starter SBS modified, high-end, factory-made ridge called HIP and Ridge/Starter of TECHNOMICOL Brand with the help of the nailing method and ensure the standard area assumption base layer fiberclass 110, SBS bitumen type, Flow resistance at elevated temperature 100°C, 3.4±0.2 mm Thickness per layer, 5.5 kg per sqm weight, Installation method a/c and as directed and specified by the Engineer-in-Charge :	metre	742.52	742.52	742.52	2227.56																					
147	Applying High Definition, Laminated Asphalt-based roofing shingles called "Country Series of Shinglas Brand" (having 50 years warranty and weight of 12 kg per sqm) with the help of the nailing method. Shinglas Brand's "Country Series" roofing shingles offer long durability with a significant weight. The shingles should be securely nailed to the surface for proper fixation. Roofing shingles by TECHNOMICOL fully comply with EN 544 – European standard for bitumen shingles known for its strict requirements for the minimum mass of bitumen in products 1300 g/m² for laying roofing shingles and as directed and specified by the Engineer-in-Charge :	sqm	1170.75	1170.75	1170.75	3512.25																					
<b>Sub Head 10 : Finishing Works</b>																											
<b>Internal Finishes</b>																											
<b>12mm cement plaster of mix :-</b>																											
148	1:4 ( 1 cement : 4 fine sand)	sqm	43812.42	43645.00	42392.68	129850.10																					
149	15mm cement plaster on the rough side of single or half brick wall of mix 1:6 ( 1 cement : 6 fine sand)	sqm	5622.00	5622.00	5658.00	16902.00																					
<b>20 mm cement plaster of mix ;</b>																											
150	1:6(1 cement: 6 Fine sand)	sqm	10.00	10.00	10.00	30.00																					
6 mm cement plaster of mix :																											
151	1:3 (1 cement : 3 fine sand)	sqm	23917.70	22728.70	20511.98	67158.37																					



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	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives.																							
170	New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	sqm	19733.41	19693.73	22932.00	62359.14																		
171	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	2733.88	2733.88	2733.88	8201.63																		
172	Providing and finishing 24 gauge 19 mm size galvanised chicken wire mesh of approved make and design at junctions of RCC and brick work and other locations including necessary clips and "U" nails rawl plugs,screws etc. complete for all height as per specifications & direction of the Engineer-In-Charge	sqm	1459.48	1433.80	1459.48	4352.76																		
<b>Sub Head 11 : Road Work</b>																								
173	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.	sqm	10043.00	5379.00	6195.00	21617.00																		
174	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	cum	5022.00	2690.00	2478.00	10190.00																		
175	Supplying and stacking at site. Good earth	cum	10043.00	5379.00	0.00	15422.00																		
176	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling. With road roller/ hand roller	sqm	1738.00	1045.30	1334.50	4117.80																		
177	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	kg	2074.00	507.00	0.00	2581.00																		
178	75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with : Stone aggregate 40 mm nominal size	sqm	131.00	0.00	0.00	131.00																		
179	Providing,laying and fixing RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement: 2 fine sand) including trenching and refilling etc as required . 150mm Dia	metre	150.00	130.00	270.00	550.00																		
180	300mm Dia	metre	300.00	70.00	135.00	505.00																		
181	Painting runway/taxi track/apron marking with adequate no of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, i/c cleaning the surface of ail dirt, scales, oil, grease and other foreign material etc. and lining out complete. New work (Two or more coats)	sqm	885.00	497.00	2181.00	3563.00																		
182	Providing and applying 2.5 mm thick road marking strips (retro-reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	sqm	10.00	0.00	0.00	10.00																		

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183	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 ( Cement : 3 coarse sand ) including making joints with or without grooves (thickness of joints except at sharve curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge.( length of finished kerb edging shall be measured for payment ). ( Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	381.00	113.00	131.00	625.00																						
	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.																											
184	Made of G.I. wire of dia 4 mm	sqm	756.00	588.00	0.00	1344.00																						
185	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	sqm	548.64	548.64	1098.64	2195.92																						
186	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	185.00	305.00	143.00	633.00																						
	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.																											
187	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30.	cum	2511.00	1083.00	1740.00	5334.00																						
188	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	cum	2229.00	951.00	1549.00	4729.00																						
189	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	522.00	0.00	0.00	522.00																						
190	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).	sqm	1740.00	0.00	0.00	1740.00																						
191	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in-charge.	cum	37.00	174.00	112.00	323.00																						



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192	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50 m x2.00 m made of 40x40x6 mm angle iron or 50x50x3 mm hollow MS tube posts/horizontal members/bracings covered with 1.63 mm thick MS sheet. The sheet shall be fixed with 30x5 mm MS flt by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5 m. MS channel ISLC 75 @ 5.70 kg/m, 50 cm long shall be provided at the bottom having oval shaped holes of size 50x25 mm at both ends with 50 cm long MS angle 40x40x6 mm bracing. Suitable arrangement shall be made to fit the barricading to avoid from overturning by providing 250 mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously including shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job.	metre	800.00	800.00	762.00	2362.00																						
	The barricading shall not be removed without prior approval of Engineer-in-Charge.																											
	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).																											
193	Dark shade pigment using ordinary cement	sqm	760.00	612.00	0.00	1372.00																						
	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.																											
194	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	sqm	1768.00	84.00	380.00	2232.00																						
195	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	7147.00	3717.00	6578.00	17442.00																						
	Rectangular type with openable circular lid																											
196	150 mm nominal size square 100 mm diameter of the inner hinged round grating	each	335.00	273.00	0.00	608.00																						
197	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways, neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick, 100 mm wide MS sheet duly painted over priming coat, reinforcement to be welded at edges with MS sheet and providing 2 nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	sqm	44.00	44.00	102.00	190.00																						
<b>Sub Head 12 : Pilework</b>																												

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	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-30 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap).																				
198	750mm dia. piles,	metre	19443.00	7652.00	8228.00	35323.00															
	Steel Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.																				
199	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	686823.98	270306.90	290654.10	1247784.98															
	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer-in-charge.																				
	note: 1. Initial and Routine Load Test shall not be carried out by Dynamic method of testing note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge.																				
	Single pile above 50 tonne and upto 100 tonne Safe capacity																				
200	Initial test (Test Load 2.5 times the Safe capacity)	Per Test	1.00	1.00	1.00	3.00															
201	Routine test (Test Load 1.5 times the Safe capacity)	Per Test	1.00	1.00	1.00	3.00															
	Single pile above 100 tonne Safe capacity																				
200A	Initial test (Test Load 2.5 times the Safe capacity)	Per Test	15.00	8.00	8.00	31.00															
201A	Routine test (Test Load 1.5 times the Safe capacity)	Per Test	15.00	8.00	8.00	31.00															
202	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge	Per Test	16.00	8.00	9.00	33.00															
	note :- The inclusion of the above item in the schedule of work shall be judiciously decided by the technical sanctioning authority, keeping in view the quality control, type of soil strata & importance of the project.																				
	<b>Sub Head 13 : Aluminium &amp; Glass Works</b>																				
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :																				
	For fixed portion																				
203	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	5815.00	7234.00	4328.00	17377.00															
	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)																				
204	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	3418.00	3363.00	2969.00	9750.00															

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	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.																					
205	Pre-laminated particle board with decorative lamination on both sides	sqm	1056.00	1056.00	1032.00	3144.00																
	Providing and fixing 6mm thick toughened glass in door/ window frame or shutter frame with necessary fixing accessories etc to complete. Rate shall include all material, labour, transport, taxes, all lead, lift etc to complete the work. (The door and window frame / shutter frame, beading are to be paid separately)																					
206	With toughned glass panes of 6 mm thickness (weight not less than 12.50 kg/sqm)	sqm	1444.55	1238.85	1328.22	4011.62																
	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor :finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge :																					
207	With stainless steel cover plate - minimum 1.25 mm thickness	each	126.00	124.00	112.00	362.00																
	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.																					
208	Upto 5mm depth and 5 mm width	metre	6971.40	6894.80	7426.20	21292.40																
	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.																					
209	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	each	2.00	2.00	2.00	6.00																
	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge	sqm	11.00	11.00	11.00	33.00																
211	Aluminium Aldrop 250mm Long 1no	each	320.00	266.00	422.00	1008.00																
212	Exhaust fan (250mm dia)	nos	15.00	30.00	59.00	104.00																
	<b>Sub Head 14 : Waterproofing Works</b>																					
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.	sqm	2983.10	2787.10	3406.00	9176.20																



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	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.(b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :																								
214	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	sqm	5586.25	4976.83	5556.25	16119.33																			
	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :																								
215	Dumb bell with central bulb (180 mm wide, 8 mm thick)	metre	411.00	226.00	411.00	1048.00																			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.																								
216	For vertical surface two coats @ 0.70 kg per sqm	sqm	205.91	55.51	205.91	467.33																			
217	For horizontal surface one coat @1.10 kg per sqm.	sqm	745.78	685.78	745.78	2177.34																			
218	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four no longitudinal & 9 no cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineerin-charge.	each	170.00	112.00	0.00	282.00																			
	<b>Sub Head 15 : Structural Glazing And Aluminium Composite Panel</b>																								

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									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
219	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conformetreing toAAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. ( The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.	kg	3607.05	3607.05	3095.30	10309.40															
	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:																				
	a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:																				
	b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.																				
	c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment , including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.																				
	d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.																				
	e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge.																				
	note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves ) on the external face shall be measured in sqm. up to two decimal places.																				

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	note:-2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500sqm from the certified laboratories accredited by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories																										
	1. Performance Laboratory Test for Air Leakage Test (-50pa to -300pa) & (+50pa to +3--pa) as per ASTM-E-283-04 testing method for a range of testing limit 1 to 200 mVhr"																										
	2. Static Water Penetration Test. (50pa to 1500pa) as per ASTME-331-09 testing method for a range up to 2000 ml."																										
	3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01-05 testing method for a range upto 2000 ml"																										
	4. Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm"																										
	5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test" Tests to be conducted on site																										
220	6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000ml"	sqm	722.00	722.00	620.00	2064.00																					
<b>Sub Head 16 : Rebaring</b>																											
	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.																										
221	Upto and including 12mm dia.	each	100.00	100.00	100.00	300.00																					
	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.																										
222	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	sqm	100.00	100.00	100.00	300.00																					
<b>Sub Head 18 : Gamusa Elevation Work</b>																											
223	FR GRADE - FRP PANEL - Providing and Fixing of PRE PIGMENTED TO DESIRED CoLOUR - FRP (Fibre Reinforced polyester resin plastic composite )Pannels in 5 mm thicK finished , weight 8.5 sqm, fire rating Class B as per ASTM E 84,size, pattern, design, and colour of approved make to be fixed on BRICK / RCC / Block work Column or structural steel work with Dry Fixing method with all appropriate , fasteners for fixing, and necessary hardware on Façade. The panel shall be made from materials UV Resistant, abrasion resistance . The panel shall be securely fixed to the available surface of required size at specified locations. This includes the cost of screen, , anchor fasteners, labour charges for fixing, for all heights in the elevation. - AS PER LAYER BY LAYER TECHNIQUE USED BY GFRC FACADES - PANEL	sqm	425.00	415.00	325.00	1165.00																					
<b>Sub Head 17 : Stone Column</b>																											
<b>Stone Column / Ground Improvement</b>																											
224	Providing all material, tools, tackles and constructing stone columns as per specification. Mobilisation of adequate number of rigs, tools, tackles, plant, equipment etc. and all accessories required for the construction of the stone columns/ ground improvement as per specifications and demobilising the same after the works are complete.	LS	0.00	1.00	1.00	2.00																					
<b>Ground Improvement Works using Vibro Stone Columns:</b>																											
225	900mm diametre Stone Columns installed by Wet Vibro top Feed displacement method	nos.	0.00	1550.00	1746.00	3296.00																					

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	Conducting accurate survey to locate all the stone columns in correct location and setting up of stone column rigs with all accessories & tools at each stone column location based on the sequence approved by the Engineer-in charge.Includes preparation of positions of stone column rig and includes approach.																								
	<u>Stone Columns below Raft Foundation for enhancement of NET SBC &amp; Liquefaction Mitigation:</u>																								
226	Supply & Installation of Ground Improvement works using 900mm dia. stone columns using vibrofloat technique and up to required depth as per GFC Drawings measured from top of cut-off level of stone columns to temetreination depth of the stone column.This rate includes setting up of columns, installation of columns, real time monitoring of depth and compaction effort for every column, preparation of records, etc., as per design requirements and it also includes initial set-up with establishment. This rate is inclusive of supply of stone aggregates (75mm downsize) required for stone column works.Also provide stone columns layout between and around concrete piles for approval before start of execution. The soil improvement should achieve a) Allowable Bearing Pressure = 8.5 T/ m2 corresponding allowable settlement of 75mm (to be proven by initial and routine load tests specified in technical specification) with liquefaction mitigation b) Liquefaction FOS >=1 which needs to be confimetreed by carrying out ECPT Test.	metre	0.00	23250.00	26190.00	49440.00																			
227	<u>Stone Sand Blanket</u> The stone sand blanket shall be laid over the top of the stone columns for minimum 500mm thickness or as per the governing design criteria and will be compacted to a relative dry density of 85 percent Compaction ( to be confimetreed by field compaction test)shall be carried out with rollers with 10-12 MT capacity vibro roller. Stone / Sand shall be laid in layers of 150mm and compacted to achieve desired compaction. The Stone Sand Blanket shall be constructed with mixture of 75 mm and down stone aggregates and well graded medium to coarse sand of Fineness Modulus not less than 2.2.The proportions for mix ratio of 2:1 (2 Stone Aggregates: 1 sand).	cum	3024.00	3129.00	3175.00	9328.00																			
	<u>Initial Load Test (Single and Group Column Test)</u>																								
228	Single Column Plate Load Test( to be carried out outside the raft foot print area)	nos.	0.00	1.00	1.00	2.00																			
	Carrying out specified no of initial plate load tests on single columns (totalling to 9 no's ) ( as per clause 3.5 of IS 15284 part 1 and clause 7.4 of IS 15284 part 1) at specified locations as given by the Engineer in charge/client with necessary kentledge etc. complete in all respects and making a report thereof to confirm achievement of net SBC of 8.5 T/m2.The test should be carried out through a reputed agency (with prior approval of Engineer in charge )which needs to be approved by IIT/NIT, including the testing procedure and the test results. The test needs to be witnessed along with the representative of PMC, the Engineer in charge,the testing agency (contractor), and an authorized representative of IIT/NIT.																								
229	Group Column Plate Load Test (to be carried out outside the raft foot print area)	nos.	0.00	1.00	1.00	2.00																			
	Carrying out specified no of initial plate load tests on a group of stone columns ( totalling to16 no's)( as per clause 3.5 of IS 15284 part 1 and clause 7.4 of IS 15284 part 1) at specified locations as given by the Engineer in charge/client with necessary kentledge etc. complete in all respects and making a report thereof to confirm achievement of net SBC of 8.5 T/m2. The test should be carried out through a reputed agency (with prior approval of Engineer in charge )which needs to be approved by IIT/NIT, including the testing procedure and the test results. The test needs to be witnessed along with the representative of PMC, the Engineer in charge,the testing agency (contractor), and an authorized representative of IIT.																								
	<u>Routine Load Test (Single and Group Column Test)</u>																								
230	Single Column Plate Load Test	nos.	0.00	7.00	7.00	14.00																			



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	Carrying out specified no of routine plate load tests on single columns (for every 625 m2 consideration) ( as per clause 3.5 of IS 15284 part 1 and clause 7.4 of IS 15284 part 1) at specified locations as given by the Engineer in charge/client with necessary kentledge etc. complete in all respects and making a report thereof to confirm achievement of net SBC of 8.5 T/m2. The test should be carried out through a reputed agency (with prior approval of Engineer in charge) which needs to be approved by IIT/NIT, including the testing procedure and the test results. The test needs to be witnessed along with the representative of PMC, the Engineer in charge, the testing agency (contractor), and an authorized representative of IIT.																								
231	Group Column Plate Load Test	nos.	0.00	3.00	3.00	6.00																			
	Carrying out specified no of routine plate load tests on group of stone columns (for every 625 m2 consideration) ( as per clause 3.5 of IS 15284 part 1 and clause 7.4 of IS 15284 part 1) at specified locations as given by the Engineer in charge/client with necessary kentledge etc. complete in all respects and making a report thereof to confirm achievement of net SBC of 8.5 T/m2. The test should be carried out through a reputed agency (with prior approval of Engineer in charge) which needs to be approved by IIT/NIT, including the testing procedure and the test results. The test needs to be witnessed along with the representative of PMC, the Engineer in charge, the testing agency (contractor), and an authorized representative of IIT.																								
	<b>Confirmation of Liquefaction mitigation by field test</b>																								
232	Conducting Electric Static cone penetration test (ECPT) conforming to IS 4968 to specify N-Value at specified depths to confirm improvement in N-value to nullify liquefaction potential. The test should be carried out through a reputed agency (with prior approval of Engineer in charge) which needs to be approved by IIT/NIT, including the testing procedure and the test results. The test needs to be witnessed along with the representative of PMC, the Engineer in charge, the testing agency (contractor), and an authorized representative of IIT.	nos.	0.00	6.00	6.00	12.00																			
	<b>Sub Head 19 : Signages Interior</b>																								
	Providing and fixing of signages, modular curved frame technology, of various widths and lengths, to form suggested usages, made of aluminium extruded sections, duly anodised, all signages shall be provided with 0.6-0.8mm polycarbonate protecting film over the prints, of appropriate size. Model : Illusion by SIGNSUTRA or Equivalent.																								
233	ILLUSION C-80, ROOM NUMBER 80X120	each	768.00	768.00	827.00	2363.00																			
234	ILLUSION C-80, NAME PLATE 80X300	each	271.00	276.00	271.00	818.00																			
235	DEPARTMENT NAME PLATE 120X600	each	471.00	466.00	502.00	1439.00																			
236	ILLUSION C-80, DESIGNATION PLATE 80X300	each	79.00	79.00	66.00	224.00																			
237	ILLUSION C-120, DOOR PLATE TOILET 120X150	each	103.00	102.00	102.00	307.00																			
238	ILLUSION C-120, DOOR PLATE LADIES TOILET 120X150	each	20.00	20.00	33.00	73.00																			
239	ILLUSION C-120, DOOR PLATE GENTS TOILET 120X150	each	20.00	20.00	33.00	73.00																			
240	ILLUSION C-120, DOOR PLATE HANDICAP TOILET 120X150	each	17.00	17.00	7.00	41.00																			
241	ILLUSION C-80, ELECTRICAL PANEL 80X400	each	13.00	12.00	8.00	33.00																			
242	ILLUSION C-40, WORK STATION NAME PLATES 40X250	each	46.00	48.00	44.00	138.00																			
243	DRINKING WATER 210X300	each	40.00	42.00	33.00	115.00																			
244	AUTHORISED PERSONAL ONLY 120X120	each	102.00	96.00	101.00	299.00																			
	Providing and fixing of signages, customised to the architect's design, the signage to be made of 10 mm casted clear acrylic sheet duly cut by laser, all text to be of 2 mm thick acrylic duly laser cut, partially housed and pasted on to engraved surface of the text in the clear acrylic base, the 10mm acrylic sheet to be fixed on 25x25mm section of teak wood with help of crafted SS pins, and further fixed to the prescribed location with the help of wooden dowels, and required adhesive, as per drawing.																								
245	MAIN DIRECTORY 1200X600	each	42.00	42.00	35.00	119.00																			
246	FLOOR DIRECTORY 550X300	each	40.00	40.00	68.00	148.00																			
246	FLOOR LEVEL 550X300	each	138.00	136.00	70.00	344.00																			
247	CANTEEN 375X300	each	2.00	2.00	3.00	7.00																			
	Providing and fixing of Photoluminescent, 1mm rigid pvc based sheet containing lumigen 3, as base chemical, with high intensity luminous glow capacity.																								
248	PHOTOLUMINESCENT SIGN, FIRE HOSE 250X200	each	40.00	40.00	34.00	114.00																			
249	PHOTOLUMINESCENT SIGN, EXIT SIGN D-10 100X300	each	43.00	43.00	48.00	134.00																			
250	PHOTOLUMINESCENT SIGN, FIRE ALARM CALL POINT 150X200	each	40.00	40.00	37.00	117.00																			

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251	PHOTOLUMINESCENT SIGN, EVACUATION PLAN 200X300	each	32.00	32.00	7.00	71.00																			
252	PHOTOLUMINESCENT SIGN,PULL AND PUSH 90MM DIA	each	157.00	160.00	101.00	418.00																			
	Providing and fixing of 1.5mm.polished.304 grade,Stainless steel plate, duly etched and filled with prescribed enamel colors to fometre a elevator disclamer,of size 250x250mm																								
253	ELEVATOR DISCLAIMER PLATE 250X250	each	56.00	56.00	60.00	172.00																			
	Providing and fixing prohibition signage,made of aluminium composite panel, and all text and pictograms as screen printed and malamine coated, all fixtures in 304 grade SS, all design as per architects approval.																								
254	NO SMOKING 200X200	each	78.00	77.00	78.00	233.00																			
255	NO SPITING 200X200	each	78.00	77.00	78.00	233.00																			
256	KEEP SILENCE/PL SWITCH OFF MOBILE 200X200	each	28.00	28.00	28.00	84.00																			
	Providing and fixing prohibition signage,made of casted acrylic, duly laser cutand all text and pictograms as 3M vinyl electrocut,all fixing arrangements in 304 grade stainless steel,as per design .																								
257	CEILLING DRIECTION SIGN BOARD 300x1200	each	84.00	79.00	117.00	280.00																			
258	DIRECTION ARROWS 300x400	each	87.00	85.00	45.00	217.00																			
	<b>Exterior</b>																								
	Providing and fixing of main entrance sign , made of laser cut 2mm .304 grade brush Stainless steel,and letters to be laser cut in black acylic partially inserted in SS cut outs, the plate to be fixed on existing wall with the help of SS studs																								
	1200X2400	each	2.00	2.00	1.00	5.00																			
	Providing and fixing of exterior signage, to be fixed on the Wall mount with the help of MS framework, Signage to be made of MS pipe frame work, cladded with 3mm Aluminium composite panel, duly cut by CNC router, and the letters to be laser cut,10mm casted clear acrylic,inserted in a cut out fitted on 4 mm 040 casted acrylic, the letters front to be 3M day and night electrocut vinyl, The signage shall illuminated with back lit LED, of PHILLIPS/GE make of atleast 5Yrs gurantee, (certificate to be provided, by the makers of LED), complete in all respects																								
260	organisation name in english 14000X560	each	1.00	1.00	0.00	2.00																			
261	organisation name in Local Language 14000X560	each	1.00	1.00	0.00	2.00																			
262	organisation name in english& Local Language in Main Entrance 14000X1200	each	1.00	1.00	0.00	2.00																			
263	Emergency Name Board in Main Entrance 9400 X 1200			1.00		1.00																			
264	Emergency Name Board in Building 13000X460	each	1.00	1.00		2.00																			
265	LOGO 2000 Dia	each	2.00	2.00	1.00	5.00																			
266	LOGO in Main Building 560 Dia	each	1.00	1.00		2.00																			
267	organisation name in english& Local Language in Main building 13500X975	each	0.00	0.00	1.00	1.00																			
268	organisation name in english& Local Language in Main Entrance 15000X1200	each	0.00	0.00	1.00	1.00																			
269	Emergency Name Board in Building 8400X975	each	0.00	0.00	1.00	1.00																			
	Providing and fixing prohibition signage,made of aluminium composite panel, and all text and pictograms as screen printed and malamine coated, all fixtures in 304 grade SS, all design as per architects approval.																								
270	DEPARTMENT NAME PLATE 250X1000	each	11.00	11.00	11.00	33.00																			
271	MAIN DIRECTORY EXTERIOR with frame and 2 supporting posts 1200X2400	each	3.00	3.00	1.00	7.00																			
272	PARKING with frame and post 600x600	each	9.00	9.00	7.00	25.00																			
273	NO PARKING with frame and post 600x500	each	7.00	7.00	4.00	18.00																			
274	DIRECTION ARROWS EXTERIOR with frame and post 300x400	each	7.00	7.00	13.00	27.00																			
	<b>Sub Haed 20 : Horticulture</b>																								
	<b>Grass Areas</b>																								
275	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	cum	1290.00	379.00	522.90	2191.90																			
276	Flooding the ground with water including making kiaries and dismantling the same.	sqm	4300.00	1262.00	1743.00	7305.00																			
277	Fine dressing the ground	sqm	4300.00	1262.00	1743.00	7305.00																			
278	Grassing with 'Selection no I' grass including watering and maintenance of the lawn till the grass forms a thick lawn free from weeds and fit for mowing, including supplying good earth if needed. - In rows 5 cm apart in both directions	sqm	4300.00	1262.00	1743.00	7305.00																			

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<b>TREES</b>																					
<b>Pit Preparation</b>																					
	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately).																				
279	Holes 1.2 m dia and 1.2 m deep	each	47.00	3.00	23.00	73.00															
280	Holes 90 cm dia, and 90 cm deep	each	159.00	4.00	785.00	948.00															
<b>Providing and stacking</b>																					
	Planting best quality container/bag- grown healthy trees of species and height as specified. All trees to be approved before planting. Inclusive of Maintenance (as specified in section 1, item 6.2) for one year after planting.																				
<b>Botanical name/ Common name</b>																					
<b>TREES</b>																					
281	Albizia lebbeck	nos	8.00		1.00	9.00															
282	Mesua ferrea	nos	12.00		4.00	16.00															
283	Alstonia scholaris	nos	21.00		4.00	25.00															
284	Plumeria alba	nos	13.00	3.00	6.00	22.00															
285	Heterophragma adenophyllum	nos	47.00	4.00	18.00	69.00															
286	Clerodendrum inerme	nos	105.00		775.00	880.00															
<b>SHRUBS</b>																					
<b>Pit Preparation</b>																					
	Preparing planting beds for shrub planting by excavating and refilling the same with sweet earth mixed with manure 2 :1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing including removal of rubbish and surplus earth if any with all leads and lifts; excluding cost of earth and manure.																				
287	i 0.6m x 0.6m Ø	nos.	1023.00	576.00	800.00	2399.00															
288	ii 0.45m x 0.45m Ø	nos.	586.00	325.00		911.00															
<b>Supply and plantation</b>																					
	Planting best quality bushy shrubs with healthy root ball, of species and height as specified. All shrubs to Planting best quality pot-grown healthy shrubs of species and height as specified, inclusive of preparation and cultivation of shrub beds as specified in section I. All plants to be approved before planting. Inclusive of maintenance (as specified in section 1, item 6.2) for one year after planting.																				
<b>Botanical name/ Common name</b>																					
<b>SHRUBS</b>																					
289	Red Flam	nos.	455.00	135.00	415.00	1005.00															
290	Aroca Flam	nos.	80.00	270.00	80.00	430.00															
291	Ixora Dwarf	nos.	270.00	95.00	305.00	670.00															
292	Ficus Black	nos.	260.00	325.00	306.00	891.00															
293	Hibiscus rosa sinensis (hybrid)	nos.	138.00	0.00	40.00	178.00															
294	Nerium oleander(pink)	nos.	506.00	76.00	506.00	1088.00															
295	Clitoriaternatia				305.00	305.00															
<b>CLIMBERS</b>																					
<b>Pit Preparation</b>																					
	Preparing planting beds for climber planting by excavating and refilling the same with sweet earth mixed with manure 2 :1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing including removal of rubbish and surplus earth if any with all leads and lifts; excluding cost of earth and manure.																				
296	i 0.6m x 0.6m Ø	nos.	208.00	208.00	800.00	1216.00															
<b>GROUND COVERS</b>																					
<b>Pit Preparation</b>																					
	Preparing planting beds for ground covers planting by excavating and refilling the same with sweet earth mixed with manure 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing including removal of rubbish and surplus earth if any with all leads and lifts; excluding cost of earth and manure.																				
297	i .15m x.15m x 0.3m	nos	134.00	134.00	851.00	1119.00															
298	ii .30m x.30m x 0.3m	nos	1603.00	1603.00	306.00	3512.00															
<b>Supply and plantation</b>																					

SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	Planting best quality ground covers of species and height as specified. All ground covers to be planted should be best quality pot-grown healthy ground covers inclusive of preparation and cultivation of ground cover beds as specified in Section I. All plants to be approved before planting. Inclusive of maintenance (as specified in Section I, Item 6.2) upto one year after planting.																							
	<b>PLANTING MEDIA MIX</b>																							
	<b>MANURE AND SWEET EARTH</b>																							
299	<b>Manure for Ground Floor Areas</b> Supplying and stacking cow dung manure at site including royalty and carriage (manure measured in stacks will be reduced by 8% for payment). The project labour cost to supply & stack dump at various level of ground as per site requirement.	cum	125.00	125.00	174.30	424.30																		
300	<b>Sweet earth for Ground Floor</b> Supply will be provided as/site. Only quote for shifting of sweet earth in the radius of 1Km.	cum	645.00	645.00	261.45	1551.45																		
301	<b>Vermi Compost</b> Supplying spreading and mixing vermirei compost manure in planting bed for healthy growth of plants.	bag (50 kg per Bag)	32.00	32.00	30.00	94.00																		
302	<b>Sand</b> Supplying spreading and mixing sand for achieveing better soil texture	cum	85.00	85.00	90.00	260.00																		
303	<b>Cocopeat</b> Supplying spreading and mixing cocopeat for better aeration and water rentention	cum	65.00	65.00	70.00	200.00																		
304	<b>Mulching</b> Mulching with cocochip	cum	45.00	45.00	50.00	140.00																		
1	<b>Total Bill no-1 Civil works</b>																							
	<b>Bill no-2 PLUMBING WORK</b>																							
	<b>Sub Head 21 : Steel Work</b>																							
	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.																							
305	In stringers, treads, landings etc. of staircases, including use of chequered plate wherever required, all complete	kg	150.00	150.00	150.00	450.00																		
306	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	50.00	50.00	50.00	150.00																		
	<b>Sub Head 22 : Roofing</b>																							
	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	each	49.00	49.00	55.00	153.00																		
	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conformetreing to IS : 13592 Type A, including jointing with seal ring conformetreing to IS : 5382, leaving 10 mm gap for themetreal expansion, (i) Single socketed pipes.																							
308	75 mm dia	metre	120.00	120.00	100.00	340.00																		
309	110 mm diametre	metre	1360.00	1360.00	1310.00	4030.00																		
	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conformetreing to IS : 13592 Type A, including jointing with seal ring conformetreing to IS : 5382, leaving 10 mm gap for themetreal expansion.																							
310	Coupler 75 mm	each	84.00	84.00	84.00	252.00																		
311	110 mm	each	210.00	210.00	246.00	666.00																		
	Single pushfit Coupler																							
312	75 mm	each	84.00	84.00	84.00	252.00																		
313	110 mm	each	210.00	210.00	246.00	666.00																		
	Single tee with door																							
314	75x75x75 mm	each	84.00	84.00	84.00	252.00																		
315	110x110x110 mm	each	210.00	210.00	246.00	666.00																		



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			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total				
	Single tee without door																						
316	75x75x75 mm	each	84.00	84.00	84.00	252.00																	
317	110x110x110 mm	each	210.00	210.00	246.00	666.00																	
	Bend 87.5°																						
318	75mm bend	each	84.00	84.00	84.00	252.00																	
319	110 mm bend	each	210.00	210.00	246.00	666.00																	
	Shoe (Plain)																						
320	75 mm Shoe	each	84.00	84.00	84.00	252.00																	
321	110 mm Shoe	each	210.00	210.00	246.00	666.00																	
	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.																						
322	75 mm	each	168.00	168.00	168.00	504.00																	
323	110 mm	each	420.00	420.00	492.00	1332.00																	
324	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diametre and weighing not less than 440 grams.	each	49.00	49.00	55.00	153.00																	
	<b>Sub Head 23 : Sanitary Installations</b>																						
	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 Litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:																						
325	White Vitreous china <b>Orissa pattern W.C. pan</b> of size 580x440 mm with integral type foot rests.	each	35.00	35.00	44.00	114.00																	
	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 Litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :																						
326	W.C. pan with ISI marked white solid plastic seat and lid	each	110.00	110.00	121.00	341.00																	
327	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting,of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres),including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	each	30.00	30.00	50.00	110.00																	
328	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	each	35.00	35.00	39.00	109.00																	
	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:																						
329	White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow including operated levers	each	91.00	91.00	330.00	512.00																	
330	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	each	201.00	201.00	200.00	602.00																	

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)							
331	Washbasin Ovel shape (T-2): Providing and fixing white vitreous china Table top wash basin size - 610*460*140mm, installed above granite / marble counter with 15 mm C.P. brass basin pillar tap, 32mm C.P brass waste coupling of standard pattern, including 2 nos. angle valve with riser pipes, connectors, adopters, all fittings etc. cutting and making good the walls/slabs wherever required.	each	102.00	102.00	146.00	350.00																						
332	<b>Flat back large urinals:</b> Providing and fixing starwhite vitreous China flat back large urinals size - 375x390x590mm with self closing flush valve fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, and other couplings in C.P. brass, including all necessary fittings & fixtures complete with painting and making good the walls and floors wherever required.	each	43.00	43.00	63.00	149.00																						
333	Providing and fixing Stainless Steel A ISI 304 (18/8) <b>kitchen sink</b> as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board 510x1040 mm bowl depth 200 mm	each	47.00	47.00	28.00	122.00																						
334	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required : Size 450x300x150 mm	each	12.00	12.00	23.00	47.00																						
335	Size 600x450x200 mm	each	34.00	34.00	34.00	102.00																						
336	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	each	201.00	201.00	200.00	602.00																						
337	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. <b>Semi rigid pipe</b> 40 mm dia	each	12.00	12.00	25.00	49.00																						
338	<b>Flexible Pipe</b> 32 mm dia -	each	91.00	91.00	330.00	512.00																						
339	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	each	102.00	102.00	146.00	350.00																						
340	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	each	34.00	34.00	34.00	102.00																						
341	C.P.Brass Sink Cock: Supplying, fixing testing and commissioning of C.P.Brass Sink cock With Extended Swivel Spout (Wall Mounted) type with all fittings and fixtures complete of approved quality conforming to IS standards.	each	93.00	93.00	85.00	271.00																						
342	Two way Bib cock: Supplying, fixing testing and commissioning of C.P.Brass two way bib cock with wall flange and aerator type with all fittings and fixtures complete of approved quality conforming to IS standards	each	175.00	175.00	210.00	560.00																						
343	C.P.Brass Health faucet : Supply, fixing, testing and commissioning of HAND SHOWER (Health Faucet) near EWC consisting of 1rms. Long C.P. flexible tube with wall hook with all fittings and fixtures complete conforming to IS standards.	each	175.00	175.00	210.00	560.00																						
344	<b>Wall mixer 2 in 1:</b> Supply, fixing, testing and commissioning of Wall Mixer 2 in 1 with Provison For Over Head Shower With 115mm Long Bend Pipe complete and wall flanges including bath spout, concealed body & exposed parts, connectors, adopters, fittings, fixtures, complete of approved design etc.	each	55.00	55.00	36.00	146.00																						

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			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total									
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)							
345	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms	each	110.00	110.00	99.00	319.00																						
	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.																											
346	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	each	110.00	110.00	99.00	319.00																						
347	Providing and fixing of star white EWC and low level cistern of 6 Litre capacity , angle valve with riser pipe with fittings and seat cover and including of wall hung compact washbasin of size 46x36cm fixed to wall with brackets, 1 no.of angle valve with riser pipes, connectors, adopters, all fittings and one hinged rail of 76cm with one pair of mounting brackets and 5no grab rails of 60cm for support, faucet with spatula lever (without Bottle trap) with all fittings and fixtures complete, angle valve, riser / connector pipe, nuts, bolts, connector, adopter, check nuts etc including cutting and making good the walls and floors wherever required. (FOR PHYSICALLY CHALLENGED TOILET)	each	17.00	17.00	7.00	41.00																						
348	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	110.00	110.00	102.00	322.00																						
	Providing and fixing <b>mirror</b> of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing:																											
349	<b>Rectangular shape 1500x450 mm</b>	each	37.00	37.00	52.00	126.00																						
	Providing and fixing M.S. holder-bat clamps of approved design toCentrifugally cast spun iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :																											
350	For 100 mm dia. Pipe	each	329.00	329.00	315.00	973.00																						
351	For 75 mm dia. Pipe	each	413.00	413.00	385.00	1211.00																						
	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 ( 1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :																											
352	100 mm dia	metre	329.00	329.00	315.00	973.00																						
353	75 mm dia	metre	413.00	413.00	385.00	1211.00																						
354	<b>Level Indicator</b> : Supply and fixing in position the following Water Level Indicator with Tube connected to the tank at the side, pressure limit of 10 Kg / Cm2 and including including fittings, connectors, adopters etc. all effective proper connections.	each	10.00	10.00	7.00	27.00																						
355	<b>Floor trap Grating</b> : Supplying and fixing of Square & Round (125x125mm) approximately Stainless Steel grating including GI hopper for connection of wash basin/ urinal with fittings, connectors & adopters.and all fittings etc., complete.	each	481.00	481.00	583.00	1545.00																						
356	<b>Floor Clean out</b> : Providing and fixing of Stainless Steel floor clean out cover Square & Round (125x125mm) approximately plug with suitable for CI pipes in Toilet areas including fittings, flanges, connector, GI coupling etc.	each	50.00	50.00	87.00	187.00																						
357	Providing,Fixing wall mounted Double Coat hook on door complete.	each	145.00	145.00	295.00	585.00																						
<b>Sub Head 24 : Water Supply</b>																												

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.																							
	<b>Internal work - Exposed on wall</b>																							
358	15 mm nominal outer dia Pipes	metre	564.00	564.00	390.00	1518.00																		
359	20 mm nominal outer dia Pipes	metre	121.00	121.00	121.00	363.00																		
360	25 mm nominal outer dia Pipes	metre	240.00	240.00	210.00	690.00																		
361	32 mm nominal outer dia Pipes	metre	140.00	140.00	132.00	412.00																		
362	40 mm nominal outer dia Pipes	metre	280.00	280.00	233.00	793.00																		
363	50 mm nominal outer dia Pipes	metre	165.00	165.00	137.00	467.00																		
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, pressure rating Max 6Kg/cm2 and conforming to IS 15778, including all kind of pipe supports (GI fabricated or concrete pedestal) CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge.																							
	<b>Internal work - Exposed on wall</b>																							
364	65 mm nominal outer dia Pipes	metre	180.00	180.00	150.00	510.00																		
365	80 mm nominal outer dia Pipes	metre	240.00	240.00	220.00	700.00																		
366	100 mm nominal outer dia Pipes	metre	240.00	240.00	220.00	700.00																		
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.																							
	<b>Concealed work, including cutting chases and making good the walls etc.</b>																							
367	15 mm nominal outer dia Pipes	metre	555.00	555.00	390.00	1500.00																		
368	20 mm nominal outer dia Pipes	metre	2347.00	2347.00	1761.00	6455.00																		
369	25 mm nominal outer dia Pipes	metre	357.00	357.00	566.00	1280.00																		
370	32 mm nominal outer dia Pipes	metre	193.00	193.00	399.00	785.00																		
	Providing and fixing insulation for hot water piping with elastomeric Class - O Nitrile Rubber Tubular Insulation & the same insulation with aluminum cladding 22 gauge for hot water piping. Before applying insulation, all pipe work and fittings shall be brushed and cleaned. Dust, dirt, mortar and oil shall be removed as per direction of Engineer-in-Charge.																							
371	20 mm tube inner dia Pipes	metre	325.00	325.00	290.00	940.00																		
372	25 mm tube inner dia Pipes	metre	25.00	25.00	65.00	115.00																		
373	35 mm tube inner dia Pipes	metre	31.00	31.00	45.00	107.00																		
374	42 mm tube inner dia Pipes	metre	110.00	110.00	10.00	230.00																		
	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.																							
	<b>Internal work - Exposed on wall</b>																							
375	25 mm nominal outer dia Pipes	metre	75.00	75.00	75.00	225.00																		
376	32 mm nominal outer dia Pipes	metre	75.00	75.00	75.00	225.00																		
377	40 mm nominal outer dia Pipes	metre	30.00	30.00	30.00	90.00																		
378	50 mm nominal outer dia Pipes	metre	30.00	30.00	30.00	90.00																		
	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.																							
379	25 mm dia nominal inner dia .Pipes	metre	20.00	20.00	95.00	135.00																		
380	32 mm dia nominal inner dia .Pipes	metre	20.00	20.00	70.00	110.00																		
381	40 mm dia nominal inner dia .Pipes	metre	1330.00	1330.00	560.00	3220.00																		
382	50 mm dia nominal inner dia .Pipes	metre	185.00	185.00	20.00	390.00																		
383	65 mm dia nominal inner dia .Pipes	metre	300.00	300.00	160.00	760.00																		
384	80 mm dia nominal inner dia .Pipes	metre	900.00	900.00	210.00	2010.00																		
	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :																							
385	25 to 40 mm nominal bore	each	30.00	30.00	30.00	90.00																		
386	50 to 80 mm nominal bore	each	29.00	29.00	32.00	90.00																		
	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :																							
387	25 mm nominal bore (PN 1.6)	each	2.00	2.00		4.00																		
388	32 mm nominal bore (PN 1.6)	each	2.00	2.00		4.00																		
389	40 mm nominal bore (PN 1.6)	each	13.00	13.00	21.00	47.00																		
390	50 mm nominal bore (PN 1.6)	each	5.00	5.00	3.00	13.00																		
391	65 mm nominal bore (PN 1.6)	each	15.00	15.00	15.00	45.00																		





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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)								
420	50 mm diameter pipe	metre	185.00	185.00	20.00	390.00																							
421	65 mm diameter pipe	metre	300.00	300.00	160.00	760.00																							
422	80 mm diameter pipe	metre	900.00	900.00	210.00	2010.00																							
	Providing and filling sand of grading zone V or coarser grade, allround the G.I. pipes in external work :																												
423	25mm diameter pipe	metre	20.00	20.00	95.00	135.00																							
424	32mm diameter pipe	metre	20.00	20.00	70.00	110.00																							
425	40mm diameter pipe	metre	1330.00	1330.00	560.00	3220.00																							
426	50 mm diameter pipe	metre	185.00	185.00	20.00	390.00																							
427	65 mm diameter pipe	metre	300.00	300.00	160.00	760.00																							
428	80 mm diameter pipe	metre	900.00	900.00	210.00	2010.00																							
428	100 mm diameter pipe	metre	0.00	0.00	0.00	0.00																							
	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :																												
429	15 mm nominal bore	each	5.00	5.00	5.00	15.00																							
430	20 mm nominal bore	each	5.00	5.00	5.00	15.00																							
431	25 mm nominal bore	each	5.00	5.00	5.00	15.00																							
432	32 mm nominal bore	each	75.00	75.00	80.00	230.00																							
433	40 mm nominal bore	each	35.00	35.00	21.00	91.00																							
434	50 mm nominal bore	each	90.00	90.00	25.00	205.00																							
434	65 mm nominal bore	each	20.00	20.00	20.00	60.00																							
435	80 mm nominal bore	each	20.00	20.00	20.00	60.00																							
	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces,tapers etc if required will be paid separately.																												
436	50 mm nominal bore	each	4.00	4.00	4.00	12.00																							
437	80 mm nominal bore	each	5.00	5.00	5.00	15.00																							
	Supply and fixing in position the following lever operated, full flow, quarter turn, Ball Valves of Forged Brass body and chrome plated brass ball with chrome plated steel handle with PVC sleeve and PTFE seal tested to 25 Kg / Cm2 pressure rating, conforming to BS : 5159 manufacturing standards,including fittings, connectors, adopters etc.all unions and effective proper connections.																												
438	15 mm nominal bore	each	5.00	5.00	5.00	15.00																							
439	20 mm nominal bore	each	5.00	5.00	5.00	15.00																							
440	25 mm nominal bore	each	30.00	30.00	30.00	90.00																							
441	32 mm nominal bore	each	10.00	10.00	10.00	30.00																							
442	40 mm nominal bore	each	25.00	25.00	25.00	75.00																							
443	50 mm nominal bore	each	10.00	10.00	10.00	30.00																							
	Supply and fixing in position the following lever operated, full flow, Butterfly Valves of Cast Iron body, Ductile Iron Disc, with Nitrile integrally moulded rubber and pressure rating of Body- 10 Kg / Cm2 , Seat - 16 Kg / Cm2 conforming to IS :13095 manufacturing standards, including fittings, GI flanges, connectors, adopters etc. all unions and effective proper connections.																												
444	65 mm nominal bore	each	10.00	10.00	10.00	30.00																							
445	80 mm nominal bore	each	15.00	15.00	15.00	45.00																							
446	100 mm nominal bore	each	15.00	15.00	15.00	45.00																							
	Supply and fixing in position the following Single Acting Air Valve of large orifice type Cast iron body pressure rating of 10 Kg / Cm2 , 16 Kg / Cm2 conforming to IS 14845 : 2000 with lever operated, full flow, quarter turn,including fittings, connectors, adopters etc.Ball Valves of Forged Brass body and chrome plated brass ball with chrome plated steel handle with PVC sleeve and PTFE seal tested to 25 Kg / Cm2 pressure rating, conforming to BS : 5159 manufacturing standards, and including all unions and effective proper connections.																												
447	15 mm nominal bore	each	0.00	0.00	0.00	0.00																							
448	20 mm nominal bore	each	5.00	5.00	5.00	15.00																							
449	25 mm nominal bore	each	15.00	15.00	15.00	45.00																							
	Supply and fixing in position the following Solenoid Valves with Brass body, SS-304 spring, pressure limit of 12 Kg / Cm2 and assembled with NBR seal. Include power cable, control cable, level probe/sensor/ electrode, including fittings, connectors, adopters etc. & accessories complete set																												
450	25 mm nominal bore	each	0.00	0.00	0.00	0.00																							
451	32 mm nominal bore	each	0.00	0.00	0.00	0.00																							
452	40 mm nominal bore	each	5.00	5.00	5.00	15.00																							
453	50 mm nominal bore	each	10.00	10.00	15.00	35.00																							

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	Supply and fixing in position the following shall be operated by screwed end requiring only a quarter turn Isolation Valve 3 piece ball-type design with a bronze body and chrome plated brass ball and Seats shall be Teflon (TFE) and seals Viton for valves. A blow-out proof stem shall be used and the valve shall have a maximum pressure rating of 16 Kg / Cm2 including fittings, connectors, adapters etc. and effective proper connections.																							
454	20 mm nominal bore	each	30.00	30.00	30.00	90.00																		
455	25 mm nominal bore	each	30.00	30.00	30.00	90.00																		
456	32 mm nominal bore	each	30.00	30.00	30.00	90.00																		
457	40 mm nominal bore	each	30.00	30.00	30.00	90.00																		
458	50 mm nominal bore	each	30.00	30.00	30.00	90.00																		
459	65 mm nominal bore	each	35.00	35.00	35.00	105.00																		
460	80 mm nominal bore	each	10.00	10.00	10.00	30.00																		
	Supply, fixing, testing and commissioning of Multi Jet Water metre with Brass Body, Couplings, Flowrange varies from 0.12 to 15 cum/hr with pressure limit of 16Kg/sq.cm. The output is perfect for remote monitoring of flow rate or flow totalization, and to be interface with PLC's, counters, data loggers, and SCADA systems complete including inter connection pipping, all fittings, valves, strainer, NRV, power cables, control cables, required accessories etc complete																							
461	25 mm nominal bore	each	0.00	0.00	0.00	0.00																		
462	32 mm nominal bore	each	0.00	0.00	0.00	0.00																		
463	40 mm nominal bore	each	5.00	5.00	5.00	15.00																		
464	50 mm nominal bore	each	5.00	5.00	5.00	15.00																		
465	Providing and placing on terrace (at all floor levels) <b>polyethylene water storage tank</b> , ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per Litre	10000.00	10000.00	10000.00	30000.00																		
	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :																							
466	15 mm nominal bore	each	35.00	35.00	44.00	114.00																		
	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.																							
467	15 mm nominal bore	each	47.00	47.00	28.00	122.00																		
	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 (a)																							
468	15 mm nominal bore	each	560.00	560.00	825.00	1945.00																		
469	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	each	742.00	742.00	700.00	2184.00																		
470	Supplying, fixing and commissioning of approved make & suitable model for Water Dispenser with purified normal hot and cold water outlets including all fittings and accessories complete.,	each	28.00	28.00	30.00	86.00																		
471	Providing, fixing, testing and commissioning of R.O. plant 1000 ltrs. Per hour flow rate having capacity to treat the raw water having TDS 1200 ppm and not less than 40%. The treated water should have TDS less than 100 ppm and hardness less than 50 ppm. The operating voltage to 230 volt AC +/- 10% alongwith required capacity pump and solenoid valves, dry run protection of pump,automatic tank level control, inbuilt auto flush timer for periodic flushing of membranes,hydro pneumatic tank, over voltage and over current protection with switch mode power supply system complete in all respects.,	each	2.00	2.00	2.00	6.00																		
472	Providing & fixing hot dip galvanized proprietary factory fabricated supports including GI/SS fasteners, GI nut, bolts & washers, GI clamps, etc complete including cutting & chasing in brick / concrete wall and making same good.	kg	325.00	325.00	325.00	975.00																		
473	Providing and laying Rubber Sheet of 6mm thick below polyethylene water storage tank	each	5.00	5.00	5.00	15.00																		

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)																				
474	Providing, fixing, testing and commissioning of Booster pump Electro-coated cast iron parts, High efficient motor with Horizontal multistage centrifugal pump, power 0.9KW and flow of 2.4 cum/hr switch mode power supply system, including, connectors, fittings etc complete in all respects.,	each	10.00	10.00	10.00	30.00																																			
	<b>Sub Head 25 : Drainage</b>																																								
	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete:																																								
475	150 mm diametre	metre	25.00	25.00	25.00	75.00																																			
476	200 mm diametre	metre	30.00	30.00	30.00	90.00																																			
477	250 mm diametre	metre	60.00	60.00	60.00	180.00																																			
	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:																																								
478	150 mm diametre S.W. pipe	cum	10.00	10.00	10.00	30.00																																			
479	200 mm diametre S.W. pipe	cum	10.00	10.00	10.00	30.00																																			
480	250 mm diametre S.W. pipe	cum	10.00	10.00	10.00	30.00																																			
	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :																																								
481	150 mm diametre S.W. pipe / RCC pipe	metre	10.00	10.00	10.00	30.00																																			
482	200 mm diametre S.W. pipe / RCC pipe	metre	10.00	10.00	10.00	30.00																																			
483	250 mm diametre S.W. pipe / RCC pipe	metre	10.00	10.00	10.00	30.00																																			
	Supplying and fixing in position best quality uPVC soil / waste pipes of various dia IS 13592:1992 - Type-B including UPVC specials connecting to the UPVC soil stacks and providing leak proof joints using adhesives including fixing to the wall with specials, MS clamp, teak wood plugs, brass screws, etc., and making connection to all sanitary fittings, dismantling masonry / RCC works wherever found necessary and making the good dismantled portion to the original condition, including testing for any leakages, etc., complete complying with standard specifications.																																								
484	40mm Dia	metre	300.00	300.00	320.00	920.00																																			
485	75mm Dia	metre	798.00	798.00	1100.00	2696.00																																			
486	110mm Dia	metre	452.00	452.00	450.00	1354.00																																			
	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 Kg and frame to be not less than 2.70 Kg as per standard design :																																								
487	180x150 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	140.00	140.00	110.00	390.00																																			
	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :																																								
488	150 mm diametre RCC pipe	metre	50.00	50.00	50.00	150.00																																			
489	250 mm diametre RCC pipe	metre	50.00	50.00	50.00	150.00																																			
490	300 mm diametre RCC pipe	metre	60.00	60.00	60.00	180.00																																			
	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :																																								
	Inside size 90 x 80 cm and 45 cm deep including CI cover with frame (light duty) 455 x 610mm internal dimensions total weight of cover and frame to be not less than 38 Kg. ( weight of cover 23 Kg. and weight of frame 15 Kg.), with FPS bricks with class designation 7.5																																								



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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
491	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	40.00	40.00	20.00	100.00																				
	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 Kg (weight of cover 58 Kg and weight of frame 58 Kg) :																									
492	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	10.00	10.00	10.00	30.00																				
	Extra for depth for manholes: Size 90 x 80 cm																									
493	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	5.00	5.00	5.00	15.00																				
	Size 120x90 cm																									
494	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	5.00	5.00	5.00	15.00																				
	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :																									
	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diam conforming to I.S. 12592, total weight of cover and frame to be not less than 182 Kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately):																									
495	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	25.00	25.00	25.00	75.00																				
	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m																									
496	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	15.00	15.00	15.00	45.00																				
	Constructing brick masonry circular manhole 1.22m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12mm thick with cement mortar 1:3 (1 cement :3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :																									
	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560mm internal diam conforming to I.S. 12592, total weight of cover and frame to be not less than 182Kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :																									
497	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	5.00	5.00	5.00	15.00																				
	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29 m :																									
498	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	4.00	4.00	4.00	12.00																				

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :																									
	2.30 m deep with SFRC Cover and frame (heavy duty HD- 20 grade designation) 560 mm internal diamr conforming to I.S. 12592, total weight of cover and frame to be not less than 182 Kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :																									
499	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	10.00	10.00	5.00	25.00																				
	<b>Extra depth</b> for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29 m :																									
500	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	5.00	5.00	5.00	15.00																				
501	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	80.00	80.00	80.00	240.00																				
	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality																									
502	HD - 20 Circular shape 560 mm internal diametre	each	10.00	10.00	10.00	30.00																				
	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :																									
503	For pipes 100 to 250 mm diametre	each	5.00	5.00	5.00	15.00																				
	For pipes 350 to 450 mm diametre	each	0.00	0.00	0.00	0.00																				
	Constructing brick masonry road gully chamber 50x45x60cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450mm precast RCC horizontal grating with frame complete as per standard design.																									
504	With common burnt clay F.P.S. (nons modular) bricks of class designation 7.5	each	2.00	2.00	2.00	6.00																				
	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 Kg (weight of cover 23 Kg and weight of frame 15 Kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :																									
	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :																									
505	With common burnt clay F.P.S. (nons modular) bricks of class designation 7.5	each	125.00	125.00	56.00	306.00																				
	Extra for depth beyond 45 cm of brick masonry chamber :																									

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	For 455x 610 mm size																							
506	With common burnt clay F.P.S. (nosn modular) bricks of class designation 7.5	metre	290.00	290.00	112.00	692.00																		
	<b>Sub Head 26 : Borewell</b>																							
	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part 1), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.																							
507	300 mm dia	metre	450.00	450.00	450.00	1350.00																		
508	350 mm dia	metre	180.00	180.00	180.00	540.00																		
	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part 1), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.																							
509	300 mm dia	metre	180.00	180.00	180.00	540.00																		
510	30 mm dia	metre	180.00	180.00	180.00	540.00																		
	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.																							
511	100 mm dia	metre	450.00	450.00	450.00	1350.00																		
	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (rmS) pipes with ribs conforming to IS: 12818, including hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.																							
512	150 mm nominal size dia	metre	450.00	450.00	450.00	1350.00																		
	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.																							
513		cum	48.00	48.00	48.00	144.00																		
	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.																							
514		cum	8.00	8.00	8.00	24.00																		
	Supplying, filling, spreading & leveling coarse sand of size range 1.5mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -incharge.																							
515		cum	8.00	8.00	8.00	24.00																		
	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required gradin & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.																							
516		cum	161.00	161.00	161.00	483.00																		
	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S.flats of size 50 mm x 1.6 mm complete, all as per direction of Engineerin-charge.																							
517		each	48.00	48.00	48.00	144.00																		

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
518	Development of tube well in accordance with IS : 2800 (part I) and IS:11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	hour	8.00	8.00	8.00	24.00																		
519	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of: 200 mm dia	each	2.00	2.00	2.00	6.00																		
520	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete. 150 mm clamp	each	2.00	2.00	2.00	6.00																		
521	Providing and fixing bail plug / bottom plug of required dia at the bottom of the pipe assambley as per IS: 2800 (Part-1). 150 mm dia	each	5.00	5.00	5.00	15.00																		
522	Supply, installation testing & commissioning of submersible pumping set suitable to operate on 410 volts 3 phase 50 HZ A.C. power supply including water proof joint free cable, motor control panel, 50 mm dia, G.I. pipe (medium class) column with fittings, clamps etc. complete in all respect as per details given below : (For Borewell) Discharge 300 LPM. Head 50 m HP/Load 6.0 (Approx)	each	2.00	2.00	2.00	6.00																		
523	Supplying and fixing Single headed external yard hydrant valve with 1 nos 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required : Single headed Gunmetal	each	26.00	26.00	26.00	78.00																		
524	Providing and fixing C.I. scour valves (with cap) complete with including all kind of fittings/flanges and GI nut/bolts/washers etc, accessories, GI concrete supports for complete installation upto the satisfaction of engineer incharge. 50 mm nominal bore (PN 1.6)	each	6.00	6.00	5.00	17.00																		
525	Providing, laying and joining in position HDPE pipes with slipon flange, High density Poly Ethylene pipe and conforming to I.S. 4984-1995 of required grade / class, 10Kg/sq.cm pressure and suitable for the respective working pressures with all fittings and specials, e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces, etc., jointing as per manufacturers recommendations, all complete including trenching, backfilling & pressure testing etc. (For Sewer & ETP line). 25 mm dia. (OD) (10.0 Kg/sq cm.)	metre	0.00	0.00	0.00	0.00																		
526	32 mm dia. (OD) (10.0 Kg/sq cm.)	metre	0.00	0.00	0.00	0.00																		
527	40 mm dia. (OD) (10.0 Kg/sq cm.)	metre	0.00	0.00	0.00	0.00																		
528	50 mm dia. (OD) (10.0 Kg/sq cm.)	metre	0.00	0.00	0.00	0.00																		
529	63 mm dia. (OD) (10.0 Kg/sq cm.)	metre	0.00	0.00	0.00	0.00																		
530	90 mm dia. (OD) (10.0 Kg/sq cm.)	metre	700.00	700.00	400.00	1800.00																		
531	110 mm dia. (OD) (10.0 Kg/sq cm.)	metre	550.00	550.00	550.00	1650.00																		
532	160 mm dia. (OD) (10.0 Kg/sq cm.)	metre	100.00	100.00	250.00	450.00																		
533	200 mm dia. (OD) (10.0 Kg/sq cm.)	metre	50.00	50.00	75.00	175.00																		

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)						
	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, and providing leak proof joints using adhesives including fixing to the wall with specials, fittings MS clamp, teak wood plugs, brass screws, etc., and making connection to all fittings, dismantling masonry / RCC works wherever found necessary and making the good dismantled portion to the original condition, including testing for any leakages, etc., complete complying with standard specifications.																										
534	160 mm dia.	metre	520.00	520.00	650.00	1690.00																					
<b>Sub Head 27 : Rain Water Harvesting Pit</b>																											
	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.																										
535	All kinds of soil	cum	339.00	339.00	226.00	904.00																					
536	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	170.00	170.00	113.00	453.00																					
	Extra for every additional lift of 1.5 m or part thereof in.																										
537	All kinds of soil.	cum	102.00	102.00	68.00	272.00																					
538	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	25.00	25.00	17.00	67.00																					
539	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	cum	25.00	25.00	17.00	67.00																					
540	Supplying and stacking at site. 53 mm to 22.4 mm size stone aggregate	cum	25.00	25.00	17.00	67.00																					
<b>Total Bill no-2 Plumbing works</b>																											
<b>Bill no-3 FIRE FIGHTING WORKS</b>																											
<b>Sub Head 28 : Pumps</b>																											
	1. noC from fire authority shall be in the scope of Contractor . Only fee paid to the fire authority shall be reimbursed against the submission of the receipt and nothing shall be paid extra.																										
	2. All the Fire Fighting works shall be done in compliance of Fire Fighting authority requirement.																										
	Pump shall be capable of furnishing not less than 150% of rated capacity at a head not less than 65 % of rated head. The shut off head shall not exceed 120% of rated head.																										
	Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required :																										
	Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.																										
	Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.																										
	M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered with anti vibration pads.																										
541	2280 lpm at 88 m Head note: *The head of the pump is selected in a manner so as to give a minimum 3.5Kgf/cm2 pressure at the highest/farthest point.	set	2.00	2.00	2.00	6.00																					
	Supplying, installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Diesel Driven Pump)																										
	Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.																										



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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
	Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required.																									
	M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required.																									
	Suitable cement concrete foundation duly plastered with anti vibration pads.																									
542	2280 lpm at 88 m Head	set	1.00	1.00	1.00	3.00																				
	note: *The head of the pump is selected in a manner so as to give a minimum 3.5Kgf/cm2 pressure at the highest/farthest point.																									
	Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump).																									
	Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520.																									
	Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS : 325.																									
	M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.																									
	Suitable cement concrete foundation duly plastered and with anti vibration pads.																									
543	180 lpm at 88m Head	set	2.00	2.00	2.00	6.00																				
	<b>Sub Head 29 : Control Panels</b>																									
	Fabrication, supply, Insallation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required :																									
	INCOMING																									
	400A, 50kA 4 Pole MCCB, Ics=100% Icu rating																									
	Digital Voltmetre 0-500V with selector switch																									
	Ammetre (0-400 A) with selector swtich & CTs etc.																									
	LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps																									
	set of Copper Bus Bar 500A																									
	OUTGOING																									
	( note : All outgoing feeders for pumps should have digital Ammetre with selector switches, and LED type ON, OFF, trip indicating lamps)																									
	<b>MAIN FIRE PUMP</b>																									
	200 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.																									
	<b>JOCKEY PUMP</b>																									
	100 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.																									
	<b>DIESEL ENGINE CONTROL</b>																									
	Control for diesel engine comprising -																									

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									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
	Automatic/Manual selector switch & 3 attempt starting device, timers and relays as required, push buttons, start/stop in manual mode																				
	Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication																				
	Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt metre, and 0- 20 A DC Ammetre																				
	All standard relays and accessories for automatic operation of diesel engine																				
	SYSTEM CONTROLLER																				
544	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specifications.	set	1.00	1.00	1.00	3.00															
	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1 kV grade as required. It should be complete as per specifications & directions of Engineer-in-charge.																				
545	4 x 25 sqmm(28 mm)	each	10.00	10.00	10.00	30.00															
546	3.5 x 50 sqmm(35 mm)	each	10.00	10.00	10.00	30.00															
547	3 x 10 sqmm(22 mm)	each	10.00	10.00	10.00	30.00															
	Supplying and installing following size of perforated painted with powder coating M.S cable trays with perforation not more than 17.5% in convinient sections, joined with connectors, suspended from the ceiling with M.S suspendors including bolts & nuts, painting suspenders etc. as required																				
548	150 mm width x 50 mm depth x 1.6mm thickness.	metre	90.00	90.00	90.00	270.00															
	Earthing with G.I. earth plate 600mm x 600mm x 6mm thick including accessories, and proving masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	set	6.00	6.00	6.00	18.00															
550	Providing and fixing 25mm x 5mm G.I. Strip in 40mm dia G.I pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and refilling etc. as required.	metre	60.00	60.00	60.00	180.00															
	Proving and fixing 25mm x 5mm G.I. strip on surface or in recess for connections etc. as required.	metre	60.00	60.00	60.00	180.00															
	Supplying and laying on one number XLPE insulated PVC sheathed Aluminium conductor armoured UG cable of 1.1 KV grade conforming to IS 7098/1988 with upto date ammendment of following size in the existing RCC/ HUMED/ METAL/ GI/ CI/ Stoneware/ DWC pipe/ masonry open duct/ cable tray/ open in air etc. as required.																				
552	4 core, 25 sqmm. Aluminium armoured	metre	60.00	60.00	60.00	180.00															
553	3.5 core, 50 sqmm. Aluminium armoured	metre	80.00	80.00	80.00	240.00															
554	3 core, 10 sqmm. Aluminium armoured	metre	70.00	70.00	70.00	210.00															
	Supply and fixing in position 1m wide insulation mat made of elastomeric polymers material (Class - A) of 415V grade as per IS 15642-2006. Thickness of insulation mat shall be not less than 2mm to withstand 1.1 KV dielectric strength as per IS 15652:2006. It should be complete as per specifications and directions of Engineer-in-charge.	metre	20.00	20.00	20.00	60.00															
	<b>Sub Head 30 : Pipes &amp; Accessories</b>																				
	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required.(For Underground)																				
556	200 mm. dia (wall thickness = 6.3 mm)	metre	30.00	30.00	30.00	90.00															
557	150 mm. Dia	metre	20.00	20.00	20.00	60.00															





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	Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.																				
584	40 m	set	35.00	35.00	35.00	105.00															
	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diam size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :																				
585	Gun metal	set	0.00	0.00	0.00	0.00															
586	Stainless steel	set	45.00	45.00	45.00	135.00															
	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required																				
587	2 way-100 mm dia M.S. Pipe. (FOR UG TANK)	set	2.00	2.00	2.00	6.00															
588	4 way - 150 mm dia M.S. Pipe. (FOR UG TANK & EXTERNAL RING MAIN)	set	2.00	2.00	2.00	6.00															
	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	set	2.00	2.00	2.00	6.00															
	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :																				
590	Pendent Sprinkler	each	1161.00	1161.00	1036.00	3358.00															
591	Upright Sprinkler	each	1308.00	1308.00	1214.00	3830.00															
592	Horizontal side wall sprinkler	each	16.00	16.00	15.00	47.00															
593	Concealed sprinkler	each	1.00	1.00	1.00	3.00															
594	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.	each	21.00	21.00	25.00	67.00															
	Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required.																				
595	100mm dia	each	21.00	21.00	25.00	67.00															
596	150mm dia	each	31.00	31.00	30.00	92.00															
	Providing, fixing, testing & commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of following sizes as required :																				
597	80mm dia	set	1.00	1.00	1.00	3.00															
598	100mm dia	set	1.00	1.00	1.00	3.00															
599	150mm dia	set	4.00	4.00	4.00	12.00															
	Supplying, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required.																				
600	700 mm	set	200.00	200.00	150.00	550.00															
601	1000 mm	set	300.00	300.00	200.00	800.00															
602	1200 mm	set	350.00	350.00	300.00	1000.00															
603	1500 mm	set	350.00	350.00	250.00	950.00															
604	Providing, installation, testing & commissioning of adjustable rosette plate for 15mm dia in white finish UL Listed or FM approved complete as required.	each	1161.00	1161.00	1036.00	3358.00															
605	Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required	each	80.00	80.00	80.00	240.00															

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
606	Providing and fixing standard fireman's axe with heavy insulated rubber handle conforming to IS: 926 complete.	each	35.00	35.00	35.00	105.00																			
607	Providing and fixing Fire Shaft Door of size 900mmx2100mm made of 16 gauge thick MS sheet with 4 mm thick frant glass doors in front painted "FIRE" in red paint i/c necessary locking /Key arrangement shall be painted with one coat of primer & two coat of finished stove enameled post office red colour paint .	each	35.00	35.00	35.00	105.00																			
608	Providing and fixing hose cabinet of size 750mmX600X250mm made of 16 gauge thick MS sheet with 4 mm thick float glass doors in front painted "FIRE" in red paint i/c necessary locking arrangement suitable to accommodate external hydrant with butterfly valve 2 no. 15 rm. long hose pipe. 1 no brach pipe mounted on wall or raised brick platform & duly painted with post office red externally and white internally with synthetic enamel paint complete in all respects for external hydrant.	each	10.00	10.00	10.00	30.00																			
	Providing, Fixing, testing and commissioning of resilient rubber lined single arch vibration eliminators suitable for raw water up to 45 deg. C temperature, working pressure 8 Kg/cm2 and test pressure 16 Kg/cm2 to provide relief from stresses at pipe flanges.																								
609	200 mm dia	nos.	6.00	6.00	6.00	18.00																			
610	150 mm dia	nos.	6.00	6.00	6.00	18.00																			
611	80 mm dia	nos.	4.00	4.00	4.00	12.00																			
612	100 mm dia	nos.	4.00	4.00	4.00	12.00																			
	Supply, fixing, testing and commissioning of screwed type brass/bronze lever operated ball valve of full flow with stainless steel ball (AISI 304 & spindle AISI 410) with setting & gland of superior quality having minimum working pressure of 16 Kg/sqcm.																								
613	25 mm Dia	nos.	35.00	35.00	35.00	105.00																			
614	Providing and fixing 25 mm dia inspection & testing assembly with gun metal ball valve, gun metal sight glass ,Reducer ,union, G.I PIPE. connection to drain pipe/riser.	set	21.00	21.00	21.00	63.00																			
615	Providing & fixing cast iron 100 mm dia. Foot valve with nuts, bolts, 1.5 mm thick CAF gasket complete with all accessories (To be provided into UG Fire Water Tanks).	each	2.00	2.00	2.00	6.00																			
	Providing, fixing water flow metre on test line complete with all accessories for flow indication , monitoring & testing of fire pumps with bypass arrngment including piping & bypass valves.																								
616	150 mm dia	each	5.00	5.00	5.00	15.00																			
617	Supply and fixing of 4 nos G.I round bottom FIRE BUCKET of 9 LTR. Capacity field with sand including proper supporting /mounting arrangement MS Angle Iron Frame painted by fire red colour over 2 coats of red oxide paint and written with white paint FIRE complete in all respects as per direction of Engineer Incharge .	each	5.00	5.00	5.00	15.00																			
	<b>Sub Head 31 : Fire Extinguisher</b>																								
	Providing, storing, handling, shifting, installation, testing and commissioning of halon free portable fire Extinguishers as described below:																								
	Concealed work, including cutting chases and making good the walls etc.																								
618	Providing and fixing of 4.5 Kg. carbon-di-oxide type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating guase ingernal discharge tube 30 cms long high pressure discharge hose, discharge nozzle, suspension bracket conforming ro IS:15683 finished externally with re enamel paint and fixed to wall with brackets complete with internal charge.	nos.	11.00	11.00	11.00	33.00																			
619	Providing and fixing 6.0 Kg. ABC Powder type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating guase internal discharge tube 30 cms long high pressure discharge hose, discharge nozzle, suspension bracket conforming to IS:15683 finished externally with re enamel paint and fixed to wall with brackets complete with internal charge.	nos.	90.00	90.00	120.00	300.00																			

SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
620	Water CO2 type of 9 lit.Fire Extinguisher with Gun metal cap and nozzlecomplete in all respects including wall suspension bracket and conforming to IS: 15683.	nos.	5.00	5.00	5.00	15.00																		
621	Providing, fixing, testing and commissioning of 50 Litres (trolley mounted) Mechanical Foam type Fire Extinguisher. In HP Mild Steel Cylinders ISI marked TAC approved fitted with pressure indicating gauge, internal tube, squeeze lever type valve fully charged complete in all respects including wall suspension bracket / trolley mounted and conforming to IS:910 .	nos.	3.00	3.00	3.00	9.00																		
622	Providing, fixing, testing and commissioning of CO2 type Fire Extinguisher of capacity 22.5 Kg filled with Co2 Gas as per IS 15222 with controll discharge mechanism fitted with Hose, Horn & TROLLEY confirms to IS 2878 bearing ISI mark. Co2 Cylinder as per IS 7285.	nos.	3.00	3.00	3.00	9.00																		
623	Providing and fixing 2 Kg capacity clean agent-HFC 236FA Stored Pressure type fire extinguisher ISI marked under IS:15683 complete with imported manufactured by 3M, with Zero Ozone Depelition Potential and Very Low Global Warming Potential of 1 with 20 Years Blue Sky Warantee against any regulatory Bans and Restrictions.	nos.	10.00	10.00	10.00	30.00																		
624	Providing and fixing Fire related signages printed on photoluminescent U1000 aluminium sheet of 1.0 mm (+-10%) containing Lumigen II as base chemical, covered under UV stabilized coating and of appropriate size including fixing on wall, door, ceiling etc. with proper clamps, hangers, cleats, anchor fasteners etc.	Square Inch	36000.00	36000.00	32400.00	104400.00																		
<b>Sub Head 32 : UPS Room Gas Flooding System / Electrical Panel Flooding System</b>																								
GAS SUPPRESSION SYSTEM																								
Supply Installation testing and commissioning of FK-5-1-12 based fire suppression system. The fire suppression system shall include and not be limited to gas release control panel, CCOE approved seamless cylinders, discharge valve (with solenoid or pneumatic actuator) as the case may be, discharge pipe, non-return valve and all other accessories required to provide a complete operation system meeting applicable requirements of NFPA 2001 or ISO standards and installed in compliance with all applicable requirements of the local codes and standards. The system shall be VdS or FM/UL listed. The system shall be designed with minimum design concentration of 4.2 % as applicable to Class-A & C fire. The cylinders shall be super-pressurized with dry Nitrogen to 25 bar / 34.5 bar / 42 Bar.. The FK-5-1-12 gas shall be comply with the following. UL listed.																								
625	120 ltrs. Seamless CylinderCCOE Approved, complete with a safety burst disc & Safety cap	nos	5.00	5.00	5.00	15.00																		
626	EXTINGUISHING Gas agent to be filled in above Gas cylinders,	kgs	500.00	500.00	500.00	1500.00																		
627	Electrical cum Manual Actuator	nos	5.00	5.00	5.00	15.00																		
628	Local manual actuator	nos	5.00	5.00	5.00	15.00																		
629	2" Flexible discharge hose	nos	5.00	5.00	5.00	15.00																		
630	Discharge pressure switch, WP(2-3/4" outlet), Lat.	nos	5.00	5.00	5.00	15.00																		
631	Brass nozzle degree NPT - India	nos	30.00	30.00	28.00	88.00																		
632	Cylinder bracket assembly for each cylinder as per above capacity.	nos	5.00	5.00	5.00	15.00																		
633	Supply installation, testing and commissioning of C.S seamless piping and Fittings All piping shall be Schedule 40 seamless pipes complying with grade B and all fitting shall be of ASTM A-105	LOT	5.00	5.00	5.00	15.00																		
634	Supply installation, testing and commissioning of 2 Zone CONVENTIONAL Gas release panel with batteries to connect Manual abort/Release switches, multisensor detector, Hooter cum strobe.	nos	5.00	5.00	5.00	15.00																		
635	Supply installation, testing and commissioning of intelligent analog addressable photo thermal detector with base and junction box and other accessories required	nos	5.00	5.00	5.00	15.00																		
636	Supply installation, testing and commissioning of 2C x 1.5 sqmm PVC sheather armored FRLS cable with suitable clamps	metres	25.00	25.00	25.00	75.00																		
637	Supply installation, testing and commissioning of Manual release switch	nos	5.00	5.00	5.00	15.00																		

SL. no	Description of Item	Unit	Quantity				Rate			Amount											
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total		
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
638	Supply installation, testing and commissioning of Manual abort switch	nos	5.00	5.00	5.00	15.00															
639	Supply installation, testing and commissioning of addressable horn cum strobe	nos	5.00	5.00	5.00	15.00															
640	Supply installation, testing and commissioning of RI on surface MS box having two LED,metallic cover complete.	nos	25.00	25.00	25.00	75.00															
641	Modules for integrating with Fire Detection system with all connections	nos	25.00	25.00	25.00	75.00															
	<b>Electrical Panel Fire suppression System</b>																				
642	Supply, installation of Cylinder Valve Assembly (2.5 lb / 1 Kg - capacity), Cylinder with Single Outlet Valve, F -K-5-1-12 Fire Suppression Fluid (2.5 lbs) 1 Kg, Cylinder bracket (1), Rubber Grommets □ 6mm, Plastic Loop Clamps with accessories, EOL Adapter wih Pressure Guage with Accessories etc.,	nos	2.00	2.00	2.00	6.00															
643	Supply, installation of Cylinder Valve Assembly (5 lb capacity/ 2 kgs Capacity ), Cylinder with Single Outlet Valve, F-K-5-1-12, Fire Suppression Fluid (2.5 lbs) / 2 kgs Cylinder bracket (1), Rubber Grommets □ 6mm, Plastic Loop Clamps with accessories, EOL Adapter wih Pressure Guage with Accessories, etc.,	nos	3.00	3.00	3.00	9.00															
644	Supply, installation of Cylinder Valve Assembly (10 lb capacity/ 4 kgs Capacity ), Cylinder with Single Outlet Valve, F-K-5-1-12, Fire Suppression Fluid (10 lbs) / 4 kgs Cylinder bracket (1), Rubber Grommets □ 6mm, Plastic Loop Clamps with accessories, EOL Adapter wih Pressure Guage with Accessories, etc.,	nos	5.00	5.00	5.00	15.00															
645	Supplying, installation, testing & commissioning of Heat detection tube (UL approved)	metre	120.00	120.00	120.00	360.00															
646	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required.	nos	10.00	10.00	10.00	30.00															
647	Providing & fixing of <b>pressure switch</b> in M.S. pipe line including connection etc. as required.	nos	10.00	10.00	10.00	30.00															
648	Supply, installation of Audio Visual Alarm	nos	5.00	5.00	5.00	15.00															
	<b>Sub Head 33 : Passive Fire Stopper</b>																				
	PASSIVE FIRE SYSTEM - FLOOR OPENING																				
649	Providing Fire stop mortar system CP 636 , with minimum 2 hours fire rating when tested in accordance with UL 1479/ASTM-E 814 standards, for horizontal openings in floors or slabs after passing service lines like cables/cable bundles, cable trays etc. The mortar shall be a light weight cementitious product and shall carry test certificate in accordance with IEC 60068-2-57:1999-11 (Environmental Testing) as per Part 2-57: Test for Vibration-Time-history method and VERTEQII for seismic zone 4. The product shall be age tested as per Dafstb and DIBT standards. The product shall carry test certificate for mold resistance rating of 0 as determined by ASTM G21-96. The product shall be age tested as per Dafstb and DIBT standards.The system shall be UL listed & classified and product shall bear the UL and FM approval logo on the packing. If none of UL test certificate comply with actual application, an EJ document prepared by a qualified personnel and based on nearest third party tested & approved systems like UL test certificates & in accordance with IFC guidelines shall be produced by manufacturer. A firestop submittal shall be produced by manufacturer . in accordance with approved passive fire protection method statement, for technical approval. Firestop installation shall be done by Hilti Accredited Firestop Speciality Contractor (HAFSC) and in accordance with Hilti guidelines and UL system test certificates or approved EJ document. Firestop Speciality Contractor needs to submit work completion certificate along with installation report through Hilti documentation Software CFS DM for periodic inspection & maintenance purpose. The gaps around inaccessible or complicated openings shall be sealed with exapnding firestop foam Hilti CP 620 and shall be paid under separate heads and as mentioned below. Any report submittal with Installation pictures should be done using CFS-DM Software, which shall be charged extra.	sqm	15.00	15.00	15.00	45.00															



SL. no	Description of Item	Unit	Quantity				Rate			Amount																														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total																					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)																			
650	Provide rodent and termite proof Fire Barriers Hilti CFS COS ( Composite Sheet) system for 2 hours fire rating when tested in accordance with ASTM E 814/UL 1479 standards. The Composite Sheet 3.81 mm thick, bonded with organic/inorganic fire-resistive elastomeric #SS 304 (Stainless steel) sheet. One side it should be bonded with 26 gauge #SS 304 (Stainless steel) sheet and the other side it should be reinforced with hexagonal shaped #SS 304 (Stainless steel) wire mesh and covered with aluminum foil for the penetrants and the big opening. The small gaps left around the penetrants should be closed with Intumescent sealant FS One max of Hilti make, or with Fire rated Moldable Putty CP 619T of Hilti make, which should be soft & moldable to any shape, to give complete L Rating. This system is to seal all fire rated horizontal in Floor made of concrete, masonry, metal, gypsum partition, after passing service lines like cables/cable bundles, cable trays etc. The system shall be UL listed & classified and product shall bear the UL & FM approval logo on the packing If none of UL test certificate comply with actual application, an EJ document prepared by a qualified personnel and based on nearest third party tested & approved systems like UL test certificates & in accordance with IFC guidelines shall be produced by manufacturer. A firestop submittal shall be produced by manufacturer , in accordance with approved passive fire protection method statement, for technical approval. Firestop installation shall be done by Hilti Accredited Firestop Speciality Contractor (HAFSC) and in accordance with Hilti guidelines and UL system test certificates or approved EJ document. Firestop Speciality Contractor needs to submit work completion certificate along with installation report through Hilti documentation Software CFS DM for periodic inspection & maintenance purpose. The gaps along/around cables penetrants shall be sealed with intumescent sealnt Hilti FS One Max. In case of repenetration requirement, Hilti intumescent based speed sleeve CP 653BA of appropriate size shall be used and shall be paid under separate heads and as mentioned below. Any report submittal with Installation pictures should be done using CFS-DM Software, which shall be charged extra.	sqm	7.50	7.50	10.00	25.00																																		
651	Providing Pre-formed block CFS BL made from intumescent polyurethane material for temporary or permanent firestop sealing around cables, cable bundles and conduits. Surface burning characteristics according UL 723 (ASTM E84-01): Flame spread index 10 and smoke development index 15. The sound transmission classification for this product according ASTM E 90 is 52 (STC Rating). The density is 0.27 g/cm <sup>3</sup> and the expansion temperature (intumescent activation) is around 392, °F (200°C). Seismic tested on mechanical systems like UL test certificates & in accordance with IFC guidelines shall be produced by manufacturer. A firestop submittal shall be produced by manufacturer , in accordance with approved passive fire protection method statement, for technical approval. Firestop installation shall be done by Hilti Accredited Firestop Speciality Contractor (HAFSC) and in accordance with Hilti guidelines and UL system test certificates or approved EJ document. Firestop Speciality Contractor needs to submit work completion certificate along with installation report through Hilti documentation Software CFS DM for periodic inspection & maintenance purpose.	sqm	20.00	20.00	24.00	63.99																																		
<b>Sub Head 34 : Fire Alarm and Dection System</b>																																								
	Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5% V, 50 Hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories . The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications.																																							
652	Ten Loop Panel.	set	2.00	2.00	2.00	6.00																																		
653	Two Loop Panel.	set	0.00	0.00	0.00	0.00																																		

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
654	Supplying, installation, testing & commissioning of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete as required.	nos	1.00	1.00	1.00	3.00																			
655	Supplying, installation, testing & commissioning of repeater panel with 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required.	nos	1.00	1.00	1.00	3.00																			
656	Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.	nos	1330.00	1330.00	1225.00	3885.00																			
657	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required.	each	731.00	731.00	623.00	2085.00																			
658	Supplying, installation, testing & commissioning of fault isolator complete with base as required.	nos	75.00	75.00	65.00	215.00																			
659	Supplying, installation, testing & commissioning of intelligent aspiration detector for area coverage of minimum 5000 sq.ft. complete as required.	each	10.00	10.00	10.00	30.00																			
660	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required.	each	27.00	27.00	30.00	84.00																			
661	Supplying, installation, testing & commissioning of addressable fire control module complete as required.	each	3.00	3.00	3.00	9.00																			
662	Supplying, installation, testing & commissioning of addressable phone control module complete as required.	each	2.00	2.00	2.00	6.00																			
663	Supplying, installation, testing & commissioning of addressable beam detector with short circuit isolator (inbuilt or separate) complete with emitter and receiver including connections with remote test features etc complete as required.	each	8.00	8.00	8.00	24.00																			
664	Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required.	each	35.00	35.00	35.00	105.00																			
665	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	each	35.00	35.00	35.00	105.00																			
666	Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required.	each	35.00	35.00	35.00	105.00																			
667	Supplying, installation, testing & commissioning of fire fighter telephone handset complete as required.	each	5.00	5.00	5.00	15.00																			
668	Supplying, installation, testing & commissioning of fire fighter phone jack complete as required.	each	35.00	35.00	35.00	105.00																			
669	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.	metre	10500.00	10500.00	11500.00	32500.00																			
670	Supplying and fixing of following sizes of STEEL conduit alongwith the accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.	metre	0.00	0.00	0.00	0.00																			
671		metre	25.00	25.00	25.00	75.00																			
672	Supply, Installation, Testing and Commissioning of UL/Vds/LPCB/EN approved Addressable Monitor Module with IP66 casing containing input/output for third party integration including potential free contacts with inbuilt isolators. Shall be UL / EN54 certified.	nos	20.00	20.00	20.00	60.00																			
673	Supplying, installing, testing and commissioning approved make Addressable Relay Module for AHU, Access Control, Lifts, Staircase Pressurization, Fire Suppression & other Third Party Outputs for CAUSE AND EFFECT MATRIX For effective Smoke management . The relay module shall provide contact rated at 24V DC, 2A. The device shall have an LED which shall blink in normal state & get steady on activation to monitor the health status of the device. Addressing shall be with user friendly rotary decimal switches. Module shall be supplied with mounting plate from OEM for ease of installation & maintenance. The device shall comply UL approval & FM APPROVED	nos	10.00	10.00	5.00	25.00																			
<b>Total Bill no-3 Fire fighting works</b>																									

SL. no	Description of Item	Unit	Quantity				Rate			Amount																
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total							
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
4	<b>Bill no-4 STP, ETP &amp; PUMPS</b>																									
	<b>Sub Head 35 : Sewage Treatment Plant 100KLD</b>																									
674	Designing, Fabricating, Supplying, Installation & Commissioning 100 KLD STP: Fabrication and Supply of mechanical, electrical and instrumentation including Fine Screen Chamber, Tube settler, Equalization Tank, Collection Tank 1, Collection Tank 2 Bio Mound 1 & Bio Mound 2 Treated Water Tank Submersible Sewage pump to transfer fluid between EQT-BM1Submerssble Slurry Pump to transfer slurry between TS-VCB Submerssble sewage Pump to transfer fluid between CT1-BM2 Submersible clear water pump to transfer fluid between CT2-TWT Bio Mound Media 212 cum (lateratite/Basaltic/red clay origin media with technology provider specified agregate sizing), Jute 250gsm @every 0.5m inside BM media, Plantation/Saplings @2sqm each. 40 no.etc.,Slurry Pump TS-VCB; Submersible Slurry Pump; (1W); Make:- Kirloskar/Equivalent; with Piping , NRVs, Cabling & Other Instrumentation as Applicable Sewage Pump EQT-BM1; Submersible Sewage Pump; 5 cum/hr @ 8-10 m head; (1W+1S); Make:- Kirloskar/Equivalent; with Piping , NRVs, Cabling & Other Instrumentation as Applicable Sewage Pump CT1-BM2; Submersible Sewage Pump; 5 cum/hr @ 8-10 m head; (1W+1S); Make:- Kirloskar/Equivalent; with Piping , NRVs, Cabling & Other Instrumentation as Applicable Clear Pump CT2-TWT; Submersible Clear Water Pump; 5 cum/hr @ 8-10 m head; (1W+1S); Make:- Kirloskar/Equivalent; with Piping , NRVs, Cabling & Other Instrumentation as Applicable Distributor System in UPVC inclusive fittings; MOC:- UPVC; 62sqm Tube settler Packing; MOC:- PVC; 3cum Fine Screen; MOC:- SS 304; Slot Size:- 5 mm 1 lot Mechanical Flow rm; Line Size :-2 inch; 1 no (Civil construction works will be paid under relevant civil items seperately).	each	1.00	0.00	1.00	2.00																				
675	Supplying on site fresh Garden soil (free from stones rubbish like dried grass roots, other such materials) for excavation area of depth of 30 cms.( consolidated thickness).(As per P&G DSR 2022-23 Items of garden work,Sr no36a),, Supplying on site well decomposed Farmacyard Manure for excavation area of depth of 30 cms. (Consolidated thickness). (As per P&G DSR 2022-23 Items of garden work,Sr no36b),, Providing on site required variety of lawn (free from weeds /disease etc.) Cynadon/ paspalum/ selection for 1 sqm. area dibbling distance 5 cms. apart c/c. (As per P&G DSR 2022-23 Items of garden work,Sr no46),, Excavation for planting lawn/ shrub/ flower bed/ hedges/ edges/ canna bed in earth, soil of all types, soft murum, including removing the excavated material up to a distance of 50 rms. for a depth of 30 cms.(As per P&G DSR 2022-23 Items of garden work,Sr no3), Filling fresh garden soil / silt & manure in excavated area of depth 30cms. (As per P&G DSR 2022-23 Items of garden work,Sr no13),, Mixing garden soil/silt & manure thoroughly well, watering previous night. Planting reqired plant species, lawn grass as directed etc. complete for required depth 30 cms. for planting lawn/ shrub/ flower bed/ hedges/ edges/ canna bed/ ground cover. (1/10 of semiskilled labour)(As per P&G DSR 2022- 23 Items of garden work,Sr no23),, Maintainance of Newly Developed lawn Area. For First 30 days Only (Paspallum/ selection)(As per P&G DSR 2022-23 Items of garden work,Sr no28)	sqm	162.00	0.00	162.00	324.00																				
676	Supply, Installation and Testing of Tube settler Packing	cum	10.00	0.00	10.00	20.00																				
677	Providing supplying CAMUS Cultures and Catalyst; Patent nos 414339 (Mite Ecology for Treatment of Organic Liquids (METROL process) & On site demonstration as per the Vendors all as specified including MOU with technology expert Operation and Maintenance During DLP period( 1 year) 1. Operatores:- 2 nos 2. Quarterly Site Visit :- 4 nos 3. Compliance Water Test Reports (quarterly) for raw water and treated water for parametre COD, BOD,TSS, pH:- 8 nos	kg	300.00	0.00	300.00	600.00																				
	<b>Sub Head D 36 : Effluent Treatment Plant</b>																									

SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
678	Designing, Fabricating, Supplying, Installation & Commissioning 25 KLD ETP: Fabrication and Supply of mechanical, electrical and instrumentation including SCREEN CHAMBER Mesh with ss 304 Grade, EQUILIZATION TANK, NEUTRALIZATION TANK WITH PH DOSING, COAGULATION TANK WITH FLOCCULANT DOSING, FLOCCULANTATION TANK WITH FLOCCULANT DOSING, PRIMARY TUBE settLER, nothing extra will be paid in this regard. (Civil construction works will be paid under relevant civil items seperately).interconnecting valves, Pressure Gauge, Air Rotarms, Level Switches etc. and electrical instruments like Motors, Distribution board, Cabling power etc., including all necessary fittings,labour etc to complete. Rate includes Mechanical, electrical & plumbing works, all Materials, necessary fittings, all labour charges, Transportaion, Taxes, Lead, Lift etc complete. Excluding civil works, nothing extra will be paid. (Civil construction works will be paid under relevant civil items seperately).	each	1.00	1.00	1.00	3.00																		
<b>Sub Head 37 : Pumps (Potable, Drainage, Sewage &amp; Waste Water Treatment Plant)</b>																								
679	Hydro pneumatic System for Multiple Overhead tank filling Supply, installation & commissioning of 1 nos Skid Mounted Factory Assembled Hydropneumatic System (with three pumps) with Vertical Multi Stage Centrifugal Pump for Clear Water with 50Hz, 380-500V, 2 Pole, IP 55 Enclosure Class, Class F Insulation, IE5 efficiency class motor along with HMI 300 Screen, integrated VFD & PI controller (IP 55 Protection) with each pump and the system shall come with multi master pump.Integrated VFD with following harmonic filters should be considered Harmonics IEC/EN 61000-3-12 Up to 7.5 kW (5.5 kW low speed):Category C1 according to EN 61800-3, corresponding to CISPR 11, class B (residential area) Above 7.5 kW (5.5 kW low speed): Category C3 according to EN 61800-3, corresponding to CISPR 11, class System. Pump shall be CI with CED quoted- Head & Base, SS 316 -Shaft and all other components will be with SS 304, Mechanical Seal (Balance Cartridge SiC vs SiC face) . System should supply with isolation valves at suction & Delivery sides and NRV at the discharge (Made of Brass/SS/POM) & 2 no. branded pressure transmitter of adequate. pressure rating (4-20mA) as per the requirement, CED coated suction & Delivery manifolds, CED Coated Base Frame along with 1 no 100L 10 Bar Pressure Tank. The pump performance curve shall be complying with the tolerance according to ISO 9906:2012, 3B. Per Pump Flow Rate -13.5 m3/hr (2W+1S), Head-50m	set	1.00	1.00	1.00	3.00																		
680	Supply installation & Commissioning of 100L <b>10Bar Pressure hydro-pneumatic tank</b> shall be of butyl bladder diaphragm type with pre-pressurized air/nitrogen. It shall be capable of handling the designed effective system protection (ESP) Volume to protect pump and operating controls by ensuring that the actual pump operation, tank shall have a maximum operating pressure of 10 bars/16 Bar depending on the pump shutoff head and shall be able to handle a maximum liquid temperature of 90 DegC/70 DegC respectively.	nos	2.00	1.00	1.00	4.00																		
681	Drainage Pump Supply installation & Commissioning of submersible drainage pump (1W+1S) for each sump with 3 Ph 380-415V 2 Pole Motor with CI or SS 304-Casing, SS 304 or DI/CI -Impeller, SS 304/SS 410- Shaft, Mechanical Seal suitable for handling 10-12mm soft solid.	set	2.00	1.00	2.00	5.00																		
682	Sewage Pump Supply installation & Commissioning of submersible drainage pump (1W+1S) for each sump with 3 Ph 380-415V 2 Pole Motor with CI - Casing, DI/CI -Impeller, SS 304/SS 410- Shaft, Mechanical Seal suitable for handling 65mm soft solid or pump shall be with grinder system as per the requirement	set	2.00	1.00	1.00	4.00																		
<b>WATER TREATEMENT PLANTS 5000 LPH</b>																								
683	Water Treatment Plant Supply, installation, testing, commissioning of water treatment plant consisting of PH CORRECTION DOSING SYSTEM FILTER FEED PUMP MULTIGRADE FILTER ACTIVATED CARBON FILTER IRON REMOVAL FILTER WATER SOFTENER NAOCL DOSING SYSTEM WATER METRE MCC PANEL WITH CABLES Complete etc.,	set	1.00	0.00	0.00	1.00																		



SL. no	Description of Item	Unit	Quantity				Rate			Amount												
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total			
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
<b>WATER TREATMENT PLANTS 12000 LPH</b>																						
684	Water Treatment Plant Supply, installation, testing, commissioning of water treatment plant consisting of PH CORRECTION DOSING SYSTEM FILTER FEED PUMP MULTIGRADE FILTER ACTIVATED CARBON FILTER IRON REMOVAL FILTER WATER SOFTENER NAOCL DOSING SYSTEM WATER METRE MCC PANEL WITH CABLES Complete etc.,	set	0.00	1.00	1.00	2.00																
<b>Sub Head 38 : Solar Hot Water Systems</b>																						
685	Supplying, installation, testing and Commissioning of 1000 Litres per day Flat Collector type Solar Water heating system alongwith hot water tank made of stainless steel and insulated with PU foam (Heat Exchanger type) including making suitable cement concrete foundation etc on top of terrace, also having 2no 2KW heating coils and insulated plumbing arrangement between solar panel to tank but excluding plumbing works to input side of panel and ouput side of hot water tank, complete as required	each	5.00	5.00	5.00	15.00																
686	Supplying, installation, testing and Commissioning of Hot water storage cum mixing tank of following capacities made up of MS sheets, with all necessary nozzles like cold water inlet, hot water outlet, return water inlet, drain, air vent, safety valve-1no, man hole of 450 mm of 10mm thickness (for tanks above 1000lt capacity), internal epoxy painting, external coated with primer and 2 coats of enamel paint, tank insulation with rock wool insulation of 50mm thick wool, with chicken wire mesh, 24 swg aluminium cladding, base channel box type stand of 500mm height, suitable pressurized system of 5Kg/cm2(g) working pressure 1000lt capacity with 4 mm thk for shell	each	5.00	5.00	5.00	15.00																
<b>Total Bill no-4 STP,ETP,Solar &amp; Pumps</b>																						
<b>Bill no-5 HVAC works</b>																						
<b>Sub Head 39 : Air cooled Chiller</b>																						
	Supply, Installation, Testing and Commissioning (Supplying, Installation,Testing and Commissioning) of High Efficiency Air cooled screw chiller type water chilling package each, at the duty conditions of 12°C to 7°C chilled water and complete as per CPWD -2017 and ECBC - 2017 specifications; air-cooled condensers with energy efficient propeller fans, Continuous capacity control, insulated shell and tube evaporator, Thermal expansion valve,Overcurrent Relay for Compressor, Internal Thermostat for Compressor, Reverse Phase Protection Device for Compressor,Thermal Overcurrent Relay for Fan Motor, High-Pressure Switch, Low-Pressure Control, Suction Gas Temperature Control,Freeze Protection Thermistor Control, Oil Heater, Discharge Gas Thermistor, Fusible Plug, Fuse for Control Circuit and Pressure Relief Valve, electrical panel with adaptor box for cable termination, main disconnect switch, and microprocessor control panel for self-diagnostic & alarming. The Condenser Copper coil fins should be coated with Anti Corrosive Black Epoxy / gold coat. including customs and other duties at full rate; all local taxes, levies etc. that are applicable; port clearance, warehouse charges, handling, transportation to site; rigging, installation, testing, commissioning and handing over.																					
	Input power to the chiller at full load conditions Shall be not less than 1.15 lkw per TR i.e. the Coefficient of Performance (COP) shall be not less than 3.05. Ambient Condition :DB temp. 85 deg F and WB temp. 71 Deg F .																					
687	Acutal Capacity : 200TR (each) Air Cooled Screw chillers ( 2 nos working + 1 Stand by)	nos	3.00	3.00	0.00	6.00																
	Ambiant Condition :DB temp. 90 deg F and WB temp. 78 Deg F,																					
688	Acutal Capacity : 175TR (each) Air Cooled Screw chillers ( 2 nos working + 1 Stand by)	nos	0.00	0.00	3.00	3.00																
	Supply, fixing , Testing and Commissioning of suitable Anti Vibration Mounts , Water Flow Switch and Suitable flange Connections																					

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
689	Compressor sound Proff jocket with necessary accessories. The Sound Proff Materials shall be complied with CPWD - 2017 and ECBC - 2017 standards	Lot	3.00	3.00	3.00	9.00																			
	<b>Sub Head 40 : Chilled water Pumping system</b>																								
	The pumps shall be centrifugal type direct driven with a 3 phase, 415 + 10%volts, 50 Hz., A.C. motor. The motor for Chilled Water Pumps shall be suitable for as per CPWD - 2017, and ECBC - 2017 standards. The motor shall be screen protected drip proof (SPDP) fan cooled or TEFC type. The efficiency class of motors shall be IE 3 class as per IS 12615. The pumps may be either of horizontal split casing (HSC) type with operating speed not exceeding 1500 rpm, or solid casing, mono block type with operating speed not exceeding 3000 rpm as specified in the tender documents. Efficiency of the pumps at selection should be preferably 70 % or above. The pumps shall be suitable for continuous operation in the system.																								
	The head and discharge requirements shall be as specified in the tender documents. The discharge rating shall not be less than the flow rate requirement of the respective equipments through which the water is pumped. The head shall be suitable for the system and shall take into consideration the pressure drops across the various equipments and components in the water circuit as well as the frictional losses. The pumps offered shall be of high efficiency.																								
	The centrifugal pumps shall conform to IS 1620. The motor for chilled water pumps shall be suitable for use with variable frequency drive. The motor shall be screen protected drip proof (SPDP) fan cooled type. The efficiency class of motor shall be IE 3.																								
	The pump casing shall be of heavy section close grained cast iron. The casing shall be provided with air release cock, drain plug and shaft seal arrangement as well as flanges for suction and delivery pipe connections as required.																								
	The impeller shall be of bronze or gunmetal. This shall be shrouded type with machined collars. Wear rings, where fitted to the impeller, shall be of the same material as the impeller. The impeller surface shall be smooth finished for minimum frictional loss. The impeller shall be secured to the shaft by a key																								
	The shaft shall be of stainless steel and shall be accurately machined. The shaft shall be balanced to avoid vibrations at any speed within the operating range of the pump.																								
	The shaft sleeve shall be of bronze or gunmetal. This shall extend over the full length of the stuffing box or seal housing. The sleeve shall be machined all over and ground on the outside.																								
	The bearings shall be ball or roller type suitable for the duty involved. These shall be grease lubricated and shall be provided with grease nipples/cups. The bearings shall be effectively sealed against leakage of lubricant.																								
	The shaft seal shall be stuffing box type unless otherwise specified, so as to allow minimum leakage compatible with the operation of the seal. The stuffing box shall be of adequate length and shall be packed with graphite asbestos or any other suitable material for the operating temperature. A drip well shall be provided beneath the seal.																								
	In the case of HSC pumps, the same shall be directly coupled to the motor shaft through, a flexible coupling protected by a coupling guard. In case of mono block pumps with solid casing, the motor and pumps shall be on a common shaft.																								
690	Supply,Installation,Testing and Commissioning of chilled water pump (2 working +1 Standby) having a capacity of 687 USGPM each With 35 mts. w.g. total head.	nos	3.00	0.00	3.00	6.00																			
691	Supply,Installation,Testing and Commissioning of chilled water pump (2 working +1 Standby) having a capacity of 790 USGPM each With 35 mts. w.g. total head.	nos	0.00	3.00	0.00	3.00																			

SL. no	Description of Item	Unit	Quantity				Rate			Amount																
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total							
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
692	Supply, Installation, Testing and Commissioning of 1000 Litres Capacity PVC Tank (Sintex) insulated with 50mm Thick, 24 kg/cum density TF quality EPS thermocole insulation, covered with Aluminium Cladding including all accessories like Overflow, Drain valve, make-up Float valve, Air Vent arrangement etc as per specification.	nos	1.00	1.00	1.00	3.00																				
	Supplying, Installation,Testing and Commissioning of Air separator For Chiller & hot water pipes of MS sheet construction finished with epoxy paint and provided with automatic air vents. The capacity of the air separator must be compatible with the chilled water system capacity. Main chilled water header pipe size and Hot water header pipes are below.																									
693	i) 250 mm dia NB	nos	1.00	1.00	1.00	3.00																				
	<b>Sub Head 41 : Low side Installation Work</b>																									
	Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators,cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 6 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilterers, belt drive package with TEFC drive motor of efficiency class IE3 suitable for 415 + 10% volts, 50Hz, 3 Phase AC supply suitably designed for variable frequency drive applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.)and industrial type thermorms (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. Complete as per specification and of following capacities.																									
694	AHU 17TR COOLING @ 6800 CFM ( 11553 CMH) With 60 mm Of STP Including Flexible Fire Retadant Canvass	nos	0	2	0	2.00																				
695	AHU 15TR COOLING @ 6000 CFM ( 10200 CMH) With 60 mm Of STP Including Flexible Fire Retadant Canvass	nos	1	0	0	1.00																				
696	AHU 14.5 TR COOLING @ 5800 CFM ( 9854 CMH) With 60 mm Of STP Including Flexible Fire Retadant Canvass	nos	0	0	1	1.00																				
697	AHU 14TR COOLING @ 5600 CFM With 65 mm Of STP Including Flexible Fire Retadant Canvass	nos	0	1	0	1.00																				
698	AHU 14TR COOLING @ 5600 CFM With 65 mm Of STP Including Flexible Fire Retadant Canvass	nos	0	1	0	1.00																				
699	AHU 13TR COOLING @ 5200 CFM With 60 mm Of STP Including Flexible Fire Retadant Canvass	nos	0	0	2	2.00																				
700	AHU 12TR COOLING @ 4800 CFM ( 8155 CMH) With 60 mm of STP Including Flexible Fire Retadant Canvass	nos	0	1	0	1.00																				
701	AHU 11TR COOLING @ 4400 CFM ( 7475 CMH) With 65 mm Of STP Including Flexible Fire Retadant Canvass	nos	1	0	0	1.00																				
702	AHU 11TR COOLING @ 4400CFM ( 7475 CMH) With 60 mm of STP Including Flexible Fire Retadant Canvass	nos	0	1	0	1.00																				
703	AHU 10TR COOLING @ 4000 CFM ( 6800 CMH) With 60 mm of STP Including Flexible Fire Retadant Canvass	nos	0	1	0	1.00																				
704	AHU 10TR COOLING @4000CFM ( 6800 CMH) With 110 mm of STP Including Flexible Fire Retadant Canvass	nos	0	1	1	2.00																				
705	AHU 9.5TR COOLING @ 3800 CFM ( 6800 CMH)With 65 mm Of STP Including Flexible Fire Retadant Canvass	nos	1	0	0	1.00																				
706	AHU 9.0TR COOLING @ 3600 CFM ( 6800 CMH) With 110 mm Of STP Including Flexible Fire Retadant Canvass	nos	0	0	3	3.00																				
707	AHU 8.5TR COOLING @ 3400 CFM ( 6800 CMH ) With 110 mm Of STP Including Flexible Fire Retadant Canvass	nos	0	0	0																					
708	AHU 8.5TR COOLING @ 3400 CFM ( 6800 CMH ) With 110 mm of STP Including Flexible Fire Retadant Canvass	nos	1	3	0	4.00																				





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729	CSU 5.5TR COOLING @ 2200 CFM With 55 mm STP Including Flexible Fire Retadant Canvass	nos	1	0	0	1.00																		
730	CSU 5.5TR COOLING @ 2200 CFM With 55 mm STP Including Flexible Fire Retadant Canvass	nos	0	2	0	2.00																		
731	CSU 5.5 TR COOLING @ 2200 CFM With 100 mm STP Including Flexible Fire Retadant Canvass	nos	0	1	1	2.00																		
732	CSU 5.0 TR COOLING @ 2000 CFM With 100 mm STP Including Flexible Fire Retadant Canvass	nos	2	0	0	2.00																		
733	CSU 4.5TR COOLING @ 1800 CFM with 100 mm of STP Including Flexible Fire Retadant Canvass	nos	1	3	0	4.00																		
	Supply, installation, testing and commissioning of Chilled water complete with one ball valve with strainer at the inlet, one ball valve and 3-way motorised valve and balancing valve at the outlet, copper tubes and fittings, corded remote control with On/Off, thermostat and fan three speed functions, in- built condensate drain pump and mounting arrangement complete as per specifications. Capacities of the FCUs: ( Chilled Water temperature Out Temperature is 12 Deg C , Chilled Water temperature In Temperature is : 7 Deg C.																							
734	FCU 1.0TR COOLING @ 400CFM Including Flexible Fire Retadant Canvass	nos	58	31	5	94.00																		
735	FCU 1.5TR COOLING @ 600CFM Including Flexible Fire Retadant Canvass	nos	100	62	59	221.00																		
736	FCU 2.0TR COOLING @ 800CFM Including Flexible Fire Retadant Canvass	nos	26	67	81	174.00																		
737	FCU 2.5TR COOLING @ 1000CFM Including Flexible Fire Retadant Canvass	nos	8	21	3	32.00																		
738	FCU 3.0TR COOLING @ 1200CFM Including Flexible Fire Retadant Canvass	nos	4	3	7	14.00																		
739	FCU 3.5TR COOLING @ 1400CFM Including Flexible Fire Retadant Canvass	nos	5	6	1	12.00																		
740	FCU 4.0TR COOLING @ 1600CFM Including Flexible Fire Retadant Canvass	nos	1	4	7	12.00																		
	Supply, installation, testing and commissioning of Dx system Hi wall Splite air conditioning 3 STAR rated suitable for operation on 230V ±10% single phase 50Hz with Rotary compressor,Refrigerant capable to perform Cooling & Heating,with remote controll																							
741	Dx 1.0 TR	nos	10	14	1	25.00																		
742	Dx 1.5 TR	nos	3	12	14	29.00																		
743	Dx 2.0 TR	nos	9	5	5	19.00																		
	Supply, installation, testing and commissioning of Direct drive Long Casing Tube Axial fans for Lift lobby and Lift Well fresh air pressurization complete with Pre Galvanised Steel (minimum 275 GSM Zinc coated) /MS Powder Coated Casing with spun flanges (welding of flanges is not permitted to avoid corrosion and pitting of casing), adjustable pitch die cast aluminium impeller (Hub and Aerofoil blades) and IE3,VFD Compatible motors. Casing position shall be as per the job requirement and shall be marked on the fan assembly.The complete fan assembly with its casing, impeller and motor ( not only motor or one of the item ) shall be sourced from one manufacturer.Axial fan should be licensed to bear AMCA seal for air performance and sound performance or must be demonstrated in AMCA accredited laboratory as per AMCA publication. Fire Rated Fans The complete assembly must have certificate of consistency of performance by BSI and must bear CE marking & Manufacturing Factory should be LEED certified Platinum Rated Green Building. (note: Fan Diarm should not exceed 1250 & speed should not exceed 960 RPM ) Scope: Price include fan with IE3 motor, 1no Birdscreen, 1 no Mounting set ,Vibrartion isolator.																							
744	Tube Axial Fan -43750 CFM @ 35 mm STP	nos	1	1	0	2.00																		
745	Tube Axial Fan -30100 CFM @ 35 mm STP	nos	1	1	2	4.00																		
746	Tube Axial Fan -15050 CFM @ 35 mm STP	nos	2	2	0	4.00																		

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747	Tube Axial Fan -6900 CFM @ 35 mm STP	nos	8	8	6	22.00																					
748	Tube Axial Fan -6600 CFM @ 35 mm STP	nos	0	0	3	3.00																					
	Supply , installation , testing & commissioing of Cicular / cabinet type inline Toilet Exhaust fans. Casing position shall be as per the job requirement and shall be marked on the fan assembly. The fan assembly along with motors for Isolations																										
749	Inline Exhaust Fan - 1200 CFM @ 10 mm STP	nos	6	6	0	12.00																					
750	Inline Exhaust Fan - 1050 CFM @ 15 mm STP	nos	0	0	12	12.00																					
751	Inline Exhaust Fan - 750 CFM @ 15 mm STP	nos	0	0	8	8.00																					
752	Inline Exhaust Fan - 700 CFM @ 15 mm STP	nos	0	0	12	12.00																					
753	Inline Exhaust Fan - 600 CFM @ 10 mm STP	nos	14	14	0	28.00																					
754	Inline Exhaust Fan - 560 CFM @ 20 mm STP	nos	0	0	1	1.00																					
755	Inline Exhaust Fan - 450 CFM @ 10 mm STP	nos	2	2	0	4.00																					
756	Inline Exhaust Fan - 400 CFM @ 15 mm STP	nos	1	1	0	2.00																					
757	Inline Exhaust Fan - 300 CFM @ 15 mm STP	nos	1	1	0	2.00																					
758	Inline Exhaust Fan - 250 CFM @ 10 mm STP	nos	1	1	1	3.00																					
759	Inline Exhaust Fan - 200 CFM @ 15 mm STP	nos	1	1	2	4.00																					
760	Inline Exhaust Fan - 150 CFM @ 15 mm STP	nos	4	4	0	8.00																					
761	Inline Exhaust Fan - 100 CFM @ 10 mm STP	nos	1	1	0	2.00																					
762	Cabinet Inline Exhaust Fan - 5250 CFM @ 35 mm STP	nos	1	1	0	2.00																					
763	Cabinet Inline Exhaust Fan - 5950 CFM @ 35 mm STP	nos	1	1	0	2.00																					
764	Cabinet Inline Exhaust Fan - 4000 CFM @ 35 mm STP	nos	0	0	1	1.00																					
765	Cabinet Inline Exhaust Fan - 4900 CFM @ 35 mm STP	nos	0	0	2	2.00																					
	Supply , installation , testing & commissioing of cabinet type inline Smoke Exhaust fans. Casing position shall be as per the job requirement and shall be marked on the fan assembly. The fan assembly along with motors for Isolations																										
766	Cabinet Inline Exhaust Fan - 2950 CFM @ 20 mm STP	nos	2	2	0	4.00																					
767	Cabinet Inline Exhaust Fan - 1750 CFM @ 20 mm STP	nos	1	1	0	2.00																					
768	Cabinet Inline Exhaust Fan - 1700 CFM @ 20 mm STP	nos	0	0	1	1.00																					
769	Cabinet Inline Exhaust Fan - 1650 CFM @ 20 mm STP	nos	1	1	0	2.00																					
770	Cabinet Inline Exhaust Fan - 1600 CFM @ 20 mm STP	nos	0	0	1	1.00																					
771	Cabinet Inline Exhaust Fan - 1400 CFM @ 20 mm STP	nos	0	0	3	3.00																					
772	Cabinet Inline Exhaust Fan - 1350 CFM @ 20 mm STP	nos	1	1	0	2.00																					
773	Cabinet Inline Exhaust Fan - 1300 CFM @ 20 mm STP	nos	0	0	1	1.00																					
774	Cabinet Inline Exhaust Fan - 1250 CFM @ 20 mm STP	nos	1	1	0	2.00																					
775	Cabinet Inline Exhaust Fan - 1200 CFM @ 20 mm STP	nos	1	1	0	2.00																					
776	Cabinet Inline Exhaust Fan - 1000 CFM @ 20 mm STP	nos	2	2	1	5.00																					
777	Cabinet Inline Exhaust Fan - 700 CFM @ 20 mm STP	nos	0	0	1	1.00																					
778	Cabinet Inline Exhaust Fan - 400 CFM @ 20 mm STP	nos	0	0	1	1.00																					
779	Cabinet Inline Exhaust Fan - 300 CFM @ 20 mm STP	nos	0	0	1	1.00																					
	Supply , installation , testing & commissioing of cabinet type inline Fersh air fans. Casing position shall be as per the job requirement and shall be marked on the fan assembly. The fan assembly along with motors for Isolations																										
780	Cabinet Inline Fresh Air Fan - 2950 CFM @ 20 mm STP	nos	2	2	0	4.00																					
781	Cabinet Inline Fresh Air Fan - 2000 CFM @ 20 mm STP	nos	1	1	0	2.00																					
782	Cabinet Inline Fresh Air Fan - 1750 CFM @ 20 mm STP	nos	1	2	0	3.00																					
783	Cabinet Inline Fresh Air Fan - 1700 CFM @ 20 mm STP	nos	0	0	1	1.00																					

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
784	Cabinet Inline Fresh Air Fan - 1650 CFM @ 20 mm STP	nos	1	1	0	2.00																		
785	Cabinet Inline Fresh Air Fan - 1600 CFM @ 20 mm STP	nos	0	0	1	1.00																		
786	Cabinet Inline Fresh Air Fan - 1400 CFM @ 20 mm STP	nos	0	0	3	3.00																		
787	Cabinet Inline Exhaust Fan - 1350 CFM @ 20 mm STP	nos	1	1	0	2.00																		
788	Cabinet Inline Exhaust Fan - 1300 CFM @ 20 mm STP	nos	0	0	1	1.00																		
789	Cabinet Inline Exhaust Fan - 1250 CFM @ 20 mm STP	nos	1	1	0	2.00																		
790	Cabinet Inline Exhaust Fan - 1200 CFM @ 20 mm STP	nos	1	1	0	2.00																		
791	Cabinet Inline Exhaust Fan - 1000 CFM @ 20 mm STP	nos	0	0	1	1.00																		
792	Cabinet Inline Exhaust Fan - 700 CFM @ 20 mm STP	nos	0	0	1	1.00																		
793	Cabinet Inline Exhaust Fan - 400 CFM @ 20 mm STP	nos	0	0	1	1.00																		
794	Cabinet Inline Exhaust Fan - 300 CFM @ 20 mm STP	nos	0	0	1	1.00																		
795	Supply, installation ,testing and commissioning of Strip heater, Pan Humidifier with Siemens controller (digital) for controlling and maintaining the RH of 45% TO 50% and its include of drain tray, all necessary accessories with one number of stand by heater.																							
795A	Strip heater-5 kW	nos	3.00			3.00																		
795B	Strip heater-5.5kW	nos		1.00		1.00																		
795C	Strip heater-6 kW	nos	1.00	2.00	2.00	5.00																		
795D	Strip heater-7 kW	nos		1.00	1.00	2.00																		
795E	Strip heater-15 kW	nos	1.00			1.00																		
795F	Strip heater-17 kW	nos		1.00		1.00																		
795G	Strip heater-18.5 kW	nos			1.00	1.00																		
795H	Pan Humidifier 25 LITRES	nos	5.00	5.00	4.00	14.00																		
	INSULATED CHILLED WATER PIPING(Nitrile rubber insulation) Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with following closed cell elastometric nitrile rubber of minimum 45 Kg / cu m density, thermal conductivity 0.037 W/MK or better at 20 deg mean temperature class ' O ' insulation applied by suitable adhesive complete including repairing of damage to building etc. as per specifications and as required complete in all respect. note: The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from thick MS sheet for pipes of 400 mm dia and above.minimum 7mmthick MS sheet for pipes of 400 mm dia and above.																							
	Chilled water pipes																							
796	250mm dia.(32 mm thick insulation)	metre	57	57.00	70.00	184.00																		
797	200mm dia.(32 mm thick insulation)	metre	102	107.00	14.00	223.00																		
798	150mm dia. (32 mm thick insulation)	metre	136	70.00	106.00	312.00																		
799	125mm dia.(32 mm thick insulation)	metre	75	52.00	78.00	205.00																		
800	100mm dia. (32 mm thick insulation)	metre	231	258.00	369.00	858.00																		
801	80mm dia.(32 mm thick insulation)	metre	483	294.00	311.00	1088.00																		
802	65mm dia(32 mm thick insulation)	metre	383	370.00	246.00	999.00																		
803	50mm dia(32 mm thick insulation)	metre	536	571.00	1118.00	2225.00																		
804	40mm dia. (32 mm thick insulation)	metre	431	378.00	354.00	1163.00																		
805	32 mm dia(19 mm thick insulation)	metre	846	649.00	607.00	2102.00																		
806	25 mm dia(19 mm thick insulation)	metre	1309	1368.00	1444.00	4121.00																		
807	20mm dia(Pipe only)	metre	685	275.00	41.00	1001.00																		



SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	Supplying, laying/ fixing, of following nominal sizes of chilled water piping inside and Exposed of the building duly insulated with Class O Nitrile Rubber with 45 +/- 5 kg/cum density insulation of Pre formed pipe section Covered with aluminium cladding for all pipes, fittings, valves, unions, etc. Insulation Thickness																							
808	20mm dia X 56 mm Thick	metre	685	275.00	43.00	1003.00																		
	<u>Control Valves For Chiller pipes</u>																							
	Supplying, fixing, testing and commissioning of following valves, strainers, gauges in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.																							
	3-WAY CONTROL VALVE Supply, installation, testing & commissioning of 3-Way modulating type control Valve, with Brass body, Stainless Steel ball with special structure, 800 kPa working pressure, 90 Deg C maximum operating temperature; Single piece; Threaded connections; Valves shall be inclusive of actuator and Room thermostat with three speed operation as per specification. The given price including of necessary pipe connections.																							
809	100mm dia	nos	0	0	3	3.00																		
810	80mm dia	nos	2	0	1	3.00																		
811	65mm dia	nos	2	6	5	13.00																		
812	50mm dia	nos	8	5	8	21.00																		
813	40mm dia	nos	11	7	10	28.00																		
814	32mm dia	nos	0	2	3	5.00																		
	BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot water circulation as specified																							
815	250mm dia	nos	2	2	2	6.00																		
816	150mm dia	nos	6	6	6	18.00																		
817	125mm dia	nos	3	3	6	12.00																		
818	100mm dia	nos	27	27	14	68.00																		
819	80mm dia	nos	21	15	12	48.00																		
820	65mm dia	nos	23	45	51	119.00																		
821	50mm dia	nos	50	32	57	139.00																		
822	40mm dia	nos	66	42	60	168.00																		
823	32mm dia	nos	0	14	0	14.00																		
	Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified																							
824	150mm dia	nos	3	3	3	9.00																		
825	125mm dia	nos	3	3	1	7.00																		
826	80mm dia	nos	2	0	1	3.00																		
827	65mm dia	nos	2	6	6	14.00																		
828	50mm dia	nos	8	5	10	23.00																		
829	40mm dia	nos	11	7	10	28.00																		
830	32mm dia	nos	0	2	0	2.00																		
	BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.																							
831	150mm dia	nos	3	3	3	9.00																		
832	125mm dia	nos	0	0	1	1.00																		
833	100mm dia	nos	8	1	3	12.00																		
834	80mm dia	nos	5	1	2	8.00																		
835	65mm dia	nos	5	9	24	38.00																		

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
836	50mm dia	nos	0	5	9	14.00																			
837	40mm dia	nos	0	7	10	17.00																			
838	32mm dia	nos	0	2	0	2.00																			
	NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified.																								
839	i) 100mm dia	nos	3	3	3	9.00																			
840	ii) 50mm dia	nos	0	0	0	0.00																			
	Supply, Installation, Testing and commissioning of Brass Ball valves in the chilled water pipe lines, including necessary fittings like flanges, reducers, tees and fasteners, and insulating the valves, after pressure testing as per the CPWD specifications for the chilled water piping. The ball valve shall be of Brass or Gunmetal as specified conforming to IS 1703 (Fig. 18.1). The ball valve shall be of following two classes:— (a) High Pressure: High pressure float valves are indicated by the abbreviation 'HP' and are designed for use on mains having pressure of 0.175 MPa or above. (b) Low Pressure: Low Pressure float valves are indicated by the abbreviation 'LP' and are designed for use on mains having a pressure up to . 0.175 MPa. The ball valves shall be of following nominal sizes 15 mm, 20 mm, 25 mm, 32 mm, 40 mm and 50 mm. The nominal size shall correspond with the nominal bore of the inlet shanks. Polyethylene floats shall conform to IS 9762. Ball Cock (Fig. 18.1): A faucet opened or closed by the fall or rise of a ball floating on the surface of water. ( For Chilled Water and HOT Water )																								
841	i) 1/2 "	nos	200	204	144	548.00																			
842	ii) 1 "	nos	80	82	36	198.00																			
	Supply, Installation, Testing and commissioning of Brass Auto Air Vent and Drain out.A valve that releases air from a pipe line automatically without loss of water, or introduces air into a pipe line automatically if the internal pressure becomes less than that of the atmosphere. the Maximum Operating Pressure 10 Bar , and Maximum Working Temperature 120 Deg C ( For Chilled Water and HOT Water )																								
843	i) 25mm AAV	nos	31.00	32.00	30.00	93.00																			
844	i) 25mm Drain out	nos	31.00	32.00	30.00	93.00																			
845	Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required	nos	62.00	64.00	60.00	186.00																			
846	Providing & fixing in position the mercury in glass industrial type Thermorms AISI - 316.	nos	62.00	64.00	60.00	186.00																			
847	Supply, installation Testing and Commissioning of Flow Switch For Chiller pipe line as specified.	nos	3.00	3.00	3.00	9.00																			
	Supply & installation of Flexible connections Rubber Bellows The Flexible connections shall be provided at the pumps, and other machine where requires as per following specifications a) The Flexible connections shall be flanged type expansion joint. Flanges shall be non-compressible and mechanically strong type and the Neoprene rubber shall be provided in between the flange ends. b) The connections shall work for a temperature range of minus 10°C to 70 ° C. c) The length and working pressure of bellows Should be followed as per CPWD Specification CHAPTER - 10. 4. (For Chilled Water and HOT Water)																								
848	Ø 50mm	nos	4	0.00	4.00	8.00																			
849	Ø 125mm	nos	3	3.00	3.00	9.00																			
850	Ø 100mm	nos	3	3.00	3.00	9.00																			
851	Ø 150mm	nos	0	0.00	6.00	6.00																			
	Duct & Insulation Works																								

SL. no	Description of Item	Unit	Quantity				Rate			Amount													
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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)		
	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.																						
852	24 Gauge Thickness 0.63 mm sheet	sqm	2881	2875.00	2,812.00	8568.00																	
853	22 Gauge Thickness 0.80 mm sheet	sqm	1140	1307.00	2,452.00	4899.00																	
854	20 Gauge Thickness 1.00 mm sheet	sqm	496	465.00	50.00	1011.00																	
855	18 Gauge Thickness 1.25 mm sheet	sqm	85	85.00	0.00	170.00																	
	Supply, installation, testing & commissioning of Supply, installation, balancing and commissioning of factory fabricated IS: 737 Aluminium sheet metal rectangular ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. Smoke test to be done to assure lock forming. The steel sheets shall be hot dip galvanized with MAT finish with coating of minimum 120 grams per square meter (GSM) of Aluminium. The sheets shall be lead free, eco friendly and RoHS compliant. The thickness of sheets for fabrication of rectangular ductwork shall be as under the CPWD Specification. The thickness required corresponding to the longest side of the rectangular section shall be applicable for all the four sides of the duct work. The Duct supports and Joints flanges should be followed as per CPWD Specification.																						
856	22 Gauge	sqm	354	353.00	437.00	1144.00																	
857	20 Gauge	sqm	227	324.00	256.00	807.00																	
858	18 Gauge	sqm	0	0.00	83.00	83.00																	
	Supply and fixing of Thermal Insulation with Class "O" With Anti Microban closed cell, elastomeric, nitrile rubber, dust free, fiber free, and CFC free insulation 19 mm Thick	sqm	1721	1802.00	3757.00	7280.00																	
860	Supply and installation of Acoustic insulation With Class - " 1" of ducts with open cell with Anti Microban , elastomeric, nitrile rubber, dust free, fiber free, and CFC free insulation 15 mm thick	sqm	739	898.00	688.00	2325.00																	
861	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc. as per specifications	sqm	3.76	5.35	3.50	12.61																	
862	Supply, installation, testing and commissioning of Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sqmm) for integration within AHU room.	sqm	1.05	1.25	1.50	3.80																	
863	GI volume control damper Actuator	nos	10	8.00	11.00	29.00																	
864	supply and erection of UL-555 Standards with CBRI certified Fusible link fire dampers of atleast 120 minutes fire rating. Constructed with 16G GI outercasing and multiblades type out of 16 G -GI -3v grooved blades with bras bush and spindles on both the ends of the fire dampers. FOR fusible link fire dampersUL Stamped fusible linkshall be fitted with proper spring mechanism .For motorized fire dampers actuators shall be factory fitted and shall furnish test certificates for satisfactory operation of each dampers actuators with be spring return model along with control panels. the actuator torque shall be suitable for the fire damper size.	sqm	6.05	6.38	1.60	14.03																	
	Supply & Installation of Stainless steel matt SS304 grade Ceiling Suspended type Laminar Air Flow Unit with Suitable HEPA Filters(0.3 micron)																						
865	1.Size - 8'x8'	nos	4.00	4.00	4.00	12.00																	
866	2.Size - 8'x6'	nos	1.00	1.00	1.00	3.00																	
	Air Terminal :																						

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
867	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	sqm	9.00	8.00	0.74	17.74																		
868	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	sqm	7.00	6.00	0.00	13.00																		
869	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications	sqm	13.96	17.13	20.49	51.58																		
870	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	sqm	111.44	104.01	142.53	357.98																		
	Supplying & fixing of powder coated extruded aluminium Fresh Air Invisible grille as per specifications/ Sizes as per Tender Drawings.																							
871	i) 400mm Height	sqm	0.4	0.36	0.40	1.16																		
872	ii) 350mm Height	sqm	0.12	0.12	0.40	0.64																		
873	iii) 300mm Height	sqm	0.84	0.84	0.40	2.08																		
874	iv) 250mm Height	sqm	1.09	1.09	2.10	4.28																		
875	iv) 200mm Height	sqm	0.5	0.47	0.40	1.37																		
876	v) 150mm Height	sqm	0.12	0.12	0.00	0.24																		
877	vi) 100mm Height	sqm	0.1	0.03	0.00	0.13																		
	Supplying & fixing of powder coated extruded aluminium Fresh Air grille with collar damper as per specifications/ Sizes as per Tender Drawings.																							
878	100mm Height	sqm	0	0.00	0.10	0.10																		
879	150mm Height	sqm	2.65	2.65	2.80	8.10																		
880	200mm Height	sqm	0.3	0.28	0.00	0.58																		
	Supplying & fixing of powder coated extruded aluminium Exhaust Air Invisible grille with collar damper as per specifications/ Sizes as per Tender Drawings.																							
881	i) 100mm Height	sqm	0.1	0.10	0.00	0.20																		
882	ii) 150mm Height	sqm	0.3	0.27	0.30	0.87																		
883	iii) 200mm Height	sqm	0.1	0.04	0.00	0.14																		
884	iv) 250mm Height	sqm	2.3	2.03	3.00	7.33																		
885	v) 300mm Height	sqm	1.2	1.20	1.80	4.20																		
	Supplying & fixing of powder coated extruded aluminium Toilet Exhaust Air Circular Grille with flange type as per specifications/ Sizes as per Tender Drawings.																							
886	ii) 150mm dia	nos	284.00	284.00	408.00	976.00																		
	Supplying & fixing of powder coated extruded aluminium Exhaust Air grille with collar damper as per specifications/ Sizes as per Tender Drawings.																							
887	i) 100mm height	sqm	0.10	0.02	0.10	0.22																		
888	ii) 150mm height	sqm	2.54	2.54	2.90	7.98																		
889	iii) 200mm height	sqm	0.64	0.64	0.00	1.28																		
	Supplying & fixing of powder coated extruded aluminium Pressurization Air Grille with flange type powder coated aluminium as per specifications/ Sizes as per Tender Drawings.																							
890	i) 500mm height	sqm	7.8	7.70	19.08	34.58																		
891	ii) 400mm Height	sqm	4	3.64	0.00	7.64																		
892	iii) 300mm Height	sqm	1.5	1.37	0.00	2.87																		

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)		
	Supply,install,testing and commissioning of soft drawn copper pipes with insulation.The suction & liquid line shall be insulated with 12mm thick sleeveless nitrile rubber insulation.The rate shall be inclusive of Electrical & Control cable between IDU & ODU & MCB to ODU etc.as per specification/Tender drawings																						
893	i) 1/4"	metre	100	153.00	100.00	353.00																	
894	ii) 1/2"	metre	100	153.00	100.00	353.00																	
895	iii) 3/8"	metre	46	23.00	46.00	115.00																	
896	iv) 5/8"	metre	46	23.00	46.00	115.00																	
	Supply,install,testing and commissioning of PVC Condensation pipe with U trap,elbow,bends,Tees,cleanout etc.10kg/sq.cm piping complete with fittings & supports etc.the pipe shall be insulated with 6mm thick closed shell elastomeric nitrile rubber Class 'O' type insulation																						
897	i) 25mm dia pipe	metre	935	839.00	935.00	2709.00																	
898	ii) 32mm dia pipe	metre	683	565.00	613.00	1861.00																	
	Acoustic Insulation of AHU Room Supplying, fixing acoustic lining on wall and ceiling of AHU rooms with 50mm thick, density 32 kg/cum resin bonded glass fiber insulation friction fixed in 610mm x 610 mm frame work made of 25X50X50X50X25 mm made out of 0.6mm thick GI sheet U shaped channel and covered with reinforced fiber glass tissue and finished with 0.80 mm perforated aluminium sheet etc. complete as required and as per specifications	sqm	907	860.00	534.00	2301.00																	
899	Supply, Installation, Testing and commissioning of Under deck roof insulation for roof exposed to sun light By using of 19 mm thick Class - O Nitrile Rubber Insulation.	sqm	784	762.00	1384.00	2930.00																	
	<b>Total Bill no-5 HVAC works</b>																						
6	<b>Bill no-6 Electrical system</b>																						
	<b>ELECTRICAL WORKS &amp; ELV WORKS</b>																						
	EXTERNAL ELECTRIFICATION																						
	<b>Sub Head 42 : 11/33 KV Substation Work</b>																						
	11 KV H.T. METREING PANEL (INDOOR TYPE):																						
900	Supply, Receiving, Unloading, Storing, Shifting, Installation, Testing & Commissioning of indoor type floor mounted, dust, damp and vermin proof, cubicle HT. rming Panel made out of 14 gauge CRCA sheet steel complete with 5Amp electronic trivector rm, C.T.'s of 800/5Amp, 0.5 Class, 10VA Burden, and P.T.'s of 11KV/ /3, 110V/ /3, 100 VA conforming to relevant IS Standards and complete as required. H.T. rming cubicle along with C.T.'s, P.T.'s and trivector rm shall be got tested and approved from local electricity supply authority. The GA drawing shall be got approved by ELECTRICITY SUPPLY AUTHORITY before fabrication.	set	1	0	1	2.00																	
	33 KV H.T. METREING PANEL (INDOOR TYPE):																						
901	Supply, Receiving, Unloading, Storing, Shifting, Installation, Testing & Commissioning of indoor type floor mounted, dust, damp and vermin proof, cubicle HT. rming Panel made out of 14 gauge CRCA sheet steel complete with 5Amp electronic trivector rm, C.T.'s of 800/5Amp, 0.5 Class, 10VA Burden, and P.T.'s of 33KV/ /3, 110V/ /3, 100 VA conforming to relevant IS Standards and complete as required. H.T. rming cubicle along with C.T.'s, P.T.'s and trivector rm shall be got tested and approved from local electricity supply authority. The GA drawing shall be got approved by ELECTRICITY SUPPLY AUTHORITY before fabrication.	set	0	1	0	1.00																	
	H.T. SINGLE PANEL BOARD																						
	11 KV HT VCB Single Breaker Panel Board (Indoor Type) (1 set Incoming / Outgoing)																						



SL. no	Description of Item	Unit	Quantity				Rate			Amount															
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	Supply, Receiving, Unloading, Shifting, Installation Testing & Commissioning of 11 KV Single Breaker Vacuum Circuit Breaker Panel Board as 1 Incoming/Outgoing shall be metal clad floor mounting complete as per specification and as described.																								
	800 A Vacuum circuit breaker of (350 MVA)18.3 KA rms for 3 second rupturing capacity for at 11 KV rated, totally enclosed,air insulated metal clad housing, floor mounting, horizontal isolation, vermin proof, fully interlocked horizontal drawout type having isolation features and control devices complete with the following.																								
	Manually and motor operated, spring charged (release closing mechanism) trip free type,triple pole truck mounted draw out, vacuum circuit breaker, incorporating mechanical as well as electrical ON/OFF indication. Spring charge/discharge mechanical indication"OFF" push buttons for emergency trip (shrouded) test/service position limit switches with 6 nos/6 NC breaker auxilliary contacts in service position, 24 Volts DC shunt trip coil and strip heater to prevent moisture absorption.																								
	INCOMING / OUTGOING PANEL - 1 no																								
	800 A Vacuum circuit breaker of (350 MVA) 18.3 KA rms for 3 second rupturing capacity for at 11 KV rated, totally enclosed,air insulated metal clad housing, floor mounting, horizontal isolation, vermin proof, fully interlocked horizontal drawout type having isolation features and control devices complete with the following.																								
	3 nos Single Phase double core current transformer 800/5 Amp epoxy cast insulated class of insulation E.																								
	Core 1-15VA burden class 1.0 for metreing.																								
	Core 2-15VA burden class 5P10 for protection.																								
	P.T's of 11KV/1.732, 110V/1.732, 100VA with suitable rating H.T. & L.T. fuse conforming to relevant IS Standards and complete as required.																								
	One no numerical microprocessor based three phase over current (IDMT element) (2 O/C+1E/F) with earth fault relay with instantaneous elements.																								
	1 no Anti Pumping device.																								
	1 no Circuit breaker control switch for electrical (T/N/C).																								
	1 no limit switch for test & service position.																								
	1 no Voltmetre (0-12KV) with selector switch. (96mm square)																								
	1 no Ammetre (0-100Amp) with selector switch. (96mm square).																								
	1 no electronic type digital energy analyser having 30 days memory and parametres of KW, KWH, Power factor, frequency etc. Suitable for BMS compatible with all accessories.																								
	1 set of following indicating lamps.																								
	Red, Yellow & Blue for phase indication.																								
	Amber for Trip indication.																								
	Red 'ON' Green 'OFF'																								
	Spring charge indication.																								
	Auto trip indication.																								
	1 no hooter with hooter acceptance and reset push button.																								
	1 no master trip relay. ( Electromechanical Type )																								
	1 noTrip ckt supervision relay. (Electromechanical Type )																								
	630A color coded heat shrinkable sleeved TP Copper busbar of 350 MVA fault rating.																								
	1 set of fuses, ferrules, wiring etc. as required.																								
	1 set of Power Pack 220 Volt A.C. / 24 Volt D.C. complete as required.																								
	note: All spare contacts of breaker or any other equipment inside the breaker shall be wired upto the outgoing terminal strip with appropriate ferrules / coding. The terminal strip rating shall be suitable for connecting two wires of 2.5sqmm subjected to providing minimum size strip suitable for 4/6sqmm.																								
902	H.T. Panel describe as above	set	1	0	1	2.00																			



SL. no	Description of Item	Unit	Quantity				Rate			Amount													
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total				
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)		
	H.T. SINGLE PANEL BOARD																						
	33 KV HT VCB Single Breaker Panel Board (Indoor Type) (1 set Incoming / Outgoing)																						
	Supply, Receiving, Unloading, Shifting, Installation Testing & Commissioning of 33 KV Single Breaker Vacuum Circuit Breaker Panel Board as 1 Incoming/Outgoing shall be metal clad floor mounting complete as per specification and as described.																						
	800 A Vacuum circuit breaker of (350 MVA)18.3 KA rms for 3 second rupturing capacity for at 33 KV rated, totally enclosed,air insulated metal clad housing, floor mounting, horizontal isolation, vermin proof, fully interlocked horizontal drawout type having isolation features and control devices complete with the following.																						
	Manually and motor operated, spring charged (release closing mechanism) trip free type, triple pole truck mounted draw out, vacuum circuit breaker, incorporating mechanical as well as electrical ON/OFF indication. Spring charge/discharge mechanical indication"OFF" push buttons for emergency trip (shrouded) test/service position limit switches with 6 no/6 NC breaker auxilliary contacts in service position, 24 Volts DC shunt trip coil and strip heater to prevent moisture absorption.																						
	INCOMING / OUTGOING PANEL - 1 no																						
	800 A Vacuum circuit breaker of (350 MVA) 18.3 KA rms for 3 second rupturing capacity for at 33 KV rated, totally enclosed,air insulated metal clad housing, floor mounting, horizontal isolation, vermin proof, fully interlocked horizontal drawout type having isolation features and control devices complete with the following.																						
	3 nos Single Phase double core current transformer 800/5 Amp epoxy cast insulated class of insulation E.																						
	Core 1-15VA burden class 1.0 for metreing.																						
	Core 2-15VA burden class 5P10 for protection.																						
	P.T's of 33KV/1.732, 110V/1.732, 100VA with suitable rating H.T. & L.T. fuse conforming to relevant IS Standards and complete as required.																						
	One no numerical microprocessor based three phase over current (IDMT element) (2 O/C+1E/F) with earth fault relay with instantaneous elements.																						
	1 no Anti Pumping device.																						
	1 no Circuit breaker control switch for electrical (T/N/C).																						
	1 no limit switch for test & service position.																						
	1 no Voltmetre (0-12KV) with selector switch. (96mm square)																						
	1 no Ammetre (0-100Amp) with selector switch. (96mm square).																						
	1 no electronic type digital energy analyser having 30 days memory and parametres of KW, KWH, Power factor, frequency etc. Suitable for BMS compatible with all accessories.																						
	1 set of following indicating lamps.																						
	Red, Yellow & Blue for phase indication.																						
	Amber for Trip indication.																						
	Red 'ON' Green 'OFF'																						
	Spring charge indication.																						
	Auto trip indication.																						
	1 no hooter with hooter acceptance and reset push button.																						
	1 no master trip relay. ( Electromechanical Type )																						
	1 no Trip ckt supervision relay. (Electromechanical Type )																						
	630A color coded heat shrinkable sleeved TP Copper busbar of 350 MVA fault rating.																						
	1 set of fuses, ferrules, wiring etc. as required.																						
	1 set of Power Pack 220 Volt A.C. / 24 Volt D.C. complete as required.																						
	note: All spare contacts of breaker or any other equipment inside the breaker shall be wired upto the outgoing terminal strip with appropriate ferrules / coding. The terminal strip rating shall be suitable for connecting two wires of 2.5sqmm subjected to providing minimum size strip suitable for 4/6sqmm.																						



SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	1 no Digital Multifunction metre - Quasar																							
	Relays																							
	1 no MC 61A (O/C + E/F - IDMT+Inst)																							
	1 no AVAJH13 Master trip relay (Ashida)																							
	1 no TCS Relay																							
	note: All spare contacts of breaker or any other equipment inside the breaker shall be wired upto the outgoing terminal strip with appropriate ferrules / coding. The terminal strip rating shall be suitable for connecting two wires of 2.5sqmm subjected to providing minimum size strip suitable for 4/6sqmm.																							
	1 set of Power Pack 220 Volt A.C. / 24 Volt D.C. complete as required.																							
	Outgoing:-																							
	2 no 11kV 800A, 18.3kA drawout type VCB with motorised spring charge mechanism for 240V AC, closing & tripping coils suitable for 24V DC																							
	each Outgoing comprising with following accessories.																							
	1 no Mechanical ON/OFF Indicator																							
	1 no Aux Switch 6no + 6NC																							
	Panel, Busbar, CT, PT																							
	800A color coded heat shrinkable sleeved TP Copper busbar of 18.3 KA fault rating.																							
	1 no Fully compartmentalised sheet steel enclosure floor mounting type with automatic safety shutters, independent pressure discharge flaps, PVC sleeved busbar, etc with provision for terminating PVC/PILC/XLPE Cable																							
	3 nos. Resin Cast CTs 800/5A with Core 1 : 7.5VA CL 1 Core 2 : 7.5VA CL 5P10																							
	Breaker Panel indication Lamps :																							
	6 nos. ON/OFF/TRIP/TRIP Ckt Healthy/Spring Charged																							
	Switches and other Accessories																							
	8 nos.Fuses																							
	1 no Heater																							
	1 no Thermostat																							
	1 no 6 Window Annunciator																							
	1 no Plug & Socket																							
	1 no Test Terminal Block																							
	1 no T-N-C Switch																							
	1 no Emergency Push Button																							
	1 no Local/Remote Selector Switch																							
	metres																							
	1 no Analog Ammetre + ASS																							
	1 no Digital Multifunction metre - Quasar																							
	Relays																							
	1 no MC 61A (O/C + E/F - IDMT+Inst)																							
	2 nos Auxiliary Relay for transformer fault																							
	1 no AVAJH13 Master trip relay (Ashida)																							
	1 no TCS Relay																							
	1 set of Power Pack 220 Volt A.C. / 24 Volt D.C. complete as required.																							
	note: All spare contacts of breaker or any other equipment inside the breaker shall be wired upto the outgoing terminal strip with appropriate ferrules / coding. The terminal strip rating shall be suitable for connecting two wires of 2.5sqmm subjected to providing minimum size strip suitable for 4/6sqmm.It shall also be with 1 no Earthing Truck for cable & Busbar earthing.																							
904	H.T. Panel described as above	set	1	0	1	2.00																		

SL. no	Description of Item	Unit	Quantity				Rate			Amount													
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total				
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)		
	33 KV HT VCB THREE BREAKER PANEL BOARD (INDOOR TYPE)(1 INCOMMING + 2 OUTGOING)																						
	Design, manufacturer, supply of panel board fabricated out of minimum 2 mm thick sheet steel as per specifications. The panel shall be complete with cable termination arrangement suitable for incoming(1 run x 3C x 300 sqmm XLPE 33KV) and outgoing (1 run x 3C x 240 sqmm XLPE 33 KV) cable and copper bus bar arrangement. The panel shall comprise of the following:																						
	Supply, Receiving, Unloading, Shifting, Installation Testing & Commissioning of 33 KV Four Breaker Vacuum Circuit Breaker Panel Board as 1 Incomming & 3 Outgoing shall be metal clad floor mounting complete as per specification and as described.																						
	800 A Vacuum circuit breaker of 35.2 KA rms for 1 second rupturing capacity for at 33 KV rated, totally enclosed, air insulated metal clad housing, floor mounting, horizontal isolation, vermin proof, fully interlocked horizontal drawout type having isolation features and control devices complete with the following.																						
	Manually and motor operated, spring charged (release closing mechanism) trip free type, triple pole truck mounted draw out, vacuum circuit breaker, incorporating mechanical as well as electrical ON/OFF indication. Spring charge/discharge mechanical indication "OFF" push buttons for emergency trip (shrouded) test/service position limit switches with 6 nos/6 NC breaker auxilliary contacts in service position, 24 Volts DC shunt trip coil and strip heater to prevent moisture absorption.																						
	Three Panel Board ( 1 I/C + 2 O/G)																						
	Incomer-																						
	1 no 33kV 800 A 35.2kA drawout type VCB with motorised spring charge mechanism for 240V AC, closing & tripping coils suitable for 24V DC																						
	each incomer comprising with following accessories.																						
	1 no Mechanical ON/OFF Indicator																						
	1 no Aux Switch 6no + 6NC																						
	Panel, Busbar, CT, PT																						
	800A color coded heat shrinkable sleeved TP Copper busbar of 18.3 KA fault rating.																						
	1 no Fully compartmentalised sheet steel enclosure floor mounting type with automatic safety shutters, independent pressure discharge flaps, PVC sleeved busbar, etc with provision for terminating PVC/PILC/XLPE Cable																						
	3 nos. Resin Cast CTs 150/5A with Core 1 : 15VA CL 1 Core 2 : 15VA CL 5P10																						
	3 nos. PT - 33kV/√3//110/√3V ,CL 1.0, 100VA																						
	Breaker Panel indication Lamps :																						
	6 nos. ON/OFF/TRIP/TRIP Ckt Healthy/Spring Charged																						
	Switches and other Accessories																						
	8 nos.Fuses																						
	1 no Heater																						
	1 no Thermostat																						
	1 no 6 Window Annunciator																						
	1 no Plug & Socket																						
	1 no Test Terminal Block																						
	1 no T-N-C Switch																						
	1 no Emergency Push Button																						
	1 no Local/Remote Selector Switch																						
	metres																						
	1 no Analog Ammetre + ASS																						
	1 no Analog Voltmetre + VSS																						
	1 no Digital Multifunction metre - Quasar																						

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
	Relays																								
	1 no MC 61A (O/C + E/F - IDMT+Inst)																								
	1 no AVAJH13 Master trip relay (Ashida)																								
	1 no TCS Relay																								
	note: All spare contacts of breaker or any other equipment inside the breaker shall be wired upto the outgoing terminal strip with appropriate ferrules / coding. The terminal strip rating shall be suitable for connecting two wires of 2.5sqmm subjected to providing minimum size strip suitable for 4/6sqmm.																								
	1 set of Power Pack 220 Volt A.C. / 24 Volt D.C. complete as required.																								
	Outgoing:-																								
	2 nos 33kV 800A, 35.2kA drawout type VCB with motorised spring charge mechanism for 240V AC, closing & tripping coils suitable for 24V DC																								
	each Outgoing comprising with following accessories.																								
	1 no Mechanical ON/OFF Indicator																								
	1 no Aux Switch 6no + 6NC																								
	Panel, Busbar, CT, PT																								
	800A color coded heat shrinkable sleeved TP Copper busbar of 35.2 KA fault rating.																								
	1 no Fully compartmentalised sheet steel enclosure floor mounting type with automatic safety shutters, independent pressure discharge flaps, PVC sleeved busbar, etc with provision for terminating PVC/PILC/XLPE Cable																								
	3 nos. Resin Cast CTs 800/5A with Core 1 : 7.5VA CL 1 Core 2 : 7.5VA CL 5P10																								
	Breaker Panel indication Lamps :																								
	6 nos. ON/OFF/TRIP/TRIP Ckt Healthy/Spring Charged																								
	Switches and other Accessories																								
	8 nos.Fuses																								
	1 no Heater																								
	1 no Thermostat																								
	1 no 6 Window Annunciator																								
	1 no Plug & Socket																								
	1 no Test Terminal Block																								
	1 no T-N-C Switch																								
	1 no Emergency Push Button																								
	1 no Local/Remote Selector Switch																								
	metres																								
	1 no Analog Ammetre + ASS																								
	1 no Digital Multifunction metre - Quasar																								
	Relays																								
	1 no MC 61A (O/C + E/F - IDMT+Inst)																								
	2 nos Auxiliary Relay for transformer fault																								
	1 no AVAJH13 Master trip relay (Ashida)																								
	1 no TCS Relay																								
	1 set of Power Pack 220 Volt A.C. / 24 Volt D.C. complete as required.																								
	note: All spare contacts of breaker or any other equipment inside the breaker shall be wired upto the outgoing terminal strip with appropriate ferrules / coding. The terminal strip rating shall be suitable for connecting two wires of 2.5sqmm subjected to providing minimum size strip suitable for 4/6sqmm.It shall also be with 1 no Earthing Truck for cable & Busbar earthing.																								
905	H.T. Panel described as above	set	0	1	0	1.00																			

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
906	1250 KVA, 11KV/433V Transformer	set	2	0	2	4.00																			
	Supply, Installation, Testing & Commissioning of ISI marked copper wound Transformers 11/0.433 KV, Three Phase, 50 Hz, DYN 11, ONANtype , Standard accessories, winding temperature rise of 45 °C/40 °C first fill oil, having permissible total loss values not exceeding 7.5%of the maximum total loss values for 11 KV as per Energy Efficiency Level - 2 at basic Insulation level conforming to ISS 2026 (Part- I to Part - II), latest ammended and IS 1180 Part-I : 2014 described as above with Cable box on HV side and Bus duct on LV Side , ON load Tap changer(OLTC) +10% to -10%, etc., complete and as per the following continuous rating																								
907	1250 KVA, 33KV/433V Transformer	set	0	2	0	2.00																			
	Supply, Installation, Testing & Commissioning of ISI marked copper wound Transformers 33/0.433 KV, Three Phase, 50 Hz, DYN 11, ONANtype , Standard accessories, winding temperature rise of 45 °C/40 °C first fill oil, having permissible total loss values not exceeding 7.5%of the maximum total loss values for 33 KV as per Energy Efficiency Level - 2 at basic Insulation level conforming to ISS 2026 (Part- I to Part - II), latest ammended and IS 1180 Part-I : 2014 described as above with Cable box on HV side and Bus duct on LV Side , ON load Tap changer(OLTC) +10% to -10%, etc., complete and as per the following continuous rating																								
	DIESEL GENERATING set:																								
	Design, Manufacturing, Testing at works, Supply, Installation, Testing & Commissioning of Radiator cooled diesel engine of following rating on common base frame alongwith ECP & other accessories like hospital grade silencer, antivibration pad, batteries with leads, day oil fuel tank, suitable space heater for alternator, suitable arrangement of LT cable box for LT Armoured AL cable upto 4 runs 3.5C x 300 cable Termination etc. as per EPC Tender specification.																								
	The entire work shall confirm to Bureau of Indian Standards safety standards; British Standards, and CPWD specifications.																								
	DG set shall have synchronizing facility.																								
	The D.G. set shall be Air cooled with Radiator																								
	Working at ambient temperature between -5 °C to 50 °C and relative humidity upto 95%.																								
	nominal output voltage of engine/alternator set shall be 415 volts 50 Hz AC Supply with manual adjustment at all conditions of load with coarse and fine controls with a range of ± 5%.																								
	The frequency shall be maintained at 50 Hz ± 2% for the set. The output wave-form shall be sinusoidal at all load conditions.																								
	The engine/alternator set shall be capable of taking 10% over-load for a period of one hour during any 12 hours period, while operating continuously at full rated load.																								
	The Engine shall be capable to minimum 60% bulk load of the rating during transfer of the load from no Load position without tripping.																								
	The set may be idle for a long time except for periodical test whenever there is a electrical supply failure, the set may required to run continuously for period even exceeding 24 hours.																								
	Engine should have minimum lube oil change period 500 Hrs.																								
	The set shall have vibration limit less than 130 microns (as per BS:4999 Part – 142) & noise level shall be meet CPCB norms under all conditions of load. The efficient residential silencer shall be provided with or without catalytic converter on-line scrubber & the set shall meet EURO-II norms for D.G sets, for the exhaust. Air inlet shall also be provided.																								



SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
	The engine shall be stationary, compression ignition, totally enclosed, water cooled, 4 stroke direct injection, cold battery starting, turbo charged and low temperature with after cooled Radiator Cooled 1500 RPM in accordance to BS 5514 and IS: 10002 complete with all accessories. The DG engine shall be suitable for quick start & should be able to pick up 100% load within optimum time. The DG Engine & the batteries shall be designed to take up at least six starting attempts beyond which the system shall be protected by means of an over crank relay. The successful bidder will submit GFC drawings of the equipments/accessories selected for this work for the approval.																								
	The governor shall be Isochronous, electronic digital type with a steady state frequency variation of +/- .25%. The transient performance shall comply with ISO 8528-5, Class G3 requirements.																								
	The engine shall be water cooled heat exchanger type or radiator cooled depending on its capacity. DG set shall be adequately designed for continuous operation on ambient conditions at 50 deg C.																								
	The alternator shall be brushless synchronous and suitable for 3 phase 415 Volts, 4 wire, 50 Hz, 0.8 PF, 1500 RPM. The alternator shall be suitable for coupling directly to the diesel engine It shall be Drip proof, screen protected as per IP-23. The alternator shall be single bearing type & self ventilating. The alternators shall be continuously rated and shall have class 'H' insulation with a temperature rise restricted to that of class F designed and built to withstand tropical conditions. It shall generally conform to BS: 5000 (Part - 99) / standards listed above. The alternator shall be suitable for sustaining a 10% overload for 1 hour in any 12 hour period without injury. The terminal arrangement for alternator shall be suitable for Bus Duct connections of adequate size to deliver the full load of the alternator.																								
	The alternator shall also have a solid state type digital voltage regulator (D.V.R.) suitable for single running with control limits of 1% from no load to full load under normal load changes. It shall be of static type and complete with cross current compensation. The regulator shall be provided with voltage adjusting potentiorm, and shall be complete with all alarm contacts, internal wiring, etc.																								
	Self excited, self regulated and providing alternator output regulation at plus or minus 0.25%. The alternator shall be provided with a pilot-excited, permanent magnet-excited generator (PMG) for superior short circuit capabilities. Bidders to specify sustained short circuit current capabilities for up to 10 seconds. The alternator shall be provided with sealed Barings to give minimum service life of 40,000 Hours. The Bidders to specify the maximum rating of the motor that can be started direct on line without any base load, with 50% base load, restricting the Voltage depth to 20%.																								
	Day service fuel tank shall be made of 3 mm thick MS sheet of 990 litres capacity including HSD fuel handling piping with M.S. heavy class ERW piping (Class-C) conforming to IS : 1239 with necessary clamps, supports, anti vibration mountings, hangers and fittings such as bends, tees, reducers etc. painted																								
	note: a) First filling of the HSD shall be under the scope of contractor																								
	b) Ambient temperature for DG sets operation is 40°C.																								
	c) DG Manufacturer/OEM shall coordinate with Main L.T. Panel supplier for synchronising of DG set & auto start / auto stop functioning including testing & commissioning.																								
	d) The DG set Manufacture/OEM to guarantee that DG set shall generate minimum 4 units of Electric power per litre at loading ranging from 40% to 85% under site conditions.																								
	e) If Manufacturer does not have the Power command controller of Cumins PC 3.3 or equivalent then the supplier shall submit the synchronizing panel PLC based DG sets and scope of integration of synchronization system with the proposed Main L.T. Panel.																								
	f) The liasioning for inspection & approval of the layout drawing, installation license from electricity supply authority, electrical inspector, permission for operation of DG set, approval from Pollution Control Board etc. as required.																								
908	625 KVA DG set with suitable capacity of Day Oil Tank describe as above	set	4	4	4	12.00																			

SL. no	Description of Item	Unit	Quantity				Rate			Amount																
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total							
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
	DG Synchronization cum Changeover Panel.																									
	Supply, Erection, Testing & Commissioning of DG Control panel with D.G. Synchronizing controller & Micro PLC. this will be floor mounted, free standing, compartmentalized, indoor duty, dust proof, vermin proof, front operated, electrical panel fabricated, painted and manufactured exactly as per specifications laid in this document and will be complete with the main and auxiliary bus bars, interconnection, earth terminals, earth bus and will be powdered coated finished. All the busbar joint shall be protected by clip on type sleeve. The DG control panel shall use all draw out 3 position withdrawn type breakers suitable for 415 V AC, 3 phase, 50 Hz, 4 wire supply system and will have fault level of 50 KA or as required as per consultant approval. The panel will be made as per detailed specifications and drawings forming part of this document. (Under no case temperature of LT Panel shall be more at any point of the panel, otherwise necessary exhaust fan shall be have to provided) Bus bar calculations considering temperature derating, enclosure derating, sleeving derating must be done and submitted for checking.																									
	The DG vendor shall make complete protection curves and discrimination chart for relay settings and shall adjust all these readings at site. The bus bar size shall not be less than the ampere sizes mentions after derating. The bidder will show exact calculations & compare the figure of 0.66 and final calculations will be adopted for more stringent condition. each incommer shall have surge protection device. The PCC panel will comprise of the following :																									
	each incoming / outgoing breaker shall have microprocessor release with adjustable over current, short circuit & earth fault protection with instantaneous as mentioned in specification. The Panel will be made as per detailed specifications & drawings forming part of this document. Fault level of panel shall be 50 KA.																									
	All the MCCB up to 250 Amp shall have thermal release with adustable overload, short circuit & earth fault protection and above shall have microprocessor release with adjustable overload, short circuit & earthfault protection. The panel shall be manufactured as per BOQ, tech specification and drawing. Fault level of panel shall be 50 KA.																									
	One set of PLC with required accessories for AMF, Load Management, Interlocking and synchronizing through synchronizing relay. PLC shall be with PC, Monitor, required software to monitoring the all parametres for Synchronizing Panel & Main L.T. Panel.																									
	Incomer:																									
	2 nos 1250A incomer and each incomer breaker feeder + 1 outgoing 2500A: (For 625KVA D.G. set)-																									
	ACB FP Electrically operated horizontal drawout type Air Circuit Breaker microprocessor based releases for O/C, S/C & earth fault protection with instantaneous including 200 Amps TP Neutral Contactor. (50 KA)																									
	One set of Generator control relay for each D.G. set with accessories for AMF, Synchronizing.																									
	1 no digital ammetre, ammetre selector switch, digital voltmetre, Voltmetre selector switch.																									
	1 no Load Manager EM 6400 with RS 485 port Suitable for BMS compatible																									
	1 no REF relay																									
	Annosunciation window to cover LLOP, HWT, OIL Pressure, U/V, O/V, U/F, O/F, O/C, E/F, REF relay faults shall be provided. 2 nos phase reversal relay shall be provided.																									
	Engine should trip on LLOP, HWT, oil temp, O/V, O/F and breaker should trip on other faults.																									
	Initially U/V & U/F will be bye passed till oil pressure is picked up.																									
	Indicating lights for ACB ON / OFF, ACB trip, neutral contactor ON, D.G. on mains, D.G. fails to start.																									

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
	Generator start /stop facility through push button from panel, necessary cranking relay shall be provided.																								
	Suitable battery charger for 24V 360 AH with d.c voltmeter & d.c ammeter. D.C voltmeter and ammeter will be analogue type.																								
	Whenever D.G. stop through PB, load shall be disconnected first. (PTTA Type panels are considered)																								
	<b>BATTERY &amp; BATTERY CHARGER</b>																								
	1 no 24V, 72AH SMF Battery with suitable battery charger.																								
909	LT cum D.G. Synchronizing Panel -2 nos	set	2	2	2	6.00																			
	<b>EXHAUST PIPING</b>																								
	Supply, Installation & Testing of following sizes MS exhaust piping conforming to IS:3589 complete with all accessories such as bends, flanges, 2 coat primer / painting etc.																								
910	300 mm dia MS pipe. (4.50 mm thick)	metre	180	180	180	540.00																			
911	150 mm dia MS pipe. (4.50 mm thick)	metre	24	24	24	72.00																			
	Supply & Fixing of Insulation of above pipe with 50 mm thick Loosely bound resin (LBR) mattress/ mineral wool/ Rockwool, density not less than 120 kg/m3 and aluminium cladding of 0.63 mm thick on exhaust pipe complete as per technical specification.																								
912	300 mm dia MS pipe.	metre	180	180	180	540.00																			
913	150 mm dia MS pipe.	metre	24	24	24	72.00																			
914	Exhaust Silencer ( For 625 KVA D.G. set )	each	8	8	8	24.00																			
915	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	kg	20000	20000	20000	60000.00																			
	note - The item given indicative and minimum to be provided. The bidder shall workout & furnish the detail in the forms of Load (Applicable forces) calculation detail, Shop drawings of supporting arrangements in co-ordination to Site requirements, Material Take off sheet for The approval from project consultant.																								
	Supply, Installation, Testing & Commissioning of LED Twin Aviation Light with required cabling on top of exhaust pipe structure. (Wiring from substation inverter DB to Aviation Light to be considered in this item only.)																								
916	Supply, Installation, Testing & Commissioning of Lightning Arrester system with required earthing pit, earthing strip etc as per IEC/IS code as complete as required.	set	2	2	2	6.00																			
917	Supply and fixing of 300 mm dia ss bellow with necessary matching flanges	set	4	4	4	12.00																			
918	Supply and fixing of GI ducting for hotair	sqm	60	60	60	180.00																			
919	Supply and installation of 25 mm dia C class fuel pipe with flanges and bend and two coating of painting	metre	50	50	50	150.00																			
920	supply and fixing of 25 mm ball valve	each	4	4	4	12.00																			
921	Supply and fixing of ss float valve for fuel elevated tank	each	2	2	2	6.00																			
	<b>SAFETY EQUIPMENT</b>																								
922	Supply of First aid box as approved by St.John Ambulance Brigade /Indian Red Cross society conforming to IS : 2217 - 1963.	nos.	2	2	2	6.00																			
923	Supply of Shock treatment chart duly mounted on a wooden frame with glass on, as required in 2 languages (Hindi & English).	nos.	8	8	8	24.00																			
924	Supply of Rubber mat 1000 mm. Wide to withstand 11 KV dielectric strength as per latest IS 15652-2006.	metre	8	8	8	24.00																			
	<b>Main LT PANEL</b>																								



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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
	01 no. 63 Amp FP Moulded Case Circuit Breaker.																								
	notes: (PTTA Type panels are considered)																								
	All outgoing feeders shall have suitable range Digital ammetre with selector switch, CTs and phase indicating light protected by 2 amps MCBs except capacitor feeders.																								
	All breakers shall be electrically/ mechanically interlocked as per schematic diagram.																								
	All outgoing shall be suitable for provision of shunt trip coil in future.																								
	All outgoing/incoming feeder shall have the provision for internal lighting.																								
	CT's on R/Y phase for PFCR for each I/C feeder.																								
	Digital electronic MFM metre (modbus output protocol to BAS for energy management (Potential free contacts or remote indication).shall be provided all incoming as well as outgoing feeder																								
	All incoming as well as outgoing air circuit breaker shall be compatible with BAS system.																								
	All incoming / outgoing ACB/MCCB shall be suitable for minimum 50 KA (ICS) breaking capacity and as per the detailed specification																								
925	Space heater with thermostate shall be provided in the above panel.	set	1	1	1	3.00																			
	APFC Panel (350 KVAR - 100 + 4x50 + 25 + 15 + 10 - 8 step)																								
	Supplying, installation, testing and commissioning of automatic power factor correction panels (Fabricated out of 2/1.6mm thick (Gland plate shall be 2mm) CRCA sheet steel enclosure) of following size(KVAR) of capacitors suitable for 440 Volts 3 phase,50Hz, floor mounted & having MPP (Metallized Polypropylene) type with 7% Detuned harmonic block reactor , self fusing, low loss, self healing, resin bonded without oil, single phase delta connected capacitors (confirming to IS13341:1992 & IS 13440:1993 ) housed in alluminum cans & having current limiting contacts circuit to suppress switching in rush current & having 4 to 8 step microprocessor based APFC relay with digital display controlling capacitors of following rating for improvement of targeted P.F ( 0.8 to 0.95). of the system.The APFC Panel shall be fully type tested at an Independent Laboratory and shall comply with IEC 61439-1&2 and IEC 61921 Or IS-16636-2017. The degree of protection of enclosures system of the APFC Panel shall be min. IP42 indoor type front access in accordance with IEC 60529 .Average daily temperature: +35°C max, Ambient temperature: -5°C to 40°C, Maximum altitude: 1500 m above sea level.Approved Makes- ABB / Schneider /L &T/ Siemens make only. The OEM's specified cannot authorize any other partners / sub vendors to manufacture APFC Panels on their behalf.																								
	The APFC Panel manufactured by OEM's only will be accepted & factory acceptance test ( FAT ) will be carried out at OEM's plant only.																								
	INCOMING																								
	800 amps FP ACB with following accessories.																								
	1 no. 0 to 500 Volt digital voltmeter with Voltmeter Selector Switch & Protective SP MCB (96mm square).																								
	1 no 0 to 800 Amp digital ammetre (96mm square) with CT's.																								
	1 sets of phase indicating lights (RYB) with protection fuses.																								
	1 sets breaker 'ON' & 'OFF' indicating lamp.																								
	08 Step Automatic Power Factor Correction relay (APFC relay).																								
	BUSBARS																								
	800 Amp TPN busbars of aluminium alloy																								
	OUTGOING																								
	2 nos. 200 Amp TP MCCB.																								
	8 nos. 125 Amp TP MCCB.																								
	2 nos. 63 Amp TP MCCB.																								
	4 nos. 32 Amp TP MCCB.																								



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	2 nos. capacitor duty contactor (one for each 100KVAR capacitor unit).																							
	8 nos. capacitor duty contactor (one for each 50KVAR capacitor unit).																							
	2 nos. capacitor duty contactor (one for each 25KVAR capacitor unit).																							
	2 nos. capacitor duty contactor (one for each 15KVAR capacitor unit).																							
	2 nos. capacitor duty contactor (one for each 10KVAR capacitor unit).																							
	2 nos. capacitor duty contactor (one for each 20KVAR capacitor unit).																							
	2 nos. 100 KVAR Capacitor Bank with 7% reactor.																							
	8 nos. 25 KVAR Capacitor Bank with 7% reactor.																							
	2 nos. 25 KVAR Capacitor Bank with 7% reactor..																							
	2 nos. 15 KVAR Capacitor Bank with 7% reactor.																							
	2 nos. 10 KVAR Capacitor Bank with 7% reactor.																							
	08 sets of push button stations Red and Green for manual operation of capacitor units with auto/manual selector switches.																							
	1 no Indicating lamp for each 50 / 25/20/10/5 KVAR capacitor unit to indicate that the unit is 'ON'.																							
	1 no Toggle switch for changing automatic to manual operation of capacitor units.																							
	Power factor metre.																							
	01 set of 100 Amps Active Harmonic Filter:																							
	Active Filter shall have the following components.																							
	Required IGBTs																							
	IGBT base active technology																							
	Gate driver, Interfacing and other control cards																							
	Heat Sinks																							
	Heavy duty cooling blowers/ fans with protection																							
	Voltage Sensing Cards & circuitry																							
	Current Transducers																							
	SMPS																							
	Solid State Relay																							
	Choke coil for interfacing IGBT with grid																							
	High Frequency & D C bus capacitors																							
	All required hardware's, softwares, protections, cards, inscription plates, Danger notice board etc., as required to be provided to complete the system																							
	MCCB, contactor and fuses of applicable rating and protections shall be provided for the active filter																							
	Programmable Microprocessor controller																							
	Instantaneous corrections of leading & lagging power factor & to keep the power factor nearer to unity																							
	Instantaneous corrections in current THD levels & maintain las per IEEE 519-92																							
	Three phase (non-neutral) unbalance compensation																							
	Reduction in voltage distortions as a result of reduction in ITHD																							
	Reduction in surges caused by switching of Heavy Load reduce tripping effect on electronic devices																							
926	Capacitor Panel describe as above (PTTA Type panels are considered)	set	2	2	2	6.00																		
	Supply & Laying including end termination with brass compression gland and copper lugs.of following sizes of 1.1KV grade multicore copper conductor PVC insulated and PVC sheathed armoured control cable conforming to IS:7098 (Part-I) 1988, including end termination with brass compression gland and copper lugs.																							
927	4 core, 1.5 sqmm	metre	294	280	294	868.00																		
928	8 core, 1.5 sqmm	metre	231	220	231	682.00																		
929	12 core, 1.5 sqmm	metre	441	420	441	1302.00																		



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	11 KV H.T. CABLE:																						
	Supplying of 11 KV grade aluminium conductor, cross linked polyethylene (XLPE) insulated individual core screened, flat steel/strip armoured PVC sheathed cable complete as required.																						
930	3C x 300 sqmm, 11 KV XLPE	metre	74	0	70	144.00																	
931	3C x 240 sqmm, 11 KV XLPE	metre	48	0	46	94.00																	
	33 KV H.T. CABLE:																						
	Supplying of 33 KV grade aluminium conductor, cross linked polyethylene (XLPE) insulated individual core screened, flat steel/strip armoured PVC sheathed cable complete as required.																						
932	3C x 300 sqmm, 33 KV XLPE	metre	0	70	0	70.00																	
933	3C x 240 sqmm, 33 KV XLPE	metre	0	45	0	45.00																	
	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.																						
934	300 sq. mm	each	5	0	5	10.00																	
935	240 sq. mm	each	4	0	4	8.00																	
	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.																						
936	300 sq. mm	each	0	5	0	5.00																	
937	240 sq. mm	each	0	4	0	4.00																	
	HT CABLE LAYING:																						
	Laying of one number XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.																						
938	Above 120 sq. mm and upto 400 sq. mm	metre	122	115	116	353.00																	
	Laying of one number XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.																						
939	Upto 120 sq. mm	metre	25	10	0	35.00																	
940	Above 120 sq. mm and upto 400 sq. mm	metre	95	95	135	325.00																	
	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.																						
941	Above 120 sq. mm and upto 400 sq. mm	metre	80	80	75	235.00																	
942	Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	metre	6	6	6	18.00																	
943	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel at least 2 mm thick, vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	each	15	15	15	45.00																	
944	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	each	25	25	25	75.00																	



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958	Gate Light shall have circular LED post having housing made of pressure die-cast aluminium (including top canopy & pole mounting piece) with integrated optics & having Polyester powder coating in addition to a specific weathering resistance treatment. The dia of the post top shall be of the post top shall be minimum 450mm & height of minimum 200mm (including the pole mounting piece). The colour shall be RAL 7011 textured. The post top shall have non-yellowing transparent and textured polycarbonate diffuser, 1.5mm thick. It should have concentric circular radial pattern for reduced glare & even light distribution. The luminaire must have round symmetrical optics/distribution. The luminaire shall be IP66 rated (without any glue) & shall have IK10 rating. The luminaire shall use high performance LEDs having CCT of 3000K/4000K/5700 ° K/6500K, CRI ≥ 70 & SDCM ≤ 5. The luminaire shall deliver initial system lumen output of minimum 5000lumens & must have system luminous efficacy ≥ 110lm/w. The luminaire shall have Class-I electrical insulation & Serviceability of Class-B. The luminaire shall use BIS registered electronic driver having voltage range of 122V-277V with in-built surge protection of 4KV, THD≤10%. The driver shall have high cut-off (>325V ± 15V) & auto restart. The luminaire shall have in-built additional SPD of 10KV. The pole mounting piece shall be suitable for mounting on pole dia of 60mm.	each	4	4	2	10.00																				
	The luminaire shall be BIS registered. Luminaire manufacturer shall have In-house NABL accredited lab to conduct LM79, Type test as per IS10322 & "FAT" before dispatch as per IS 10322.																									
959	Supply and fixing LED 10W Post top lantern Gate light fitting Philips cat. no BGP151 LED2000/WW PSU 220-240V 7043 or equivalent with 4Mmetre height with 60mm dia pole.	each	27	27	16	70.00																				
	<b>12 metre HIGH MAST</b>																									
	Supply and erection of "METAL COATS", High Mast Lighting, 12 m., continuously tapered, polygonal cross section, proven in-tension design conforming to the standards, mast fabricated out of special steel conforming to BS-EN 1-025 or equivalent, cut and																									
	i) An inspection door with cover arrangement, vandal resistant, provided at the bottom housing the winch, cables, plug and socket.																									
	ii) A lantern carriage designed for mounting 6 nos. flood light with associate control gear boxes and lamps.																									
	iii) Raising / Lowering mechanism of lantern carriage assembly both mechanical and electrical by built-in control and double drum winch, self-sustaining type.																									
	iv) Head frame designed as a capping unit of the mast, welded steel construction, galvanized both internally and externally, pulley blocks made out of die cast aluminium alloy (LM-6) self lubricating bearings with SS shaft to facilitate smooth and maintain																									
	v) 3 point suspension systems by means of stainless steel wire rope AISI-316 grades 8mm, without any intermediate joint.																									
	vi) Electrical system with plug and socket.																									
	vii) Lighting finial.																									
	viii) Supply of template for casting foundation and foundation hardwares.																									
	ix) Supply of complete set of drawings for casting foundation including supply of service manual on completion of work.																									
	x) M.S. Control Box, weather proof design, with all electric pre-wired including provision of timer device for automatic switching on / switching off the lights, system designed for operation on 3 - phase 400/440V A/C																									
	xi) Foundation Cost for standard soil.																									
	xii) 1x200W MH integrated flood light 06nos (included).																									
	xiii) Twin Aviation light with GLS lamp (included).																									
	<b>SUPPORTS</b>																									
	i) Fan down rod-HEAVY DUTY																									
	ii) FAN CLAMP																									
	<b>AVIATION OBSTRUCTION LIGHT</b>																									

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960	Supply and fixing of AVIATION OBSTRUCTION LED TYPE LIGHT FITTING (K-LITE 6649)	each	2	1	0	3.00																			
	Supply and erection of 6 metre height Hot-dip galvanized Tubler street light pole with following arm with top dia 70 mm and bottom dia A/F 130 mm, made of 3mm thick sheet along with base plate of size 220 X 220 X 12 mm , small door opening for junction box mounting with MCB & connector, cement concrete of 1:3:6 including excavation, refilling and suitable size foundation bolts with template and all complete job as required.																								
961	Single arm, 1500mm	each	48	34	121	203.00																			
962	Double arm, 1500mm	each	13	1	9	23.00																			
963	Supplying and fixing 70 watt LED type street light with a nominal system lumen output of 5400 lumens and a minimum system efficacy of 100 lumen/watt. The luminaire shall have rated system lifetime of 50,000 burning hours at L70B50. The luminaire should have CCT 3000K/4000K/5700K/6500K and a CRI>70, SDCM<5. The luminaire shall meet IP66 and IK07 rating with THD<10% at full load, Wide operating Voltage(CLO) 100-270VAC, & PF>0.95 at full load and PF>0.9 at half load, electrical insulation class 1, interface to mains should be via 3C 1.0sqmm,0.5m- fying cable, T ambient 35°C. Inbuilt surge protection 4KV. The luminaire housing should be made of pressure die cast aluminium, lens and optical cover should be made of PC window. The total power consumption should not exceed 54W (including driver). The luminaire should have HV Cut off @ 325V/440V protection for 8 hrs. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters	each	76	36	139	251.00																			
	FEEDER PILLAR (OUTDOOR TYPE)-																								
964	Design, Manufacturing, Supply, Receiving, Unloading, Shifting, installation, testing & commissioning of cubicle type totally enclosed free standing type moisture, dust, vibration & weather proof outdoor type Floor Distribution Panel made out of 2.0 mm thick & front cover 1.6 mm thick CRCA sheet complete with following equipments, including digital ammetre with inbuilt ammetre selector switch, digital voltmeter with inbuilt voltmeter selector switch, indicating lamps, CT's, internal wiring with suitable size wires / cable, MS Angle stand for installation, RCC foundation, interconnection, painting complete as per specification & drawing.	each	2	2	2	6.00																			
965	Supply, installation, testing and commissioning of 1000Amps 4P ACB having microprocessor based programmable tripsetting for S/C, O/C & E/F protection complete with Phase indicating, Auto / manual Spring Charged & Trip indication Lamps, Multifunction metre for Volt, Current, KW, KVA & P.F, with suitable enclosure, connector / flange for rasing main etc..	set	2	2	2	6.00																			
	<b>Sub Head 44 : Earthing &amp; Lightning Protection</b>																								
966	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	set	46	46	46	138.00																			
967	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	set	46	46	46	138.00																			
968	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	set	45	45	45	135.00																			
969	Providing and fixing 25 mm x 5 mm copper strip on surface or in recess for connections etc. as required.	metre	400	400	680	1480.00																			
970	Providing and fixing earth bus of 50 mm x 5 mm copper strip on surface for connections etc. as required.	metre	162	162	162	486.00																			

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971	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required	metre	6212	6212	6212	18636.00																			
972	Providing and fixing 50 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required	metre	336	346	356	1038.38																			
973	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	metre	900	900	900	2700.00																			
974	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing etc. as required.	metre	450	450	450	1350.00																			
975	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	metre	100	102	100	302.00																			
976	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	each	2	2	2	6.00																			
977	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run)	metre	300	306	300	906.00																			
978	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For Vertical run)	metre	200	204	200	604.00																			
979	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	each	10	10	10	30.00																			
980	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	metre	420	428	420	1268.00																			
981	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	set	7	7	7	21.00																			
982	Providing and fixing 6.00 mm dia copper wire on surface or in recess for loop earthing as required.	set	1123	1123	1123	3369.00																			
983	Providing and fixing 10.00 mm dia copper wire on surface or in recess for loop earthing as required.	set	107	107	10	224.00																			
984	Supply, Installation, Testing & Commissioning of Earthing Junction Box size - 400mm x 300mm x 80mm made out of 16 SWG CRCA sheet with seven tank process & powder coating, earthing link (32mm x 6mm copper strip with suitable knockout holes) front door with glass as complete as required.	set	10	10	10	30.00																			
<b>Sub Head 45 : Photo Voltaic On Grid Solar Work</b>																									



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985	Supply, Installation, Testing and Commissioning of ongrid Solar Photovoltaic Power Plant conforming to MNRE specifications as amended, consisting of Mono/Poly Crystalline silicon solar cells, net metreing facility, necessary protections, earthing, mounted on Aluminium/GI structure of suitable strength with following components complete as required:- a) Solar Photovoltaic Module of capacity 330 Wp or above, manufactured in India, conforming to IS 14286/IEC 61215, IS/IEC 61730-Part-1, IS/IEC 61730-Part-2. Solar Photovoltaic Module conversion efficiency shall not be less than 16.5%. PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years. b) Power Conditioning Unit (PCU) of 350-800 V DC Input voltage range and 400 V AC, three phase, 4 wire, 50Hz +/- 2.5 Hz, output voltage suitable to generate AC Power with efficiency not less than 97%, total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 degree C. The PCU shall adjust the voltage and frequency level to suit the Grid Voltage Frequency. c) Data Monitoring System complete with accessories.	KWp	125	125	125	375.00																					
	d) Fixing of Array junction box & Main junction box with IP 65 protection and termination arrangement for incoming and outgoing cable along with glands, lugs and other accessories etc. as required. e) Lightning and surge voltage protection. f) Connections & Interconnections by supplying & fixing required size XLPE insulated copper conductor 1.1 kV grade armoured power and control cables between solar modules, main power cable to grid supply PCU unit along with supplying & fixing of necessary channel/conduit lugs and other accessories etc. as required.																										
<b>Sub Head 46 : Internal Electrification</b>																											
	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface / recessed medium Class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc. as required.																										
986	Group C	Point	2465	2473	2245	7183.00																					
987	Wiring for twin control light point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface / recessed medium Class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	57	42	37	136.00																					
	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.																										
988	Group C	Point	2170	2159	2094	6423.00																					
989	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	each	402	408	377	1187.00																					
990	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	each	395	406	483	1284.00																					
991	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	each	1257	1264	1158	3679.00																					
992	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.	each	5	2	5	12.00																					



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993	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	each	10	2	10	22.00																		
994	Supplying and fixing 30 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	each	7	4	7	18.00																		
995	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel/PVC conduit alongwith 1 no 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	metre	10	25	10	45.00																		
996	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel/PVC conduit alongwith 2 nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	metre	393	389	396	1178.00																		
	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required																							
	CIRCUIT / SUBMAIN WIRING																							
997	2x1.5 sq mm + 1x1.5 sq mm earth wire	metre	18042	18015	13560	49617.00																		
998	2x2.5 sq mm + 1x2.5 sq mm earth wire	metre	15000	14908	20435	50343.00																		
999	2x4 sq mm + 1x4 sq mm earth wire	metre	31516	31505	23765	86786.00																		
1000	2x6 sq mm + 1x6 sq mm earth wire	metre	2886	2886	823	6595.00																		
1001	2x10 sq mm + 1x6 sq mm earth wire	metre	150	150	150	450.00																		
1002	2x16 sq mm + 1x6 sq mm earth wire	metre	25	26	20	71.00																		
1003	4x2.5 sq mm + 2x2.5 sq mm earth wire	metre	20	21	24	65.00																		
1004	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	metre	425	446	425	1296.00																		
1005	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	metre	515	541	515	1571.00																		
1006	4x10 sq mm + 2x6 sq mm earth wire.	metre	712	748	712	2172.00																		
1007	4x16 sq mm + 2x6 sq mm earth wire.	metre	25	21	10	56.00																		
	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.																							
1008	5/6 A switch	each	74	34	79	187.00																		
1009	2 way 5/6 A switch	each	7	3	10	20.00																		
1010	15/16 A switch	each	840	816	617	2273.00																		
1011	3 pin 5/6 A socket outlet	each	7	2	10	19.00																		
1012	6 pin 15/16 A socket outlet	each	192	187	253	632.00																		
1013	Telephone socket outlet	each	9	4	10	23.00																		
1014	TV antena Socket Outlet	each	25	26	25	76.00																		
1015	Bell push	each	10	8	9	26.80																		
	Supplying and fixing following size/ modules, GI box along with modular base and cover plate for modular switches in recess etc as required.																							
1016	1 or 2 Module (75mmX75mm)	each	316	316	316	948.00																		
1017	3 Module (100mmX75mm)	each	15	15	15	45.00																		
1018	4 Module (125mmX75mm)	each	12	12	12	36.00																		
1019	6 Module (200mmX75mm)	each	11	11	11	33.00																		

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1020	8 Module (125mmX125mm)	each	1	1	1	3.00																	
1021	12 Module (200mmX150mm)	each	9	2	10	21.00																	
1022	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	each	10	6	10	26.00																	
1023	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	metre	2000	2000	2000	6000.00																	
	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.																						
1024	20 mm dia	metre	5557	5557	5200	16314.00																	
1025	25 mm dia	metre	8771	8771	8300	25842.00																	
1026	32 mm dia	metre	1359	1359	1250	3968.00																	
1027	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	each	7	5	7	19.00																	
1028	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	each	272	271	272	815.00																	
1029	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	each	20	20	20	60.00																	
	Supplying and fixing of following sizes of STEEL conduit along with the accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.																						
1030	20mm dia	metre	20	20	25	65.00																	
1031	25mm dia	metre	35	15	30	80.00																	
1032	32mm dia	metre	50	30	15	95.00																	
II	<b>Sub Head 47 : Distribution Board</b>																						
	MCB DB																						
	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)																						
1033	8 way Double Door	each	18	18	24	60.00																	
1034	12 way Double Door	each	22	24	1	47.00																	
1035	16 way, Double door	each	1	2	1	4.00																	
	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)																						
1036	4 way ( 4 + 12 ), double door	each	12	11	3	26.00																	
1037	6 Way (4+18), Double Door	each	52	52	14	118.00																	
1038	8 Way (4+24), Double Door	each	27	27	33	87.00																	
	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer ) as required . (note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)																						
1039	12 way ( 4 + 36 ), Double door	each	11	22	45	78.00																	

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	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.																						
1040	Single pole	each	2688	2676	2940	8304.00																	
1041	Triple pole and neutral	each	2	2	2	6.00																	
1042	Double pole	each	1	3	5	9.00																	
1043	Triple pole	each	3	5	5	13.00																	
	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.																						
1044	40 Amp Double Pole	each	3	4	4	11.00																	
1045	63 Amp Double Pole	each	5	4	5	14.00																	
	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.																						
1046	40 A	each	3	2	5	10.00																	
1047	63 A	each	2	2	4	8.00																	
	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 30 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.																						
1048	25 Amps	each	10	1	2	13.00																	
1049	40 Amps	each	374	371	330	1075.00																	
1050	63 Amps	each	2	2	5	9.00																	
	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.																						
1051	25 Amps	each	8	8	8	24.00																	
1052	40 Amps	each	18	8	10	36.00																	
1053	63 Amps	each	114	114	95	323.00																	
	DISTRIBUTION PANEL (L.T. PANEL)																						
	Design, Manufacturing, Supply, Receiving, Unloading, Shifting, installation, testing & commissioning of cubicle type totally enclosed free standing type moisture, dust and vermin proof Distribution Panel made out of 2.0 mm thick & front cover 1.6 mm thick CRCA sheet complete with following equipments including internal wiring with suitable size wires / cable, interconnection, painting complete as per specification & drawing. All the incoming and outgoing MCCB shall have 36 KA Ics. All the MCCB up to 250 Amp shall have thermal release with adjustable overload and short circuit protection and above shall have microprocessor release with adjustable overload, short circuit & earthfault protection.																						
	P + AHU PANEL																						
	INCOMING																						
	1 no 400 Amp FP Moulded Case Circuit Breaker																						
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																						
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	1 no 400 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 400/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	1 no Fixed type Automatic transfer switch 630 Amp rating in open frame with live to live transfer. The ATS should have complete switching neutral with zero position having positive isolation and on load manual operation complying to IEC 60947-3 and IEC 60947-6-1. The control unit shall be integral part of the ATS.																						
	BUS BAR																						
	400 Amp TPN aluminium bus bar with heat shrinkable insulation sleeve																						



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	(PTTA Type panels are considered)																						
	All MCCB's shall be of 35 KA breaking capacity.																						
1056	P + AHU Panel described as above	set	3	3	3	9.00																	
	LIFT WELL, LIFT LOBBY & STAIRCASE PRESSU. PANEL																						
	INCOMING																						
	1 no 200 Amp FP Moulded Case Circuit Breaker																						
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																						
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	1 no 200 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 200/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	1 no Fixed type Automatic transfer switch 200 Amp rating in open frame with live to live transfer. The ATS should have complete switching neutral with zero position having positive isolation and on load manual operation complying to IEC 60947-3 and IEC 60947-6-1. The control unit shall be integral part of the ATS.																						
	BUS BAR																						
	200 Amp TPN aluminium bus bar with heat shrinkable insulation sleeve																						
	OUTGOING																						
	15 nos 32 Amp TPN Moulded Case Circuit Breaker																						
	1 Lot of control / power wiring.																						
	(PTTA Type panels are considered)																						
	All MCCB's shall be of 35 KA breaking capacity.																						
1057	Lift Pressu Panel described as above	set	1	1	1	3.00																	
	LIGHTING PANEL-G to 6																						
	INCOMING																						
	1 no 125 Amp FP Moulded Case Circuit Breaker																						
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																						
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	1 no 125 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 125/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	1 no Fixed type Automatic transfer switch 125 Amp rating in open frame with live to live transfer. The ATS should have complete switching neutral with zero position having positive isolation and on load manual operation complying to IEC 60947-3 and IEC 60947-6-1. The control unit shall be integral part of the ATS.																						
	BUS BAR																						
	125 Amp TPN aluminium bus bar with heat shrinkable insulation sleeve																						
	OUTGOING																						
	10 nos 63 Amp TPN Moulded Case Circuit Breaker																						
	04 nos 32 Amp TPN Moulded Case Circuit Breaker																						
	1 Lot of control / power wiring.																						
	(PTTA Type panels are considered)																						



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	All MCCB's shall be of 35 KA breaking capacity.																						
1058	Lighting Panel described as above	set	7	7	7	21.00																	
	UPS PANEL-1 to 7																						
	INCOMING																						
	1 no 125 Amp FP Moulded Case Circuit Breaker																						
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																						
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	1 no 250Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 250/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	1 no Fixed type Automatic transfer switch 320 Amp rating in open frame with live to live transfer. The ATS should have complete switching neutral with zero position having positive isolation and on load manual operation complying to IEC 60947-3 and IEC 60947-6-1. The control unit shall be integral part of the ATS.																						
	BUS BAR																						
	250 Amp TPN aluminium bus bar with heat shrinkable insulation sleeve.																						
	OUTGOING																						
	06 nos 63 Amp FP Moulded Case Circuit Breaker																						
	01 no 63 Amp TPN Moulded Case Circuit Breaker																						
	1 Lot of control / power wiring.																						
	(PTTA Type panels are considered)																						
	All MCCB's shall be of 35 KA breaking capacity.																						
1059	UPS Panel described as above	set	6	6	6	18.00																	
	INCOMING																						
	1 no 250 Amp FP Moulded Case Circuit Breaker																						
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																						
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	1 no 200 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 250/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	1 no Fixed type Automatic transfer switch 250 Amp rating in open frame with live to live transfer. The ATS should have complete switching neutral with zero position having positive isolation and on load manual operation complying to IEC 60947-3 and IEC 60947-6-1. The control unit shall be integral part of the ATS.																						
	BUS BAR																						
	200 Amp TPN aluminium bus bar with heat shrinkable insulation sleeve.																						
	OUTGOING																						
	05 nos 63 Amp FP Moulded Case Circuit Breaker																						
	04 nos 63 Amp TPN Moulded Case Circuit Breaker																						
	1 Lot of control / power wiring.																						
	(PTTA Type panels are considered)																						
1060	All MCCB's shall be of 35 KA breaking capacity.	set	1	1	1	3.00																	
	UPS Panel described as above																						



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	LIFT PANEL - TERRECE FLOOR (MAIN BLOCK)																				
	INCOMING																				
	2 nos 250 Amp FP Moulded Case Circuit Breaker.																				
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																				
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																				
	1 no 250 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 160/5 amps 15 VA, CL 1 secondary CTs to measure and display.																				
	1 no Fixed type Automatic transfer switch 250 Amp rating in open frame with live to live transfer. The ATS should have complete switching neutral with zero position having positive isolation and on load manual operation complying to IEC 60947-3 and IEC 60947-6-1. The control unit shall be integral part of the ATS.																				
	BUS BAR																				
	250 Amp TPN aluminium bus bar with heat shrinkable insulation sleeve																				
	OUTGOING																				
	10 nos 63 Amp TPN Moulded Case Circuit Breaker																				
	1 Lot of control / power wiring. (PTTA Type panels are considered)																				
	All MCCB's shall be of 35 KA breaking capacity.																				
1061	Lift Panel described as above	set	1	1	1	3.00															
	EMERGENCY LIGHT PANEL- (MAIN BLOCK)																				
	INCOMING																				
	1 no 63 Amp FP Moulded case Circuit Breaker																				
	1 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																				
	1 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																				
	1 no 63 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 63/5 amps 15 VA, CL 1 secondary CTs to measure and display.																				
	BUS BAR																				
	100 Amp FP copper busbar with heat shrinkable insulation sleeve.																				
	OUTGOING																				
	18 nos 25 Amp DP Miniature Circuit Breaker																				
	05 nos 40A DP Miniature Circuit Breaker.																				
	01 no 40A FP Miniature Circuit Breaker.																				
	1 Lot of control / power wiring. (PTTA Type panels are considered)																				
	All MCCB's shall be of 35 KA breaking capacity.																				
1062	Emergency Light Panel described as above	set	1	1	1	3.00															
	MAIN UPS PANEL- (2 x 160 KVA) - MAIN BLOCK																				
	INCOMING																				
	02 nos 800Amp FP Moulded Case Circuit Breaker																				
	02 nos 630Amp FP Moulded Case Circuit Breaker																				
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																				

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)		
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	2 nos 630 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 nos. 630/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	BUS BAR 1000 Amp TPN Copper bus bar with heat shrinkable insulation sleeve.																						
	OUTGOING																						
	03 nos 1000 Amp FP Air Circuit Breaker																						
	03 nos 125 Amp FP Moulded Case Circuit Breaker																						
	03 nos 63 Amp FP Moulded Case Circuit Breaker																						
	1 Lot of control / power wiring. (PTTA Type panels are considered)																						
	All MCCB's shall be of 50 KA breaking capacity.																						
1063	Main UPS Panel described as above	set	1	1	1	3.00																	
	UPS PANEL- SERVER ROOM																						
	INCOMING																						
	01 no 63 Amp FP Moulded Case Circuit Breaker																						
	1 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																						
	1 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	1 no 63 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 63/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	BUS BAR 100 Amp FP Copper bus bar with heat shrinkable insulation sleeve.																						
	OUTGOING																						
	02 nos 63 Amp FP Moulded Case Circuit Breaker																						
	01 no25 Amp DP Miniature Circuit Breaker																						
	01 no40 Amp DP Miniature Circuit Breaker																						
	1 Lot of control / power wiring. All MCCB's shall be of 35 KA breaking capacity.																						
1064	UPS Panel - (Server) described as above	set	1	1	1	3.00																	
	RADIOLOGIST PANEL																						
	INCOMING																						
	2 nos 630 Amp FP Moulded Case Circuit Breaker.																						
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																						
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	1 no 630 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 630/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	1 no Fixed type Automatic transfer switch 630 Amp rating in open frame with live to live transfer. The ATS should have complete switching neutral with zero position having positive isolation and on load manual operation complying to IEC 60947-3 and IEC 60947-6-1. The control unit shall be integral part of the ATS.																						

SL. no	Description of Item	Unit	Quantity				Rate			Amount											
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total		
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
	BUS BAR																				
	630 Amp TPN aluminium bus bar with heat shrinkable insulation sleeve.																				
	OUTGOING																				
	02 nos 160 Amp FP Moulded Case Circuit Breaker																				
	04 nos 125 Amp FP Moulded Case Circuit Breaker																				
	1 Lot of control / power wiring. (PTTA Type panels are considered)																				
	All MCCB's shall be of 35 KA breaking capacity.																				
1065	RADIOLOGIST PANEL described as above	set	1	1	1	3.00															
	UTILITY PANEL																				
	INCOMING																				
	1 no 160 Amp FP Moulded Case Circuit Breaker																				
	1 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																				
	1 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																				
	1 no 160 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 160/5 amps 15 VA, CL 1 secondary CTs to measure and display.																				
	BUS BAR																				
	160 Amp TPN aluminium busbar with heat shrinkable insulation sleeve.																				
	OUTGOING																				
	04 nos 125 Amp FP Moulded Case Circuit Breaker																				
	02 nos 63 Amp TPN Miniature Circuit Breaker																				
	1 Lot of control / power wiring. (PTTA Type panels are considered)																				
	All MCCB's shall be of 35 KA breaking capacity.																				
1066	Utility Panel described as above	set	1	1	1	3.00															
	EXTERNAL LIGHTING PANEL																				
	INCOMING																				
	1 no 63 Amp FP (10 KA Ics) Moulded Case Circuit Breaker.																				
	1 no 0 to 500 Volt digital voltmeter with inbuilt selector switch.																				
	1 no 63 Amp digital ammeter with inbuilt selector switch and CT's.																				
	1 set of phase indicating lamps with Single Pole MCB.																				
	1 set of ON / OFF indicating lamps with Single Pole MCB.																				
	1 set 24 Hrs TSQ Timer																				
	1 set 63 Amp, 4P Contactor & A/M switch and Push Button.																				
	BUS BARS																				
	100 Amp TPN aluminium busbar.																				
	OUTGOING																				
	12 nos 25 Amp DP MCB.																				
	04 nos 40 Amp DP MCB.																				
	04 nos 40 Amp FP MCB.																				
1067	Panel described as above	set	1	1	1	3.00															

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			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total				
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)		
	PHE PANEL																						
	INCOMING																						
	1 no 125 Amp FP Moulded Case Circuit Breaker.																						
	2 set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																						
	2 set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																						
	1 no 125 Amps Digital MFM metre with CT's metre with RS 485 port and should communicate on Modbus RTU with 3 no. 630/5 amps 15 VA, CL 1 secondary CTs to measure and display.																						
	1 no Fixed type Automatic transfer switch 125 Amp rating in open frame with live to live transfer. The ATS should have complete switching neutral with zero position having positive isolation and on load manual operation complying to IEC 60947-3 and IEC 60947-6-1. The control unit shall be integral part of the ATS.																						
	BUS BAR																						
	125 Amp TPN aluminium bus bar with heat shrinkable insulation sleeve.																						
	OUTGOING																						
	9 nos 25 Amp TPN Moulded Circuit Breaker																						
	1 Lot of control / power wiring.																						
	All MCCB's shall be of 15 KA breaking capacity.																						
1068	Fire PHE Panel described as above	set	1	1	1	3.00																	
	MCCB BOXES																						
	Supply, installation, testing & commissioning of MCCB in Sheet Steel enclosure made out of 2 mm thick CRCA sheet suitable for 3 phase 4 wire 50Hz AC system complete with four pole Moulded Case Circuit Breaker suitable for incoming & outgoing termination including power coating etc. complete as per specification & as required.																						
1069	630 Amp FP MCCB	set	1	1	1	3.00																	
1070	400 Amp FP MCCB	set	1	1	1	3.00																	
1071	250 Amp FP MCCB	set	1	1	1	3.00																	
1072	160 Amp FP MCCB	set	1	1	1	3.00																	
1073	125 Amp FP MCCB	set	2	2	2	6.00																	
1074	100 Amp FP MCCB	set	4	4	4	12.00																	
1075	63 Amp FP MCCB	set	10	6	10	26.00																	
1076	50 Amp FP MCCB	set	5	5	5	15.00																	
	RISING MAINS & BUSDUCT																						
	RISING MAIN-																						

SL. no	Description of Item	Unit	Quantity				Rate			Amount												
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total			
	Supplying, installing by suspension on ceiling, testing and commissioning of following capacity Sandwich Type Rising Mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 no aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every rm, adopter box and copper flexible for joints, continuous earthing with 2 no aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required. Wherever End Feed Unit not proposed, the Rising Main shall be suitable for bus bar link for connecting directly to the Panel/Equipment located in same Electrical Room/Substation. (The Rising Main shall be comply with NIT specification)																					
1077	400 A, lsc= 25kA for 1 sec	metre	70	70	70	210.00																
1078	800 A, lsc= 50kA for 1 sec	metre	70	70	70	210.00																
1079	1000 A, lsc= 50kA for 1 sec	metre	70	70	70	210.00																
	END FEED UNIT-																					
	Supplying, installation, testing & commissioning of following capacity End Feed Unit for the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.																					
1080	400 A, lsc= 30kA for 1 sec	set	2	2	2	6.00																
1081	800 A, lsc= 50kA for 1 sec	set	2	2	2	6.00																
1082	1000 A, lsc= 50kA for 1 sec	set	2	2	2	6.00																
	TAP OFF UNIT																					
	Supplying, installation, testing & commissioning of following capacity Plug In/ tap off box on the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete etc. as required.																					
1083	125 A, lsc= 15kA for 1 sec	each	26	22	18	66.00																
1084	200 A, lsc= 25kA for 1 sec	each	4	2	8	14.00																
1085	250 A, lsc= 30kA for 1 sec	each	12	12	18	42.00																
1086	400 A, lsc= 35kA for 1 sec	each	2	2	2	6.00																
	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.																					
1087	100 A, 16 KA,FP MCCB	each	1	1	3	5.00																
1088	150 A, 16 KA,TPMCCB	each	29	25	18	72.00																
1089	200 A.36KA.FPMCCB	each	4	2	8	14.00																
1090	250 A.36KA.FPMCCB	each	14	14	18	46.00																
1091	250 A.50KA.FPMCCB	each	4	2	2	8.00																
1092	400 A.50KA.FPMCCB	each	2	2	2	6.00																
1093	800 A.50KA.TPMCCB	each	2	2	2	6.00																
	BUSDUCT																					

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
1094	Supply and erection of Busbar Trunking-3 Ph., 4-wire, 415V, 50-Hz. Busduct shall be fabricated out of 14 SWG CRCA Sheet with adequate sizing, double earthing and ventilation grills, vermin proof Degree of protection IP-55 Busbar Rating - Electrolytic grade Aluminium 2500A.TPN (From TRANSFORMER & DG to MV panel)	metre	70	70	70	210.00																			
III	<b>Sub Head 48 : Light Fixtures &amp; Fans</b>																								
1095	Supplying and fixing brass batten/ angle holder including connection etc. as required.	each	10	5	8	23.00																			
1096	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc as required.	each	217	217	116	550.00																			
1097	Installation of exhaust fan upto 450mm in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc as required.	nos	2	8	0	10.00																			
1098	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	each	221	234	225	680.00																			
1099	Supply, Testing & Commissioning of 300 mm, 230 v A.C. exhaust fan in the existing opening including making good the damage, connection testing, commissioning etc as required.	nos	117	117	125	359.00																			
1100	Supply, Testing & Commissioning of 150 mm, 230 v A.C. exhaust fan in the existing opening including making good the damage, connection testing, commissioning etc as required.	nos	104	117	121	342.00																			
1101	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 no. blades, 30 cm long down rod, 2 no. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	nos	217	217	114	548.00																			
1102	Supply, Installation, Testing & Commissioning of 400 mm, 230 v A.C.wall/cabin fan including fixing the bracket, making connection etc as required.	nos	372	371	398	1141.00																			
1103	Supply, Installation, Testing & Commissioning of IP20 Recessed 10W LED Downlighter made of pressure die cast aluminum housing, Fixture should have minimum efficacy at System level (not Chip Level) >=110 lumens/watt with Minimum system Lumens 1000 with maximum system wattage of 9W. Life of fixture (Including Driver) : 50000 burning Hrs. @ L70B50 Lumen maintenance, CCT of 300K/4000K/5700K/6500K (SDCM<S), CRI >80, PF >0.95, working temp range - 0°C < Ta < 45°C, and operating Voltage Range of 240 VAC. It should has a Minimum Internal Surge Protection of 2.5KV. Electronic Switchable ballast. The fixture design should comply with EMC / EMI compliance along with BIS certification for LED Driver & Luminaire.Luminaire manufacture shall provide LM79report from NABL accredited lab & LM80 report issued by LED manufacturer.	nos	131	132	164	427.00																			



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			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
1104	Supply Installation, testing & commissioning of Integral Mirror light LED 2 ft luminaire made of CRCA housing and PC diffuser (Diffuser-non yellowing type). The luminaire should have a LEDs with colour consistency $SDCM \leq 5$ , $CRI \geq 80$ and CCT of 3000K/4000K/5700K/6500K. Luminaire shall be designed to emit at least minimum 2000 system lumens at a system efficacy of at-least 120 lumen/watt. Power consumption should not be more than 12W ( $\pm 5\%$ ). The Life of fixture (Including Driver):50000 burning Hrs. @ L70B50 Lumen maintenance @ design ambient temp 45 deg C. The electronic driver used shall have a power factor $\geq 0.95$ and THD $\leq 10\%$ , suitable for an operating voltage range of 140-270V AC, Current Ripple $\leq 5\%$ , Internal surge protection should be minimum 4KV, electrical insulation class should be Class I & driver should be of Class B serviceability. The luminaire shall be IP20 & IK02 compliant. The minimum dimensions ( $\pm 5mm$ ) of the batten shall be 44mm( $\pm 5mm$ ) X 51mm( $\pm 5mm$ )X 585mm( $\pm 5mm$ ). Luminaire manufacturer must have NABL accredited lab to conduct LM79, Type test as per IS10322 & "FAT" before dispatch as per IS 10322. The the successful bidder must submit the NABL accreditation certificate for Luminaire manufacturer along with Technical bid. The LED Luminaire & it's driver both should be BIS registered.	nos	82	91	98	271.00																		
1105	Supply, Installation, Testing & Commissioning of 18W to 22W LED downlight recess IP20 Downlighter made of pressure die cast aluminum housing, Fixture should have minimum efficacy at System level (not Chip Level) $\geq 110$ lumens/watt with Minimum system Lumens 1500 with maximum system wattage of 13.5W. Life of fixture (Including Driver) : 50000 burning Hrs. @ L70B50 Lumen maintenance, CCT of 3000K/4000K/5700K/6500K ( $SDCM < 5$ ), $CRI > 80$ , $PF > 0.95$ , working temp range - $0^\circ C < Ta < 45^\circ C$ , and operating Voltage Range of 240 VAC. It should has a Minimum Internal Surge Protection of 2.5KV. Electronic Switchable ballast. The fixture design should comply with EMC / EMI compliance along with BIS certification for LED Driver & Luminaire.Luminaire manufacture shall provide LM79report from NABL accredited lab & LM80 report issued by LED manufacturer.	nos	171	183	252	606.00																		
1106	Supply, Installation, Testing & Commissioning of surface mounted Linear Batten 40W 4ft luminaire of CRCA housing and PC diffuser (Diffuser-non yellowing type). The luminaire should have a color consistency $SDCM \leq 5$ , $CRI \geq 80$ and CCT of 3000K/4000K/5700K/6500K.The luminaire shall be compliant with IP20 classification. Luminaire shall be designed to emit at least 4000 nominal lumens at a system efficacy of minimum 120 lumen/watt. Power consumption should not be more than 36W. The luminaire shall have $CRI \geq 80$ . The Life of fixture (Including Driver):50000 burning Hrs. @ L70B50 Lumen maintenance @ design ambient temp 45 deg C. The electronic driver used shall have a power factor $\geq 0.95$ @ full load and THD $\leq 10\%$ @ full load and suitable for an operating voltage range of 140-270V AC. Ripple $\leq 5\%$ and surge protection should be minimum 4KV, electrical insulation class should be Class I & driver should be of Class B serviceability. Driver should have high & low voltage cut off with auto restart @140-270V. The LED driver should comply to IEC61000-3-2 ed.3.2, 2009 for Harmonics, IEC61347 -2 -13, 2006 in Conjunction with IEC61347-1 ed.2.0, 2007 for Electrical Safety, CISPR 15/ EN 55015 (9 KHz to 30MHz) for RFI, EMI/EMC, IEC 62384 for driver performance test.	each	611	598	535	1744.00																		
	The luminaire driver shall be of the same make/manufacturer/brand as that of LED luminaires. The luminaire driver shall have efficiency of $\geq 85\%$ . The LED luminaire manufacturer should have NABL accredited lab to conduct type test, factory acceptance test.																							

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			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total		
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
1107	Supply, Installation, Testing & Commissioning of 36W to 40W 2X2 LED flat panel for surface mounting which provides soft-light and glare free symmetrical illumination.CRCA powder coated white after phosphochromate treatment and High transmittance polystyrene opal diffuser. High efficiency long life LED package in integral module with system lumen efficacy of >110 lm/W and viewing angle of 120 ° to ensure better uniformity.Powered by built-in Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other reliability test. CRI >80, Color temperature 3000K/4000K/5700K/6500K, THD <20% and PF >0.95,IP20, IK03.Lumen output of 4650 lumens.Life class of 50,000 hrs @ L70, Operating Temperature:-10 TO +45 DEG.C; Input Supply Voltage Range:140-270 V, Frequency :50-60 HZ; Internal Surge Protection:3 KV. The luminaire shall be designed so as to ensure L70B50 @ 30K Hrs.@ 45 Degree Ambient. The electronic driver used shall have a power factor >0.95 and THD <10% The fixture should comply with the params as per IS10322. Similar to SM367 LED42S-6500 G6 L54W54 PSU OD	each	891	922	882	2695.00															
1108	Supply, Installation, Testing and Commissioning of integral driver LED 5W wall light with a system lumen output of 40 lumens and a minimum system efficacy of 10 lm/W. The luminaire shall have a rated system lifetime of 25,000 burning hours at L70. The luminaire should have a color temperature of 3000K/4000K/5700K/6500K and CRI > 75. The luminaire shall meet IP67 rating with THD < 20% and PF > 0.9. The luminaire shall have polycarbonate diffuser.	each	16	16	0	32.00															
1109	Supply, Installation, Testing & Commissioning of 20W wall mounted 4ft luminaire of CRCA housing and PC diffuser (Diffuser-non yellowing type). The luminaire should have a LEDs with colour consistency SDCM ≤ 5, CRI ≥ 80 and CCT of 3000K/4000K/5700K/6500K. Luminaire shall be designed to emit at least 2000 nominal lumens at a system efficacy of at-least 120 lumen/watt. Power consumption should not be more than 16W (±5%). The Life of fixture (Including Driver):50000 burning Hrs. @ L70B50 Lumen maintenance @ design ambient temp 45 deg C. The electronic driver used shall have a power factor ≥0.95 and THD ≤10%, suitable for an operating voltage range of 140-270V AC, Current Ripple ≤5%, Internal surge protection should be minimum 4KV, electrical insulation class should be Class I & driver should be of Class B serviceability.The luminaire should be at least IP20 & IK02 rated. Luminaire manufacturer must have In-house NABL accredited lab to conduct LM79, Type test as per IS10322 & "FAT" before dispatch as per IS 10322. The LED Luminaire & it's driver both should be BIS registered.	nos	220	257	288	765.00															
1110	Supply, Installation, Testing & Commissioning of 20W 2X2 Recess LED flat panel for which provides soft-light and glare free symmetrical illumination.CRCA powder coated white after phosphochromate treatment and High transmittance polystyrene opal diffuser. High efficiency long life LED package in integral module with system lumen efficacy of >95 lm/W and viewing angle of 120 ° to ensure better uniformity.Powered by built-in Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other reliability test. CRI >80, Color temperature 3000K/4000K/5700K/6500K, THD <20% and PF >0.95,IP20, IK03.Lumen output of 2400 lumens.Life class of 50,000 hrs @ L70, Operating Temperature:-10 TO +45 DEG.C; Input Supply Voltage Range:140-270 V, Frequency :50-60 HZ; Internal Surge Protection:3 KV.	nos	964	988	815	2767.00															
1111	Supply, Installation, Testing & Commissioning of Surface mounted 10/12 watt LED type Bulk-head fitting 1100lm made up of pressure die-cast aluminium housing and Polyester Powder coated with High quality polycarbonate diffuser in opal finish for glare free light distribution.High efficiency long life LED module with SMD LED package efficacy of >110 lm/W. Powered by integral electronic LED driver with CCT 3000K/4000K/5700K/6500K, CRI>80,THD<10%, PF>0.9, IP66, IK 09, Life class of 50,000 hrs @ L70, Operating Temperature: 0 TO +45 DEG.C; Input Supply Voltage Range:140-270 V, Frequency :50-60 HZ. Driver Safety requirement standards-IS 15885, Test Report to be submitted, Photobiological Safety norms: IS 16108, test Certificate to be submitted, Certification: LM79 for Luminaire, Lm80 for LED Source.	nos	138	138	114	390.00															

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)																			
1112	Supply, Installation, Testing & Commissioning of Surface mounted 10 watt LED vertical downlighter having dia of 130mm(± 3mm) & height of 60mm(± 3mm) delivering minimum system lumen output of 1000 lumens (±5%) and system wattage of 10W (±5%) & with a minimum system efficacy of 100 lm/W. The luminaire should have a color temperature of 3000K/4000K/5700K/6500°K, CRI≥80 and SDCM≤5. The driver shall have THD≤10% (@full Load) and PF ≥ 0.95 (@full load). The luminaire housing should made of pressure die-cast aluminum. The fixture should comply with the pararms as per IS10322. The luminaire shall have impact resistance of IK02 & ingress protection of IP20. Luminaire manufacturer must have In-house NABL accredited lab to conduct LM79, Type test as per IS10322 & "FAT" before dispatch as per IS 10322. The the successful bidder must submit the NABL accreditation certificate for Luminaire manufacturer along with Technical bid. The LED Luminaire should be BIS registered.	nos	160	160	152	472.00																																		
1113	Supply, Installation, Testing & Commissioning of Recess mounted 70 watt LED High bay vertical downlighter complete with all accessories and replaceable electronic driver, directly on false ceiling including connection with 1.5 sqmm FR PVC insulated copper conductor cable and earthing the body etc. as required.	each	34	34	33	101.00																																		
1114	Supplying, Installation, Testing and Commissioning of Microwave technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10Amp, for mounting height up to 2.6 m and for 5m X 20m coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.	each	2	2	0	4.00																																		
1115	Supply, Installation, Testing & Commissioning of Aviation obstruction light with Light Emitting Diodes (LEDs) similar to Bajaj make cat no BGAV 302 LED or its equivalent as per approved list of make complete with all accessories as required.	each	2	2	0	4.00																																		
IV	<b>Sub Head 49 : Cable, Cable Tray &amp; Termination</b>																																							
1	Supply, Installation, Testing & Commissioning of following sizes of 1.1KV grade multistranded copper conductor PVC insulated cable including termination complete as required in existing cable tray / existing conduit.																																							
1116	1C x 6 sqmm PVC Insulated cu wire including termination etc.	metre	26	29	25	80.00																																		
1117	1C x 10 sqmm PVC Insulated cu wire including termination etc.	metre	5	5	5	15.00																																		
1118	1C x 16 sqmm PVC Insulated cu wire including termination etc.	metre	7	7	7	21.00																																		
1119	1C x 25 sqmm PVC Insulated cu wire including termination etc.	metre	215	237	205	657.00																																		
1120	1C x 50 sqmm PVC Insulated cu wire including termination etc.	metre	21	23	21	65.00																																		
1121	1C x 95 sqmm PVC Insulated cu wire including termination etc.	metre	7	11	11	29.00																																		
1122	1C x 120 sqmm PVC Insulated cu wire including termination etc.	metre	315	347	309	971.00																																		
	Supply of following sizes of 1.1KV grade copper conductor XLPE insulated PVC sheathed (Heavy duty) armoured cable conforming to relevant IS. (Cable shall be purchased only after approval of cable schedule by architect / consultant).																																							
1123	4 core, 16 sq. mm. Cu. Armoured Cable	metre	408	408	350	1166.00																																		
1124	4 core, 10 sq. mm. Cu. Armoured Cable	metre	483	483	580	1546.00																																		
1125	4 core, 6 sq. mm. Cu. Armoured Cable	metre	1997	1997	1812	5806.00																																		
1126	3 core, 6 sq. mm. Cu. Armoured Cable	metre	5	20	0	25.00																																		
	Supply of following sizes of 1.1KV grade aluminium conductor XLPE insulated PVC sheathed (Heavy duty) armoured cable conforming to relevant IS. (Cable shall be purchased only after approval of cable schedule by architect / consultant).																																							
1127	4C x 2.5 sqmm.	metre	1730	1817	1029	4575.50																																		
1128	4C x 4 sqmm.	metre	257	257	230	744.00																																		
1129	4C x 6 sqmm	metre	1805	1805	3199	6809.00																																		
1130	4C x 10 sqmm	metre	1272	1272	490	3034.00																																		

SL. no	Description of Item	Unit	Quantity				Rate			Amount												
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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
1131	4C x 16 sqmm	metre	977	977	930	2884.00																
1132	3.5C x 25 sqmm	metre	9234	9234	6614	25082.00																
1133	3.5C x 35 sqmm	metre	473	473	450	1396.00																
1134	3.5C x 50 sqmm.	metre	569	569	715	1853.00																
1135	3.5C x 70 sqmm	metre	294	294	598	1186.00																
1136	3.5C x 95 sqmm.	metre	473	473	28	974.00																
1137	3.5C x 120 sqmm.	metre	133	133	63	329.00																
1138	3.5C x 150 sqmm.	metre	15	10	53	78.00																
1139	3.5C x 185 sqmm.	metre	1598	1598	1960	5156.00																
1140	3.5C x 240 sqmm.	metre	1911	1911	3525	7347.00																
1141	3.5C x 300 sqmm.	metre	3912	3912	5979	13803.00																
	Supply & making end termination with brass compression gland & aluminium lugs for following size of FRLS insulated and FRLS sheathed aluminium conductor cable of 1.1KV grade as required.																					
1142	2 X 6 sq. mm (19mm) For copper armoured cable	set	62	62	58	182.00																
1143	4 X 6 sq. mm (25mm) For copper armoured cable	set	66	66	58	190.00																
1144	4 X 10 sq. mm (25mm) For copper armoured cable	set	32	32	28	92.00																
1145	4 X 16 sq. mm (28mm) For copper armoured cable	set	17	17	15	49.00																
1146	4 X 25 sq. mm (28mm) For aluminium armoured cable	set	250	244	218	712.00																
1147	3.5 X 35 sqmm (32 mm) For aluminium armoured cable	set	11	11	9	31.00																
1148	3.5 X 50 sqmm (35 mm) For aluminium armoured cable	set	45	45	43	133.00																
1149	3½ X 70 sq. mm (38mm) For aluminium armoured cable	set	12	12	12	36.00																
1150	3½ X 95 sq. mm (45mm) For aluminium armoured cable	set	4	4	4	12.00																
1151	3½ X 120 sq. mm (45mm) For aluminium armoured cable	set	6	6	6	18.00																
1152	3.5 X 150 sqmm (50 mm) For aluminium armoured cable	set	4	5	4	13.25																
1153	3½ X 185 sq. mm (57mm) For aluminium armoured cable	set	53	53	52	158.00																
1154	3½ X 240 sq. mm (63mm) For aluminium armoured cable	set	33	33	31	97.00																
1155	3½ X 300 sq. mm (70mm) For aluminium armoured cable	set	55	55	52	162.00																
	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.																					
1156	Upto 35 sq. mm (clamped with 1mm thick saddle)	metre	12169	12270	9870	34309.00																
1157	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	metre	316	316	356	988.00																
1158	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	metre	450	450	575	1475.00																
1159	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	metre	2450	2450	4865	9765.00																
	Fixing for laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.																					
1160	Upto 35 sq. mm	metre	1202	1202	1210	3614.00																
1161	Above 35 sq. mm and upto 95 sq. mm	metre	200	200	450	850.00																
1162	Above 95 sq. mm and upto 185 sq. mm	metre	378	373	485	1236.00																
1163	Above 185 sq. mm and upto 400 sq. mm	metre	1980	1980	2470	6430.00																
	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.																					
1164	Upto 35 sq. mm	metre	1900	1900	1179	4979.00																
1165	Above 35 sq. mm and upto 95 sq. mm	metre	250	250	410	910.00																
1166	Above 95 sq. mm and upto 185 sq. mm	metre	241	241	295	777.00																
1167	Above 185 sq. mm and upto 400 sq. mm	metre	610	610	1015	2235.00																



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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required.																							
1168	Upto 35 sq. mm	metre	3341	3341	3430	10112.00																		
1168	Above 35 sq. mm and upto 95 sq. mm	metre	450	450	100	1000.00																		
	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/HUME/METAL pipe as required.																							
1169	Above 95 sq. mm and upto 185 sq. mm	metre	552	552	570	1674.00																		
1170	Above 185 sq. mm and upto 400 sq. mm	metre	628	628	925	2181.00																		
	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry duct as required.																							
1171	Upto 35 sq. mm	metre	29	30	0	59.00																		
1172	Above 35 sq. mm and upto 95 sq. mm	metre	120	120	25	265.00																		
1173	Above 95 sq. mm and upto 185 sq. mm	metre	125	125	151	401.00																		
1174	Above 185 sq. mm and upto 400 sq. mm	metre	155	155	229	539.00																		
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.																							
1175	100 mm wide x 50 mm depth x 1.6 mm thickness.	metre	255	268	255	778.00																		
1176	150 mm wide x 50 mm depth x 1.6 mm thickness.	metre	918	965	1042	2925.00																		
1177	300 mm wide x 50 mm depth x 1.6 mm thickness.	metre	548	577	669	1794.33																		
1178	450 mm wide x 50 mm depth x 2.0 mm thickness.	metre	1571	1648	1561	4780.00																		
1179	600 mm wide x 50 mm depth x 2.0 mm thickness.	metre	57	60	35	152.33																		
1180	750 mm wide x 62.5 mm depth x 2.0 mm thickness.	metre	350	368	350	1068.00																		
1181	900 mm wide x 62.5 mm depth x 2.0 mm thickness.	metre	20	19	0	39.00																		
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.																							
1182	100 mm wide x 50 mm depth x 1.6 mm thickness.	metre	35	37	35	107.00																		
1183	150 mm wide x 50 mm depth x 1.6 mm thickness.	metre	115	121	115	351.00																		
1184	300 mm wide x 50 mm depth x 1.6 mm thickness.	metre	70	73	70	213.00																		
1185	450 mm wide x 50 mm depth x 2.0 mm thickness.	metre	56	58	56	170.00																		
1186	600 mm wide x 50 mm depth x 2.0 mm thickness.	metre	10	12	5	27.00																		
1187	750 mm wide x 62.5 mm depth x 2.0 mm thickness.	metre	200	210	200	610.00																		
1188	900 mm wide x 62.5 mm depth x 2.0 mm thickness.	metre	5	6	10	21.00																		
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.																							
1189	100 mm wide x 50 mm depth x 1.6 mm thickness.	metre	25	26	25	76.00																		
1190	150 mm wide x 50 mm depth x 1.6 mm thickness.	metre	166	175	166	507.00																		
1191	300 mm wide x 50 mm depth x 1.6 mm thickness.	metre	40	42	40	122.00																		
1192	450 mm wide x 50 mm depth x 2.0 mm thickness.	metre	142	149	142	433.00																		
1193	600 mm wide x 50 mm depth x 2.0 mm thickness.	metre	16	16	16	48.00																		
1194	750 mm wide x 62.5 mm depth x 2.0 mm thickness.	metre	30	32	30	92.00																		
1195	900 mm wide x 62.5 mm depth x 2.0 mm thickness.	metre	5	6	5	16.00																		





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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
	Supply, Installation, Testing & Commissioning of 160 KVA UPS in paralleling mode at 0.99 input power factor from 25% to 100% load with SNMP card with external/inbuilt isolation transformer before static switch with bypass arrangement as per specification given in the document with following broad features. THD(i) shall be less than 3%. Input power factor shall be more than 0.99. from 25% to 100% load. UPS shall carry design output at 40 deg. Shall have soft start and hold of for incoming supply. Inverter capability to supply 150% load for 1 minute. Three Phase Input and Three Phase Output. (Input - 340V - 470V, Three Phase, 4 wire. / Output - 400-415 Volt, Three Phase, 4 Wire.) Shall not allow deep discharge of the battery and shall not go to 10.5 volts in case of 12 volt cells. Battery shall be external type with rack and suitable for 30 minute backup on 100% load. Suitable Size of Cables between battery bank and UPS and battery breaker with fuse protection. UPS shall be compatible for minimum 4 nos unit in parallel operation. (Synchronize). Parallel operation kit shall be supplied with UPS. Input phase sequence correction to be builtin in the system.																					
1220	UPS described as above	set	2	2	2	6.00																
	Supply, Installation, Testing & Commissioning of 20 KVA UPS in paralleling mode at 0.99 input power factor from 25% to 100% load with SNMP card with external/inbuilt isolation transformer before static switch as per specification given in the document with following broad features. THD(i) shall be less than 3%. Input power factor shall be more than 0.99 from 25% to 100% load. UPS shall carry design output at 40 deg. Shall have soft start and hold of for incoming supply. Inverter capability to supply 150% load for 1 minute. Three Phase Input and Three Phase Output. (Input - 340V - 470V, Three Phase, 4 wire. / Output - 400-415 Volt, Three Phase, 4 Wire.) Shall not allow deep discharge of the battery and shall not go to 10.5 volts in case of 12 volt cells. Battery shall be external type with rack and suitable for 90 minute backup on 100% load. Suitable Size of Cables between battery bank and UPS and battery breaker with fuse protection. UPS shall be compatible for minimum 4 nos unit in parallel operation. (Synchronize). Parallel operation kit shall be supplied with UPS. Input phase sequence correction to be builtin in the system.																					
1221	UPS described as above	set	1	1	1	3.00																
	PA SYSTEM- PUBLIC ADDRESS SYSTEM																					
	Supply,Installation, Testing & Commissioning of ENS4-16 compliant IP Based Digital Public Address & Voice Alarm system. The selected system devices like controllers and Paging Microphones, should use the TCP/IP technologies and build on the standard network platform to ensure expandability. The individual systems should be able to play 4 simultaneous audio messages and also be able to be networked over IP.																					

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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
1222	Supply,Installation, Testing & Commissioning of 8 zone IP based, digital Voice Alarm controller expandable upto 128 zones. The voice alarm controller should be able to connect directly over Ethernet. It should have functions like the audio playing, zone control, fault monitoring, log recording, volume control and amplifier switchover. The Voice alarm controller should also have the following functions: . 255 Priorities . Time schedule broadcasts . Its own PTT microphone . Capable of amplifier redundancy . 8 trigger inputs/outputs	set	3	3	3	9.00																
1223	Supply,Installation, Testing & Commissioning of IP based Networkable touch screen paging station for selection of zones, supervision of system status, setting of scheduled broadcasts with the following functions: . Built-in monitoring loudspeaker . Detachable goose-neck microphone . LCD touchscreen display . Audio input	set	3	3	3	9.00																
1224	Supply,Installation, Testing & Commissioning of 1x250W Class-D Amplifier with 4 independent channels and can provide automatic re-settable overcurrent, overload, overheating, overvoltage, under-voltage and DC protection Approved Makes : Bosch Praesedio / Honeywell - X618/ Ateis - IDA	set	2	2	2	6.00																
1225	Supply, Installation, Testing & Commissioning of 1x500W Class-D Amplifier with 4 independent channels and can provide automatic re-settable overcurrent, overload, overheating, overvoltage, under-voltage and DC protection	set	3	3	3	9.00																
1226	Supply, Installation, Testing & Commissioning of Network Resource Interface, 4 channels network audio source, 32 dry contacts in and 8 dry contacts out for Fire Alarm Interface	set	5	5	5	15.00																
1227	Supplying, installation, testing & commissioning of 1.5/3/6W ceiling speaker complete as required.	each	208	214	208	630.24																
1228	Supplying, installation, testing & commissioning of 1.5/3/6W metal box ceiling/wall speakers complete as required.	each	126	130	126	381.78																
1229	Supplying, installation, testing & commissioning of ceiling/wall mounted loud speaker, 3/1.5 Watt in ABS enclosure complete as required.	each	5	4	0	9.12																
1230	Supply, Installation, Testing and Commissioning of 12 Watt volume controller with G.I. Box, modular plate etc as complete as required.	set	5	5	5	15.00																
1231	Supplying and drawing of cable Fire Retardant PVC insulated copper conductor cable in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required. speaker cable Single pair, 2-core, 1.5 sqmm	metre	5647	5647	5647	16941.00																
1232	Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.	each	1291	1291	1291	3873.00																
1233	Supply, Installation, Testing and Commissioning of 42" MS Rack Suitable to house the above required equipments, With Glass Door, Side Openable, Cooling arrangement, Wheels and brakes and as per technical specification. ELV AND ICT SYSTEM	set	8	8	8	24.00																
1	<b>Sub Head 52 : Passive (Data, Wifi &amp; Networking System)</b>																					
1234	Supply, Insatllation, Testing & Commissioning of Category 6A cable as per Specification	Box 305metre	52	52	52	155.41																
1235	Supply, Insatllation, Testing & Commissioning of Category 6A UTP Patch Panel Blank Tool Less 24 Port	nos	35	35	35	105.00																
1236	Supply, Insatllation, Testing & Commissioning of Category 6A UTP Keystone Jack Tool Less 180D	nos	316	316	316	948.00																

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1237	Supply, Installation, Testing and Commissioning of Category 6A U/UTP Patch Cord LSZH 01M	nos	316	316	316	948.00																	
1238	Supply, Installation, Testing and Commissioning of Category 6A U/UTP Patch Cord LSZH 02M	nos	316	316	316	948.00																	
1239	Supply, Insatllation, Testing & Commissioning of UK Face Plate Plain 01 Port	nos	316	316	316	948.00																	
1240	Supply, Insatllation, Testing & Commissioning of Category 6A UTP Keystone Jack Tool Less 180D	nos	316	316	316	948.00																	
1241	Supply, Insatllation, Testing & Commissioning of 6 Core Singlemode OS2 Central Loose Tube Armoured External Cable	metre	3500	3500	3500	10500.00																	
1242	Supply, Insatllation, Testing & Commissioning of Sliding Module Type Fibre Patch Panel Rack Mount	nos	35	35	35	105.00																	
1243	Supply, Insatllation, Testing & Commissioning of Blank Adaptor Plate	nos	35	35	35	105.00																	
1244	Supply, Insatllation, Testing & Commissioning of SC 3 Port Duplex Adaptor Plate	nos	70	70	70	210.00																	
1245	Supply, Insatllation, Testing & Commissioning of SC Singlemode Duplex Adaptor	nos	70	70	70	210.00																	
1246	Supply, Insatllation, Testing & Commissioning of SC/PC Singlemode OS2 1.5m LSZH Pigtail	nos	70	70	70	210.00																	
1247	Supply, Insatllation, Testing & Commissioning of SC/PC-LC/PC Singlemode OS2 3m Duplex LSZH Patch Cord	nos	70	70	70	210.00																	
1248	Supply, Insatllation, Testing & Commissioning of 42U Rack with 2000W Panel AC Solution with all accessories. Loaded with all Accessories like PDU, Sliding Shelf, Cable Manager, Mounting Kits, Castor set.	nos	1	1	1	3.00																	
1249	Supply, Insatllation, Testing & Commissioning of 12U Rack with all accessorites	nos	35	35	35	105.00																	
1250	Supply, Insatllation, Testing & Commissioning of 40mm PVC Conduit Pipe	nos	5698	5698	5698	17094.00																	
1251	Supply, Insatllation, Testing & Commissioning of 50mm PVC Flexible Pipe	nos	100	100	100	300.00																	
1252	Supply, Insatllation, Testing & Commissioning of HDPE Pipe 32mm	nos	200	200	200	600.00																	
II	<b>Sub Head 53 : Active ICT (Access Control, Display, IP Based CCTV Camera &amp;Telephone)</b>																						
1253	Supply, Insatllation, Testing & Commissioning of Latest 802.11ax Wi-Fi 6 Dual Band indoor AP, with 1.7 Gbps access throughput. (Make:Dell/hp/cisco/Alcatel/RUKUS/Aadona)	nos	28	28	28	84.00																	
1254	Supply, Insatllation, Testing & Commissioning of 24 X 1G RJ-45 PoE+ Ports with 370W power budget 2 x 10G Copper Ports and 4 x 10G SFP+ slots, upgradable to support up to 740watt PoE by additional power supply. (Make:Dell/hp/cisco/Alcatel/ RUKUS/ Aadona)	nos	28	28	28	84.00																	
1255	Supply, Installation, Testing and Commissioning of 24 X 1/10G SFP+ Ports, RAM - 2GB, Flash 2 GB with 3 year warranty and support. (Make:Dell/hp/cisco/Alcatel/RUKUS/D Link/Extremee )	nos	7	7	7	21.00																	

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1256	Supply, Insatllation, Testing & Commissioning of Next Generation Firewall with Anti-Virus, IPS, Anti-BOT & Anti-Spam, Application Control and URL Filtering features from Day-1 with 3 years manufacturer 's warranty support, should be in leaders quadrant in Gartner report. The the quoted appliance should be in line with the technical specification with 3 years warranty. (Make:Checkpoint,Palo Alto, Cisco)	nos	1	1	1	3.00																		
1257	Supply, Insatllation, Testing & Commissioning of Wireless access controller for Max 256 Access Points with high reliability.(Make:Dell/hp/cisco/Alcatel/RUKUS/Aadona)	nos	1	1	1	3.00																		
1258	Supply, Installation, Testing and Commissioning of 43" 4K UHD (3840x2160) commercial display, Ready resolution, Brightness- 400 Nits and operating Hours- 24x7 or better, with 2K HDR, Dolby Audio, Built in Wifi and Chromecast, Built in web browser, HDMI CEC, HDMI ARC, Built-in Bluetooth Ver.4, 20W built in speakers, HDMI 2.0 X 3, AV X 1, USB 2.0 X 1, RJ45 X 1, Headphone Out x 1, SPDIF Out x 1 ,(Make: LG, Samsung, Panasonic)	nos	21	21	21	63.00																		
1259	Supply, Installation, Testing and Commissioning of 13th Generation Intel® Core™ i5 processor, Windows 11 Professional, Intel® UHD Graphics 730,8 GB DDR4 RAM,512 GB SSD Solid State Drive, 125 USB Black Wired Keyboard, 1 VGA; 1 HDMI-out 1.4b, 21.5 Inch display with 3 year Warranty and support. (Make:HP/ACER /DELL/LENOVO /Equivalent)	nos	176	176	176	528.00																		
1260	Supply, Installation, Testing and Commissioning of Laser Jet/Ink jet colour office printer with 3 year warranty and support. Minimum print speed 40 perminute , processor speed 600 MHZ and more., network interface, wireless & wireline, usb port with redundant tray with 3 year warranty and support. (Make:Canon/HP/Brother/ kyocera/ EPSON/ Lexmark )	nos	26	26	26	78.00																		
1261	Supply, Installation, Testing and Commissioning of Dome 3 MP resolution; H.265 Codec; 1/2.8" CMOS ; Shutter Speed of 1/8s ~ 1/32,000s; 2.8mm Fix Lens; 3DNR;BLC;HLC;WDR 120 dB;40 Mtr IR, Analytics -,Analytics - : Tampering, Motion Detect Aluminum housing; SD Card Slots 256GB; IP67; IK10; TLS1.2 only; AES- 256;SSH / Telnet closed; sFTP by default; PCIDSS compliance; ONVIF Profile S,T & G; Certificates- CE, FCC, RoHS, BIS,UL, 05 Yrs OEM Warranty, OEM Authorization, OEM should have factory in India since 2012 (Make:Honeywell, Axis,Pelco)	nos	110	110	110	330.00																		
1262	Supply, Installation, Testing and Commissioning of 64ch NVR with ARM Processor, Embedded Linux;8 SATA up to 80 TB inbuilt storage supported ,3 x USB,Mamimum 16 user;2 Way Audio;LAN x 1, WAN x 1, 2 x HDMI, 1 VGA;RAID 5, Network throughput 160 Mbps ,Support redundancy Failover N+1, 16ch PoE, RS485 Supported,RS232 Supported,e-SATA Supported,Certificates -CE,FCC,RoHS,BIS,UL (Make:Honeywell, Axis,Pelco)	nos	2	2	2	6.00																		
1263	Supply, Installation, Testing and Commissioning of IP Based voice Communication System with 04 Port Voicemail ,04 Port FXS ,04 Port FXO ,4 PRI Trunk lines (30x4 Ch) Circuit with CLIP Facility, 200 IP users, 01 Nos. Conference facility, Speed Dial, Music on Hold, Internal/ External ring difference ,Call Barring, Call Pickup-Redundant server in Active-Active or Active -Standby mode with 3 Year Warranty and support. (Make: Tadiran/ Cisco/ Aeonix/ Polycom)	nos	1	1	1	3.00																		
1264	Supply, Installation, Testing and Commissioning of IP Phone with 128X48 with 2 line Keys, 4 menu keys, 2 SIP accounts, supporting temperature from -5 C to 45 C With 3 year Warranty and support. (Make: Tadiran/ Cisco/ Aeonix/ Polycom)	nos	30	30	30	90.00																		
	<b>Total Bill no-6 Electrical system</b>																							
7	<b>Sub Head 54 : Lift System</b>																							

SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	Supplying, installation, testing & commissioning of 26 Passenger lift (G+6) (1632 Kg) Gearless with Machine Room having speed of 1 MPS in the existing lift shaft at the site. The Size of Lift Well (2500 X 3050 mm) Lift Car Inside Size (1400xx2550mm ),Pit depth 1600mm with Stainless steel -Hairline finish for Lift & Car ceiling and floor.The type of the car entrance and Landing entrance production is power operated two panel centre opening sliding door with stainless steel ( hairline finish).The type of Landing door frame is Stainless Steel(hairline finish).The clear opening of door is 1200mm x 2000mm.The control system are Microprocessor based simplex selective collective control with /without attendant of AC 415 V 3 PHASE 50 Hz WITH VOLTAGE VARIATION OF + 5 ~ - 10 % of Power supply for traction & 220 V 1 PHASE 50 Hz OF + 5 ~ - 10 % for Cabin lighting The rate shall include Necessary Labour,fitings, annual maintainance ,etc to complete. including cost and conveyance of all material, accessories, labour charges, transportation, lead & lift ,tax,erection at site complete for finished item of work.																							
1265	26 Passenger (1632 Kg) Gearless with Machine Room having speed of 1 MPS - (G+6) - Bed Lift	each	4.00	4.00	0.00	8.00																		
1266	26 Passenger (1632 Kg) Gearless with Machine Room having speed of 1 MPS - (G+5) - Bed Lift	each	0.00	0.00	4.00	4.00																		
	Supplying, installation, testing & commissioning of 26 Passenger lift (G+6) (1632 Kg) Gearless with Machine Room having speed of 1 MPS in the existing lift shaft at the site. The Size of Lift Well (2500 X 3050 mm) Lift Car Inside Size (1400xx2550mm ),Pit depth 1600mm with Stainless steel -Hairline finish for Lift & Car ceiling and floor.The type of the car entrance and Landing entrance production is power operated two panel centre opening sliding door with stainless steel ( hairline finish).The type of Landing door frame is Stainless Steel(hairline finish).The clear opening of door is 1000mm x 2000mm.The control system are Microprocessor based simplex selective collective control with /without attendant of AC 415 V 3 PHASE 50 Hz WITH VOLTAGE VARIATION OF + 5 ~ - 10 % of Power supply for traction & 220 V 1 PHASE 50 Hz OF + 5 ~ - 10 % for Cabin lighting The rate shall include Necessary Labour,fitings, annual maintainance ,etc to complete. including cost and conveyance of all material, accessories, labour charges, transportation, lead & lift ,tax,erection at site complete for finished item of work.																							
1267	26 Passenger (1632 Kg) Gearless without Machine Room having speed of 1 MPS - (G+6) - Passanger Lift	each	2.00	2.00	0.00	4.00																		
1268	26 Passenger (1632 Kg) Gearless without Machine Room having speed of 1 MPS - (G+5) - Passanger Lift	each	0.00	0.00	4.00	4.00																		
	Supplying, installation, testing & commissioning of Good lift (G+6) (2000 Kg) Gearless with Machine Room having speed of 1.5 MPS in the existing lift shaft at the site. The Size of Lift Well (2500 X 3050 mm) Lift Car Inside Size (1400xx2550mm ),Pit depth 1600mm with Stainless steel -Hairline finish for Lift & Car ceiling and floor.The type of the car entrance and Landing entrance production is power operated two panel centre opening sliding door with stainless steel ( hairline finish).The type of Landing door frame is Stainless Steel(hairline finish).The clear opening of door is 1500mmX2000mm.The control system are Microprocessor based simplex selective collective control with /without attendant of AC 415 V 3 PHASE 50 Hz WITH VOLTAGE VARIATION OF + 5 ~ - 10 % of Power supply for traction & 220 V 1 PHASE 50 Hz OF + 5 ~ - 10 % for Cabin lighting The rate shall include Necessary Labour,fitings, annual maintainance ,etc to complete. including cost and conveyance of all material, accessories, labour charges, transportation, lead & lift ,tax,erection at site complete for finished item of work.																							
1269	Good Lift (2000 Kg) Gearless with Machine Room having speed of 1.5 MPS - (G+6)	each	2.00	2.00	0.00	4.00																		



SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	Supplying, installation, testing & commissioning of 13 Passenger lift (G+5) (1632 Kg) Gearless with Machine Room having speed of 1 MPS in the existing lift shaft at the site. The Size of Lift Well (2500 X 3050 mm) Lift Car Inside Size (1400x2550mm ),Pit depth 1600mm with Stainless steel -Hairline finish for Lift & Car ceiling and floor.The type of the car entrance and Landing entrance production is power operated two panel centre opening sliding door with stainless steel ( hairline finish).The type of Landing door frame is Stainless Steel(hairline finish).The clear opening of door is 1000mm x 2000mm.The control system are Microprocessor based simplex selective collective control with /without attendant of AC 415 V 3 PHASE 50 Hz WITH VOLTAGE VARIATION OF + 5 ~ - 10 % of Power supply for traction & 220 V 1 PHASE 50 Hz OF + 5 ~ - 10 % for Cabin lighting The rate shall include Necessary Labour, fittings, annual maintainance ,etc to complete. including cost and conveyance of all material, accessories, labour charges, transportation, lead & lift ,tax,erection at site complete for finished item of work.																							
1270	13 Passenger (1632 Kg) Gearless without Machine Room having speed of 1 MPS - (G+5) - Passanger Lift	each	0.00	0.00	1.00	1.00																		
	<b>Total Bill no-7 Lift works</b>																							
8	<b>Bill no-8 Allied works</b>																							
	<b>Sub Head 55 : Medical Gas Pipeline System</b>																							
	<b>OXYGEN SYSTEM</b>																							
1271	Supplying, installation and commissioning of 2 x 10 size manifold extendable type complete with middle frame with chain for individual cylinder along with non Return Valves for every cylinder and copper pig tail pipes.	set	1	1	1	3.00																		
1272	Supplying, installation and commissioning of 3 Sources of Fully automatic control panel for Oxygen Having a min. flow out put of over 1650 lpm at 4.2 bar pressure complying to HTM 02-01/NFPA/DIN std.	set	1	1	1	3.00																		
1273	Supplying, installation and commissioning of 2+2 Cylinder Emergency Oxygen arrangement using a high flow Regulator and quick release and adopt mechanism using O2 outlet and NRV	set	1	1	1	3.00																		
1274	Supplying, installation and commissioning of Surface mounted Gas Outlets- Front loading complying to HTM- 02-01 / NFPA / DIN standard with matching probe (suitable for F/M or hose pipe).	nos.	315	315	300	930.00																		
1275	Supplying, installation and commissioning of Oxygen flow metres (metal body) with reusable humidifier with Pr relief valve 0-15 LPM (Indigenous)	nos.	249	249	262	760.00																		
1276	Supplying, installation and commissioning of Oxygen Conversion Kit with Hose Assembly	nos.	7	7	6	20.00																		
	<b>NITROUS OXIDE SYSTEM</b>																							
1277	Supplying, installation and commissioning of 2 x 4 size manifold extendable type complete with middle frame with chain for individual cylinder along with non Return Valves for every cylinder and copper pig tail pipes.	set	1	1	1	3.00																		
1278	Supplying, installation and commissioning of Fully Automatic control panel for N2O having a min. flow out put of 250 lpm or more at 4.2 bar pressure (Indigenous)	set	1	1	1	3.00																		
1279	Supplying, installation and commissioning of Single cylinder Emergency N2O arrangement using a high flow Regulator and quick release and adopt mechanism using N2O outlet and NRV	set	1	1	1	3.00																		
1280	Supplying, installation and commissioning of Surface mounted Gas Outlets- Front loading complying to HTM- 02-01 / NFPA 99/ DIN standard with matching in Probe	nos.	17	17	8	42.00																		
1281	Supplying, installation and commissioning of H.P. tubing having anti static core as per ISO	metre.	35	35	20	90.00																		
1282	Supplying, installation and commissioning of N2O Conversion Kit with Hose Assembly	nos.	7	7	5	19.00																		
	<b>CARBON DI OXIDE SYSTEM</b>																							



SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
1283	Supplying, installation and commissioning of 2 x 4 size manifold extendable type complete with middle frame with chain for individual cylinder along with non Return Valves for every cylinder and copper pig tail pipes.	set	1	1	1	3.00																		
1284	Supplying, installation and commissioning of Fully Automatic control panel for CO2 having a min. flow out put of 250 lpm or more at 4.2 bar pressure (Indigenous)	set	1	1	1	3.00																		
1284	Supplying, installation and commissioning of Single cylinder Emergency CO2 arrangement using a high flow Regulator and quick release and adopt mechanism using CO2 outlet and NRV	set	1	1	2	4.00																		
1285	Supplying, installation and commissioning of Surface mounted Gas Outlets- Front loading complying to HTM- 02-01 / NFPA 99/ DIN standard with matching probe.	nos.	12	12	2	26.00																		
1286	Supplying, installation and commissioning of CO2 Conversion Kit with Hose Assembly	nos.	4	4	2	10.00																		
<b>VACUUM SYSTEM</b>																								
1287	Supplying, Installaia and commissioning of Duplex Rotary vane vacuum pump each having over 300m3/h capacity with suitable sized Bacterial Filter, interconnecting pipes, NRV, Exhaust, Silencer and Two Receiver of 2*2000 liters capacity.	set	1	1	1	3.00																		
1288	Supplying, Installaia and commissioning of Surface mounted Gas Outlet Complying to HTM- 2022/ NFPA 99/ DIN standard with matching probe for vacuum.	nos.	292	292	295	879.00																		
1289	Supplying, Installaia and commissioning of Ward Vacuum Unit with Regulator, Collection Jar of 600 ml with Bracket (Indigenous).	nos.	247	247	262	756.00																		
1290	Supplying, Installaia and commissioning of Theatre Suction Unit, trolley mounted with 2 no 2000 ml Collection Jars (Indigenous)	nos.	13	13	5	31.00																		
1291	Supplying, Installaia and commissioning of High Pressure color coded yellow Tube	metre	500	500	400	1400.00																		
1292	Supplying, Installaia and commissioning of Low Pressure Tube (Transparent)	metre	500	500	400	1400.00																		
<b>COMPRESSED MEDICAL AIR SYSTEM</b>																								
1293	Supplying, Installaia and commissioning of Duplex 113CFM each Capacity Screw / Scroll type Air Compressor with 8bar pressure with 02nos 1000Ltrs Vertical Mounted Air Receiver complete with auto / manual drain valves , pressure gauge, safety valve, Air Receiver suitably with facility for statutory inspection, by pass arrangement. The vessels should have Manufacturer's Test Certificate with 01nos of Duplex 120cfm Dessiccant Medical Air Dryer should deliver Medical Air with water content not exceeding 67vpm (volume parts per million — equivalent to a dew point -46°C at atmospheric pressure). So, it should incorporate suitable Dessiccant Dryers of requisite capacity with Dew Point Hygrometre and CO Monitor to display with a minimum accuracy of +_3°C in a range from -20°C to -60°C atmospheric dew point with a set point of -46°C along with 4 stage filters particle content removal up to 0.5mg/cum & 0.01mg/cum, 0.003mg/cum	set	1	1	1	3.00																		
1294	Supplying, Installaia and commissioning of Surface mounted Gas Outlet Complying to HTM- 02-01/ NFPA 99 standard with probe for MA 4.	nos.	116	116	64	296.00																		
1295	Supplying, Installaia and commissioning of Surface mounted Gas Outlet Complying to HTM- 02-01/ NFPA 99 standard with probe for SA 7.	nos.	16	16	8	40.00																		
1296	Supplying, Installaia and commissioning of HP colour coded black Tubing	metre	580	580	350	1510.00																		
1295	Supplying, installation and commissioning of Compressed Air Conversion Kit with Hose Assembly	nos.	7	7	5	19.00																		
<b>AGSS (SCAVANGING) SYSTEM</b>																								
1296	AGSS Outlet Venturi type	set	4	4	4	12.00																		
<b>COPPER PIPELINES</b>																								
	Supplying, Installaia and commissioning of Medical Grade Copper Pipes conforming to BS: EN13348:2014 duly certified by third party Lloyds Register with Test Certificates.																							

SL. no	Description of Item	Unit	Quantity				Rate			Amount															
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total						
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)				
1297	76*1.2mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	0	0	130	130.00																			
1298	54*1.2mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	0	0	150	150.00																			
1299	54*1.2mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	100	100	400	600.00																			
1298	42*1.2mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	150	150	650	950.00																			
1299	35*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	175	175	1000	1350.00																			
1300	28*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	850	850	2800	4500.00																			
1301	22*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	2500	2500	3000	8000.00																			
1302	15*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	3800	3800	1050	8650.00																			
1303	12*1.0mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	1700	1700	0	3400.00																			
<b>MISCELLANEOUS ITEMS</b>																									
1304	Supplying, Installing and commissioning of Master Electrical Control Panel - Supplying, Installing and commissioning of A dedicated electrical control panel for Air Compressors and Vacuum pumps & Air Dryers, Auto Drain Valves, starter, MCB, amm, hours run rm, hand/auto switch, sensors contacts. Under normal conditions the capacity of the plant should be 100% system design flow with one compressor / pump running another one set compressor/pump stand by basis. Integrated with BMS Compatibility and Capable of communicating Master Alarm. Along with automic sequencing and cascading facility	nos.	1	1	1	3.00																			
Bed Head Panel Units are designed and manufactured as per EN 13485 Medical Devices – QMS. The panels are designed and built with a view to provide a stylish finish and pleasing aesthetics in order to blend into the room decoration. All bed head panel are manufactured using individually heat treated extruded aluminium sections. The bed head panel provides separate compartment for medical gases and electrical services. Aluminium extruded Separate provision for gas and electricals Easy assembly with push/slide/screw type assembly with no visible screws. Outlet points – Double Locking Indigenous type as per customer requirement. Cut Out Provision for Electricals – 6/16A as per customer requirement Cut Out Provision of LED Light with On Off control can be made as per customer requirement Cut Out Provision of Nurse call system can be made as per customer requirement Supplied pre-piped and fully tested. Complies with HTM 02-01 and NFPA 99. Electrostatic Powder Paint finish on all exterior. Colour code as per customer requirement																									
1305	The Hospital Bed Head Panel - 900mm	nos.	0	0	150	150.00																			
1306	The Hospital Bed Head Panel - 1200mm	nos.	150	150	67	367.00																			
1307	The Hospital Bed Head Panel - 1500mm	nos.	67	67	25	159.00																			
1308	The Hospital Bed Head Panel - 1800mm	nos.	25	25	10	60.00																			
1309	Anaesthetic Rigid Pendant	nos.	7	7	7	21.00																			
1310	Surgeon Pendant - Single Arm	nos.	0	0	0	0.00																			
1311	Surgeon Pendant - Double Arm	nos.	4	4	4	12.00																			
Digital Area Alarms - Supplying and commissioning of Meeical Gas Area Alarms, Microprocessor based, LCD Touch Screen,Wifi enabled, monitoring of real time Gas, Vacuum Pressure, audi-visual alarms for each gas, settable alarms limits, display the name of the area installed (like Ward/ICU/OT Etc..) must be cabale of communicating with master alarm, BMS Compatible, Optionally Temperatue, Humidity Monitoring enabled, System complaining with HTM 02-02 & NFPS 99																									
1312	2 Gases Alarm	nos.	9	9	11	29.00																			
1313	3 Gases Alarm	nos.	10	10	9	29.00																			
1314	4 Gases Alarm	nos.	2	2	2	6.00																			
1315	5 Gases Alarm (Rate Only)	nos.	0	0	0	0.00																			
1316	6 Gases Alarm	nos.	4	4	4	12.00																			



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										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
	<b>Controller</b>																							
	<b>Supply and Installation of VDE 0834 compliant/Zone Controller</b>																							
1338	The controller (with SMPS power supply) forms a decentralised communications node for exchanging data between the connected system devices and the rest of the communications system, consisting of : 1 x RJ45 socket, 100Mb IP Port, galvanically isolated conforming to EN 60950 and VDE 0834; which is connected to the hospital V lan POE port- 3 x RJ45 sockets, for connecting all system modules connecting communications,bedside,overdoor light and pull cord and for connection of the external data bus. The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	9	9	11	29.00																		
	<b>Nurse station display</b>																							
1339	Nurse Station shall comprises of minimum 10" large touch screen LC colour graphic display for displaying all details, a smash proof glass panel (to protect the sensitive display from unnecessary contact during cleaning and other processes), The ward terminal shall display date and time, indication of all presence, all set reminders, indication of all calls in accordance with VDE0834. All call indications follow the priority and must display the exact location of the calls. The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	14	14	15	43.00																		
	<b>Nurse station display</b>																							
1340	All errors and notifications are displayed on the information panel. Emergency codes, WC calls, nurse calls, and nurse presences can be monitored. All activities on the system are logged. All logs can be reported in detail.Panel to room communication, Panel to a group of rooms communication, General call from rooms or nurse stations, Full duplex, SIP protocol, PoE (Power Over Ethernet) The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	2	2	2	6.00																		
	<b>ROOM CONTROL UNIT</b>																							
1341	Supply of Room Terminal with display & integrated functional components and operating membrane keypad with symbols; consisting of. It features a 5" touchscreen and built-in RFID card reader, which nurses use to verify their identity when responding to calls. All cards read by the unit are checked for authorization.The Room Control Unit can be used to initiate and terminate emergency code calls (Code Blue/Cardiac Arrest etc.), assist calls, consultation calls, and voice calls to the Nurse Control Panel. The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	25	25	24	74.00																		
	<b>Bed side Unit and patient handset</b>																							
1342	consisting of a plastic case in antimicrobial finish having - Call button with nurse symbol with integrated finder and reassurance light on the top end of the unit, - Membrane keypad in antimicrobial finish with integrated LEDS for operation, consisting of: - 1 call key, - 2 lighting keys - 2.80 metre connection cable with auto-disconnecting RJ45 connector plug. It shall be supplied with cradle for holding patient terminals. The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	216	216	229	661.00																		
	<b>Supply and Installation of VDE 0834 certified/ approved connection module for Patient Terminal</b>																							

SL. no	Description of Item	Unit	Quantity				Rate			Amount														
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total					
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
1343	Connection module for patient handset shall consist of: - 1 x RJ45 socket marked in colour and with measures to ensure that the push button is correctly connected, including auto disconnect mechanism, - 1 membrane keypad with: - 1 call button (red with nurse symbol) including a finder/ reassurance light, - 1 presence key/ cancel button (green) including a control LED, The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	216	216	229	661.00																		
<b>Toilet Units</b>																								
<b>VDE 0834 certified/ approved Pull Cord with cancel Button - For WC</b>																								
1344	Pull cord for WC shall consist of: - 1 call button (pull cord) including a finder light & reassurance light, - 1 presence button (green) incl. control LED, - integrated finder lights or reassurance light - micro switch with a 2 metre pull cord and a luminous grip with a nurse call symbol, Pull cord characteristics: max. force at break: 120N (ca. 12 kg): for hygiene reasons it must also be possible to change the pull cord very easily using a snap hook; In an emergency, the patient makes an emergency call by pulling the cord. This appears as a WC Emergency Call on the Nurse Control Panel. - Moisture Protected The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	76	76	110	262.00																		
<b>Door Indicator with I/O</b>																								
<b>Supply of VDE 0834 certified/ approved Loop Powered Lamp Module</b>																								
1345	For optical indication of calls, presences and reminders in the relevant colours conforming to VDE0834 consisting of: 7 colors colors (red, green, blue, cyan, yellow, magenta, white) • Very low energy consumption thanks to environment-friendly LEDs • Made of high quality PC-ABS-FR Raw Materials The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	31	31	43	105.00																		
<b>Door Indicator</b>																								
1346	For optical indication of calls, presences and reminders in the relevant colours conforming to VDE0834 consisting of: 7 colors colors (red, green, blue, cyan, yellow, magenta, white) • Very low energy consumption thanks to environment-friendly LEDs • Made of high quality PC-ABS-FR Raw Materials The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	25	25	24	74.00																		
<b>Networking &amp; Integration</b>																								
<b>Supply and Installation of Management center - Nurse Call Server</b>																								
1347	The server provides log reporting through a web interface and enables integration with other systems used throughout the building. Our servers have a Linux-based robust and reliable infrastructure.Linux Operating System ,Fully redundant structure, Troubleshooting and error notification of all modules connected to the system. The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos.	1	1	1	3.00																		
<b>Mifare card</b>																								













SL. no	Description of Item	Unit	Quantity				Rate			Amount																
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total							
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
1378	Supplying and fixing of Matrix Lounge Chair as per the following specifications. The seat shall be made of Mild Steel. The back shall be made of SS tubular frame. Size shall be in 78.5 cm. (B) x 210.0 cm. (L) x 63.8 cm (H) & SEAT HEIGHTsize shall be in 42.0 cm (SH). The above entire unit shall be manufactured as per specifications ,Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos	13	13.00	40.00	66.00																				
1379	Supplying and fixing of Table as per the following specifications. Main Table 1200Lx750Dx750H, Side Combo Storage 1050Lx450Dx750H, TABLETOP & GABLE END to be made of 25 mm thick Prelaminated particle board with machine pressed PVC edge band on all sides.MODESTY PANEL @725H to be made of 18 mm thick Prelaminated particle board with machine pressed PVC edge bind on all sides. STORAGE - TOP: 25mm Thick Prelaminated Partical Board with 2MM PVC edge band on all edges. CARCASS (Body/ Shutter / Back) : 18MM thick Prelaminated Partical Board with PVC edge band on all exposed edges. SHELF : made of 18MM thick Prelaminated Partical Board with PVC edge band on al edges SHUTTERS : Lockable Swing shutters with Flush Handle / Finger Groove handle. HARDWARE : Hettich Hinges, Lock The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	41	41.00	36.00	118.00																				
1380	Supplying and fixing of Chairs as per the following specifications. MID BACK SIZE shall be in 60.0 cm. (L) x 60.0 cm (B) x 100.0 cm. (H) & SEAT HEIGHT shall be in 50.0 cm (SH) {Adjustable}. The seat and back shall be made up of 1.2 cm. thick hot-pressed plywood, upholstered with fabric and moulded Polyurethane foam, together with moulded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Polyurethane foam is moulded with density of 45 +/- 2 kg/m and Hardness of 20 +/- 2 on Hampden machine at 25% compression. The armrest top should be made of moulded polyurethane (Polyurethane) and mounted on to a drop lift height adjustable type Mild Steel tubular armrest support chrome plated. The armrest height should be adjustable up to 6.5cm in 5 steps & also should have swivel adjustment on both sides. The Knee tilt synchro mechanism should be designed with the following features - 360° revolving type, Tilt tension adjustment, 4-position locking with anti-shock feature, Seat back tilting ratio of 1 :2 (11 ° Seat Tilt /22° back tilt).The backrest consists of a sliding up down mechanism, which should be adjusted in the range of 7.5 cm and should be locked in 4 positions for correct position of lumber support.The pneumatic height adjustment has an adjustment stroke of 9.0 cm.The twin wheel castors shall be injection moulded in black Nylon.	nos	104	104.00	108.00	316.00																				
	The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.																									
1381	Supply and Fixing of Chair For Visitors Dimensions: 60.90 Lx 64.20 D x 98.20 H x 44.80 seat Ht. in CM Frame Tubular Stain less Steel High Density Polyurethane Foam combined with Premium Leatherette. Sturdy PU Soft Arms. Seat and back rest with comfort cushion Legs with Nylon heavy duty bushes Certificates: ISO 9001, BIS/ CE The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	208	208.00	190.00	606.00																				



SL. no	Description of Item	Unit	Quantity				Rate			Amount																
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total							
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
1382	Supplying and fixing of Writing Pad Chair as per the following specifications. The seat shall be made of moulded Polyurethane foam and 12mm thick Recycled composite board upholstered with replaceable fabric cover. The back shall be made of MS tubular frame insitu moulded with Polyurethane foam and upholstered with fabric/Leatherite cover. Chair size shall be in 55.0 cm. (B) x 60.0 cm (L) x 90.0 cm. (H) & SEAT HEIGHT shall be in 42.0 cm (SH) (Fixed). The Polyurethane foam is moulded with density = 45 ±2 kg/m3 and Hardness for back foam is 16 (+/-2) & that for seat foam is 20 (+/-2) at 25% compression. Armrest has a two piece construction and is mounted on to the tubular frame structure. It is injection moulded in talc filled PP. The powder coated tubular frame structure shall be made of 48 mm x 18.5 mm x 2.5 mm thk M.S. ERW oblong tube. The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	186	186.00	152.00	524.00																				
1383	Supplying and fixing of Waiting Saba 2 Seater as per the following specifications. Three seater Sofa set size shall be in seat height 860 mm, Seat width 600mm, Length of seater 1300mm and seat height 400 mm. Base Frame shall be made of Dymetrol stretchable fabric (100 S), M.S. pipe Legs made of Rubber wood, P.U. Foam (Hardness 20, Density 45 kg/ cubic m) & 18 mm thick partical board. armrest shall be made of Lining cloth cover placed on moulded P.U. Foam. (Hardness 20, Density 45 kg/cubic m) M.S. pipe, Recron fibre ( 200 grade-chemical bonded). Backrest shall be made up of Lining cloth cover placed on moulded P.U. Foam. (Hardness 14, Density 45 kg/cubic m) M.S. pipe - Recron fibre ( 200 gradechemical bonded). Seat shall be made up of cloth cover placed on moulded P.U. Foam. (Hardness 20, Density 45 kg/cubic m) Recron fibre (200 grade-chemical bonded). The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	18	18.00	0.00	36.00																				
1384	Supplying and fixing of Centre Table as per the following specifications. PISA TABLE 1200Lx600Dx420HT, Top: Table Top with rectilinear form with rounded boundaries and chamfered edges give it crisp and formal visual appearance. 12mm thick black tinted or toughned Glass top is scratch resistant.Understructure: 12mm MS rod or SS (202 GRADE) rod. Understructure provides structural stability with a lighter look to the entire product.The above entire unit shall be manufactured as per specifications .Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos	8	8.00	0.00	16.00																				
1385	Supplying and fixing of Centre Table as per the following specifications. 600Lx600Dx420HT, Top: Table Top with rectilinear form with rounded boundaries and chamfered edges give it crisp and formal visual appearance. 12mm thick black tinted or toughned Glass top is scratch resistant.Understructure: 12mm MS rod or SS (202 GRADE) rod. Understructure provides structural stability with a lighter look to the entire product. The above entire unit shall be manufactured as per specifications .Line Sketches & as per the approval of the Engineer-In-Charge.The rate including all material, labour, taxes, transportation etc to complete.	nos	8	8.00	0.00	16.00																				
1386	Supplying and fixing of Table as per the following specifications. TABLETOP & GABLE END made of 25 mm thick Prelaminated particle board with machine pressed PVC edge band on all sides. MODESTY PANEL @725H made of 18 mm thick Prelaminated particle board with machine pressed PVC edge bind on all sides.PRELAM 3 DRAWER (2B+1F) PEDESTAL UNIT 400Wx450Dx670H (With Castor) - madeup of 18mm thick Prelaminated Particle Board with PVC Edge band and the telescopic slides for mobility of drawers and filers. The drawer is made up of 0.7 mm thick CRCA steel. with Centre Locking Mechanism considered. Side Finger Groove Handle is considered. STORAGE - TOP: 25mm Thick Prelaminated Partical Board with 2MM PVC edge band on all edges. CARCASS (Body/ Shutter / Back) : 18MM thick Prelaminated Partical Board with PVC edge band on all exposed edges. SHELF : made of 18MM thick Prelaminated Partical Board with PVC edge band on al edges SHUTTERS : Lockable Swing shutters with Finger Groove handle. HARDWARE : Hettich Hinges, Lock The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	2	2.00	2.00	6.00																				



SL. no	Description of Item	Unit	Quantity				Rate			Amount																				
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total											
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)									
1391	<p>Supply and Fixing of L Angular Rack</p> <p>Size: 2130 (H) X 1080 (W) X 380 (D) mm</p> <p>Rack with 5 Compartments of 6 nos. of shelves.</p> <p>Distance between each shelf will be 410 mm. These 6 shelves should be hanging arrangement (adjustable).</p> <p>Racks shall be manufactured from Slotted M.S angle 14 SWG. Shelves shall be manufactured from 18 SWG thick sheet. The rack shall be assembled with G I bolt, nuts and washers. Slotted angle and M.S sheet shall be made of cold rolled with anti-rust treated and shall be finished with powder coating (color: Prince Gray). H/D Rubber bushes shall be provided to the bottom of legs of slotted angle racks. The quality of M.S sheet which is used for racks shall be free from any defects, Undulations, and old paints and surface corrosion, etc. Certificates: ISO 9001, BIS/CE</p> <p>The above entire unit shall be manufactured as per specifications, Line Sketches &amp; as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.</p>	nos	84	78.00	100.00	262.00																								
1392	<p>Supply and Fixing of ALMIRAH SS</p> <p>1 Internal Size of Almirah: 1850 (H) X 900 (W) X 450 (D) mm</p> <p>2 Leg Size of Almirah: 150 (H) X 120 (W) X 450 (D) mm</p> <p>3 Rack with 5 Compartments.</p> <p>4 Distance between each shelf will be 360 mm.</p> <p>5 These 4 shelves should be hanging arrangement (adjustable).</p> <p>6 One shelf should have internal door and lock</p> <p>7 Standard lock and 2 sets of keys.</p> <p>8 The thickness of the Almirah sheet shall be 18 SWG.</p> <p>9 The body of the Almirah shall be manufactured from cold rolled MS sheet (C. R. Sheet) with Antirust treatment and shall be finished with powder coating</p> <p>The quality of used M.S sheet for making Almirah shall be free from any pitting and corrosion etc.</p> <p>10 H/D Rubber bushes shall be provided to the bottom of legs of Almirah.</p> <p>Certificates : ISO 9001 and BIS/notified CE</p> <p>The above entire unit shall be manufactured as per specifications, Line Sketches &amp; as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.</p>	nos	23	18.00	150.00	191.00																								
1393	<p>Supply and Fixing of Almirah with glass door</p> <p>Steel almirah with Toughened Glass</p> <p>Size: Height 1980mm, Width 915mm, Depth 480mm</p> <p>Manufactured from CRCA sheet conforming to IS 513-1994 grade D material.</p> <p>The CRCA sheet of uniform thickness and of 22 gauge for the body, 20 gauge for doors duly cut and bend with the help of CNC machines.</p> <p>The almirah shall be equipped with four fixed shelves, manufactured from 22 gauge CRCA sheet, thereby making five compartments in the Almirah.</p> <p>The steel shelf shall be capable of carrying a uniformly distributed load of 70kgms.</p> <p>Certification: Manufacturer should have ISO: 9001, BIS/ CE</p> <p>The above entire unit shall be manufactured as per specifications, Line Sketches &amp; as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.</p>	nos	50	50.00	25.00	125.00																								
1394	<p><b>Supply and Fixing of Table for clerk</b></p> <p>WORKTOP - Made of 25 mm thick Prelaminated particle board with machine pressed PVC edge band on all sides.</p> <p>UNDERSTRUCTURE- C LEG constructed of Vertical of 50X50X1.6 mm &amp; Horizontal of 40mm X 40mm X 1.6mm thick MS Pipe with caps &amp; levellers .</p> <p>Cross member is made of 40mm X 40mm X 1.6mm MS pipes. .</p> <p>powder coated finish of 50 to 60 Microns DFT.</p> <p>The above entire unit shall be manufactured as per specifications, Line Sketches &amp; as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.</p>	nos	55	55.00	0.00	110.00																								

SL. no	Description of Item	Unit	Quantity				Rate			Amount																	
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total								
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)						
1395	Supply and Fixing of Table for Computer Contemporary & Modern Style Computer Desk set-up for Study & Home Office with Storage Space W x H x D: 1003.3 mm x 749.3 mm x 508 mm (3 ft 3 in x 2 ft 5 in x 1 ft 8 in) With CPU Compartment Built-in Keyboard Tray Certificates: BIS/CE, ISO 9001 The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	55	30.00	20.00	105.00																					
1396	Supply and Fixing of Revolving Chair Material: Fire retardant breathable mesh inbuilt into the backrest and Polyester fabric integrated into the seat. (BM Mesh & 5060 fabric seat). Base: 700 mm diarm Nylon base with 50 mm castors for stability and easy movement. Arms: Fixed Polypropylene inbuilt arms. Centre tilt: Adjust your work posture by using the tilt to recline on the chair for meetings / phone calls and more. Use the tilt lock for upright posture like keyboarding. Pneumatic height: Change the height of the chair relative to the floor by 100 mm. Certificates: ISO 9001, notified CE/BIS The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	55	65.00	20.00	140.00																					
1397	Supply and Fixing of Chair For Visitors Dimensions: 60.90 Lx 64.20 D x 98.20 H x 44.80 seat Ht. in CM Frame Tubular Stain less Steel High Density Polyurethane Foam combined with Premium Leatherette. Sturdy PU Soft Arms. Seat and back rest with comfort cushion Legs with Nylon heavy duty bushes Certificates: ISO 9001, BIS/ CE The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	10	8.00	10.00	28.00																					
1398	Supply and Fixing of Attender stool Approx. size:- 300mm square 18G double bent top of MS Height 510mm. Framework of MS press bent 25mm x 25mm x 3mm angles and 'C' channe riveted to angles made from 18G. MS CRCA sheet superimposed press bent argon arc welded top made from 0.6mm thick 304 grade S.S. sheet riveted with MS Drive on MS. Top. Legs fitted with PVC angle shoe Certificates : Manufacturer should have ISO:900, notified CE/BIS The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete.	nos	30	12.00	20.00	62.00																					
<b>BILL OF QUANTITY (NURSE STATION)</b>																											

SL. no	Description of Item	Unit	Quantity				Rate			Amount																
			SMCH	FAAMCH	LMCH	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	SMCH			FAAMCH			LMCH			Total							
										INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)					
1399	Supply and fixing of Nurse station table as per the drawing & detail. The whole structure is formed of 19mm thick ply finished with approved laminate. Table top is formed out of 19mm thick ply finished with laminate cladding on both sides. The Table to have twin level table top at 750mm & 1050mm level of approved laminte finish as per approval of the architect. The depth of table top at 750mm level is 500mm deep and table top at 1050 mm level is 600mm deep. below 750mm to be provided with openable storages Counter top to be formed out of 19mm thick ply finished with approved laminate The table to have a 1 no of fully extendable drawer pedestal unit at every 2m intervals on ball bearing drawer guides and finished with laminate of approved colour and shade as per details. Drawer to be complete with hardware installed as directed to consist of the following: 1 no multi purpose lock as specified,100mm SS handle, keyboard tray, Space for CPU unit etc complete as per details and Architect's approval.All internal surfaces to be finished with 0.8mm thick balancing laminate of approved shade. Cost to include Borer/Antitermite treatment for wood/plywood Hardware: All hardware shall be as per the approved model/make mentioned in finishing schedule. The above entire unit shall be manufactured as per specifications, Line Sketches & as per the approval of the Engineer-In-Charge.	metre	155	145.00	220.00	520.00																				
	The rate including all material, labour, taxes, transportation etc to complete.																									
	<b>Total Bill no-8 Allied works</b>																									



SILCHAR SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE GROUND FLOOR						
S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	ENTRANCE LOBBY	GF 45	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	-	GRANITE WALL CLADDING 12TK OF APPROVED COLOUR USING 2100 MM HEIGHT + PLASTER FINISH +TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
2	DOCTOR ROOM, CCMO ROOM	GF- 06,09	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
3	POLICE POST	GF- 03,	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
4	STOMACH WASH	GF- 12	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
5	WASH	GF- 50	18 MM THICK POLISHED KOTA STONE		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
6	DU	GF- 14,73	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
7	CU	GF- 15	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
8	CHANGE (M & F)	GF- 21, GF- 22,GF-66	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
9	6 BEDS OBSERVATION, 6 BEDS TRIAGE AREA	GF- 11,GF- 13	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
10	NURSE LOUNGE	GF- 24	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	PHARMACY STORE,LINEN STORE & LINEN	GF- 01,17,30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-

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**FINISHES SCHEDULE GROUND FLOOR**

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
12	PHARMACY STORE	GF- 47	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
13	MINOR OT	GF- 27	CONDUCTIVE VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	-
14	EMERGENCY ICU	GF- 20	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 60
15	EMERGENCY LAB,	GF- 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
16	RESUSCITATION ROOM	GF- 04	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
17	AHU ROOM	GF- 16,GF- 54,77	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS+ OIL BOUND DISTEMPER	
18	EQUIPMENT STORE & STORE	GF-68,69	18 MMTHICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+ PRIMER+ TWO COATS+ OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600, GYPSUM PLAIN BOARD & CALCIUM SILICATE BOARD
19	EQUIPMENT STORE	GF-74	18 MMTHICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
20	STERILE STORE	GF-26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FIBRE FALSE CEILING TILES 600 X 600

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE GROUND FLOOR**

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
21	LIFT LOBBY	LL- 01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
22	LIFT LOBBY	LL- 03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
23	COMMON TOILET (MALE & FEMALE)STAFF TOILET (M&F) PHY- TOILET	GF- 02,29,33,34,35,36,37,75,76	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	
24	ATTACHED TOILET	GF- 07,08,19,25,79	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
25	PHARMACY	GF- 44	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
26	REGISTRATION COUNTER	GF- 46	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
27	BACK OFFICE	GF- 43	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
28	POLICE POST	GF- 03	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
29	FIRE COMMAND CONTROL ROOM	GF- 42	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

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**FINISHES SCHEDULE GROUND FLOOR**

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
30	ELECTRICAL	GF- 38,80	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
31	UPS ROOM,	GF-39,53,70	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
32	SERVER ROOM & ELV	GF- 41	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
33	CLASS IV,HOUSE KEEPING	GF- 30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
34	TECHNICAIN ROOM, RADIOLOGIST ROOM	GF- 31,GF- 81,GF- 78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
35	RECOVERY	GF- 61	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
36	X-RAY, FLUOROSCOPY, MOBILE X-RAY, CONSOLE ROOM of MRI & CT SCAN, RADIOLOGIST WAITINGAREA	GF- 10,58,62,64,67	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
37	TREATMENT/TRIAGE ROOM	GF- 05	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
38	CT SCAN, MRI SCAN	GF- 60,71	2MM TK.ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
39	REPORT PEREPERATION	GF- 56	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
40	CAFFETRIA	GF- 48	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
41	CAFFETRIA PREPARATION	GF- 51	18MM THICK POLISHED KOTA STONE	KOTA STONE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS FIXED USING CEMENT MORTAR + PLASTER FINISH+ PRIMER+ TWO COATS+ OIL BOUND DISTEMPER	-
42	TROLLYBAY	GF- 52	18MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-

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**FINISHES SCHEDULE GROUND FLOOR**

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
43	<b>CORRIDOR</b>	-	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
44	<b>STAIRCASE</b>	ST-01,02,03,04,05	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
45	<b>MRI CHILLER</b>	GF- 55	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	-
46	<b>SERVICE ENTRY RAMP,MORGUE RAMP &amp; CAFETERIA RAMP</b>	-	CHEQUERED TILE WITH APPROVED COLOUR	-	-	-
47	<b>ENTRANCE STEPS</b>	-	GRANITE	-	-	-
48	<b>HOSPITAL RAMP</b>	-	CHEQUERED TILES WITH APPROVED COLOUR	-	-	-
49	<b>EMERGENCY EXIT STEPS</b>	-	18 MM THICK POLISHED KOTA STONE	-	-	-
50	<b>ENTRANCE COVERED PORCH</b>	-	100 MM THICK CONCRETE TREMIX FLOORING WITH COLORED EPOXY REIN PAINT (FIRE RESISTANT, CHEMICAL RESISTANT, ANTI SKED) AS PER SPECIFICATION	-	-	-



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**FINISHES SCHEDULE FIRST FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	CONSULTANT ROOM	FF - 01,02,03,05,08,09,12,14,18,57,58,59,62,63,66,68,74,76,77,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
2	INJECTION ROOM(M)	FF - 04	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
3	INJECTION ROOM(M&F)	FF - 69,70	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
4	INJECTION ROOM(F)	FF - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
5	HOD/VISITING FACULTY	FF -15, 15,63	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
6	SPEECH THERAPY, OCCUPATIONAL THERAPY,PHYSIOTHERAPY	FF - 06,10 ,11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
7	NCS ROOM	FF - 13	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
8	ATTACHED TOILET	FF - 16,22,23,72	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	GYPSUM PLAIN BOARD
9	COMMON TOILET (MALE & FEMALE)STAFF TOILET (M&F)	FF - 33,34,35,41,42,43,49,50,51	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
10	PROCEDURE / TREATMENT ROOM	FF - 19	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ANTIBACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	EMG,ECT	FF - 17,25	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

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**FINISHES SCHEDULE FIRST FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
12	EEG	FF - 20	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
13	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
14	SAMPLE COLLECTION (F&M)	FF - 21,24	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
15	TELEMEDICINE	FF - 26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
16	PANTRY	FF - 36	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR THICK LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR COUNTERS+ PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
17	CU	FF - 29	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
18	STORE	FF - 28	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
19	LIFT LOBBY	LL-03	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 600 X 600
20	LIFT LOBBY	LL-01,02,04	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC	GYPSUM PLAIN BOARD

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**FINISHES SCHEDULE FIRST FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
21	HOUSE KEEPING	FF -32	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	-
22	NON TEACHING STAFF ROOM	FF - 30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	-
23	CLASS IV/HOUSE KEEPING	FF -44	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
24	AHU	FF - 31,53,39	IPS FLOORING	12MM CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	
25	DEMO ROOM	FF - 37	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	GYPSUM PLAIN BOARD
26	NUTRITION	FF - 40	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	-
27	DEMO ROOM	FF - 38	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
28	ELECTRICAL ROOM	FF - 48	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	
29	SERVER ROOM	FF - 46	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
30	UPS ROOM	FF - 47	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	
31	ELV	FF - 45	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
32	CLEAN SUPPLY	FF - 75	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	-
33	URO-FLOROMETRY	FF - 73	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
34	PROCEDURE/DRESSING	FF - 71	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLICEMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

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**FINISHES SCHEDULE FIRST FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
35	URODYNAMIC LAB	FF - 67	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THICK DADO 600MM HIGH FOR ABOVE COUNTERS FIXED USING CEMENT MORTAR+ PLASTER FINISH+ PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
36	RENAL LAB	FF - 66	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
37	TMT	FF - 61	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
38	HOLTER ROOM	FF - 60	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
39	ECHO ROOM, ECG	FF - 54,55	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
40	DU	FF -52	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
41	WAITING		18 MM THICK POLISHED KOTA STONE		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
42	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
43	HOSPITAL RAMP		CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

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**FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	INTENSIVE CARE UNIT WARD (10 BEDS)	SF - 01,09	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
2	SLUICE	SF - 06,07,15,71,77	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
3	DU	SF - 05,08,16	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
4	EQUIPMENT ROOM	SF - 02,10	20 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
5	AHU ROOM	SF - 03,22,27,66	IPS FLOORING	-	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	
6	MEDICATION ROOM	SF - 04	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
7	MEDICATION ROOM	SF -67	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
8	NURSE'S LOUNGE	SF - 11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
9	ATTACHED TOILET	SF - 12,14,43,50,52,56,58,71,74	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
10	DUTY DOCTOR	SF - 13	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	CU	SF - 17,70	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-

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**FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
12	ISOLATION ICU	SF - 19	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
13	STORE	SF - 20	20 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
14	UPS ROOM	SF - 21,38	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
15	ANTE	SF - 18	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
16	ANTE	SF - 78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
17	HOUSE KEEPING	SF - 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
18	CLASS IV/HOUSE KEEPING	SF - 35	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
19	PANTRY	SF - 24,44	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS FIXED USING CEMENT MORTAR + OIL BOUND DISTEMPER	-
20	CSSD MANAGER	SF - 25	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
21	TROLLEY EXCHANGE	SF - 26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
22	CSSD	SF-28	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600



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**FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
23	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
24	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
25	CHANGE (M & F)	SF - 29,30,31	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
26	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
27	COMMON TOILET (MALE & FEMALE) STAFF TOILET (M&F) PHY-TOILET	GF-32,33,34,41,42,47	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
28	ELV	SF - 36	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
29	SERVER ROOM	SF - 37	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
30	ELECTRICAL	SF - 39	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
31	CENTRAL BLOOD STORE ROOM	SF - 40	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
32	PROF. HOD	SF - 45	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
33	DEPARTMENT OFFICE	SF - 48	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

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**FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
34	ASST. PROF	SF - 49	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
35	SUPPORT STAFF	SF - 51	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
36	ULTRASOUND	SF - 53	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
37	UPPER GI	SF - 59	2MM THICK ANTI STATIC VINYL FLOORING	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
38	RECOVERY	SF - 60	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
39	SR.RESIDENTS	SF - 66	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
40	ASSOC. PROF	SF - 55,57	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
41	DISINFECTION	SF - 61	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PRIMER + TWO COATS OIL BOUND DISTEMPER	-
42	UTILITY	SF - 62,63	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
43	LOWER GI	SF - 64	2MM THICK ANTI STATIC VINYL FLOORING	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
44	DIALYSIS EQUIPMENT ROOM	SF - 68	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
45	8 BEDS DIALYSIS COMPLEX	SF - 69	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

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**FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
46	STAFF LOUNGE	SF - 73	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
47	RO PLANT ROOM	SF - 75	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + PRIMER + TWO COATS OIL BOUND DISTEMPER	
48	ISOLATION	SF - 76	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
49	CLEAN SUPPLY	SF - 79	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
50	+VE WASH	SF - 80	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH + PRIMER + TWO COATS OIL BOUND DISTEMPER	-
51	GENERAL WASH	SF - 81	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PRIMER + TWO COATS OIL BOUND DISTEMPER	-
52	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
53	HOSPITAL RAMP		CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH + PRIMER + TWO COATS OIL BOUND DISTEMPER	-

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**FINISHES SCHEDULE THIRD FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	AHU ROOM	TF - 06,24,75	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINIISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
2	EQUIPMENT ROOM	TF - 02,25	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
3	EQUIPMENT ROOM	TF - 81	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
4	TSSU	TF - 20	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
5	RESIDENT DOCTOR	TF -11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
6	ATTACHED TOILET	TF - 03A,05,29,68,72, 73A,84,05	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
7	ATTACHED TOILET	TF -12,13,73A	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	GYPSUM PLAIN BOARD
8	ANESTHESIAN	TF - 14	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
9	OT PHARMACY	TF - 15	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
10	PATIENT RECOVERY	TF - 16	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	LINEN	TF - 18	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
12	CLEAN SUPPLY	TF-19	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT	-
13	BLOOD STORAGE	TF - 17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
14	STERILE STORAGE	TF - 08	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
15	OT CONTROL STATION	TF - 42	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
16	OT RECORD ROOM	TF - 4 0	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-

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**FINISHES SCHEDULE THIRD FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
17	RECEPTION & OT COMPLEX WAITING	TF - 38,39	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
18	UPS	TF - 34,49	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
19	FLASH STERILIZATAION	TF - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
20	BMW	TF - 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
21	DU	TF - 28,82	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
22	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	-	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
23	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	-	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
24	OT TECHNICIAN	TF - 01	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
25	NURSE LOUNGE	TF - 03,71	DOUBLE CHARGED VITRIFIED TILE (600 x 601) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
26	SURGEONS LOUNGE	TF - 04	DOUBLE CHARGED VITRIFIED TILE (600 x 602) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
27	CLASS IV ROOM, HOUSE KEEPING	TF - 26,59,27	DOUBLE CHARGED VITRIFIED TILE (600 x 603) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
28	CLASS IV ROOM / HOUSE KEEPING	TF - 46	DOUBLE CHARGED VITRIFIED TILE (600 x 604) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
29	PANTRY	TF - 33,58	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PRIMER+ TWO COATS OF OIL BOUND DISTEMPER	-

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**FINISHES SCHEDULE THIRD FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
30	PANTRY	TF - 74	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PRIMER+ TWO COATS OF OIL BOUND DISTEMPER	-
31	COMMON TOILET , PHY-TOILET	TF - 43,44,45	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
32	ELV	TF - 47	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINIISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
33	SERVER ROOM	TF - 48	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINIISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
34	ELECTRICAL	TF - 50	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINIISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
35	NURSES CHANGE ROOM	TF - 35	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
36	DOCTOR'S CHANGE ROOM FEMALE & MALE	TF - 36,37	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
37	ST AFF CHANGE ROOM FEMALE & MALE	TF - 62,63	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
38	PATHOLOGY LAB	TF - 51	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THICK DADO 600MM HEIGHT FOR ABOVE COUNTERS +PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
39	UTILITY	TF - 52	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
40	STORE	TF - 53,61,79	18 mm tk. POLISHED KOTA STONE	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
41	MICRO BIOLOGY LAB	TF - 54	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS +PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600
42	CYTO HISTOLOGY LAB	TF - 55	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS+ PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600
43	CYTOLOGY LAB	TF - 56	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	300X300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + +PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600



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**FINISHES SCHEDULE THIRD FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
44	LAB INCHARGE	TF - 57	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600
45	STAFF ROOM	TF - 60	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600X600
46	IPD PHARMACY	TF - 65	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600X600
47	SLUICE	TF - 83	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
48	4 BEDS PRE OPERATIVE WARD	TF - 31	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING 600X600
49	CU	TF - 30	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
50	DUTY DOCTOR	TF - 67,73	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING 600X600
51	DEMO ROOM	TF - 76,77,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING 600X600
52	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
53	8 BEDS POST OPERATIVE WARD	TF - 80	2MM THICK VINYL STATIC FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING 600X600
54	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
55	PREPARATION	TF - 32	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
56	HOSPITAL RAMP		CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FOURTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	COMMON TOILET (M & F), STAFF TOILET (M & F) & PH TOILET	FO - 01,02,05,32,33,36,37,38,44,45,46	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
2	DU	FO - 13,72,75,83	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
3	CU	FO - 12,74,84	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
4	CLASS IV ROOM /HOUSE KEEPING	FO - 39	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
5	HOUSE KEEPING	FO - 03,73	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
6	STORE	FO - 21	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
7	PANTRY	FO - 06,48	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
8	TREATMENT ROOM	FO - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
9	10 BEDS WARD MALE & FEMALE	FO - 04,10,11,18	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH + PRIMER+ POLY URETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
10	ATTACHED TOILETS	FO - 08,15,16,24,26,28,31,47,51,81	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
11	NURSE LOUNGE	FO - 09,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
12	MEDICATION ROOM	FO - 67	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
13	DUTY DOCTOR	FO - 14,17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
14	DOFFING CHANGE	FO - 20,22	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
15	PG STUDENTS	FO - 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
16	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
17	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
18	DEPARTMENT OFFICE ROOM	FO - 34,52	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FOURTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
19	SR.RESIDENTS	FO - 54,29	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
20	ASSOC. PROF & ASST. PROF	FO - 25,27,35,50,53	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
21	PROF. HOD	FO - 30,49	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
22	ELV	FO - 40	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-
23	UPS	FO - 42,56	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-
24	SERVER ROOM	FO - 41	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-
25	ELECTRICAL ROOM	FO - 43	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-
26	CATH CONSULTANT	FO - 88	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
27	CATH EXAMINATION	FO - 87	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
28	CHANGE (M & F)	FO - 58,59,60,61,62	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
29	CATH PREPERATION	FO -86	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
30	EQUIPMENT STORE	FO - 63	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
31	CATH WASH AREA	FO - 64	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PRIMER + TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD
32	CATH WASH AREA	FO - 76	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + OIL BOUND DISTEMPER	-
33	ANGIOGRAPHY SUITE (SINGLE-PLANE-1) & (BY-PLANE-1)	FO - 65,71	2MM THK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
34	ICCU BEDS	FO - 85	2MM THK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
35	SLUICE	FO - 82	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ CEMENT PAINT UPTO CEILING	-
36	CENTRAL CONSOLE	FO - 68	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
37	CATH EQUIP.	FO - 69 ,70	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FOURTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
38	RECOVERY	FO - 80	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
39	AHU ROOM	FO - 57,77	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	
40	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
41	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
42	REFUGE TERRACE		HEAT RESISTANT TILES (300 x 300)	-		
43	HOSPITAL RAMP		CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FIFTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	<b>COMMON TOILET (M &amp; F), STAFF TOILET (M &amp; F) &amp; PH TOILET</b>	FI - 01,02,05,30,31,34,35,36	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
2	<b>DU</b>	FI - 13,93	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
3	<b>CU</b>	FI - 12,89	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
4	<b>CLASS IV ROOM /HOUSE KEEPING</b>	FI - 37	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
5	<b>HOUSE KEEPING</b>	FI - 03	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
6	<b>STORE</b>	FI - 21	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
7	<b>PANTRY</b>	FI - 06	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
8	<b>TREATMENT ROOM</b>	FI - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
9	<b>10 BEDS WARD MALE &amp; FEMALE</b>	FI - 04,10,11,17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
10	<b>ATTACHED TOILETS</b>	FI - 08,15,16A,23,25,31,42, 45,46A,48,50,52,54,56, 58,60,61A,62A,64,66,6 8,70,72,64,76,78,80,82, 84,86,88,92	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
11	<b>NURSE LOUNGE</b>	FI - 09	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
12	<b>DUTY DOCTOR</b>	FI - 14,16	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
13	<b>DOFFING CHANGE</b>	FI - 20,22	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FIFTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
14	PG STUDENTS	FI - 18	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
15	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
16	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
17	DEPARTMENT OFFICE ROOM	FI - 32	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
18	SR.RESIDENTS	FI - 29	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
19	ASSOC. PROF & ASST. PROF	FI - 24,26,33,29	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
20	ASST. PROF	FI - 33	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
21	PROF. HOD	FI - 28	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
22	ELV	FI - 38	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
23	UPS	FI - 40	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
24	SERVER ROOM	FI - 39	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
25	ELECTRICAL ROOM	FI - 41	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
26	PAYING CABIN	FI - 43,44,46,47,49,51,53,55,57,59,61,62,63,65,67,69,71,73,75,77,79,81,83,85,87	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600



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**FINISHES SCHEDULE FIFTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
27	WARD LAB	FI -91	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK DADO 600MM HIGH FOR ABOVE COUNTERS MORTAR + PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	-
28	MEDICATION ROOM	FI - 90	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
29	CORRIDOR	-	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
30	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	
31	HOSPITAL RAMP	-	CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE SIXTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	COMMON TOILET (M & F), STAFF TOILET (M & F) & PH TOILET	SI - 01,02,05,32,33,36,37,38, 44,45,46	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
2	DU	SI - 13	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
3	CU	SI - 12	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
4	CLASS IV ROOM ,HOUSE KEEPING	SI - 39	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
5	HOUSE KEEPING	SI - 03	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
6	PANTRY	SI - 06,48,73	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	,GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
7	TREATMENT ROOM	SI - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
8	10 BEDS WARD MALE & FEMALE	SI - 04,10,11,18	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
9	ATTACHED TOILETS	SI - 08,15,16,24,25,27,30,47, 58,63,65,72,77	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
10	NURSE LOUNGE	SI - 09	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
11	AIR LOCK	SI - 19	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
12	DUTY DOCTOR	SI - 14,17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
13	DOFFING CHANGE	SI - 20,22	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
14	PG STUDENTS	SI - 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
15	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE SIXTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
16	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
17	DEPARTMENT OFFICE ROOM	SI - 34,51	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
18	SR.RESIDENTS	SI - 29,50	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
19	ASSOC. PROF & ASST. PROF	SI - 24,26,28,29,50,62,64	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
20	PROF. HOD	SI - 31,49	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
21	ELV	SI - 40	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
22	UPS	SI - 42	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
23	SERVER ROOM	SI - 41	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
24	ELECTRICAL ROOM	SI - 43	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
25	CHIEF LIBRARIAN,ASSISTANT LIBRARIAN,DEPUTY LIBRARIAN	SI - 53,55,56	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
26	OFFICE ROOM	SI -54, 80	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
27	LIBRARY	SI - 57	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
28	DIGITAL LIBRARY	SI - 60	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
29	ANTE	SI - 59,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
30	NURSING SUPERINTENDENT	SI - 67	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
31	DEPUTY SUPERINTENDENT	SI - 69	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
32	RECORD ROOM	SI - 68	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600

**SILCHAR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE SIXTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
33	PA ROOM	SI - 75	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
34	STAFF DINNING AREA	SI - 70	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
35	CHIEF SUPERINTENDENT	SI - 76	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
36	SEMINAR HALL	SI - 66	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
37	WAITING AREA	SI - 74	DOUBLE CHARGED VITRIFIED TILE (600 x 600)	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
38	MRD	SI - 71	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
39	CONFERENCE ROOM	SI - 79	WOODEN FLOORING	-	75MM THK.LAMINATED WOODEN PANELLING UPTO 1200MM HEIGHT+ 75MM THK. ACOUSTIC WALL PANELLING UPTO FALSE CEILING + ABOVE FALSE CEILING WHITE WASH	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
40	CORRIDOR	-	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
41	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
42	HOSPITAL RAMP	-	CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

**SILCHAR SUPER SPECIALTY HOSPITAL****FINISHES SCHEDULE TERRACE FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	LIFT MACHINE ROOM		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER + TWO COATS OIL BOUND DISTEMPER	-
2	STORE ROOM		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH + PRIMER + TWO COATS + OIL BOUND DISTEMPER	-
3	HVAC PANEL ROOM		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER + TWO COATS OIL BOUND DISTEMPER	-
4	UPS		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER + TWO COATS OIL BOUND DISTEMPER	-
5	ELECTRICAL ROOM		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER + TWO COATS OIL BOUND DISTEMPER	-
6	TERRACE		HEAT RESISTANT TILES (300 x 300)	75X75MM GOLA IN CEMENTCONCRETE	-	-

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE GROUND FLOOR**

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	ENTRANCE LOBBY	-	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	-	GRANITE WALL CLADDING 12TK OF APPROVED COLOUR USING 2100 MM HEIGHT + PLASTER FINISH +TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
2	DOCTOR ROOM, CCMO ROOM	GF- 06,09	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
3	POLICE POST	GF- 03,	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
4	STOMACH WASH	GF- 12	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
5	WASH	GF- 51	18 MM THICK POLISHED KOTA STONE		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
6	DU	GF- 14,74	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
7	CU	GF- 15	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
8	CHANGE (M & F)	GF- 21, GF- 22,GF-67	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
9	6 BEDS OBSERVATION, 6 BEDS TRIAGE AREA	GF- 11,GF- 13	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
10	NURSE LOUNGE	GF- 24	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	PHARMACY STORE,LINEN STORE & LINEN	GF- 01,17,30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
12	PHARMACY STORE	GF- 47	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
13	MINOR OT	GF- 27	CONDUCTIVE VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	-
14	EMERGENCY ICU	GF- 20	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 60
15	EMERGENCY LAB,	GF- 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
16	RESUSCITATION ROOM	GF- 04	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
17	AHU ROOM	GF- 16,GF- 55,78	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS+ OIL BOUND DISTEMPER	
18	EQUIPMENT STORE & STORE	GF-69,70	18 MMTHICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+ PRIMER+ TWO COATS+ OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600, GYPSUM PLAIN BOARD & CALCIUM SILICATE BOARD
19	EQUIPMENT STORE	GF-75	18 MMTHICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-



**BARPETA SUPER SPECIALTY HOSPITAL**  
**FINISHES SCHEDULE GROUND FLOOR**

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
20	STERILE STORE	GF-26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FIBRE FALSE CEILING TILES 600 X 600
21	LIFT LOBBY	LL- 01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
22	LIFT LOBBY	LL- 03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
23	COMMON TOILET (MALE & FEMALE)STAFF TOILET (M&F) PHY- TOILET	GF- 02,29,33,34,35,36,37,76,77	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	
24	ATTACHED TOILET	GF- 07,08,19,25,80	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
25	PHARMACY	GF- 46	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
26	REGISTRATION COUNTER / BILL DESK	GF- 44,48	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
27	BACK OFFICE	GF- 43	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
28	POLICE POST	GF- 03	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
29	FIRE COMMAND CONTROL ROOM	GF- 42	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
30	ELECTRICAL	GF- 38,81	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
31	UPS ROOM,	GF-39,53,70	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
32	SERVER ROOM & ELV	GF- 40,41	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
33	LINEN STORE	GF- 30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
34	TECHNICAIN ROOM, RADIOLOGIST ROOM	GF- 31,GF- 82,GF- 79	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
35	RECOVERY	GF- 62	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
36	X-RAY, FLUOROSCOPY, MOBILE X-RAY, CONSOLE ROOM of MRI & CT SCAN, RADIOLOGIST WAITINGAREA	GF- 10,59,63,65,60,64,66	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
37	TREATMENT/TRIAGE ROOM	GF- 05	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
38	CT SCAN, MRI SCAN	GF- 61,72	2MM TK.ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

**BARPETA SUPER SPECIALTY HOSPITAL  
FINISHES SCHEDULE GROUND FLOOR**

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
39	REPORT PEREPERATION	GF- 57	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
40	CAFFETRIA	GF- 49	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
41	CAFFETRIA PREPARATION	GF- 52	18MM THICK POLISHED KOTA STONE	KOTA STONE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS FIXED USING CEMENT MORTAR + PLASTER FINISH+ PRIMER+ TWO COATS+ OIL BOUND DISTEMPER	-
42	TROLLYBAY	GF- 53	18MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
43	CORRIDOR	-	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
44	STAIRCASE	ST- 01,02,03,04,05	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
45	MRI CHILLER	GF- 56	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	
46	SERVICE ENTRY RAMP,MORGUE RAMP & CAFET ERIA RAMP	-	CHEQUERED TILE WITH APPROVED COLOUR		-	-
47	ENTRANCE STEPS	-	GRANITE		-	-
48	HOSPITAL RAMP	-	CHEQUERED TILES WITH APPROVED COLOUR		-	-
49	EMERGENCY EXIT STEPS	-	18 MM THICK POLISHED KOTA STONE		-	-
50	ENTRANCE COVERED PORCH	-	100 MM THICK CONCRETE TREMIX FLOORING WITH COLORED EPOXY REIN PAINT (FIRE RESISTANT, CHEMICAL RESISTANT, ANITI SKED) AS PER SPECIFICATION			

BARPETA SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE FIRST FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	CONSULTANT ROOM	FF - 01,02,03,05,08,09,12,14,18,57,58,56,67,75,73,76,77,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
2	CARDIAC SURGERY / NEUROLOGY / NEURO SURGERY	-	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
3	INJECTION ROOM(M)	FF - 04	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
4	INJECTION ROOM(M&F)	FF - 68,69	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
5	INJECTION ROOM(F)	FF - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
6	HOD/VISITING FACULTY	FF -15, 62	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
7	SPPECH THERAPY, OCCUPATIONAL THERAPY,PHYSIOTHERAPY	FF - 06,11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
8	NCS ROOM	FF - 09	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
9	ATTACHED TOILET	FF - 16,22,23,71,37a	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	GYPSUM PLAIN BOARD
10	COMMON TOILET (MALE & FEMALE)STAFF TOILET (M&F)	FF - 33,34,35,41,42,43,49,50,18	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
11	PROCEDURE / TREATMENT ROOM	FF - 19	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
12	EMG,ECT	FF - 17,25	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
13	EEG	FF - 20	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
14	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
15	SAMPLE COLLECTION (F&M)	FF - 21,24	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
16	TELEMEDICINE	FF - 26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
17	PANTRY	FF - 36	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR THICK LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR COUNTERS + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
18	CU	FF - 29	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FIRST FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
19	STORE	FF - 28	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
20	LIFT LOBBY	LL-03	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 600 X 600
21	LIFT LOBBY	LL-01,02,04	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
22	HOUSE KEEPING	FF -32	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
23	NON TEACHING STAFF ROOM	FF - 30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
24	CLASS IV/HOUSE KEEPING	-	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
25	AHU	FF - 31,52,38	IPS FLOORING	12MM CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	
26	DEMO ROOM	FF - 40	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
27	DEMO ROOM	FF - 40	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
28	ELECTRICAL ROOM	FF - 47	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	
29	SERVER ROOM	FF - 44	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
30	UPS ROOM	FF - 46	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	
31	ELV	FF - 45	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
32	CLEAN SUPPLY	FF - 74	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
33	URO-FLOROMETRY	FF - 72	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
34	PROCEDURE/ DRESSING	FF - 70	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
35	URODYNAMIC LAB	FF - 66	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THICK DADO 600MM HIGH FOR ABOVE COUNTERS FIXED USING CEMENT MORTAR+ PLASTER FINISH+ PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
36	RENAL LAB	FF - 65	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
37	TMT	FF - 60	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FIRST FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
38	HOLTER ROOM	FF - 59	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
39	ECHO ROOM, ECG	FF - 53,54	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
40	DU	FF -51	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
41	WAITING		18 MM THICK POLISHED KOTA STONE		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
42	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
43	HOSPITAL RAMP		CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

BARPETA SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE SECOND FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	INTENSIVE CARE UNIT WARD (10 BEDS)	SF - 01,09	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
2	SLUICE	SF - 06,07,15,71,77	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
3	DU	SF - 05,08,16	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
4	EQUIPMENT ROOM	SF - 02,10	20 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
5	AHU ROOM	SF - 03,22,27,66	IPS FLOORING	-	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
6	MEDICATION ROOM	SF - 04	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
7	MEDICATION ROOM	SF -67	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
8	NURSE'S LOUNGE	SF - 11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
9	ATTACHED TOILET	SF - 12,14,43,50,52,56,58,72,74	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
10	DUTY DOCTOR	SF - 13	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	CU	SF - 17,70	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
12	ISOLATION ICU	SF - 19	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
13	STORE/CLEAN LOUNDRY	SF - 20	20 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
14	UPS ROOM	SF - 21,37	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
15	ANTE	SF - 18	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
16	ANTE	SF - 78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
17	HOUSE KEEPING	SF - 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-



BARPETA SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE SECOND FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
18	PANTRY	SF - 24,44	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS FIXED USING CEMENT MORTAR + OIL BOUND DISTEMPER	-
19	CSSD MANAGER	SF - 25	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
20	TROLLEY EXCHANGE	SF - 26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
21	CSSD	SF-28	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
22	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
23	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
24	CHANGE (M & F)	SF - 29,30,31	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
25	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
26	COMMON TOILET (MALE & FEMALE) STAFF TOILET (M&F) PHY-TOILET	GF-32,33,34,41,42,47	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
27	ELV	SF - 36	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
28	SERVER ROOM	SF - 35	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
29	ELECTRICAL	SF - 38	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
30	CENTRAL BLOOD STORE ROOM	SF - 40	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
31	PROF. HOD	SF - 45	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
32	DEPARTMENT OFFICE	SF - 48	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

BARPETA SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE SECOND FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
33	ASST. PROF	SF - 54	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
34	SUPPORT STAFF	SF - 51	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
35	ULTRASOUND	SF - 53	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
36	UPPER GI	SF - 59	2MM THICK ANTI STATIC VINYL FLOORING	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
37	RECOVERY	SF - 60	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
38	SR.RESIDENTS	SF - 49	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
39	ASSOC. PROF	SF - 55,57	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
40	DISINFECTION	SF - 61	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PRIMER + TWO COATS OIL BOUND DISTEMPER	-
41	UTILITY	SF - 62,63	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
42	LOWER GI	SF - 64	2MM THICK ANTI STATIC VINYL FLOORING	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
43	DIALYSIS EQUIPMENT ROOM	SF - 68	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
44	8 BEDS DIALYSIS COMPLEX	SF - 69	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
45	STAFF LOUNGE	SF - 73	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
46	RO PLANT ROOM	SF - 75	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + PRIMER + TWO COATS OIL BOUND DISTEMPER	
47	ISOLATION	SF - 76	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
48	CLEAN SUPPLY	SF - 79	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
49	+VE WASH	SF - 80	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH + PRIMER + TWO COATS OIL BOUND DISTEMPER	-
50	GENERAL WASH	SF - 81	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PRIMER + TWO COATS OIL BOUND DISTEMPER	-

**BARPETA SUPER SPECIALTY HOSPITAL****FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
51	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
52	HOSPITAL RAMP		CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH + PRIMER + TWO COATS OIL BOUND DISTEMPER	-

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE THIRD FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	AHU ROOM	TF - 06,23,73	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
2	EQUIPMENT ROOM	TF - 01A,25	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
3	EQUIPMENT ROOM	TF - 82	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
4	TSSU	TF - 18	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
5	RESIDENT DOCTOR	TF -11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
6	ATTACHED TOILET	TF - 03A,04,29,68,14, 81,67,69,71A,	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
7	ATTACHED TOILET	TF -12,13,73A	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	GYPSUM PLAIN BOARD
8	ANESTHESIAN	TF - 13	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
9	OT PHARMACY	TF - 16	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
10	PATIENT RECOVERY	TF - 15	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	LINEN	TF - 22	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
12	CLEAN SUPPLY	TF-17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT	-
13	BLOOD STORAGE	TF - 21	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
14	STERILE STORAGE	TF - 08	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
15	OT CONTROL STATION	TF - 41	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
16	OT RECORD ROOM	TF - 4 0	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
17	RECEPTION & OT COMPLEX WAITING	TF - 39	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
18	UPS	TF - 34,47	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
19	FLASH STERILIZATAION	TF - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
20	BMW	TF - 24	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE THIRD FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
21	DU	TF - 28,78	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
22	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	-	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
23	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	-	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
24	OT TECHNICIAN	TF - 01	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
25	NURSE LOUNGE	TF - 02,70	DOUBLE CHARGED VITRIFIED TILE (600 x 601) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
26	SURGEONS LOUNGE	TF - 05	DOUBLE CHARGED VITRIFIED TILE (600 x 602) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
27	CLASS IV ROOM, HOUSE KEEPING	TF - 26,57,27	DOUBLE CHARGED VITRIFIED TILE (600 x 603) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
28	PANTRY	TF - 33,56	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PRIMER+ TWO COATS OF OIL BOUND DISTEMPER	-
29	PANTRY	TF - 72	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PRIMER+ TWO COATS OF OIL BOUND DISTEMPER	-
30	COMMON TOILET , PHY-TOILET	TF - 42,43,44	300X300MM ANTISKID CERAMIC TILES OF 7-9MM TK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
31	ELV	TF - 46	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
32	SERVER ROOM	TF - 45	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
33	ELECTRICAL	TF - 48	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
34	NURSES CHANGE ROOM	TF - 38	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
35	DOCTOR'S CHANGE ROOM FEMALE & MALE	TF - 35,37	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
36	ST AFF CHANGE ROOM FEMALE & MALE	TF - 60,61	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE THIRD FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
37	PATHOLOGY LAB	TF - 49	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THICK DADO 600MM HEIGHT FOR ABOVE COUNTERS +PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
38	UTILITY	TF - 50	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
39	STORE	TF - 51,77	18 mm tk. POLISHED KOTA STONE	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
40	MICRO BIOLOGY LAB	TF - 52	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS +PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600
41	CYTO HISTOLOGY LAB	TF - 53	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS+ PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600
42	CYTOLOGY LAB	TF - 54	2MM ANTISTATIC VINYL FLOORING	VINYL COVING	300X300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + +PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600
43	LAB INCHARGE	TF - 55	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600
44	STAFF ROOM	TF - 58	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600X600
45	IPD PHARMACY	TF - 63	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600X600
46	SLUICE	TF - 80	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
47	4 BEDS PRE OPERATIVE WARD	TF - 31	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING 600X600
48	CU	TF - 30	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
49	DUTY DOCTOR	TF - 65,71	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING 600X600
50	DEMO ROOM	TF - 76,75,74	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING 600X600
51	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
52	8 BEDS POST OPERATIVE WARD	TF - 79	2MM THICK VINYL STATIC FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING 600X600



**BARPETA SUPER SPECIALTY HOSPITAL****FINISHES SCHEDULE THIRD FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
53	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
54	PREPARATION	TF - 32	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
55	HOSPITAL RAMP		CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

BARPETA SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE FOURTH FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	COMMON TOILET (M & F), STAFF TOILET (M & F) & PH TOILET	FO - 01,02,05,32,33,36,37,38,43,44,45	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
2	DU	FO - 13,70,73,81	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
3	CU	FO - 12,72,82	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
4	HOUSE KEEPING	FO - 71	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
5	STORE	FO - 21	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
6	PANTRY	FO - 06,47	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
7	TREATMENT ROOM	FO - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
8	10 BEDS WARD MALE & FEMALE	FO - 04,10,11,18	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH + PRIMER+ POLY URETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
9	ATTACHED TOILETS	FO - 08,15,16,24,26,28,31,51,77,79	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
10	NURSE LOUNGE	FO - 09	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
11	MEDICATION ROOM	FO - 65	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
12	DUTY DOCTOR	FO - 14,17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
13	DOFFING CHANGE	FO - 20,22	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
14	PG STUDENTS	FO - 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
15	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
16	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
17	DEPARTMENT OFFICE ROOM	FO - 34,50	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
18	SR.RESIDENTS	FO - 52,29	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
19	ASSOC. PROF & ASST. PROF	FO - 25,27,49,51	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

BARPETA SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE FOURTH FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
20	PROF. HOD	FO - 30,48	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
21	ELV	FO - 40	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-
22	UPS	FO - 41,55	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-
23	SERVER ROOM	FO - 39	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-
24	ELECTRICAL ROOM	FO - 42	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-
25	CATH CONSULTANT	FO - 86	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
26	CATH EXAMINATION	FO - 85	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
27	CHANGE (M & F)	FO - 58,59,60,57	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
28	CATH PREPERATION	FO -84	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
29	EQUIPMENT STORE	FO - 61	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
30	CATH WASH AREA	FO - 62	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + PRIMER + TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD
31	CATH WASH AREA	FO - 74	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + OIL BOUND DISTEMPER	-
32	ANGIOGRAPHY SUITE (SINGLE-PLANE-1) & (BY-PLANE-1)	FO - 63,69	2MM THK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
33	ICCU BEDS	FO - 83	2MM THK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
34	SLUICE	FO - 80	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ CEMENT PAINT UPTO CEILING	-
35	CENTRAL CONSOLE	FO - 66	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
36	CATH EQUIP.	FO - 67,68	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
37	RECOVERY	FO - 78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
38	AHU ROOM	FO - 75,86	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
39	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
40	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-

**BARPETA SUPER SPECIALTY HOSPITAL****FINISHES SCHEDULE FOURTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
41	REFUGE TERRACE		HEAT RESISTANT TILES (300 x 300)	-		
42	HOSPITAL RAMP		CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER	-

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FIFTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	COMMON TOILET (M & F), STAFF TOILET (M & F) & PH TOILET	FI - 01,02,05,30,31,34,35,3 6	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
2	DU	FI - 13,93	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
3	CU	FI - 12,89	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
4	HOUSE KEEPING	FI - 03	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
5	STORE	FI - 21	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
6	PANTRY	FI - 06	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
7	TREATMENT ROOM	FI - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
8	10 BEDS WARD MALE & FEMALE	FI - 04,10,11,17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
9	ATTACHED TOILETS	FI - 08,15,16A,23,25,31,18 A,28,41,44,45,46A,48,5 0,52,54,56,58,60,61A,6 2A,64,66,68,70,72,74,6 4,76,78,80,82,84,86,88, 92	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
10	NURSE LOUNGE	FI - 09	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
11	DUTY DOCTOR	FI - 14,16	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
12	DOFFING CHANGE	FI - 20,22	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
13	PG STUDENTS	FI - 18	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FIFTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
14	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
15	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
16	DEPARTMENT OFFICE ROOM	FI - 32	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
17	SR.RESIDENTS	FI - 33,27	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
18	ASSOC. PROF & ASST. PROF	FI - 24,26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
19	ASST. PROF	FI - 33	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
20	PROF. HOD	FI - 29	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
21	ELV	FI - 38	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
22	UPS	FI - 39	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
23	SERVER ROOM	FI - 37	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
24	ELECTRICAL ROOM	FI - 40	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-
25	PAYING CABIN	FI - 42,43,44,46,47,49,51,53,55,57,59,61,62,63,65,67,69,71,73,75,77,79,81,83,85,87	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
26	WARD LAB	FI -91	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK DADO 600MM HIGH FOR ABOVE COUNTERS MORTAR + PLASTER FINISH + PRIMER+ ANTI BACTERIAL ACRYLIC EMULSION PAINT	-



**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE FIFTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
27	MEDICATION ROOM	FI - 90	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
28	CORRIDOR	-	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
29	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	
30	HOSPITAL RAMP	-	CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

BARPETA SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE SIXTH FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	COMMON TOILET (M & F), STAFF TOILET (M & F) & PH TOILET	SI - 01,02,05,32,33,36,37,38, 43,44,45,46	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
2	DU	SI - 13	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
3	CU	SI - 12	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HEIGHT FOR ABOVE COUNTERS + CEMENT PAINT UPTO CEILING	-
4	HOUSE KEEPING	SI - 03	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
5	PANTRY	SI - 06,47,71	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
6	TREATMENT ROOM	SI - 07	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
7	10 BEDS WARD MALE & FEMALE	SI - 04,10,11,18	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
8	ATTACHED TOILETS	SI - 08,15,16,24,25,27,30,57, 62,64,70	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
9	NURSE LOUNGE	SI - 09	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
10	AIR LOCK	SI - 19	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
11	DUTY DOCTOR	SI - 14,17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
12	DOFFING CHANGE	SI - 20,22	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
13	PG STUDENTS	SI - 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
14	LIFT LOBBY	LL-01,02,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
15	LIFT LOBBY	LL-03	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO UPTO 2100MM HEIGHT OF APPROVED COLOUR IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
16	DEPARTMENT OFICE ROOM	SI - 34,50	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
17	SR.RESIDENTS	SI - 29,50	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
18	ASSOC. PROF & ASST. PROF	SI - 26,28,61,63,51,35	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
19	PROF. HOD	SI - 31,48	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
20	ELV	SI - 40	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
21	UPS	SI - 41	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
22	SERVER ROOM	SI - 39	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600

**BARPETA SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE SIXTH FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
23	ELECTRICAL ROOM	SI - 42	IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
24	CHIEF LIBRARIAN,ASSISTANT LIBRARIAN,DEPUTY LIBRARIAN	SI - 52,55,54	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
25	OFFICE ROOM	SI -53	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
26	LIBRARY	SI - 56	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
27	DIGITAL LIBRARY	SI - 59	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
28	ANTE	SI - 58,76	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
29	NURSING SUPERINTENDENT	SI - 67	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
30	DEPUTY SUPERINTENDENT	SI - 67A	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
31	PA ROOM	SI - 72	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
32	STAFF DINNING AREA	SI - 68	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
33	CHIEF SUPERINTENDENT	SI - 74	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
34	SEMINAR HALL	SI - 65	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
35	WAITING AREA	SI - 73	DOUBLE CHARGED VITRIFIED TILE (600 x 600)	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
36	MRD	SI - 69	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
37	CONFERENCE ROOM	SI - 77	WOODEN FLOORING	-	75MM THK.LAMINATED WOODEN PANELLING UPTO 1200MM HEIGHT+ 75MM THK. ACOUSTIC WALL PANELLING UPTO FALSE CEILING + ABOVE FALSE CEILING WHITE WASH	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
38	CORRIDOR	-	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
39	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
40	HOSPITAL RAMP	-	CHEQUERED TILES WITH APPROVED COLOUR	-	PLASTER FINISH+ PRIMER+ TWO COATS OIL BOUND DISTEMPER	-

**BARPETA SUPER SPECIALTY HOSPITAL  
FINISHES SCHEDULE TERRACE FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	LIFT MACHINE ROOM		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER + TWO COATS OIL BOUND DISTEMPER	-
2	STORE ROOM		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH + PRIMER + TWO COATS + OIL BOUND DISTEMPER	-
3	HVAC PANEL ROOM		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER + TWO COATS OIL BOUND DISTEMPER	
4	UPS		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER + TWO COATS OIL BOUND DISTEMPER	-
5	ELECTRICAL ROOM		IPS FLOORING	12MM TK CEMENT PLASTER	PLASTER FINISH+ PRIMER + TWO COATS OIL BOUND DISTEMPER	-
6	TERRACE		HEAT RESISTANT TILES (300 x 300)	75X75MM GOLA IN CEMENTCONCRETE	-	

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE GROUND FLOOR

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	ENTRANCE LOBBY	-	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	-	12MM THK GRANITE OF APPROVED COLOUR UPTO 2100 MM HEIGHT + ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
2	POLICE POST	GF- 01,	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT UPTO CEILING	-
3	DOCTOR ROOM, CCMO ROOM	GF- 07,28	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
4	STOMACH WASH	GF- 12	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
5	WASH AREA AT KITCHEN	GF- 51	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
6	DU	GF- 09,47,59	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
7	CU	GF- 13	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
8	CHANGE (M & F)	GF-42,58,90,91	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	-
9	6 BEDS TRIAGE AREA	GF- 11,17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + PRIMER + POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
10	8 BEDS DIALYSIS WARD	GF - 34	2MM TK.ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
11	NURSE LOUNGE	GF- 24	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
12	LINEN ROOM	GF- 14	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK DADO UPTO 2100MM HEIGHT FIXED + CEMENT PAINT UPTO CEILING	S
13	DIRTY LINEN STORE	GF - 32	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK DADO UPTO 2100MM HEIGHT FIXED + CEMENT PAINT UPTO CEILING	-
14	PHARMACY STORE	GF - 62	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
15	EMERGENCY PHARMACY	GF- 03	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
16	MINOR OT	GF- 60	CONDUCTIVE VINYL FLOORING	VINYL COVING	PLASTER FINISH + PRIMER + POLYURETHENE PAINT	GYPSUM PLAIN BOARD
17	EMERGENCY ICU	GF- 20	2MM TK.ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH + PRIMER + POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE GROUND FLOOR

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
18	RESUSCITATION ROOM	GF- 04	2MM TK.ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ANTI BACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
19	AHU ROOM	GF- 23,	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
20	AHU ROOM FOR DIALYSIS & RADIOLOGY DEPARTMENT	GF - 33,84	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
21	EQUIPMENT STOREE	GF-46	20 MMTHICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	-
22	EQUIPMENT STORE AT RADIOLOGY DEPARTMENT	GF-85,89	20 MMTHICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
23	STERILE STORE	GF-56	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
24	LIFT LOBBY	GF- 54,73	18mm tk. POLISHED GRANITE OF APPROVED COLOUR		GRANITE DADO OF APPROVED COLOUR UPTO 2100MM HEIGHT IN LIFT FACIA WALL ONLY AND OTHER SIDE WALLS WITH 100MM SKIRTING + ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
25	COMMON TOILET (MALE & FEMALE)STAFF TOILET (M&F) PHY- TOILET	GF-27,49,104	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO TILL 2100MM HEIGHT FIXED USING MORTAR + CEMENT PAINT UPTO CEILING	
26	ATTACHED TOILET	GF-25,26a	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO TILL 2100MM HEIGHT FIXED USING MORTAR + CEMENT PAINT UPTO CEILING	-
27	ATTACHED TOILET	GF-08,105, 109,102	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO TILL 2100MM HEIGHT FIXED USING MORTAR + CEMENT PAINT UPTO CEILING	GYPSUM PLAIN BOARD
28	REGISTRATION COUNTER	GF- 64	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	GRANITE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
29	EMERGENCY PHARMACY,	GF- 03	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
30	POLICE POST	GF- 43	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	-
31	FIRE COMMAND CONTROL ROOM	GF- 61	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
32	ELECTRICAL	GF- 66	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE GROUND FLOOR

S.No.	ROOM NAME	ROOM NO	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
33	UPS ROOM,	GF-19,72,74,83	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
34	SERVER ROOM & ELV	GF- 31	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
35	CLASS IV,HOUSE KEEPING	GF- 80	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
36	TECHNICAIN ROOM, RADIOLOGIST ROOM	GF- 100,101	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
37	RECOVERY	GF- 93	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
38	X-RAY, FLUOROSCOPY, MOBILE X-RAY, CONSOLE ROOM of MRI & CT SCAN,TREATMENT	GF- 86,87,88,95,96,98 ,99	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
39	X-RAY	GF- 95	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
40	CT SCAN, MRI SCAN	GF-82,94	2MM TK.ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
41	REPORT PEREPERATION	GF- 107	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
42	DINING	GF- 53	20 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD
43	CLEAN SUPPLY	GF- 48	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + OIL BOUND DISTEMPER	-
44	CANTEEN PREPARATION & SERVING COUNTER	GF- 50,52	20MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	-
45	CORRIDOR	-	18MM THICK POLISHED GRANITE OF APPROVED COLOUR		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO TILL 2100MM HEIGHT FIXED USING MORTAR + CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600 TILES
46	STAIRCASE	ST- 01,02,03,04,05	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH + TWO COAT PUTTY + PRIMER + ACRYLIC EMULSION PAINT	-
47	MRI CHILLER	GF- 97	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	
48	SERVICE ENTRY RAMP,MORGUE RAMP & CAFETERIA RAMP	-	CHEQUERED TILE ( 300 x 300) WITH APPROVED COLOUR	CHEQUERED TILE	-	-
49	ENTRANCE STEPS	-	GRANITE WITH APPROVED COLOUR		-	-
50	HOSPITAL RAMP	-	CEMENT CONCRETE CHEQUERED TILES	CHEQUERED TILES	.	-
51	EMERGENCY EXIT STEPS	-	18 MM THICK POLISHED KOTA STONE		-	-
52	ENTRANCE COVERED PORCH	-	100 MM THICK CONCRETE TREMIX FLOORING			



LAKHIMPUR SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE FIRST FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	CONSULTATION (REHAB) ROOM	FF - 02	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
2	INJECTION ROOM(M&F)	FF - 54, 54a, 76,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
3	HOD/VISITING FACULTY	FF - 92	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
4	HOD/VISITING FACULTY	FF - 04, 49	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
5	OCCUPATIONAL THERAPY,PHYSIOTHERAPY	FF - 08, 06	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
6	SPEECH THERAPY,	FF - 03,	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
7	NCS ROOM	FF - 15	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
8	ATTACHED TOILET	FF - , 28, 50, 80, 62, 69, 71	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK DADO TILL 2100MM HIGH FOR TOILETS + CEMENT PAINT UPTO CEILING	-
9	ATTACHED TOILET	FF - 05, 40, 93	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED DADO UPTO 2100MM HIGH FOR TOILETS + CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
10	COMMON TOILET (MALE & FEMALE)STAFF TOILET (M&F)	FF - 23, 53, 63, 70, 72,64	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED DADO UPTO 2100MM HIGH FOR TOILETS + CEMENT PAINT UPTO CEILING	-
11	DISINFECT	FF - 34, 35	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED DADO 600MM HIGH FOR ABOVE COUNTERS + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO CEILING	-
12	EMG,ECT	FF - 09,11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
13	EEG	FF - 19	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FIBRE FALSE CEILING TILES 600 X 600
14	STAIRCASE	ST-01, ST-02, ST-03, ST-04, ST-05,	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
15	DUTY NURSE	FF - 27	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
16	TELEMEDICINE	FF - 30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE FIRST FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
17	PANTRY	FF - 73	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED DADO 600MM HIGH FOR ABOVE COUNTERS + OIL BOUND DISTEMPER UPTO CEILING	-
18	CLEAN LINEN	FF - 44	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
19	STORE	FF - 60	18 MM THICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	-
20	LIFT LOBBY	LL-03, LL-05, LL-04, LL0-6	18MM THICK POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO OF APPROVED COLOUR UPTO 2100MM HEIGHT IN LIFT FACIA WALL ONLY (REFER LIFT LOBBY DRAWING) AND OTHER SIDE WALLS WITH SKIRTING 100MM + PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
21	HOUSE KEEPING	FF - 74	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
22	NON TEACHING STAFF ROOM	FF - 68	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
23	OPD STAFF LOUNGES	FF - 26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
24	AHU	FF - 29, 77	IPS FLOORING	12MM THICK PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
25	TREAD MILL TEST	FF - 48	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
26	ELECTRICAL ROOM	FF - 58	IPS FLOORING	12MM THICK PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
27	ELV/SERVER ROOM	FF - 67	IPS FLOORING	12MM THICK PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
28	UPS ROOM	FF - 66	IPS FLOORING	12MM THICK PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
29	SLUICE	FF - 39	300X300MM ANTISKID CERAMIC TILES OF 7-9MM LAID OF APPROVED COLOUR USING CEMENT MORTAR	-	00X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT	-
30	CLEAN SUPPLY	FF - 75	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
31	URO-FLOROMETRY	FF - 79	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
32	PROCEDURE/ DRESSING	FF - 52, 57, 90	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
33	PROCEDURE/ DRESSING	FF -85	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FIBRE FALSE CEILING TILES 600 X 600

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## FINISHES SCHEDULE FIRST FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
34	CYTO HISTOLOGY LAB	FF - 81	2MM TK. ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THK OF APPROVED COLOUR DADO 600MM FOR ABOVE COUNTER + ABOVE DADO PLASTER FINISH TWO COAT PUTTY + PRIMER + ANTIBACTERIAL ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
35	RENAL LAB	FF - 94	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THK OF APPROVED COLOUR DADO 600MM FOR ABOVE COUNTER + ABOVE DADO PLASTER FINISH TWO COAT PUTTY + PRIMER + ANTIBACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
36	LOWER GI	FF - 37	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
37	HOLTER ROOM	FF - 47	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
38	ECHO ROOM, ECG	FF - 45, 46	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
39	DU	FF - 01,95	300X300MM ANTISKID CERAMIC TILES OF 7-9MM THICK OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
40	WAITING	FF - 31,43	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADOUPTO 2100MM HEIGHT + CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
41	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
42	CARDIOLOGY CONS. ROOM - 01, 02, 03	FF - 24, 25, 57	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
43	NEUROLOGY CONS. ROOM 1, 2, 3	FF - 07, 10, 12	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
44	NEURO-SURGERY CONS. ROOM 1, 2, 3	FF - 21, 20,16	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
45	UROLOGY CONS. ROOM - 01, 02	FF - 84, 86,	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
46	UROLOGY CONS. ROOM - 03	FF - 87	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FIBRE FALSE CEILING TILES 600 X 600
47	NEPHROLOGY CONS. ROOM 1, 2, 3	FF - 88, 91, 89	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

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## FINISHES SCHEDULE FIRST FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
48	C.T SURGERY 1, 2, 3	FF - 22,56,55	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 601
49	RECOVERY	FF - 38	2MM TK. ANTISTATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
50	ENMG	FF - 11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
51	PATHOLOGY LAB	FF - 13	2MM TK. ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THK OF APPROVED COLOUR DADO 600MM FOR ABOVE COUNTER + ABOVE DADO PLASTER FINISH TWO COAT PUTTY + PRIMER + ANTIBACTERIAL ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
52	BIOCHEMISTRY LAB	FF - 14	2MM TK. ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THK OF APPROVED COLOUR DADO 600MM FOR ABOVE COUNTER + ABOVE DADO PLASTER FINISH TWO COAT PUTTY + PRIMER + ANTIBACTERIAL ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 601
53	RECEPTION	FF - 59	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	SS	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + OIL BOUND DISTEMPER	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
54	RECORD	FF - 61	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
55	UTILITY	FF - 17	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
56	CYTO HISTOLOGY LAB	FF - 83	2MM TK. ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THK OF APPROVED DADO 600MM FOR ABOVE COUNTER + PLASTER FINISH ABOVE DADO +TWO COAT PUTTY + PRIMER + ANTIBACTERIAL ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FIBRE FALSE CEILINGTILES 600 X 600
57	MICRO BIOLOGY LAB	FF - 82	2MM TK. ANTISTATIC VINYL FLOORING	VINYL COVING	300X450MM CERAMIC TILE OF 6-8MM THK OF APPROVAL DADO 600MM FOR ABOVE COUNTER + ABOVE DADO PLASTER FINISH TWO COAT PUTTY + PRIMER + ANTIBACTERIAL ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FIBRE FALSE CEILINGTILES 600 X 600
58	LAB STAFF LOUNGE	FF - 84A	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
59	ANTE ROOM, CH	FF - 13A	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
60	JC	FF - 65	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO FALSE CEILING	

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## FINISHES SCHEDULE FIRST FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
61	REPORT PREPARATION	FF - 83B	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
62	LAB INCHARGE	FF - 83A	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILINGTILES 600 X 600

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**FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	SR RESIDENTS	SF - 03,100	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
2	TREATMENT ROOM	SF - 06,97	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
3	DU	SF - 14,89	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
4	CLEAN LINEN, ASST PROFESSORS	SF - 15,72,88	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
5	AHU ROOM	SF -32	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
6	MEDICATION ROOM	SF - 92,11,45	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
7	NURSE'S LOUNGE	SF - 07,98	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
8	ATTACHED TOILET	SF - 05,08,96,99	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK ODF APPROVED DADO UPTO 2100MM HIGH + CEMENT PAINT UPTO CEILING	-
9	ATTACHED TOILET	SF - 20,22,25,27,29,31,37,39,41,43,47,49,51,53,55,60,62,82,84	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HIGH + CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
10	DUTY DOCTOR	SF - 04,95	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	CU	SF - 13,91	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HIGH + OIL BOUND DIDTEMPER UPTO CEILING	-
12	DIRTY LINEN	SF - 34	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
13	STORE	SF - 33	20 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
14	UPS ROOM	SF - 70	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-

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**FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
15	PAYING CABIN	SF - 24,26,28,36,38,40,42,46,48,50,52,54	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
16	HOUSE KEEPING	SF - 35,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
17	CLASS IV	SF - 79	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
18	PANTRY	SF - 56,77	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS + OIL BOUND DISTEMPER UPTO CEILING	-
19	6 BEDDED WARD FEMALE	SF - 09,10,93,94	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
20	6 BEDDED WARD MALE	SF - 12,16,86,90	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
21	DUTY NURSE	SF-30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
22	LIFT LOBBY	LL-01,03,04,05,06	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO OF APPROVED COLOUR UPTO 2100MM HEIGHT IN LIFT FACIA WALL ONLY AND OTHER SIDE WALLS WITH 100MM SKIRTING + ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
23	DOFFING CHANGE (M & F)	SF - 17,18,85,87	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
24	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE LAID USING CEMENT MORTOR	KOTA STONE	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
25	COMMON TOILET (MALE & FEMALE)STAFF TOILET (M&F) PHY- TOILET DOC.TOI	GF- 01,02,23,57,67,68,73,75,66, 74,76,101,102	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HIGH FOR TOILETS + CEMENT PAINT UPTO CEILING	-
26	ELV/SERVER ROOM	SF - 71	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
27	DEMO ROOM	SF - 64,80	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
28	ELECTRICAL	SF - 65	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TTWO COATS OIL BOUND DISTEMPER UPTO CEILING	-



**LAKHIMPUR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE SECOND FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
29	JC	SF - 69	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK DADO OF APPROVED COLOUR UPTO 2100MM HIGH FOR TOILETS + CEMENT PAINT UPTO CEILING	-
30	PROFFESSOR	SF - 59,61	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINTUPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
31	OFFICE	SF - 63	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
32	ASST. PROF	SF - 58	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
33	ASSOC. PROF	SF - 19,21,81,83	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
34	CLEAN SUPPLY	SF - 44	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
35	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
36	HOSPITAL RAMP		CHEQUERED TILE(300X300) OF APPROVED COLOUR	-	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE THIRD FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	SR RESIDENTS	TF - 03,100	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
2	TREATMENT ROOM	TF - 06,97	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
3	DU	TF - 14,89	300X300MM ANTISKID OF APPROVED COLOUR CERAMIC TILES OF 7-9MM LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO OF APPROVED COLOUR UPTO 2100MM HIGH FIXED USING MORTAR+ CEMENT PAINT UPTO CEILING	-
4	CLEAN LINEN, ASST PROFESSORS	TF - 15,72,88	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
5	AHU ROOM	TF -32	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
6	MEDICATION ROOM	TF - 92,11,45	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
7	NURSE'S LOUNGE	TF - 07,98	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
8	ATTACHED TOILET	TF - 05,08,96,99	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK DADO UPTO 2100MM HIGH + CEMENT PAINT UPTO CEILING	-
9	ATTACHED TOILET	TF - 20,22,25,27,29,31,37,39,41,43,47,49,51,53,55,60,62,82,84	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HIGH + CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
10	DUTY DOCTOR	TF - 04,95	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	CU	TF - 13,91	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + OIL BOUND DIDTEMPER UPTO CEILING	-
12	DIRTY LINEN	TF - 34	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	S
13	UPS ROOM	TF - 70	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
14	PAYING CABIN	TF - 24,26,28,30,36,38,40,42,46,48,50,52,54	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
15	HOUSE KEEPING	TF - 35,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
16	CLASS IV	TF - 79	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
17	PANTRY	TF - 56,77	300X300MM ANTISKID CERAMIC TILES OF 7-9MM LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO CEILING	-

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE THIRD FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
18	6 BEDDED WARD FEMALE	TF - 09,10,93,94	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
19	6 BEDDED WARD MALE	TF - 12,16,86,90	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
20	DUTY NURSE	TF-33	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
21	LIFT LOBBY	LL-01,03,04,05,06	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
22	DOFFING CHANGE (M & F)	TF - 17,18,85,87	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
23	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE LAID USING CEMENT MORTOR	KOTA STONE	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
24	COMMON TOILET (MALE & FEMALE)STAFF TOILET (M&F) PHY- TOILET DOC.TOI	TF-01,02,23,57,67,68,73,75,66,74,76,101,102	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HIGH FOR TOILETS + CEMENT PAINT UPTO CEILING	-
25	ELV/SERVER ROOM	TF - 71	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
26	DEMO ROOM	TF - 64,80	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
27	ELECTRICAL	TF - 65	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
28	JC	TF - 69	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
29	PROFFESSOR	TF - 59,61	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
30	OFFICE	TF - 63	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
31	ASST. PROF	TF - 58	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
32	ASSOC. PROF	TF - 19,21,81,83	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
33	CLEAN SUPPLY	TF - 44	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
34	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT +PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
35	HOSPITAL RAMP		CHEQUERED TILE(300X300) OF APPROVED COLOUR	-	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE FOURTH FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	COMMON TOILET (M & F), STAFF TOILET (M & F) & PH TOILET	FO - 01,02,24,44,52,53,54,59, 60,61,62,87,88	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
2	JC	FO - 55	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
3	DU	FO - 14,75	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
4	CU	FO - 13,76	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
5	CLASS IV ROOM ,HOUSE KEEPING	FO - 65	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
6	HOUSE KEEPING	FO -64	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
7	DIRTY ZONE	FO - 32	2MM THK ANTI STATIC VINYL FLOORING	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	GYPSUM PLAIN BOARD
8	PANTRY	FO - 25,63	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS + OIL BOUND DISTEMBER UPTO CEILING	-
9	TREATMENT ROOM	FO - 08,83	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
10	06 BEDS WARD MALE & FEMALE	FO - 09,10,11,16,73,77,79,80	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
11	CLEAN ZONE	FO - 33	2MM THK ANTI STATIC VINYL FLOORING	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
12	ATTACHED TOILETS	FO - 21,22,48,47,66,70	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	GYPSUM PLAIN BOARD
13	ATTACHED TOILETS	FO - 04,07,81,86,	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
14	NURSE LOUNGE	FO - 06,85	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
15	MEDICATION ROOM	FO - 12,78	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
16	DUTY DOCTOR	FO - 05,82	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
17	DOFFING CHANGE	FO - 17,18,71,72	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
18	SR RESIDENTS ROOM	FO - 03,84	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE FOURTH FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
19	LIFT LOBBY	LL-01,02,03,04	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT IN LIFT FACIA WALL ONLY AND OTHER SIDE WALLS WITH 100MM SKIRTING + ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
20	TROLLY WASH AREA	FF - 30	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS+ ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO CEILING	-
21	WASHING & DISINFECTION ZONE	FF - 31	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO CEILING	-
22	ASSOC. PROF	FO - 20,23,67,69	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
23	ASST. PROF	FO - 45	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
24	ASST. PROF	FO - 58	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
25	PROFESSOR	FO - 46,49	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
26	ELV / SERVER	FO - 57	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
27	UPS	FO -56	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
28	ELECTRICAL ROOM	FO - 51	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
29	CLEAN LINEN	FO - 15,74	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
30	DEMO ROOM	FO - 19,68	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
31	CHANGE (M & F)	FO - 34,35,36,37	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
32	STERILE ZONE	FO -39	2MM THK ANTI STATIC VINYL FLOORING	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
33	STERILE ISSUE	FO - 38	2MM THK ANTI STATIC VINYL FLOORING	VITRIFIED TILE	PLASTER FINISH+PRIMER+ POLYURETHENE PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
34	DIGITAL LIBRARY	FO - 40	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
35	INCHARGE	FO - 26	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE FOURTH FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
36	AHU ROOM	FO - 41	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING UPTO CEILING	-
37	OFFICE ROOM	FO - 50	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
38	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK DADO OF APPROVED COLOUR UPTO 2100MM HEIGHT +PLASTER FINISH+PRIMER+ OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
39	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE LAID USING CEMENT MORTOR	-	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
40	REFUGE AREA	FO - 27,28,29	19 mm tk. POLISHED KOTA STONE LAID USING CEMENT MORTOR	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+CEMENT PAINT UPTO CEILING	
41	HOSPITAL RAMP		CHEQUERED TILE(300X300) OF APPROVED COLOUR	-	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	

LAKHIMPUR SUPER SPECIALTY HOSPITAL						
FINISHES SCHEDULE FIFTH FLOOR						
S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	COMMON TOILET (M & F), STAFF TOILET (M & F) & PH TOILET	FI - 74,75,76,81,82,83,84	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
2	DU	FI - 07,63,90,95	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
3	CU	FI - 46,93,100	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS +PLASTER FINISH+PRIMER+ CEMENT PAINT UPTO CEILING UPTO CEILING	-
4	CLASS IV ROOM /HOUSE KEEPING	FI - 80	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
5	HOUSE KEEPING	FI - 85	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
6	STORE ROOM, BLOOD STORE, OT STORE	FI - 16	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
6	STORE ROOM, BLOOD STORE, OT STORE	FI -18,20	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
7	PANTRY	FI - 86	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
9	8,4,9 BEDS WARD MALE & FEMALE	FI - 05,61,88,91,98	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH + PRIMER + POLYURETHENE PAINT	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
10	ATTACHED TOILETS	FI - 12,24,27,28,32,33,49,62,96,102,105	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
10	ATTACHED TOILETS	FI - 44,41,24	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO TILL 2100MM HIGH FOR TOILETS FIXED + CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
11	DOCTOR LOUNGE	FI - 25,30	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600 , GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
12	DUTY DOCTOR	FI - 43,101	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
13	CHANGE ROOM	FI - 08,09,35,36,37,38,39,40,65,66,67,68,69,70,7 1,72	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
14	DUTY NURSE	FI - 48,104	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
15	LIFT LOBBY	LL-01,02,03,04,05,06	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO OF APPROVED COLOUR UPTO 2100MM HEIGHT IN LIFT FACIA WALL ONLY AND OTHER SIDE WALLS WITH 100MM SKIRTING + ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
16	WASH	FI - 26,29,31,34	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	GYPSUM PLAIN BOARD
17	SLUICE	FI - 06,89,94,97	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
18	CLEAN SUPPLY, CLEAN LINEN	FI - 10,64,87,92,99	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD



## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE FIFTH FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
19	SURGEON ROOM	FI - 11	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
20	FLASH STERLIZATION	FI - 14	IPS FLOORING	PLASTER 12MM THICKN	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
21	UPS	FI - 17,55,56,77	IPS FLOORING	PLASTER 12MM THICKN	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
22	ELV/SERVER ROOM	FI - 78	IPS FLOORING	PLASTER 12MM THICKN	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
23	ELECTRICAL ROOM	FI - 73	IPS FLOORING	PLASTER 12MM THICKN	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
24	BMW COLLECTION ROOM, BMW ROOM	FI - 13,50	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
26	MEDICATION ROOM	FI - 103	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
27	CORRIDOR		18mm tk. POLISHED GRANITE OF APPROVED COLOUR OF APPROVED COLOUR		300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
28	STAIRCASE	S	18 mm tk. POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
29	DIRTY UTILITY	FI - 15	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
31	TSSU	FI - 19	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH + PRIMER + POLYURETHENE PAINT	GYPSUM PLAIN BOARD
33	ANESTHESIA STORE	FI - 21	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
	ANESTHESIAN ROOM	FI - 23	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 601
35	RECOVERY	FI - 22	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 602
36	CATH PREP AND PROCEDURE ROOM, CATH CONSULTANT AND REPORT ROOM, CATH CONSOLE, CATH WASH	FI - 42,52,54,58,59	300X300MM ANTISKID CERAMIC TILES OF 7-9MM OF APPROVED COLOUR LAID USING CEMENT MORTAR	CERAMIC TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 601
37	IMMEDIATE ICCU	FI - 47	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 602
38	EQUIPMENT AND EQUIPMENT STORE	FI - 51,60,79	20 MMTHICK POLISHED KOTA STONE	KOTA STONE	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
40	ANGIOGRAPHY SUITE	FI - 53,57	2MM THICK ANTI STATIC VINYL FLOORING	VINYL COVING	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 602

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE SIXTH FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	COMMON TOILET (M & F), STAFF TOILET (M & F) & PH TOILET	SI - 09,10,11,18,19,20,21, 22,23	300X300MM ANTISKID CERAMIC TILES OF 7-9MM LAID OF APPROVED COLOUR USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + CEMENT PAINT UPTO CEILING	-
2	PANTRY	SI - 03	300X300MM ANTISKID CERAMIC TILES OF 7-9MM LAID OF APPROVED COLOUR USING CEMENT MORTAR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD
3	PANTRY	SI - 34	300X300MM ANTISKID CERAMIC TILES OF 7-9MM LAID OF APPROVED COLOUR USING CEMENT MORTAR	CERAMIC TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO CEILING	-
4	STAFF DINING	SI - 14,28	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO 600MM HIGH FOR ABOVE COUNTERS + ANTI BACTERIAL ACRYLIC EMULSION PAINT UPTO CEILING	-
5	ATTACHED TOILETS	SI - 05,31	300X300MM ANTISKID CERAMIC TILES OF 7-9MM LAID OF APPROVED COLOUR USING CEMENT MORTAR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT+ CEMENT PAINT UPTO CEILING	-
6	STAFF LOUNGE	SI - 17,24	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
7	DOFFING CHANGE	SI - 15,16,25,26,27	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
8	LIFT LOBBY	LL-01,02,03,04,05	18mm tk. POLISHED GRANITE OF APPROVED COLOUR	GRANITE	GRANITE DADO OF APPROVED COLOUR UPTO 2100MM HEIGHT IN LIFT FACIA WALL ONLY AND OTHER SIDE WALLS WITH 100MM SKIRTING + ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
9	AHU	SI - 01,02,29,30	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
10	UPS	SI - 12	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
11	SERVER ROOM	SI - 13	IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
12	ELECTRICAL ROOM		IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
13	OFFICE ROOM	SI - 39	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
14	ANTE	SI - 04,32	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
15	NURSING SUPERINTENDENT	SI - 06	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
16	RECORD ROOM	SI - 40	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
17	PA ROOM	SI - 07,35	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600

## LAKHIMPUR SUPER SPECIALTY HOSPITAL

## FINISHES SCHEDULE SIXTH FLOOR

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
18	MEDICAL SUPERINTENDENT	SI - 38	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
19	CHIEF SUPERINTENDENT	SI - 33	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
20	WAITING AREA	SI - 08	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH MINERAL FIBRE FALSE CEILING TILES 600 X 600
21	WAITING AREA	SI - 36	DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	VITRIFIED TILE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
22	CONFERENCE ROOM	SI - 37	WOODEN FLOORING	-	75MM THK. LAMINATED WOODEN PANELLING UPTO 1200MM HEIGHT + 75MM THK. ACOUSTIC WALL PANELLING UPTO FALSE CEILING + ABOVE FALSE CEILING WHITE WASH UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES 600 X 600
23	STAIRCASE	ST-01,02,03,04,05	18 mm tk. POLISHED KOTA STONE LAID USING CEMENT MORTOR	KOTA STONE	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
24	CORRIDOR		DOUBLE CHARGED VITRIFIED TILE (600 x 600) OF APPROVED COLOUR	-	300X450MM CERAMIC TILE OF 6-8MM THICK OF APPROVED COLOUR DADO UPTO 2100MM HEIGHT + PLASTER FINISH+PRIMER+ OIL BOUND DISTEMPER UPTO FALSE CEILING	GYPSUM PLAIN BOARD WITH METAL FALSE CEILING TILES
25	HOSPITAL RAMP		CHEQUERED TILE(300X300) OF APPROVED COLOUR	-	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-

**LAKHIMPUR SUPER SPECIALTY HOSPITAL**

**FINISHES SCHEDULE TERRACE FLOOR**

S.No.	ROOM NAME	ROOM TAG	FINISHES			
			FLOORING	SKIRTING (100mm)	WALL	CEILING
1	LIFT MACHINE ROOM		IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
2	ELECTRICAL ROOM		IPS FLOORING	12MM THICK CEMENT PLASTER	PLASTER FINISH+PRIMER+TWO COATS OIL BOUND DISTEMPER UPTO CEILING	-
3	STAIRCASE	ST - 03,04	18 mm tk. POLISHED KOTA STONE LAID USING CEMENT MORTOR	KOTA STONE	PLASTER FINISH+TWO COATS PUTTY+PRIMER+ACRYLIC EMULSION PAINT UPTO CEILING	-
4	TERRACE		HEAT RESISTANT TILES (300 x 300)	75X75MM GOLA IN CEMENTCONCRETE	-	

**LIST OF APPROVED MAKES / BRANDS**

NOTE: -

1) A List of Preferred Brand Names of Various Materials / Products are shown below for usage in execution of Work. However, Approved equivalent material of any other Specialized Companies / Firms may also be used, in case it is established that the Brands Specified below are not available in the market or in other unavoidable circumstances and subject to Approval of the alternate Brand by the Engineer-In- charge. However, in case, the equivalent model so approved, is cheaper than the model already mentioned in item/approved makes list, the price adjustment will be made based on the difference in market rate. In case, the rate of subsequently approved model is more, no extra payment will be made on this account.

2) It must be ensured, in general, that all materials to be used in the works shall bear BIS Certification mark. In cases where for a particular material/product, BIS Certification Mark is not available, then the material proposed to be procured can be used subject to the condition that it should conform to CPWD Specifications and relevant BIS codes. In such cases written approval of the Engineer-in - Charge shall be obtained before use of such material in their works.

3) The list given below does not absolve the Executing Agency from their responsibility for using these products. It is only after, they are satisfied about the quality and performance, the products shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.

4) The Competent Authority reserves the right to add or delete any materials and brands in the list of approved makes. However, in case, the equivalent model so approved, is cheaper than the model already mentioned in item/ approved makes list, the price adjustment will be made based on the Difference in market rate. In case, the rate of subsequently approved model is more, no extra payment will be made on this account.

SI. No.	Material	Approved Makes/ Brands		
<b>CIVIL/ INTERIORWORKS</b>				
1	Cement (OPC/ PPC/ White Cement)	ACC	Ultratech	J.K Cement
		Lafarge	Ambuja Cement	Ramco Cement
		Valley Strong	Amrit Cem	Shree Cement
		Star	Birla Soft	and equivalent
2	A. Reinforcement Steel (TMT–Fe500/ Fe500D)	TATA	SAIL	RINL
		JSW	Shyam Steel	
3	Structural Steel/ M.S. Tube	TATA	RINL	SAIL
		BANSAL	NEZONE	UTKARSH
4	Anti-Termite Treatment	Tricel	Premis	or equivalent
5	Plasticizer, Super Plasticizer, Admixtures, Other construction chemicals	CICO	FOSROC	MYK Arment
		SIKA	Chocksy	Brighton
		Firstchoice Ready Mix	Saint Globle	Penetron
		Berger	Mapei	Asian paints
		and equivalent		
6	Roofing Sheet (PPGI Sheet / PPGL Sheet)	Tata Bluescope	JSW	Durokolor
		Spectrum	Dyna Roof	Stellar
		Dura Roof	Taj Roofing	Magnum roofing
		Prestar	Indo roof	Mega roof
		Colour max	and equivalent	
<b>FINISHING PAINTS AND COATING</b>				
7	Paint	Asian paints	Berger	ICI
		J&N paint	Luxol	Nerolac
		Unicen	Duco paint	Brighton
		ARIA paint	Flixopaint	Dulux
		and equivalent		
8	Texture Paint	Spectrum	BULWARK CONCHEM	or equivalent

SI. No.	Material	Approved Makes/ Brands		
9	Epoxy Paint	Pidilite	Berger	FOSROC
		Sikka	Cico	Asian paints
		Nerolac	Shalimar	and equivalent
10	Wall Putty	Birla Wall Care	JK White	Asian Paints
		Berger	Dulux	Vinyl wall care
		Fosroc	Firstchoice Ready Mix	and equivalent
11	Polyster Powder Coating Paints	Nerolac	Berger	Akzonobel
		and equivalent		
12	Water Based Melamine Polish	Asian paints	Pidilite	ICIDulux
		Berger	and equivalent	
13	Fire Retradant Paint	Asian	Berger	Shalimar
		Viper FRS881	Nullfire	Brighton
		and equivalent		
14	Gypsum Plaster	Ferrous Crete	Elite(90)	Ultratech
		ArdexEndura	BULWARK CONCHEM	and equivalent
<b>FLOORINGS</b>				
15	Floor/ Wall Tiles (Ceramic / Vitrified)	Somany	NITCO	Varmora
		Kajaria	AGL	Simonza
		Orient Bell	Johnson	Qutone
		Bonzer 7	Marbitto	Oasis
		Sattvik Ceramic	Bajaj	NITCO
		VITERO by APARNA	RAK Ceramics	and equivalent
16	Parking Tiles	Johnson	NITCO	Marbitto
		AGL	Somany	Varmora
		Sattvik Ceramic	RAK	and equivalent
17	Paver tiles	SUNROCK-Hi CTS	MULTIWYN	OMI's
		RAK	and equivalent	
18	Vinyl Flooring	Tarkett	Armstrong	Wonderfloor
		Gerfloor	and equivalent	
19	Anti bacterial Tiles	Johnson	Orient Bell	NITCO
		AGL	Somany	and equivalent
20	Tac tiles	Durotect	AGL	Johnson
		and equivalent		
21	Wooden floor tiles / Carpet flooring	Armstrong American exotics	Welspun	and equivalent
22	Bamboo wood floor tiles	Epitome	Maisang	ESES
		and equivalent		
23	Broadloom carpet tiles	WELSPUN	and equivalent	
24	Dash / Anchoring Fasteners	Hilti	Fisher	Bosch
		Anchor	and equivalent	
25	Floor hardener	Ironite	Fosroc	Brighton
		Firstchoice Ready Mix	Mapei	Hardonite
		and equivalent		
26	Composite Marble / Granite / Engineered Stone	Asian	Johnson	Kalinga
		and equivalent		
27	Heat Resistant Tiles	Swastik	Thermax	and equivalent
28	Facade Tiles	Clayton	Terreal	Hunter Douglas
		Faveton	and equivalent	
29	Venetian Blinds	Mac Décor	Vista	Hunter Douglas
30	Paver Block & Kerb Stone	NITCO	Unitile	Ultra
		KKManholes	Unistone	and equivalent
31	Clamp System For Dry Stone Cladding	Hilti	Fischer	Bosch
		and equivalent		

SI. No.	Material	Approved Makes/ Brands		
32	Heat Resistant Tiles	Swastik	Thermax	ArdexEndura
		and equivalent		
<b>WATERPROOFING</b>				
33	Integral Waterproofing Crystalline Admixture	Fosroc	Dr. Fixit	Penetron
		Pidilite	Asian paints	Brighton
		Firstchoice Ready Mix	Berger	MYK Arment
		Mapei	and equivalent	
34	Polyurethane, Liquid Applied Waterproofing Membrane	Asian paints	BASF	SOPREMA
		MAPEI	Brighton	BULWARK CONCHEM
		MYK Arment	Berger	Penetron
		and equivalent		
35	Liquid Applied , Acrylic Elastomeric Membrane	MYK Arment	SIKA	FOSROCC
		Chocksy	Dr. Fixit	BULWARK CONCHEM
		Brighton	Berger	Mapei
		Asian paints	and equivalent	
36	Waterproofing Self Adhesive (HDPE ) Membrane	MYK Arment	STP	FOSROCC
		Brighton	Berger	Mapei
		Asian paints	and equivalent	
37	SBS Membrane	MYK Arment	SIKA	FOSROCC
		BULWARK CONCHEM	Berger	Brighton
		Mapei	Asian paints	and equivalent
38	PVC Water Stops	MYK Arment	Supreme	Oriplast
		Brighton	Mapei	and equivalent
<b>EPOXY COATING FLOORING</b>				
39	Polyurethane Concrete Flooring	Pidilite	MYK Arment	MAPEI
		Brighton	Berger	Asian paints
		and equivalent		
40	Food Grade Epoxy Coating	MAPEI	STP	MYK Arment
		BULWARK CONCHEM	Berger	Brighton
		Asian paints	and equivalent	
41	Anti Static Flooring	STP	FOSROCC	MAPEI
		MYK Arment	Berger	Brighton
		Asian paints	and equivalent	
<b>GROUTS/ CHEMICALS</b>				
42	Grouting Admixture	FOSROCC	ARDEXENDURA	MYK Arment
		SIKA	BULWARK CONCHEM	Berger
		Brighton	Firstchoice Ready Mix	Mapei
		Asian paints	and equivalent	
43	Zinc Panels	VM Zinc	Halcor	Legsa
		Cinkarna	and equivalent	
44	Fibre Cement Panels	Equitone "Mineralis"	Swiss pearl	FibreC by Rieder
45	Rebarring Chemical	Hilti	3M India	and equivalent
46	Fire Sealant	Hilti	3M India	Fischer
		and equivalent		
47	Parallel Threaded Couplers (Compliant to IS:16172:2014)	Dextra	Halfen Moment	G-Tech
		and equivalent		
48	AAC Block	Superlite	Utralyste	Genex
		and equivalent		
49	Bricks	1st class clay bricks	Jhama Bricks	Solid 2 to 3 hole no 1 red bricks
50	Building Blocks	Plastic embedded light weight brick of Zerund Brand	Cellular Concrete Blocks	and equivalent



SI. No.	Material	Approved Makes/ Brands		
51	Poly sulphide Sealant	Fosroc	Wacker	BASF
		Brighton	Berger	Dow Corning
		Asian paints	and equivalent	
52	Adhesive for Wood Work	Dunlop	Fevicol	Vamicol
		Brighton	Pidilite	Araldite
		and equivalent		
<b>WOODEN WORK</b>				
53	Moisture Resistant Board	SaintGobin	Gyprox	USGBoral
		Anakon	and equivalent	
54	Veneered Particle Board	Duro	ActionTESA	and equivalent
55	Laminated Particle Board/ Laminates	Merino	Greenlam	Century
		Ventura	KPI	ActionTesa
		Virgo	and equivalent	
56	MDF	ActionTesa	Greenply	Archidply
		Greenpanel	Ventura	KPI
		JainDoors	and equivalent	
57	PRE Laminate MDF	ActionTesa	Green ply	Archidply
		Greenpanel	Ventura	KPI
58	Metalic Laminates	Merino	Century	Metlam
		Ventura	and equivalent	
59	Flush door shutters	Duro	Greenply	KPI
		Century	Archidply	Merino
		JainDoors	and equivalent	
60	Plywood/ Veneer/Laminate	Fiden	Century	Austin ply
		Green ply	Archid ply	BWR
		Jain Doors	and equivalent	
61	Extruded Polysterene Board	STP	Supreme	Ownescoming
		Shalimar	and equivalent	
62	Glass Wool	Rockwool	UP Twiga	Lloyd Insulation
		and equivalent		
63	Glass Fibre Acoustical Ceiling Tile	Anutone	Decosonic	Armstrong
		Anakon	and equivalent	
64	Acoustic Wooden Perforated Slat	Anutone	Armstrong	Decosonic
		Anakon	and equivalent	
65	Acoustical Fabric (With Glasswood) Wall Panels	Anutone	Armstrong	Decosonic
		Anakon	and equivalent	
<b>DOORHARDWARE'S/FITTING'S</b>				
66	Hardware for Fire Check Door	Dorma	Becker Fire Solution	Dorset
		Bhawani Fire	and equivalent	
67	Stainless Steel	TATA	Jindal Alloys	SAIL
		and equivalent		
68	Stainless Steel Hardware	Dorma	Kich	Ozone
		Godrej	Dorset	and equivalent
69	UPVC Doors &Windows	Fenesta	Encraft	WINSTA-Koemmerling
		Futureview-AluPlast	Finesse-Prominace	Deceunik
		NCL VEKA	Duroplast	Okotech by APARNA
		and equivalent		
70	Door/WindowFittings	Godrej	Ozone	Doorset
		Dorma	and equivalent	
71	DoorCloser	Godrej	Ozone	Doorset
		Dorma	and equivalent	
72	DieCastPatchFittings	Dorma	Geze	Ozone
		Hettich	Hardwyn	and equivalent

SI. No.	Material	Approved Makes/ Brands		
73	Fire rated doors & its hardwares	Navair	Tata Parvez	Promat
		Shakti Hormann	Sukriti	Saint Gobain
		JainDoors	Bhawani Fire	and equivalent
73	Floor Springs	Godrej	Ozone	Doorset
		Dorma	and equivalent	
74	SS Mortise lock with one dead bolt and pair of SS handles steel grade – SS304	Godrej	Ozone	Doorset
		Dorma	and equivalent	
75	GrabbarsandDisabled Hardware	Dorma	Ozone	D-line
		and equivalent		
76	SS Mortise latch & lock with six levers and pair off SS handle ssteel grade–SS304	Godrej	Ozone	Doorset
		Dorma	and equivalent	
77	SS Tower bolt	Godrej	Ozone	Doorset
		Dorma	and equivalent	
78	SS Butt hinges with ball bearing grade–SS304	Godrej	Ozone	Doorset
		Dorma	and equivalent	
79	MagicEye	Dorma	Godrej	Ingersoll Rand
		and equivalent		
80	Stainless Steel sliding door blots	Godrej	Ozone	Doorset
		Dorma	and equivalent	
81	Pull handle back to back of length 150mm of steel Grade- SS304	Godrej	Ozone	Doorset
		Dorma	and equivalent	
82	Aluminium level handles	Hardima	Godrej	Everite
		Classic	EBCO	and equivalent
83	Anodised Aluminium Hardware (Heavy Duty)	Hardima	Godrej	Everite
		Classic	EBCO	and equivalent
84	Automation Systems for Windows	UCS	WindowMaster	Essmann
		Rivalu	Securistyle	and equivalent
85	Lever handle in SS 304 finish	Godrej	Ozone	Doorset
		Dorma	and equivalent	
86	Friction Stay Hinges	Dorma	LGSysmac	Dorset
		and equivalent		
87	Dash/ Anchoring Fasteners	Hilti	Fisher	Bosch
		Anchor	and equivalent	
88	Welding Electrodes	Advani	Oerlikon	Modi
		L&T	ICI	and equivalent
89	Expansion Joint–Modular	C.S	Herculus	Z-Tech
		Vexcolt	Fischer	Herrlich Alumin
		and equivalent		
90	Aluminium Bldg. Expansion Joint	Vexcolt	Z-TechIndia	C/S Expansion Joint
		and equivalent		
<b>GLAZINGS/ FACADE</b>				
91	Anodised Aluminum Hardware (Heavy Duty)	Hardima	Alualpha	LGFSysmac
		Everite	Godrej	Halco
		Bhagwati Sai	Herrlich Alumin	and equivalent
92	Aluminum Structural Members–Windows, Glazing And Partitions	Jindal	Indalco	Hindalco
		Nalco	Bhoruka	Halco
		Bhagwati Sai	Herrlich Alumin	and equivalent
93	Aluminum Sheet roofing Top 0.9mm thick AA 3004 aluminium alloy and 2nd layer Bare Galvalume sheet, 0.5mmTCT	KalZip	Tata Blue Scope	Kingspan Jindal Pvt. Ltd.
		Virgo	and equivalent	
94	Pre-coated Galvanised Steel Sheet	Tata BlueScope	Dyna roof	Spectrum
		and equivalent		
95	Glazing Structural/ Suspanded/ Skylight	SaintGobain	Pilkington	Glaverbal

SI. No.	Material	Approved Makes/ Brands		
		Halco	Bhagwati Sai	Herrlich Alumin
		and equivalent		
96	Clear/ Float/ Frosted Glass/ Mirror	SaintGobain	AIS	Pilkington
		MODIGuard	Atul	Gold Plus
		and equivalent		
97	Fire-Rated Glass	Saint Gobin	Schott	Bhawani Fire
		and equivalent		
98	Glass Spider Fittings	Dorma	HAFAL	OZONE
		and equivalent		
99	Stainless Steel Railing, Accessories etc in Grade SS OR 316	Dorma	D-line	Geze
		Ozone	Q-railing	Halco
		Bhagwati Sai	and equivalent	
100	Fire-rated Division Panels	Pilkington	SCHOTT	FERILITE
		Saint Gobain	Glaverbel	Bhawani Fire
		and equivalent		
101	G. I Steel door frame/Pressed Steel Door frame	Synergy Thrislington	Navair	Shakti
		TataParvez	and equivalent	
102	EPDM Gasket	Hanu	Anand	Osaka/ Alps
		Anand Reddiplex	EnviroSeals	and equivalent
103	Mirror Glass	Asahi India Safety Glass Ltd	ModiGuard	Saint Gobain
		Halco	Bhagwati Sai	Herrlich Alumin
		Gold Plus	and equivalent	
104	Aluminum Louvers	Lindner	Chicago Metals	Harsons Green
		Hunte Douglas	Faveton	Wonder Alu Board
		Bhagwati Sai	Timexbond	Herrlich Alumin
		and equivalent		
105	Aluminium composite Panels	Aludecor	Alstrong	Durabuild
		Wonder Alu Board	Virgo	Timexbond
		and equivalent		
106	Friction Stay Hinges	Dorma	LG Sysmac	Dorset
		and equivalent		
107	Ceramic panel Cladding	Hunter Douglas	Neolith	Terreal
		Anakon	and equivalent	
108	Pre-Cast GRC Jali	Unistone	Dalal Tiles Industries	Ecovision
		and equivalent		
<b>FALSECEILING</b>				
109	False Ceiling–Gypsum	SaintGobain	USGBoral	Lindner
		IndiaGypsum	Lafarge	Anakon
		and equivalent		
110	False Ceiling–Mineral fibre ceiling	Armstrong	AMF	USGBoral
		SaintGobain	HunterDouglas	Anakon
		and equivalent		
111	False Ceiling–Calcium Silicate Boards/ Tiles/ Cement Fiber Board & Designer	Aerolite	Hilux	Saint Gobain (Gyproc)
		Anakon	Everest	and equivalent
112	False Ceiling–Metal	Amstrong	HunterDouglas	USG Boral
		Anakon	and equivalent	
113	Gyp Board	SaintGobain	USGBoral	Lindner
		BoralGypsum	Lafarge	IndiaGypsum
		Anakon	and equivalent	
114	False Ceiling–Aluminium	Armstrong	Durlum	HunterDouglas
		Anakon	and equivalent	
115	Curtain Rod/ Drapery Rod	Vistawork	MacDécor	HunterDouglas

SI. No.	Material	Approved Makes/ Brands		
		Anakon	and equivalent	
116	Fabric Blinds	HunterDouglas	Mac	Vista
		Anakon	and equivalent	
117	Rolling Shutter	Rama	Prakash	Dura Ultima
		and equivalent		
118	Tensile Fabric	Mehler	Verseidag	Heytex
		and equivalent		
119	Polycarbonate Sheet	Palram	Gallina	Danpalon
		DPI Daylighting	and equivalent	
120	Modular Furniture	Godrej	Durian	Wipro
		Featherlite	SOS	and equivalent
<b>PLUMBING WORKS</b>				
<b>SANITARY FIXTURES &amp; CP BRASS FITTINGS</b>				
121	Sanitary Fixtures	Cera	Hindware	Parryware
		Jaquar	Kerovit by Kajaria	Midas
		Kingston	and equivalent	
122	CP Brass Fittings & Accessories	Jaquar	Roca	Kohler
		Kingston	RAK	and equivalent
123	PVC Water Stops	BASF	Supreme	Oriplast
		and equivalent		
124	Kitchen Sinks	Neelkanth	Jayna	Hindware
		Nirali	Kingston	RAK
		and equivalent		
125	Water Cooler	BlueStar	Usha	Voltas
		EurekaForbes	and equivalent	
126	Electric Storage Type Geyser	Venus	AOSmith	Racold
		Havells	and equivalent	
127	Hand Drier	Euronics	Jaquar	Utec
		and equivalent		
128	RO Purifier Units	Kent	ION Exchange	Eureka Forbes
		Blue Star	and equivalent	
<b>SOIL, WASTE, VENT &amp; RAIN WATER PIPES</b>				
129	Hubless Centrifugally cast (spun) Iron pipes & Fittings SS304 grade coupling with EPDM rubber gasket	Neco	Kapilansh	Hepco
		SKF	RPMF	BIC
		and equivalent		
130	GI Pipes	JindalHissar	PrakashSurya	Tata
		and equivalent		
131	GI Pipe Fittings	ZolotoM	DRP	New
		Unik	and equivalent	
132	GI clamps with EPDM rubber	Intellotech	Indotech	Hilti
		CAMRY	and equivalent	
133	Brass Clean Out Plugs	Neer	Vijay	GMGR
		and equivalent		
134	Stainless Steel Gratings	Chilly	Camry	Kamal
		and equivalent		
135	uPVC Pipes & Fittings	Ashirvad	Finolex	Astral
		AKG	Prince	and equivalent
<b>WATER SUPPLY SYSTEM</b>				
136	CPVC Pipes & Fittings	Ashirvad	Finolex	Astral
		AKG	Supreme	Prince
		and equivalent		
137	GI Pipes	JindalHissar	PrakashSurya	Tata
138	GI Pipe Fittings	ZolotoM	DRP	New

SI. No.	Material	Approved Makes/ Brands		
		Unik	and equivalent	
139	Water Meter	Kranti	Toshaniwal	Capstan
		Anand	and equivalent	
140	DI Pipes & Fittings	Electrosteel	Kesoram	Tisco
		and equivalent		
141	Forged Brass Ball Valves	Giacomini	Zoloto	Sant
		DRP	and equivalent	
142	CI Butterfly Valves	Zoloto	Audco	Sant
		DRP	and equivalent	
143	Pipe Insulation	Armaflex	K-Flex	Thermaflex
		Kaiflex	and equivalent	
144	Motorised Valves	Zoloto	Sant	AIP
		and equivalent		
145	Single Acting Air Release Valve	Giacomini	Zoloto	Sant
		DRP	and equivalent	
146	Central RO Plant	Ion Exchange	Thermax	Pentair
		EurekaForbes	and equivalent	
147	Polyethylene Storage Tank	Sintex	Supreme	Sheetal
		Prince	and equivalent	
<b>HOTWATER SYSTEM (HEAT PUMP)</b>				
148	Heat Pumps	AOSmith	Cristopia	Bluebox
		Climaveneta	Klima	and equivalent
149	Hot Water Recirculation & Return Pumps	Willo	Grundfoss	KSB
		Xyllum	and equivalent	
<b>SEWERAGE &amp; DRAINAGE SYSTEM</b>				
150	HDPE Double Wall Corrugated (DWC)	Finolex	Astral	Ashrivad
		Supreme	and equivalent	
151	SFRC Manhole Cover & Frame	KK Manholes	SK Precast Concrete	Advent Concretevision
		RPMF	and equivalent	
152	Foot Rests	KJM	Deesawala	Surya
		Sinecos	and equivalent	
153	Grease Separator	ACO	Kessel	Klaro
		and equivalent		
154	RCC Pipes	Jain Spun Pipes	KK Concrete Products	Usha Spun Pipes
		Indian Hume Pipe	Pragati	Daya
		Dewan Spun	Concrete Udyog	and equivalent
<b>WATER SUPPLY, BOREWELL, DRAINAGE PUMPS &amp; WATER TREATMENT EQUIPMENTS</b>				
155	Water Supply Pumps	Willo/	Grundfoss	KSB
		Xyllum	and equivalent	
156	Drainage Pumps	Willo	Grundfoss	KSB
		Xyllum	and equivalent	
157	Borewell Pumps	Willo	Grundfoss	KSB
		Crompton Greaves	and equivalent	
158	Hydropneumatic System	Willo	Grundfoss	KSB
		Xyllum	and equivalent	
159	Water Filters	Ion Exchange	Thermax	Pentair
		and equivalent		
160	Water Softeners	Ion Exchange	Thermax	Pentair
		and equivalent		
161	Chemical Dosers (Chlorinators)	Asia LMI	Toshcon	Chloromax
		and equivalent		

SI. No.	Material	Approved Makes/ Brands		
162	Electrical Panels	As per Electrical Make List		
163	GI Pipes	JindalHissar	PrakashSurya	Tata
		and equivalent		
164	GI Fittings	ZolotoM	DRP	New
		Unik	and equivalent	
165	CI Butterfly Valves	Zoloto	Audco	Sant
		DRP	and equivalent	
166	CI Dual Plate Check Valves	Zoloto	Audco	Sant
		DRP	and equivalent	
167	CI Strainers	Zoloto	Audco	Sant
		DRP	and equivalent	
168	Vibration Eliminators/ Rubber Bellow	Resistoflex	D'wren	Kanwal
		and equivalent		
169	Electric Wires & Cables	As per list of Electrical make		
<b>SEWAGE TREATMENT PLANT</b>				
170	Air Blowers	Beta	Everest	Kulkarni
		TMVT	and equivalent	
171	Air Diffusion System	Airfin	UshaRuba	Rehau
		and equivalent		
172	Air Vent Valve	Oventrop(Germany)	CIM	RapidControl
		and equivalent		
173	Bar Screen	KSP	AWMS	PAMM
		and equivalent		
174	Centrifuge	Apollo	United	B.A Engineering
		and equivalent		
175	Chemical Cleaning Pump	WILO	Grundfos	Xylem
		KSB	and equivalent	
176	Chemical Cleaning tank	Polycon	Sintex	Vectus
		Supreme	and equivalent	
177	Electrical Panel	As per list of Electrical make		
178	Flow Meter(Digital)	Aster(Totalized)	VATS	Scientific
		and equivalent		
179	Flow Rota Meter for Suction Pump	UKL	Aster	Scientific
		and equivalent		
180	Foot Valve	Sant	Zoloto	Advance
		DRP	and equivalent	
181	G.I. fittings (malleable cast iron)	Unik	Zoloto	New
		DRP	and equivalent	
182	Level Controller	Aster	Cirrus Engineering	Rockwell Automation
		and equivalent		
183	Level Indicator	Aster	Cirrus Engineering	Rockwell Automation
		and equivalent		
184	Level Switch	Aster	Cirrus Engineering	Rockwell Automation
		and equivalent		
185	MBR Module	G.E	Siemens	Mitsubishi
		and equivalent		
186	MBR Permeate Suction Pump	WILO	Grundfos	Xylem
		KSB	and equivalent	
187	Media	Cooldeck	UshaRuba	MMAqua
		Pharmatech	and equivalent	
188	Multiport Valve	Pharer(U.S.A)	ORG	Astar

SI. No.	Material	Approved Makes/ Brands		
		and equivalent		
189	PH Meter	VATS	Hanna	Aster
		digital	and equivalent	
190	PLC/HMI	Schneider	Allenbradley	Mitsubishi
		and equivalent		
191	Semi Auto Fine Screen	Toro	KSP	AWMS
		PAMM	and equivalent	
192	UV Systems	AlphaUV	CreativeUV	Pentair
		EurekaForbes	and equivalent	
193	VFD	Danfoss	AllenBredly	Siemens
		ABB	and equivalent	
194	STP Vendors	BSEnviro	Degrumont	Thermax
		UEM	DOSHION	and equivalent
<b>FIREFIGHTINGSYSTEM</b>				
195	Gas Based Fire Suppression System	Honeywell	Fike	Nohmi
		Firetrax	and equivalent	
196	Delugevalve/Solenoid valve/ Spray nozzle/ Installation Control Valve	Victaulic	SmithCopper	Anvil
		and equivalent		
197	Fire Pumps	Mather&Platt (WILO)	Grundfos	Kirloskar
		KSB	and equivalent	
198	Fire Buckets	Safeguard	Lifeguard	Swastik
		Minimax	and equivalent	
199	Fire Extinguishers	Safeguard	Lifeguard	Swastik
		Minimax	EEC	and equivalent
200	Fire Hydrant Valves/ Fire RRL Hose Pipes / Fire Hose Reels/FireMan'sAxe/short branch pipe/ 2/ 3/4 FB inlet/ draw Out connection/Hose Box/ Hose reel drum /Nozzle/ blank Caps& Chains / Coupling	Minimax	Safex	Newage (Surendranagar)
		EEC	and equivalent	
201	Flow switch	Potter	Rapidflow	Danfoss
		Viking	Honeywell	and equivalent
202	Pipecoatmaterial (pipeprotection)	Pypcoat	Makphalt	and equivalent
203	Pipe Hangers/ Clamps/Supports	Chilly	GMGR	CAMRY
		Hilti	and equivalent	
204	Mild Steel Pipes	JindalHissar	PrakashSurya	Tata
		SAIL	and equivalent	
205	Weld Electrodes	Advani	ESAB	L&T
		Victor	and equivalent	
206	Pressure Gauge	Fiebig	H.GURU	HD
		BRC	and equivalent	
207	PushButtons/ Indicating lamps LED	As per list of Electrical make		
208	Single Phase Preventer	As per list of Electrical make		
209	Solenoidvalve/ Spraynozzle	HD	Tyco	Danfoss
		Honeywell	and equivalent	
210	Sprinkler Heads (Sidewall/ Upright/ Pendant)	Grinnel-Tyco	Viking	HD
		and equivalent		
211	Sprinkler Flexible Drops	Victaulic	SmithCopper	Anvil
		and equivalent		
212	MS Forged Fittings	New	DRP	VS
		SS	and equivalent	
213	Popup Connecting Assembly	RainBird	Dura	Lasco
		and equivalent		



Sl. No.	Material	Approved Makes/ Brands		
214	Popup Spray Head	RainBird	Toro,USA	Nelson,
		and equivalent		
215	Powder Coating Material pure Polyester	Jotun	Berger	GoodlassNerolac
		and equivalent		
216	RQRCHydrant	Harvel	Alprene	RainBird,USA
		and equivalent		
217	RQRCKey	Harvel	Aqua	Drip&Drip
		and equivalent		
218	CI Butterfly Valves/ Sluice Valves	Zolato	Audco	Sant
		DRP	and equivalent	
219	CI Dual Plate Check Valves	Zolato	Audco	Sant
		DRP	and equivalent	
220	CI Strainers	Zolato	Audco	Sant
		DRP	and equivalent	
221	Vibration Eliminators/ Rubber Bellow	Resistoflex	D'wren	Kanwal
		and equivalent		
222	Electric Wires & Cables	As per list of Electrical make		
<b>ELECTRICALWORKS</b>				
223	AIR CIRCUIT BREAKER (MODEL SHALL BE AS PER TENDER SPECIFICATION & BOQ)	SCHNEIDER(MVS)	L&T(UPower)	ABB(E-Max)
		SIEMENS(3WL)	Hager	Mitsubishi Electric (AE-SW)
		and equivalent		
224	MCCBS BREAKER (MODEL SHALL BE AS PER TENDER SPECIFICATION & BOQ)	SCHNEIDER(CVS)	L&T(D-Sine)	ABB (T-Max)
		SIEMENS(3VA)	Mitsubishi Electric (AE-SW)	and equivalent
225	SFU/FSU/HRC/ HBC FUSES & BASES	L&T	SIEMENS	SCHNEIDER
		ABB	and equivalent	
226	MCB/ ELCB/ RCCB/ RCBOS /DISTRIBUTION BOARDS(DOUBLE DOOR IP43 DBs)	LEGRAND	HAGER	SIEMENS
		SCHNEIDER	ABB	L&T
		and equivalent		
227	AUTOMATIC TRANSFER SWITCH/ CHANGE OVER SWITCH(OFFLOAD/ ON LOAD)	HAVELLS	SOCOMEK	ASCO
		L&T	ABB	HAGGER
		and equivalent		
228	METAL CLAD SHEET STEEL ENCLOUSER SOCKET/ PLUG BOX	L&T	SCHNEIDER	SIEMENS
		ABB	LEGRAND	BS
		and equivalent		
229	LOADBREAK SWITCHES	L&T	SIEMENS	SCHNEIDER
		and equivalent		
230	FRLS/ XLPE INSULATED COPPERWIRES/ CABLES (ARMOURED OR OTHERWISE)	POLYCAB	FINOLEX	HAVELLS
		RR KABAL	KEI	BONTON
		and equivalent		
231	MODULAR PLATE SWITCHES AND SOCKETS	LEGRAND	SCHNEIDER	MK
		WIPRO (Northwest)	HAVELLS	and equivalent
232	TRIVECTOR METER/ AMP METER/ VOLTMETER/ ENERGY METER/ MFM	NEPTUNE	SECURE	CONZERV
		SCHNEIDER	SOCOMEK	TRINITY
		and equivalent		
233	FAÇADE&EXTERNAL LIGHTING	HAVELLS	BAJAJ	TRILUX
		PHILIPS	LT	
234	TELE COMMUNICATION/ TV CABLE	FINOLEX	POLYCAB	HAVELLS
		and equivalent		

Sl. No.	Material	Approved Makes/ Brands			
235	MAIN LT PANEL/ APFC PANELS (TTAIS:8623-1)	CONQUERENT- ABB	L&T	Excel Electric Co (Mak Engineers)	
		CROMPTON	SCHNEIDER	SIEMENS	
		and equivalent			
236	BUSBAR	JINDAL	HINDALCO	CENTURY	
		and equivalent			
237	PVC CONDUIT/ FLEXIBLE CONDUIT & ACCESSORIES (ISI MARKED)	BEC	AKG	POLYCAB	
		CAP	WELKM	and equivalent	
238	STEEL CONDUIT/ FLEXIBLE & ACCESSORIES (ERW) (ISI MARKED)	RMCON	BEC	NIC	
		MKAY	and equivalent		
239	LT PANEL/ PCC/ MCC/ MCBS/ DG SYNCHRONIZING PANELS/ PANELS/ CONTROL PANELS/ FEEDER PILLARS/ SERVICEPILLAR/H.T. PANEL	ABB	L&T	SIEMENS	
		CROMPTON	CONQUERENT	RYBNE	
		KRATOS	LOTUS CONTROL	TRICOLITE	
		SPC Electrotech Pvt. Ltd.	and equivalent		
		1) PANEL MANUFACTURER MAKE APPROVAL SHALL BE TAKEN BY UNIT IN CHARGE BEFORE ORDER THE PANEL.			
		2) FABRICATION FACILITY UPTO IP54/55.			
		3) 9 TANK PRETREATMENT FACILITIES FOR SHEET.			
4) EQUIPPED WITH LATEST CNC BENDING, POWDER COATING, BUSBAR BENDING & PUNCHING MACHINE, AND COMPRESSOR ETC.					
240	CONVENTIONAL BUSTRUNKING & RISING MAINS	SAME MAKE AS THAT OF THE LT PANELS			
241	SANDWICH BUS DUCT (FCLASS)	SCHNEIDER	L&T	C&S	
		EAE	GODREJ	SPC Electrotech Pvt. Ltd.	
and equivalent					
242	BAKELITE SHEET	HYLAM	FORMICA	GREENLAM	
		and equivalent			
243	VOLTAGE TRANSFORMERS	SIEMENS	GE/AREVA	KIRLOSKAR	
		ABB	and equivalent		
244	HTPANEL	SIEMENS	L&T	ABB	
		SCHNEIDER	SPC Electrotech Pvt. Ltd.	and equivalent	
245	CEILING FAN/ EXHAUST FAN	CROMPTON	BAJAJ	USHA	
		HAVELS	ORIENT	and equivalent	
246	TAGBLOCK	KRONE	ERICSON	TVAR&M	
		and equivalent			
247	TRANSFORMERS	ARIVA	PVJ	CROMPTON	
		KIRLOSKAR	TECHNOVEL	POWER STAR	
		and equivalent			
248	AUTOMATION POWER FACTOR CONTROL RELAY	L&T	SIEMENS	SCHNEIDER	
		ABB	and equivalent		
249	CAPACITORS & REACTORS	L&T	SIEMENS	SCHNEIDER	
		ABB	and equivalent		
250	CABLE GLANDS (DOUBLE COMPRESSION WITH EARTHING LINKS)	DOWELLS	COMET	GRIPWELL	
		and equivalent			
251	BI-METALLIC CABLE SLUGS/ PVC GLANDS	DOWELLS	ACTION	JAINSONS	
		KABEL	and equivalent		
252	CABLE JOINTING KITS	RAYCHEM	JAINSONS	3M	
		DENSONS	and equivalent		

Sl. No.	Material	Approved Makes/ Brands		
253	G.I CABLE TRAYS FACTORY FABRICATED) / RACEWAYS	NPES	KAMBOJ ELECTRO CONTROL	ADITYASTEEL
		SLOTCO	LEGRAND	SPC Electrotech Pvt. Ltd.
		and equivalent		
254	BATTERY (SEALED MAINTENANCE FREE)	AMCO	EXIDE	AMARARAJA
		LUMINUS	and equivalent	
255	BATTERYCHARGER	AMARARAJA	STATCON	CROMPTON GREAVES
		and equivalent		
256	DG SET	POWER CONTROL SYSTEM & SWITCHGEAR VIDYUT ENTERPRISES	CUMMINS	MAHINDRA
		CATERPILLAR	PERKINS	JAKSON
		MITSUBISHI	KIRLOSKAR	and equivalent
257	DGSETALTERNATOR	STAMFORD	LERROY SOMMER	CROMPTON
		and equivalent		
258	CONTROLGEAR (CONTRACTORS ETC.)	L&T	SIEMENS	SCHNEIDER
		ABB	C&S	and equivalent
259	PROTECTIONRELAYS MICROPROCESSER BASED	AREVA	L&T	ABB
		SIEMENS	SCHNEIDER	and equivalent
260	EARTHLEAKAGE RELAY	L&T	PIC	MINILEC
		EATON	and equivalent	
261	SINGLEPHASING DEVICE	L&T	SIEMENS	MINILEC
		and equivalent		
262	PUSH BUTTONS	L&T	SIEMENS	SCHNEIDER
		ABB	and equivalent	
263	TIME RELAY DEVICE	L&T	SIEMENS	SCHNEIDER
		ABB	and equivalent	
264	SELECTORSWITCHES & ROTARYSWITCHES	L&T	SIEMENS	SCHNEIDER
		ABB	and equivalent	
265	INDICATINGLIGHTS	L&T	SIEMENS	SCHNEIDER
		ABB	and equivalent	
266	TERMINALS	ELMEX	ESSEN	DEINKI
		WAGO	and equivalent	
267	MS SWAGED TUBLAR POLE STREETLIGHT POLES	PHILLIPS	ORIENTS	KESELEC
		BAJAJ	SKIPPER	and equivalent
268	TELEPHONEOUTLETS	AS PER SWITCH/SOCKET MAKE		
269	MOTORS	ABB	CROMPTON	SIEMENS
		KIRLOSKAR	and equivalent	
270	IPBAX & TELEPHONE SYSTEM	SIEMENS	ERICSSON	MITEL
		ALCATELLUCENT	and equivalent	
271	MULTI-METER & MEGGARS	ESCROP	MOTWANI	and equivalent
272	PROGRAMMABLE LOGICCONTROLLER	SIEMENS	WOODWARD	ALLEN BRADLEY
		and equivalent		
273	SMART SURGEON CONTROLPANEL/OT'S PANEL	AS PER SPECIFICATIONS		
274	EARTHING/LIGHTNING PROTECTION UNIT	ARICO	LPI	JMV
		ABB	and equivalent	
275	UPS	SCHNEIDER	EMERSON	TATALIBERT
		NUMERIC	GEPOWER	3EM
		ORION	RELIO	ELNOVA

SI. No.	Material	Approved Makes/ Brands		
		APC	and equivalent	
276	FIRE ALARM SYSTEM (All COMPONENTS SHALL BE UTILISED & CONFIRM TO NFPA STANDARD)	HONEYWELL NOTIFIER	NOHMI	ADVANCED
		ASES Security	and equivalent	
277	PA SYSTEM	HONEYWELL NOTIFIER	BOSE	NOHMI
		TANOV	FUNKTION	JBL
		ASES Security	and equivalent	
278	PUMPS	WILLO	KIRLOSKAR	KSB
		XYLLUM	CG	and equivalent
279	AVIATION OBSTRUCTION LIGHT	WIPRO	PHILLIPS	CROMPTON
		BAJAJ	INSTAPOWERR	and equivalent
280	HIGH MAST LIGHTING SYSTEM	PHILLIPS	BAJAJ	CROMPTON
		INSTAPOWERR	TRANSRAIL	and equivalent
281	LT SERVO AUTOMATIC VOLTAGE STABILIZER	AE	LOGICSTAT	LD POWER TRANSFORMER S (PVT.) LTD.
		and equivalent		
282	D.G. SET ACOUSTIC ENCLOSURE	AS PER D.G. APPROVED BY OEM		
283	M.S. PIPE	TATA	JINDAL	SAIL
		PRAKSHSURYA	HISSAR	and equivalent
284	BUTTERFLY / BALANCING VALVE	ZOLOTO	AUDCO	SANT
		DRP	and equivalent	
285	COOLING TOWER	BELL	PAHARPUR	DELTA
		and equivalent		
286	POT STRAINER/ Y STRAINER	ZOLOTO	EMERALD	SANT
		DRP	and equivalent	
287	CCTV CAMERA/ DVR / NVR	HONEYWELL	SONY	BOSCH
		HIKVISION	SAMSUNG	PANASONIC
		SIEMENS	JONSON	PELCO
		and equivalent		
288	ACCESS CONTROL	BOSCH	TYCO	HONEYWELL
		and equivalent		
289	CAT6A	CISCO	D-LINK	NETGEAR
		and equivalent		
290	MINERAL INSULATED COPPER CABLE FOR PA AND FDA	DRAKA	PYROTENAX	RSCC
		and equivalent		
291	FIRE SUPPRESSION SYSTEM	HONEYWELL	FIKE	NOHMI
		and equivalent		
292	RESIDENTIAL SILENCER	NELSON	CUMMINS	PK ENGINEERING
		and equivalent		
293	TEMPERATURE GAUGES	H GURU	FEIBIG	WIKA
		BELL	and equivalent	
294	VIBRATOR ELIMINATOR	KANWAL	RESISTROFLE X	D'WREN
		and equivalent		
295	INSULATION	UP TWIGA	KIMCO	LLYOD
		and equivalent		
296	WELDELECTRODES	ADVANI	ESAB	L&T
		VICTOR	and equivalent	
297	BOOMBARRIER	FAAC	GODREJ	SOMFY
		and equivalent		
298	DWCHDPE PIPE	FINOLEX	ASTRAL	ASHIRVAD

SI. No.	Material	Approved Makes/ Brands		
		SUPREME	and equivalent	
298	INVERTER	MICROTEK	LUMINOUS	SU-KAM
		and equivalent		
299	NURSECALLSYSTEM	SCHRACK SECONET	HONEYWELL	RAULAND-BORG
		PIECO	and equivalent	
300	SEMI ROTARY TYPE HAND FUEL FILLING PUMP	ROTODEL	KITTY	GROZ
		and equivalent		
301	SOLARPVMODULE	ADANI	VIKRAM	TATA
		and equivalent		
302	SOLARINVERTER	DELTA KOTAK	NEOWATT	SCHNEIDER
		URJA	and equivalent	
303	DCCABLE	POLYCAB	HAVELLS	FINOLEX
		and equivalent		
304	MC4CONNECTOR	SYNERGY	SETLLAR	SCHNEIDER
		and equivalent		
305	Fire fighting & electrical Control Panels, Tube bases gas fire suppression system, Fire door	ASES Security	and equivalent	
306	Insulated copper wire & cables, PVC Conduit, Flexible Conduit, Steel Conduit, GI Cable tray, PVC insulated single core Unsheathed Industrial cable	Finolex	RR kabel	KEI
		LEGRAND	POLYCAB	Bonton
		and equivalent		
<b>HSDWORKS</b>				
307	BUTTERFLY/ CHECKVALVES	ZOLOTO	AUDCO	SANT
		DRP	and equivalent	
308	BALLVALVE	GIACOMINI	ZOLOTO	SANT
		DRP	NEW	and equivalent
309	LEVELCONTROLS	LEVCON	MINILEC	FEMACK
		and equivalent		
310	FUEL OIL PUMP/ OILFLOWMETER	REACTOR	KESHCO	TUSHACO
		KENT	and equivalent	
311	ALLPOWER AMPLIFIERS	BOSE	POWERSOFT	ELECTROVOICE
		BOSCH	and equivalent	
312	ALLLOUDSPEAKERS, LINE ARRAYS AND SUBWOOFERS IN CLASS ROOMS AND	BOSE	MARTIN AUDIO	D&B AUDIOTECHNIC
		BOSCH	ELECTO VOICE	and equivalent
313	CEILING SPEAKER (AUDIO/ VIDEO)	BOSE	MARTIN AUDIO	D&B AUDIOTECHNIC
		BOSCH	ELECTO VOICE	and equivalent
314	STAGE LIGHTING	CANARA LIGHTING	MARTIN LIGHTS	ROBE
		and equivalent		
315	NETWORK SWITCH	CISCO	D-LINK	NETGEAR
		and equivalent		
316	ALL SWITCHING & CONTORLS, RECEIVERS, TRANSMITTERS, SCALER EXTENDER	KRAMER	CRESTRON	EXTRON
		and equivalent		
317	PROJECTOR	BARCO	CHRISTIE	DIGITAL PROJECTION
		and equivalent		
318	ELEVATORS	KONE	OTIS	MITSUBISHI
		SCHINDLER	JONHSON	ECE
		and equivalent		
319	LIGHTFIXTURES(LED)	LEGERO	INSTAPOWER	PHILIPS
		TRILUX	NEXTRAY	CROMPTON
		LT	and equivalent	
320	MOTORIIZEDSCREEN IN CLASS ROOMS	DALITE	DRAPER	SUVIRA

SI. No.	Material	Approved Makes/ Brands		
	AND AUDITORIUMS	and equivalent		
321	FLAT PANEL DISPLAY	CHRISTIE	NEC	PLANAR
		and equivalent		
322	DOCUMENT CAMERA	ELMO	LUMENS	WOLFFVISION
		and equivalent		
323	HIGH DEFINITION VIDEO CONFERENCING	CISCO	POLYCOM	SONY
		and equivalent		
324	CAMERA SECONDARY	LUMENS	POLYCOM	SONY
		and equivalent		
325	MULTI FORMAT PRESENTATION SWITCHER WITH CONTROL PROCESSOR IN CLASS ROOMS AND AUDITORIUMS	AMX	CRESTRON	EXTRON
		BOSCH	and equivalent	
326	WIRELESSTOUCH PANEL WITH ACCESSORIES IN CLASS ROOMS AND AUDITORIUMS	AMX	CRESTRON	EXTRON
		BOSCH	and equivalent	
327	CONFERENCE SYSTEM IN CLASS ROOMS AND AUDITORIUMS	BOSCH	BRAHLER	SCHINDLER
		and equivalent		
328	DELEGATEAND CHAIRMAN MICROPHONES	BEYERDYANMIC	BRAHLER	BOSCH
		and equivalent		
329	HANDHELD AND LAPEL MICROPHONES	BEYERDYANMIC	BRAHLER	BOSCH
		and equivalent		
330	DIGITALSIGNAL PROCESSOR	BOSCH	BRAHLER	SENNHEISER
		and equivalent		
331	VGAWITHAUDIO PATCH CABLE	KREMER	CRESTRON	EXTRON
		and equivalent		
332	DIGITALVIDEO CABLE NON-PLENUM	KREMER	CRESTRON	EXTRON
		and equivalent		
333	CONTROL CABLE	BELDEN	CRESTRON	EXTRON
		and equivalent		
334	MICROPHONECABLE	KRYSTAL	CRESTRON	EXTRON
		BELDEN	and equivalent	
335	AUDIOAND STEREO CONTROL CABLE	BELDEN	CRESTRON	EXTRON
		KRYSTAL	and equivalent	
336	SHIELEDCHIELED CAT6A/FIBRE CABLE	CISCO	D-LINK	NETGEAR
		and equivalent		
337	BULKCONNECTORS	NEUTRIK	SWITCHCRAF T	AMPHENOL
		and equivalent		
338	EQUIPMENTRACH	CHIEF	MIDDLE ATLANTICA	VALRACK
		and equivalent		
339	LIGHTING CONTROLLER/ MANAGEMENT SYSTEM	LUTRON	ZUMTOBEL	HONEYWELL
		and equivalent		
340	SMARTPODIUM	PEOPLELINK	AHA	LUMIN
		and equivalent		
341	INTERATIVE WHITE BOARD	PROMETHEAN	HITEVISION	SMART
		and equivalent		
342	COUNTDOWN CLOCK	BIGTIMECLOCKS	ULTRAK	BANGGOOD
		and equivalent		
343	COMPUTER	HP	DELL	IBM
		and equivalent		
344	MONITOR	SAMSUNG	PANASONIC	CHRISTIE
		DELTA	and equivalent	
345	12BAYNAS	NETGEAR	DELL	HP

SI. No.	Material	Approved Makes/ Brands		
		CISCO	and equivalent	
346	10G CORE SWITCH	NETGEAR	DELL	HP
		CISCO	and equivalent	
347	L3POEPLUSWITCH	NETGEAR	DELL	HP
		CISCO	and equivalent	
348	DUALBAND11 AC ACCESS POINT	NETGEAR	DELL	HP
		CISCO	and equivalent	
349	10GSINGLEMODE SFP+ MODULE	NETGEAR	DELL	HP
		CISCO	and equivalent	
350	SECURE NETWORK SERVER	CISCO	DELL	HP
		and equivalent		
<b>HVAC SYSTEM WORKS</b>				
<b>CHILLERS</b>				
351	Water Cooled Centrifugal Chillers With VSD (AHRI Certified)	Carrier	Daikin	Trane
		York	Kirloskar	and equivalent
352	Rotary Screw Water-cooled Water Chilling Machine (AHRICertified-200TR & Above)	Carrier	Daikin	Trane
		York	Kirloskar	and equivalent
353	VRV/VRF System (Outdoor /Indoor Units, Copper Y Joints And Fittings, Central & Remote Controller)	Daikin	Toshiba	Mitsubishi
		and equivalent		
354	Air-cooled Ductable Split Unit	Daikin	Hitachi	Carrier
		and equivalent		
355	Air-cooled Packaged Unit	Daikin	Hitachi	Carrier
		and equivalent		
356	Air Cooled Hi-wall/ Cassette Unit	Daikin	Hitachi	Carrier
		and equivalent		
357	Air Cooled Precision AC Unit	Emerson	APC	Stulz
		BlueBox	and equivalent	
358	Horizontal Split Casing / Vertical Inline/ End Suction / Monoblock Pump Sets (For Primary CHW Pumps & Condenser Water Pumps & Hot Water Pumps)	ITTXylem	Armstrong	Grundfoss
		and equivalent		
359	Variable Speed Pumping System (For Secondary Chilled Water Pumps Motors)	ITTXylem	Armstrong	Grundfoss
		and equivalent		
360	Variable Frequency Drive (For Pumps, Cooling Tower & AHU)	Danfoss (FC102)	ABB (ACH 550)	Siemens (Sinamics G120P)
		VTS	and equivalent	
361	Expansion Tank	Xylem-ITT	Armstrong	Grundfos
		Anergy	and equivalent	
362	Cooling Tower (CTI/ JCI Approved & Certified)	Paharpur	DVR	Advance
		Bell	and equivalent	
363	Air & Dirt Separator, Automatic Air Vent, Vacuum Degasser	Spirotech	Spirotherm	Anergy
		Caleffi	and equivalent	
364	Hot Water Generator & Pan Humidifier	KEPL	Emerald	Rapid Cool
		and equivalent		
365	Electrochemical Water Treatment & Disinfection System (For AC Plant)	Elgressy	Terragon	ENPAR Technologies
		and equivalent		
366	Air Handlers Unit	Flaktwood	Systemair	Ultrasure
		Edgetech	and equivalent	
367	Fan Coil Unit	Flaktwood	Systemair	Ultrasure
		Edgetech	and equivalent	



SI. No.	Material	Approved Makes/ Brands		
368	AHU Fans (AMCA Certified for Sound & Performance)	Kruger	Wolter	Nicotra
		Greenheck	and equivalent	
369	Heat/ Energy Recovery Wheel	DRI	Greenheck	Flaktwood
		and equivalent		
370	Air-washer & Wet Scrubber	Ultrapure	Systemair	Flaktwood
		Edgetech	and equivalent	
371	Dry Scrubber	Trion	Rydair	and equivalent
372	Scrubber & Air- washer Fans (AMCA Certified for Sound & Performance)	Kruger	Greenheck	Nicotra
		and equivalent		
373	Acoustically Insulated Box Type Inline Fans	Ostberg	Kruger	Wolter
		Saksham	and equivalent	
374	Axial Fan / Centrifugal Fan (AMCA Certified for Sound & Performance)	Greenheck	Airflow	Kruger
		Systemair	Flaktwood	and equivalent
375	PropellerFan	GE	Usha	Bajaj
		and equivalent		
376	Three phase motors	ABB	CG	Siemens
		Marathon	and equivalent	
377	Three phase motors(250°C for 2 Hours)	Marathon	Havells-Lafert	Baldor
		and equivalent		
378	Water Piping Upto 150mm dia	Tata	SAIL	Jindal Hissar
		Prakash Surya	and equivalent	
379	Water Piping Above 150mm dia	Tata	MSL	Jindal
		Prakash Surya	and equivalent	
380	Y-strainer/ Pot-strainer	Emerald	Sant	Rapid Cool
		Zoloto	and equivalent	
381	Butterfly Valve (Manual & Motorized)	Advance	DRP	Zoloto
		Leader	and equivalent	
382	Actuator for Motorised Butterfly Valve	Belimo	Siemens	Danfoss
		Honeywell	and equivalent	
383	Manual Balancing Valve	Advance	Zoloto	Leader
		and equivalent		
384	Dual Plate Check Valve	Advance	Zoloto	Leader
		and equivalent		
385	FCU Valve Station	Calefi	CNM	ATS
		and equivalent		
386	Pressure Independant Control cum Balancing Valves /High Rangeability Valve	DANFOSS	JOHNSON CONTROL	SIEMENS
		ANERGY	and equivalent	
387	Thermostat/ Humidistat	DANFOSS	JOHNSON CONTROL	SIEMENS
		ANERGY	and equivalent	
388	Globe/ Ball Valve (With or Without Strainer)	Advance	AIP	Zoloto
		Leader	and equivalent	
389	Auto Air Vent Valve	Calefi	Spirotech	Anergy
		and equivalent		
390	Pressure Gauges	Feibig	Emerald	H Guru
		Taylor	and equivalent	
391	Industrial Type Thermometer (Alcohol Filled V form)	Feibig	Emerald	H Guru
		Taylor	and equivalent	
392	GSS Sheet	Sail	Tata	Jindal
		and equivalent		
393	Factory Fabricated Duct	Zeco	Ductofab	Waves
		Projtech	and equivalent	
394	Aluminium Sheet	Hindalco	Balco	Nalco

SI. No.	Material	Approved Makes/ Brands		
		and equivalent		
395	Vibration Isolation Spring& Flexible Pipe Connector	Easy flex	Resisto flex	Dunlop
		and equivalent		
396	VAV Boxes	Trox	Zenesty	Johnson
		and equivalent		
397	CAV	Zenesty	Trox	Trane
		and equivalent		
398	Fire & Smoke Damper	SystemAir	Zenesty	Trox
		and equivalent		
399	Fire Damper Actuator	Belimo	Siemens	Honeywell
		and equivalent		
400	Extruded aluminum grills/ Diffusers	SystemAir	Zenesty	Titus
		and equivalent		
401	Pre Filters, Fine Filters & Hepa Filters	Thermodyne	Spectrum	Mechmark
		and equivalent		
402	Closed Cell Fire Retardant XPE (For Duct Insulation)	Paramount	Supreme	Trocylrene
		and equivalent		
403	Nitrile Rubber For Pipe/ Duct Insulation (With mechanical & UV Protection)	Armacell	Supreme	Kflex
		and equivalent		
404	V Belt	Dunlop	Fenner	Hilton
		and equivalent		
405	Fibre Glass Rigid Board	U.P.Twiga	Owencorning	Kimco
		and equivalent		
406	Paints	ICI	Asian	Berger
		and equivalent		
407	Tarfelt/ CPRX compound	Shalimartarproduct	and equivalent	
408	Dash Fasteners	Fisher	Hilti	Bosch
		and equivalent		
409	Welding Rods	Advani	L&T	Esab
		and equivalent		
410	Insulated Flexible Duct	Atco	Caryaire	Zenesty
		and equivalent		
411	Duct/ Pipe Support	Easyflex	Gripple	Resistoflex
		and equivalent		
412	Copper Refrigerant Piping	Mandev	Rajco	ShreeShyam
		and equivalent		
413	Copper Refrigerant Pipe Insulation	Armacell	ALPAeroflex	Kflex
		and equivalent		
414	Duct Mounted Bio- polar Ionization System	Ruks	Trimed	PlasmaAir
		and equivalent		
415	Intelligent Air Filtration System with UVC/UVGI	Yumito	Zenesty	Flowhex
		and equivalent		
416	Imported AHU/ UVC/ CoiloTron/ UVGI	Ruks	Trimed	Pureair
		and equivalent		
417	Pre insulated Ducting for Conditioned Air	Easy (mecheasy)	P3	ALP
		and equivalent		
418	Smart Anti Fouling Condenser System	CET	Energieo	CQM
		and equivalent		
419	Heater Bank	DasPass	Escorts	KEPL
		and equivalent		
420	UV & Weather Protective Coating	Pidilite	Foster	Amicon
		and equivalent		
421	Magnehelic Gauges	Mitbraus Instruments	Dwyer	Omicron

SI. No.	Material	Approved Makes/ Brands		
		and equivalent		
422	Electrical Panel, Console Panel & Sub-Panels	RYBNE,	KRATOS	LOTUS CONTROL
		TRICOLITE	SPC Electrotech Pvt. Ltd.	and equivalent
423	Air-Circuit Breaker	As per list of Electrical make		
424	M.C.C.B.	As per list of Electrical make		
425	MCB	As per list of Electrical make		
426	Starters, Contactors, Push Buttons, Overload Relay	As per list of Electrical make		
427	Single Phase Preventer	As per list of Electrical make		
428	Current Transformer	As per list of Electrical make		
429	Rotary Switches	As per list of Electrical make		
430	Change Over Switch	As per list of Electrical make		
431	Voltmeter/ Ammeter	As per list of Electrical make		
432	Indicating Lamps	As per list of Electrical make		
433	Time Delay Device	As per list of Electrical make		
434	Control Cable & Accessories	As per list of Electrical make		
435	MS Conduits ISI Approved	As per list of Electrical make		
436	GI Cable Tray (Factory Fabricated)	As per list of Electrical make		
438	TDRs	LT-LK	BCH	and equivalent
439	Vacuum Degasser	Spirotech Anergy	Comfort	Spirotherm
		Omicron	and equivalent	
440	BMS System	As per specifications		
441	Software	Honeywell-Webs	DELTA	ABB
		Omicron	and equivalent	
442	Network Area Controller	Honeywell-Webs	DELTA	ABB
		Omicron	and equivalent	
443	Third Party Integrator	Honeywell-Webs	DELTA	ABB
		Omicron	and equivalent	
444	Central and DDC Controllers	Honeywell-Webs	DELTA	ABB
		Omicron	and equivalent	
445	Ultrasonic BTU/ FlowMeters	ForbesMarshall	Landis & Gyr	Fuji
		Omicron	and equivalent	
446	Immersion Temperature Sensor	Honeywell	DELTA	ABB
		Omicron	and equivalent	
447	Return Air Temperature Sensor	Honeywell	DELTA	ABB
		Omicron	and equivalent	
448	Network/ Remote Operator Terminal	Honeywell	DELTA	ABB
		and equivalent		
449	Smoke Sensor	Honeywell	DELTA	ABB
		Omicron	and equivalent	
450	Temperature plus RH Sensor	Honeywell	DELTA	ABB
		Omicron	and equivalent	
451	Differential Pressure Switch- Air	Honeywell	DELTA	ABB
		Omicron	and equivalent	
452	Differential Pressure Switch- Water	Honeywell	DELTA	ABB
		Omicron	and equivalent	
453	Computer	ZENIBM	HP	Dell
		and equivalent		
454	Laser Printer	HP	Sharp	Canon
		and equivalent		
455	CAT-6 Cable	Molex	Fusion Polymer	belden

SI. No.	Material	Approved Makes/ Brands		
		R&M	and equivalent	
456	Signal Cable	Polycab	Skytone	Versha
		and equivalent		
457	CO2 Sensor	Honeywell	Omicron	Vishala
		and equivalent		
458	CO Sensor (Electro Chemical Gel Based)	Honeywell	Omicron	Vishala
		and equivalent		
459	Level Switch	Honeywell	Omicron	Vishala
		and equivalent		
460	Current Relay	Honeywell	Omicron	Vishala
		and equivalent		
461	DC Voltage Transducer	ABB	Honeywell	Seto
		Mosibus	and equivalent	
462	Multifunction Meter with Communication Port	AVK-SEGC	and equivalent	
463	Lux Level Sensor	Honeywell	ALC	ABB
		Omicron	and equivalent	
464	Differential Pressure Transmitter-Air	Honeywell	ALC	ABB
		Omicron	and equivalent	
465	Pressure Transmitter-Water	Honeywell	ALC	ABB
		Omicron	and equivalent	
466	Digital Thermostat / Humidistat	Honeywell	ALC	ABB
		Omicron	and equivalent	
467	Video Conferencing System	POLYCOM	TANDBERG	SONY
		and equivalent		
468	Quad BRI module for Video conferencing unit	POLYCOM	TANDBERG	SONY
		and equivalent		
469	Plasma / LCD / LCD-LED Display Panel / TV	PANASONIC	SONY	SAMSUNG
		BOSE VIDEO WAVE	and equivalent	
470	LCD / DLP/ LED Projector	CHRISTIE	SONY	NEC
		EPSON	and equivalent	
471	Audio / Video/ Computer signal processing equipment - Switcher , Distribution amplifier , Scaler	KAMER	EXTRON	BOSE
		and equivalent		
472	Manual Pull down / Motorized Projection Screen	LIBERTY	DRAPER	and equivalent
473	Motorized ceiling Lift	LIBERTY	DRAPER	and equivalent
474	Projector Mount	ANSON	LIBERTY	DRAPER
		and equivalent		
475	Low noise shielded Video signal cable	KAMER	EXTRON	BOSE
		GOTHAM	KLOTZ	and equivalent
476	VGA to HDMI converter / scaler	KAMER	EXTRON	BOSE
		and equivalent		
477	Table Pop up box with VGA /HDMI/ RJ 45 / Power / Audio	KAMER	EXTRON	MAGNUM
		BOSE	and equivalent	
478	VGA , BNC , RCA connector	KAMER	EXTRON	BOSE
		and equivalent		
479	Pan / Tilt / Zoom - Dome / Robotic camera	SONY	SAMSUNG	and equivalent
480	Digital Twisted pair Audio / Video encoder transmitter / receiver	KAMER	EXTRON	and equivalent
481	Digital Video Recorder	SONY	SAMSUNG	BOSCH
		and equivalent		

SI. No.	Material	Approved Makes/ Brands		
482	Professional grade CD/ DVD player	TASCAM	PANASONIC	SONY
		and equivalent		
483	Low noise composite video cable	KAMER	EXTRON	BOSE
		GOTHAM	KLOTZ	and equivalent
484	Digital Interactive Pen display	WACOM -JAPAN	QOMO	and equivalent
485	Document Camera	QOMO	LUMENS	and equivalent
486	Wall plates with VGA / HDMI / Analog Audio	KAMER	EXTRON	MAGNUM
		and equivalent		
487	Skew free data cables	KAMER	EXTRON	and equivalent
488	wired/ wireless touch screen control system pack for controlling audio, video, lighting & other electrical equipment	CRESTRON	AMX	and equivalent
489	Video Wall & video wall processor	VTRON	CHRISTIE	and equivalent
490	In Ceiling / In Wall Speaker	JBL	BOSE	FUNKTION
		TANOY	and equivalent	
491	Professional Audio Amplifier / Mixer amplifier	CROWN	BOSE	BITTNER
		QSC	OHM	and equivalent
492	Table embedded Microphone	CROWN	AKG	SENNHEISER
		SHURE	and equivalent	
493	Boundary Layer Microphone	CROWN	AKG	SENNHEISER
		SHURE	and equivalent	
494	Dynamic Microphones for Vocal / Musical instrument	CROWN	AKG	SENNHEISER
		SHURE	and equivalent	
495	UHF cordless Microphone - Handheld/ Lapel /Headworn	CROWN	AKG	SENNHEISER
		SHURE	and equivalent	
496	Digital Programmable audio processor with Mic, Line input , Auto echo cancellation , auto adjustable noise threshold	BIAMP-USA	BOSE	BSS -LONDON
		and equivalent		
497	Analog Audio mixer with pahatom power	BOSE	AKG	CROWN
		SOUNDCRAFT	ALLEN HEATH	and equivalent
498	Automatic Feedback suppressor with programmable Fixed & Live filters	DBX	BOSE	SHURE
		and equivalent		
499	Automatic audio mixer with AGC , Compressor , Phantom power , Gain adjustment	AKG	SHURE	SOUND CRAFT
		BIAMP	MAKIE	ALLEN HEATH
		BOSE	and equivalent	
500	Loudspeaker management processor	DBX	BOSE	and equivalent
501	Audio Conferencing system Wired/ Wireless	BOSE	SHURE	AKG
		SENNHEISER	CROWN	and equivalent
502	Low noise two core speaker cable	KRAMER	EXTRON	KLOTZ
		GOTHAM	BOSE	and equivalent
503	Low noise two core audio signal cable	KRAMER	EXTRON	KLOTZ
		GOTHAM	BOSE	and equivalent
504	Professional grade patch cord for VGA / HDMI / Audio	BANDRDGE	KRAMER	and equivalent
505	Audio XLR / RCA / Phono/ BNC connector	NEUTRIK	AMPHENOL	and equivalent
506	Equipment Rack	APW	VALRACK	and equivalent
507	Online / Off Line UPS system	APC	NEUMERIC	ORION
		and equivalent		
508	Servo controlled stabilizer	VERTEX	MAX	and equivalent

SI. No.	Material	Approved Makes/ Brands		
509	Dimmable Ballast - ( Analog, DALI , DSI) for Crestron/ AMX control	OSRAM	PHILIPS	TRIDONIC -ATCO
		and equivalent		
510	Analog to DSI converter for Dimmable Ballast	OSRAM	PHILIPS	TRIDONIC -ATCO
		and equivalent		
511	ISI Marked casing 'n' capping	AKG	PRESTO PLAST	POLYCAB
		WELKM	J PLAST	PLAZA
		PRECISION	RICHA	and equivalent
512	FLUSH TYPE SWITCH	ANCHOR PENTA/GOLD MEDAL /KOLOR KANY.KOM/ HAVELLS and equivalent		
513	CEILING ROSE	ANCHOR/GOLD MEDAL /KOLOR KANY.KOM and equivalent		
514	2MM THICK / HEAVY RIGID PVC IS:9537 PART - III CONDUIT	BERLIA/ AKG / PRECISION and equivalent		
515	MS CONDUIT	AKG /BEC/ SUPREME and equivalent		
516	G.I CONDUIT	AKG	TATA	and equivalent
517	METAL BOXES	18 S.W.G	and equivalent	
518	PLAIN PENDENT HOLDER	ANCHOR PENTA PC CHERRY OR EQUIVALENT /GOLD MEDAL /KOLOR KANY.KOM/HAVELLS and equivalent		
519	BATTEN HOLDER	ANCHOR PENTA PC CHERRY OR EQUIVALENT /GOLD MEDAL /KOLOR KANY.KOM/HAVELLS and equivalent		
520	BUS BAR CHAMBER	HPL/ GECO and equivalent		
521	METAL CLAD SWITCH FUSE UNIT	HPL/ GECO / ANCHOR and equivalent		
522	SWITCH GEAR & PROTECTION	ABB, SCHNEIDER MG, LEGRAND, HAGER and equivalent		
523	MCB (CONFORM TO IS / IEC 60898-1:2002) / MCCB (CONFORM TO IS/IEC 60947-2) RCCB (CONFORM TO IS/IEC 12640 / 61008) RCBO B SERIES, MCB	SCHNEIDER MG, LEGRAND, HAGER, ABB, L&T and equivalent		
524	C SERIES, MCB	SCHNEIDER MG, LEGRAND, HAGER, ABB, L&T and equivalent		
525	D SERIES, MCB	SCHNEIDER MG, LEGRAND, HAGER, ABB, L&T and equivalent		
526	RCCB	SCHNEIDER MG, LEGRAND, HAGER, ABB, L&T and equivalent		
527	RCBO	SCHNEIDER MG, LEGRAND, HAGER, ABB, L&T and equivalent		
528	SURGE PROTECTION & OVER VOLTAGE PROTECTOR	SCHNEIDER MG, LEGRAND, HAGER, ABB, L&T and equivalent		
529	MCCB WITH THERMAL & MAGNETIC RELEASE, 25 KA 415V 50 HZ 3P MCCB	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
530	35/36 KA 415V 50 HZ 3P MCCB	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
531	50 KA 415V 50 HZ 3P MCCB	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
532	25 KA 415V 50 HZ 4P MCCB	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
533	35/36 KA 415V 50 HZ 4P MCCB	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
534	50 KA 415V 50 HZ 4P MCCB	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
535	36KA, 3P MCCB WITH MICROPROCESSOR RELEASE	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
536	50KA	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
537	3P MCCB WITH MICROPROCESSOR RELEASE	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
538	36KA	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
539	50KA	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		

Sl. No.	Material	Approved Makes/ Brands		
540	70KA	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
541	4P MCCB WITH MICRO PROCESSOR RELEASE 36KA/ 50KA/ 70KA	SCHNEIDER, LEGRAND, SIEMENS, ABB, L&T, HAGER and equivalent		
542	CHANGE OVER	ABB, SCHNEIDER, LEGRAND, L&T and equivalent		
543	SWITCH DISCONNECTOR FUSE UNIT	ABB, SCHNEIDER, LEGRAND, L&T and equivalent		
544	READYMADE PANEL (BOX ONLY)	LEGRAND/ L&T/ ABB/ SCHNEIDER and equivalent		
545	SUPPLY ONE COMPOSITE CONTROL PANEL FOR UNMANNED OPERATION	CATERPILLER/ ABB/ SCHNEIDER/ JAKSON and equivalent		
546	CONTROL PANEL, MADE OF RUGGED, CORROSION-RESISTANT ENCLOSURES, MADE OF HOT-DIP GALVANIZED SHEET STEEL ACCORDING TO STANDARDS: ISO 1461, IEC 60439-1AND IEC 60439-5 FOR ENVIRONMENT CLASSED C1 AND C2 TO, ISO 12944-2	ABB/SCHNEIDER/ L& T/ SIEMENS/ LEGRAND and equivalent		
547	SPECIAL OUT DOOR FEEDER PILLAR	ABB/SCHNEIDER/ L& T and equivalent		
548	ADVANCED LIGHTNING PROTECTION SYSTEM	ABB or equivalent		
549	LUMINAIRIES	PHILLIPS / WIPRO/ JAQUAR / NEXTRAY/ CROMPTON GREAVES and equivalent		
550	LED INDOOR	PHILLIPS / WIPRO/ JAQUAR / NEXTRAY/ CROMPTON GREAVES and equivalent		
551	HIGH MAST	BAJAJ/VALMONT/ PHILIPS and equivalent		
552	SECURITY SEARCH LIGHT	SIGMA and equivalent		
553	LIGHT WITH POLE	K - LITE and equivalent		
554	FAN	USHA / CROMPTON and equivalent		
555	AIR CARTAIN	CROMPTON GREAVES/VEE-DEE and equivalent		
556	AIR CONDITION	CARRIER AIRCON/ VOLTAS/ DAIKIN/ MITSUBISHI and equivalent		
557	VOLTAGE STABILIZER	VERTEX/ INDO/ VENUS and equivalent		
558	U G CABLE (HT)	HAVELLS/ RPG/CCI/POLYCAB/ GLOSTER/ FINOLEX / NICCO and equivalent		
559	U G CABLE (LT)	HAVELLS/ RPG/CCI/POLYCAB/ GLOSTER/ FINOLEX / NICCO and equivalent		
560	CABLE GLAND,	COMET/ DOWELLS and equivalent		
561	TERMINAL,	COMET/ DOWELLS and equivalent		
562	TRAY,	LEGRAND/ AKG /STRUTFAST and equivalent		
563	FLOOR RACEWAY	MK/ LEGRAND and equivalent		
564	CABLE KITS	MS - SEAL/ RAYCHEM RPG and equivalent		
565	CABLE JUNCTION BOX	HENSEL/ BCH/ SINTEX and equivalent		
566	TRANSFORMER	RAYCHEM/KOTSONS/ DANISH/ NUCON/ TECHNOVEL/ POWER STAR/ Kirloskar/ Crompton and UPTO 250 KVA LOCAL MAKE (AS PER CEA		
567	GALVANIZED POLE	BANSAL/SRP and equivalent		
568	OCTAGONAL POLE	BAJAJ/ PHILIPS/ VALMONT and equivalent		
569	GEYSER	RACOLD/ KINGSTON/ Crompton/ JAQUAR and equivalent		
570	MOTOR PUMP SET	CROMPTON GREAVES/ CRI/ SIEMENS and equivalent		
571	DOL STARTER	CROMPTON GREAVES/ L& T / SIEMENS and equivalent		
572	SUBMERSIBLE PUMP SET	TEXMO / CROMPTON GREAVES/ CRI/ SIEMENS and equivalent		
573	DIESEL GENERATOR	CATERPILLAR	JACKSON	and equivalent
574	DECORATIVE BRACKET LIGHT.	PHILIPS	JAQUAR	and equivalent
575	PENDENT LIGHT.	PHILIPS	JAQUAR	and equivalent
576	CEILING FITTING LIGHT.	PHILIPS	JAQUAR	and equivalent
577	CHANDELIER FITTINGS.	JAQUAR		and equivalent



Sl. No.	Material	Approved Makes/ Brands		
578	RISING MAIN	LEGRAND	L&T	and equivalent
579	AIR CIRCUIT BREAKER	ABB EMAX	L & T U POWER	MASTER PACT NW
		SIEMENS 3 WL	SCHNEIDER	and equivalent
580	MODULAR SWITCH	LEGRAND	SCHNEIDER	and equivalent
581	CABLE MANAGEMENT SYSTEM	RR EUBIQ	MK	SCHNEIDER
		LEGRAND		and equivalent
582	EPABX	SIEMENS		and equivalent
583	MONITORS	PELCO	PHILIPS	SAMSUNG
		NEC		and equivalent
584	ACCESS CONTROL SYSTEM	HONEYWELL	SIEMENS	SCHNEIDER
		JOHNSON CONTROL		and equivalent
585	POWER SUPPLY UNIT	EUROPLEX	SIEMENS	SEMCO
		JOHNSON		and equivalent
586	ADDRESSABLE FIRE ALARM & DETECTION SYSTEM	MORLEY	FIRELITE	APOLLO
		HONEYWELL		and equivalent
587	CONVENTIONAL FIRE ALARM	AGNI	APOLLO	NOTIFIER
		SYSTEM SENSOR	MORLEY	and equivalent
588	LIFT	OTIS	KONE	MITSHUBISHI
				and equivalent
589	INVERTER	SU-KAM	MICROTECH	LUMINOUS
				and equivalent
590	BATTERY	EXIDE	LUMINOUS	and equivalent
591	COMPACT SUB-STATION	ABB	SCHNEIDER	CROMPTON
		GREAVES	POWER STAR	and equivalent
592	LAN WORK	DIGILINK	FINOLEX	LEGRAND
				and equivalent
593	RACK FOR LAN WORKS	APW		and equivalent
594	AVR	ANDREW YULE		and equivalent
595	DEAD BODY CABINET	BLUE STAR		and equivalent
596	AUTOMATION	PHILIPS	ABB	SCHNEIDER
		PANASONIC	HAVELS	LEGRAND
		HAGER		and equivalent
597	APFC	ABB	SCHNEIDER	CROMPTON
		SIEMENS	L&T	and equivalent
598	SOLAR POWER	MNRE APPROVED MANUFACTURER.		
599	CEILING FAN BOX	AKG	WELKM	and equivalent
600	HT PANEL	ABB	SCHNEIDER	CROMPTON
		SIEMENS		and equivalent
601	VCB	ABB	SCHNEIDER	CROMPTON
		SIEMENS		and equivalent
602	P.V.C. INSULATED SINGLE CORE UNSHEATHED INDUSTRIAL (MULTISTRAND) CABLE FR CONFORMING TO IS-694: 1990 WITH FLEXIBLE BRIGHT ANNEALED ELECTROLYTIC COPPER CONDUCTOR FOR VOLTAGE GRADE UP TO 1100 VOLTS	FINOLEX	RR KABEL	NICCO
		BONTON		and equivalent
603	P.V.C. INSULATED SINGLE CORE UNSHEATHED INDUSTRIAL FLEXIBLE CABLE CONFORMING TO IS-694: 1990 WITH FLEXIBLE BRIGHT ANNEALED	FINOLEX	RR KABEL	NICCO

SI. No.	Material	Approved Makes/ Brands		
	WITH FLEXIBLE BRIGHT ANNEALED COPPER CONDUCTOR FOR VOLTAGE GRADE UP TO 1100 VOLTS	BONTON	and equivalent	
604	P.V.C. INSULATED SINGLE CORE UNSHEATHED INDUSTRIAL (MULTISTRAND) CABLE HFFR CONFORMING TO IS-694: 1990 WITH FLEXIBLE BRIGHT ANNEALED ELECTROLYTIC COPPER CONDUCTOR FOR VOLTAGE GRADE UP TO 1100 VOLTS	FINOLEX	RR KABEL	NICCO
		BONTON	and equivalent	
605	CONTRACTORS	ABB	SIEMENS	L& T
		SCHNEIDER	CUTLER HAMMAR	and equivalent
606	RELAYS	ALSTOM	SIEMENS	L& T
		AVK-SEGC	and equivalent	
607	METERS	ALSTOM	SIEMENS	L& T
		AVK-SEGC	and equivalent	
608	OVER LOAD RELAY	CONNSERVE (MULTIFUNCTION METER FOR CURRENT, VOLTAGE, POWER, P.F , KWH.	and equivalent	
<b>AIR CONDITIONER MATERIALS</b>				
609	G.I .SHEET	SAIL	TATA	JINDAL
		BHUSAN	and equivalent	
610	STRUCTURAL SECTION	SAIL	TATA	ESSAR
		and equivalent		
611	FRESH AIR LOUVER	DYNACRAFT	CARRYAIRE	RAVISTAR
		and equivalent		
612	T.F. QUALITY EXPANDED POLYSYRENE	BEARDESELL	TOSIBA	and equivalent
613	ENERGY RECOVER VENTILATOR	DRI Rotor	EQV	and equivalent
614	AIR WASHER	AMBASSADOR	ROOT COOLIING	ZECO
		and equivalent		
615	REFRIGERANT PIPES	VEDANTA	NIPPON TUBES	ZECO
		and equivalent		
616	FLEXIBLE COUPLING	RESISTOFLEX	FENNAR	KANWAL
		and equivalent		
617	Any Missing Item	Prior Permission is required from Employer		
<b>NOTE</b>	<p>1. All makes shall further confirm to standard specifications of each items as mentioned in technical specifications of tender documents.</p> <p>2. "And equivalent" means the simillar material/ product with same technical specification approved by the competent authority of CPWD.</p>			

## LIST OF APPROVED MAKES FOR MEDICAL GAS PIPELINE SYSTEM

S.No.	Item Description	List of Makes
1.	Medical Grade Copper Pipe	SAB INDIA/HELIX INDIA/AMBA MEDI NEX / BLAZE/Mex flow / Metal Gem / Cubex / Janya/ or Equivalent
2.	Gas Outlet Points/Terminal Unit	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) / Pneumatech or Equivalent
3.	Matching Probe/adopter	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
4.	Area Valve Box	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) Wika or Equivalent
5.	Medical Gas Alarm	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) Amico or Equivalent
6.	Fully Automatic Oxygen Control System	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA), Pneumatech or Equivalent
7.	Oxygen Manifold	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
8.	Emergency Oxygen Supply System	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
9.	Oxygen Flow meter with Humidifier Bottle	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system

S.No.	Item Description	List of Makes
		/ Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
10.	Ward Vacuum Units	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / AMICO/ Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
11.	Nitrous Oxide Manifold	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Pneumatech/ Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
12.	Emergency Nitrous Oxide Supply System	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Pneumatech/ Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
13.	Duplex Medical Vacuum Plant	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Atlas Copco / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
14.	Bacterial Filter	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Johnson & Johnson / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
15.	Receiver	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
16.	Triplex Medical Air Plant	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Pneumatech / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
17.	Air Dryer	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Atlas Copco / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
18.	4Stage Air Filtration	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA)

S.No.	Item Description	List of Makes
		or Equivalent
19.	Pressure Reducing Station	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Atlas Copco / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
20.	Receiver of 3000liter	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
21.	Lockable line Medical valves	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Wika /Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
22.	Horizontal/Vertical Bed Head Panel	SAB INDIA/HELIX INDIA/AMBA MEDI NEX /Nippon Engineering Company/MDD Medical system / Tri-Tech (USA) / Reanimed (Turkey) / Allied (USA) or Equivalent
23.	Anesthesia Gas Scavenging System (AGSS) Plant (Simplex) 520lpm	SAB INDIA/HELIX INDIA/AMBA MEDI NEX / BLAZE/ RB/RN/SIM/AUDCO / MEDILINE or Equivalent

### **LIST OF APPROVED MAKES FOR NURSE CALL SYSTEM**

1.	NURSE CALL SYSTEM	ZKR / AMBA MEDI NEX / HELIX / NIPPON ENGINEERING COMPANY/ CAREWELL / RELISON OR EQUIVALENT
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### **LIST OF APPROVED MAKES FOR KITCHEN EQUIPMENTS**

1.	KITCHEN EQUIPMENTS	MPS / ADVANCE TECH HEALTH CARE/ GE PROJECTS/ VANYA INDUSTRIAL EQUIPMENT / KUBER TECHNO CRAFT / BESTEKLOZA/ NARAYAN EQUIPMENT/ THOMSON & THOMSONS OR EQUIVALENT
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### **LIST OF APPROVED MAKES FOR SIGNAGES**

1.	SIGNAGES	MR LLUMINATIOL / RG CORPORATION / PROTECTOR/ or equivalent
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### **LIST OF APPROVED MAKES FOR CUBICAL CURTAIN TRACK WITH IV HANGER, COLUMN & WALL GUARD**

1.	CUBICAL CURTAIN TRACK WITH IV HANGER, COLUMN & WALL GUARD	INPRO CORP INDIA/ AMBA MEDI NEX / ADISON EQUIPMENT COMPANY/ HITECH/ / MDD Medical System or Equivalent
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**LIST OF APPROVED MAKES FOR NON MEDICAL FURNITURES**

1.	NON MEDICAL FURNITURES	GODREJ INTERIO / SPICA/ FOCUS INFRA /MDD Medical System or Equivalent
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**LIST OF APPROVED MAKES FOR SOLID WASTE MANAGEMENT**

1.	SOLID WASTE MANAGEMENT - All Waste Collection Bins	POLYWEL/SRIKAMACHI TRADERS / RC VENTURES or Equivalent
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**SILCHAR SUPER SPECIALTY HOSPITAL**  
**SMCH - PACKAGE -1-1A**

# **Structural Drawings**



PILE NOTES: 1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED. 2. ALL PILES ARE BORED CAST-IN-SITU PILES, TO BE CONSTRUCTED AS PER IS:2911(PART-1/SEC-2) 3. GRADE OF CONCRETE SHALL BE M30 FOR PILE & PILECAP 4. ALL REINFORCEMENT BARS SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE F&500 CONFIRMING TO IS:1786-2008. 5. CLEAR COVER TO REINFORCEMENT BARS FOR PILE IS 60MM AND PILE CAP TOP IS 50mm AND PILE CAP BOTTOM IS 75mm 6. LAP JOINTS PROVIDED SHALL BE STAGGERED MANNER AND NOT MORE THAN 50% OF THE REINFORCEMENT BARS SHALL BE LAPPED AT ANY LOCATION. 7. THE TOP OF PILE SHOULD BE PROJECTED IN TO PILECAP BY 75MM 8. THE PILE WORK SHALL CONFIRM TO IS-2911 PART 1/SEC2 OF 2010 AND PART IV OF 2013. 9. ALL PILES SHALL BE BORED TRULY VERTICAL AS PER IS:2911 (PART 1,SEC-2)/2010 10. DEVELOPMENT LENGTH IN TENSION :- I) FOR PILECAP - HORIZONTAL BOTTOM REINFORCEMENT (SPANNING BOTH DIRECTIONS) IN COMPRESSION :- I) FOR COLUMN - VERTICAL REINFORCEMENT. II) FOR PILECAP - HORIZONTAL TOP REINFORCEMENT (SPANNING BOTH DIRECTIONS) III) FOR PILE - VERTICAL REINFORCEMENT 11. SUITABLE CHAIR SHOULD BE PROVIDED AS PER IS-2502 TO ENSURE PROPER COVER. 12. ALL LAITANCE AND WEAK DEFECTIVE CONCRETE IN PILE TO BE CHIPPED OFF UPTO TOP FINISHED LEVEL OF PILE (VERTICAL & LATERAL LOAD) FOR MINIMUM 2 PILES FOR EACH TEST AND ROUTINE LOAD TEST FOR 2% OF TOTAL PILES IN EACH DIAMETER PILE GROUP IN ACCORDANCE TO IS 2911-PART 4 SPECIFICATIONS. II) FOR PILE LOAD TESTS, THE TEST SET-UP SHALL BE AS PER IS 2911 PART IV AND SPECIFICATIONS FOR TESTING OF CONCRETE PILES. III) ALL TESTING SHALL BE DONE BY DIRECT METHOD OF LOADING IN SUCCESSIVE INCREMENTS AS PER THE RELEVANT CLAUSES OF IS: 2911 PART IV & STANDARD SPECIFICATIONS FOR TESTING CONCRETE PILES FORMING A PART OF THIS CONTRACT WORK. A FULL RECORD OF PILE LOAD TEST RESULTS SHALL BE SUBMITTED IN TRIPPLICATE TO THE ENGINEER-IN-CHARGE IMMEDIATELY ON COMPLETION OF EACH TEST. THE RECORD SHALL ALSO INCLUDE THE PLOTS OF LOAD-SETTLEMENT (FOR VARIOUS STAGES OF LOADS) CHARACTERISTICS OF PILE AND ALSO THE INTERPRETATION OF THE PILE LOAD TEST CURVE AS PER CRITERIA FOR SAFE LOADS MENTIONED IN THE SPECIFICATIONS FOR TESTING CONCRETE PILES FORMING A PART OF THIS CONTRACTOR. ANY SPECIAL OBSERVATIONS SHALL BE DULY EXPLAINED BY THE CONTRACTOR. 15. ENGINEER-IN-CHARGE APPROVAL FOR SOURCE & SAMPLE OF WATER, COARSE AGGREGATES, SAND, CEMENT AND REINFORCEMENT STEEL ETC.

PILE LOAD TEST SPECIFICATIONS :- 1. THE PILING OPERATIONS SHALL BE CARRIED OUT STRICTLY IN LINE WITH IS: 2911 (PART I /SEC.2)& (PART - 4). 2. THE MINIMUM CLEAR DISTANCE BETWEEN THE TWO ADJACENT MAIN REINFORCEMENT BARS SHOULD NORMALLY BE 100 MM FOR THE FULL DEPTH OF CAGE. THE BARS SHALL BE SO PLACED AS NOT TO IMPEDE THE PLACING OF CONCRETE. 3. THE LATERAL TIES IN THE REINFORCING CAGE SHALL BE FOLLOWED AS PER THE DRAWING. 4. THE PILES SHALL BE INSTALLED AS ACCURATELY AS POSSIBLE AS PER THE DESIGNS AND DRAWINGS. THE PERMISSIBLE POSITIONAL DEVIATIONS SHALL BE GOVERNED BY IS: 2911 (PART I / SEC.2). 5. WHEN CONCRETING UNDER WATER OR DRILLING MUD 10% ADDITIONAL CEMENT OVER THE MINIMUM CEMENT CONTENT FOR THE PARTICULAR GRADE SHALL BE USED. 6. PROPERTIES OF BENTONITE/ POLYMER USED AND QUALITY CONTROL SHALL BE AS PER IS: 2911 (PART I / SEC.2). 7. CONCRETING SHALL NOT BE COMMENCED UNTIL THE ENGINEER-IN-CHARGE SATISFIES HIMSELF THAT, AT FINAL BOREHOLE DEPTH THE SOIL IS NOT WEAKER WHICH IS TAKEN AS THE BASIS FOR PILE DESIGN. IF NECESSARY, SPT OR SIMILAR TEST SHALL BE CONDUCTED TO ENSURE THE ABOVE. 8. BOREHOLE BOTTOM SHALL BE THOROUGHLY CLEANED TO MAKE IT FREE FROM SLUDGE OR ANY FOREIGN MATTER BEFORE LOWERING THE REINFORCEMENT CAGE. THE FULL LENGTH OF REINFORCEMENT CAGE SHALL BE IN POSITION BEFORE START OF CONCRETING. 9. CONCRETING SHALL BE DONE BY TREMIE METHOD. THE OPERATION OF TREMIE CONCRETING SHALL BE GOVERNED BY IS: 2911 (PART I / SEC.2). 10. CARE SHALL BE EXERCISED TO PRESERVE CORRECT COVER AND ALIGNMENT OF REINFORCEMENT AND AVOID ANY DAMAGE TO IT THROUGHOUT THE COMPLETE OPERATION OF PLACING THE CONCRETE. 11. DEFECTIVE PILES SHALL BE REMOVED OR LEFT IN PLACE, AS JUDGED CONVENIENT THE ENGINEER-IN-CHARGE, WITHOUT AFFECTING THE PERFORMANCE OF ADJACENT PILES OF CAPPING ABOVE AND ADDITIONAL THE PERFORMANCE OF ADJACENT PILES OF CAPPING ABOVE AND ADDITIONAL PILES SHALL BE PROVIDED TO REPLACE THEM WITH HIS OWN COST. 12. A COMPETENT SUPERVISOR OF THE CONTRACTOR SHALL BE PRESENT TO RECORDED THE NECESSARY INFORMATION DURING THE INSTALLATION OF PILES.

DEVELOPMENT LENGTH DETAILS table with columns for GRADE OF CONCRETE M30, GRADE OF STEEL F&500, COMPRESSION, and TENSION with values for bars #8 to #32.

BEAM TOP BAR CURTAILMENT LENGTH DETAIL table with columns for SPAN and EXTRA BAR (CURTAILMENT LENGTH) for different span ranges.

PILE DATA TO BE RECORDED SHALL INCLUDE: A) THE DIMENSIONS OF THE PILES, INCLUDING THE REINFORCEMENT DETAIL AND THE MARK OF THE PILE. B) THE BORING METHOD EMPLOYED. C) THE TYPE OF SOIL IN WHICH PILE IS TERMINATED. D) THE DEPTH BORED. E) THE DEPTH OF WATER TABLE. F) WHEN DRILLING MUD IS USED, THE SPECIFIC GRAVITY OF THE FRESH SUPPLY AND CONTAMINATED MUD IN THE BOREHOLE BEFORE CONCRETING IS TAKEN UP. IN CASE OF FIRST FEW PILES AND SUBSEQUENTLY AT SUITABLE INTERVAL OF PILES. G) THE TIME TAKEN FOR CONCRETING. H) THE CUT-OFF LEVEL/WORKING LEVEL, AND I) THE CONSUMPTION OF CEMENT, CONCRETE & BENTONITE. J) ANY OTHER IMPORTANT OBSERVATIONS 13. CONTRACTOR SHALL CARRY OUT DESIGN MIX AT ENGINEER-IN-CHARGE APPROVED LABORATORY FOR PILES AND PILE CAP, SEPARATELY. FORMULATE THE RECIPE, TEST THE INGREDIENTS, CARRY OUT TRIAL MIX & TEST THE CUBES AND CONFIRM THE DESIGN REQUIREMENTS. FOR THIS PURPOSE 1-DAY/3-DAY AND 7-DAY ACCELERATED STRENGTH RESULTS MAY ALSO BE OBTAINED. HOWEVER IT SHALL BE THE SOLE RESPONSIBILITY RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE 28-DAY RESULTS ARE SATISFACTORY. IN CASE OF FAILURE/INADEQUACY OF 28-DAY TEST RESULTS, DISMANTLING/ABANDONMENT OF THE PILES/PILE CAP OR ANY OTHER RCC WORK SHALL BE CARRIED OUT BY THE CONTRACTOR AT NO EXTRA COST TO ENGINEER-IN-CHARGE. 14. PILE LOAD TEST DETAILS I) THE CONTRACTOR SHOULD CARRYOUT INITIAL LOAD TEST (VERTICAL & LATERAL LOAD) FOR MINIMUM 2 PILES FOR EACH TEST AND ROUTINE LOAD TEST FOR 2% OF TOTAL PILES IN EACH DIAMETER PILE GROUP IN ACCORDANCE TO IS 2911-PART 4 SPECIFICATIONS. II) FOR PILE LOAD TESTS, THE TEST SET-UP SHALL BE AS PER IS 2911 PART IV AND SPECIFICATIONS FOR TESTING OF CONCRETE PILES. III) ALL TESTING SHALL BE DONE BY DIRECT METHOD OF LOADING IN SUCCESSIVE INCREMENTS AS PER THE RELEVANT CLAUSES OF IS: 2911 PART IV & STANDARD SPECIFICATIONS FOR TESTING CONCRETE PILES FORMING A PART OF THIS CONTRACT WORK. A FULL RECORD OF PILE LOAD TEST RESULTS SHALL BE SUBMITTED IN TRIPPLICATE TO THE ENGINEER-IN-CHARGE IMMEDIATELY ON COMPLETION OF EACH TEST. THE RECORD SHALL ALSO INCLUDE THE PLOTS OF LOAD-SETTLEMENT (FOR VARIOUS STAGES OF LOADS) CHARACTERISTICS OF PILE AND ALSO THE INTERPRETATION OF THE PILE LOAD TEST CURVE AS PER CRITERIA FOR SAFE LOADS MENTIONED IN THE SPECIFICATIONS FOR TESTING CONCRETE PILES FORMING A PART OF THIS CONTRACTOR. ANY SPECIAL OBSERVATIONS SHALL BE DULY EXPLAINED BY THE CONTRACTOR. 15. ENGINEER-IN-CHARGE APPROVAL FOR SOURCE & SAMPLE OF WATER, COARSE AGGREGATES, SAND, CEMENT AND REINFORCEMENT STEEL ETC.

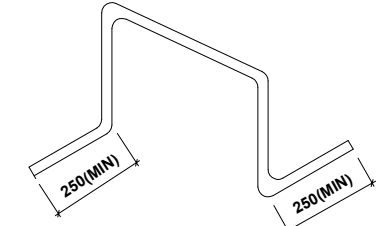
GENERAL NOTES FOR BEAM & SLAB -1 :- 1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED. 2. GRADE OF CONCRETE MIX SHALL BE M30 FOR BEAM & SLAB AND M40 FOR COLUMN AND SHEAR WALL CONFIRMING TO IS 456-2000 3. REINFORCEMENT BARS SHALL BE HIGH STRENGTH DEFORMED BARS OF GRADE F&500 CONFIRMED TO IS 1786-2008 & 13920-2016 4. CLEAR COVER FOR PILE - 60 MM PILE CAP BOTTOM - 75 MM PILE CAP TOP - 50 MM COLUMN - 40 MM SHEAR WALL - 40 MM RETAINING WALL - 40 MM R.C.C WALL - 40MM FOUNDATION BEAM - 40 MM BEAM - 25 MM SLAB - 20 MM 5. LAP JOINTS SHALL BE PROVIDED IN STAGGERED MANNER AND NOT MORE THAN 50% OF THE REINFORCEMENT BARS SHALL BE LAPPED AT ANY LOCATION 6. THIS DRAWING SHALL READ IN CONJUNCTION WITH ARCHITECTURAL DRAWING. 7. ALL STRUCTURAL ELEMENTS ARE LOCATED FROM GRID ONLY. 8. SPACER BAR OF T12-750 C/C SHALL BE PROVIDED IN THE REQUIRED LOCATION 9. LAPPING OF TOP BAR SHALL BE PROVIDED WITH IN MIDDLE SPAN (1/3 OF 'L', WHERE 'L' IS THE DISTANCE BETWEEN COLUMNS/ WALLS.) 10. LAPPING OF BOTTOM BAR SHALL BE PROVIDED AWAY FROM MIDDLE SPAN. 11. NO DIMENSIONS SHALL BE SCALED OFF FROM THE DRAWING ONLY WRITTEN DIMENSION SHALL BE FOLLOWED. 12. ANY DISCREPANCY BETWEEN THIS DRAWING AND OTHER DRAWING MUST BE BROUGHT TO THE NOTICE OF CONSULTANT 13. THE SPACING OF STIRRUPS IN LAP PORTION SHOULD NOT EXCEED 150mm. 14. BARS OF DIFFERENT DIAMETERS - WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF THE LARGEST BAR AS PER - IS 13920 - 2016 15. BUILDING DESIGNED FOR SEISMIC ZONE - V 16. LAP LENGTH/DEVELOPMENT LENGTH SHALL BE AS FOLLOWS: 49 x BAR DIA FOR M25; 45 x BAR DIA FOR M30; 40 x BAR DIA FOR M35; 36 x BAR DIA FOR M40 & ABOVE.

IMPORTANT NOTES : THE RCC GRADE IN BEAMS AT THE JUNCTION WITH THE COLUMN/ SHEAR WALL SHALL MATCH THE RCC GRADE BEING USED FOR THE BEAMS. IF THE GRADE FOR THE COLUMN/ SHEAR WALL IS HIGHER, THE HIGHER GRADE SHOULD BE USED AT THE BEAM - COLUMN/SHEAR WALL JUNCTION. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH THIS REQUIREMENTS.

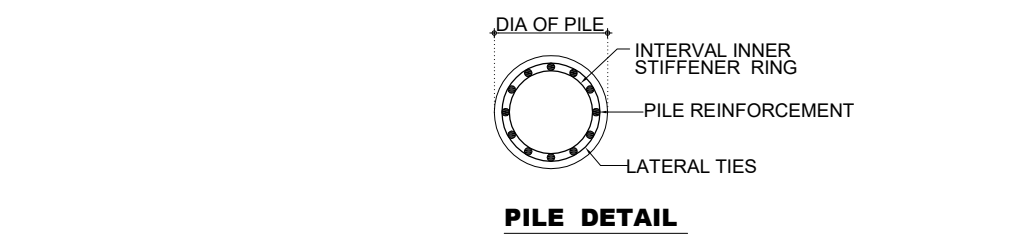
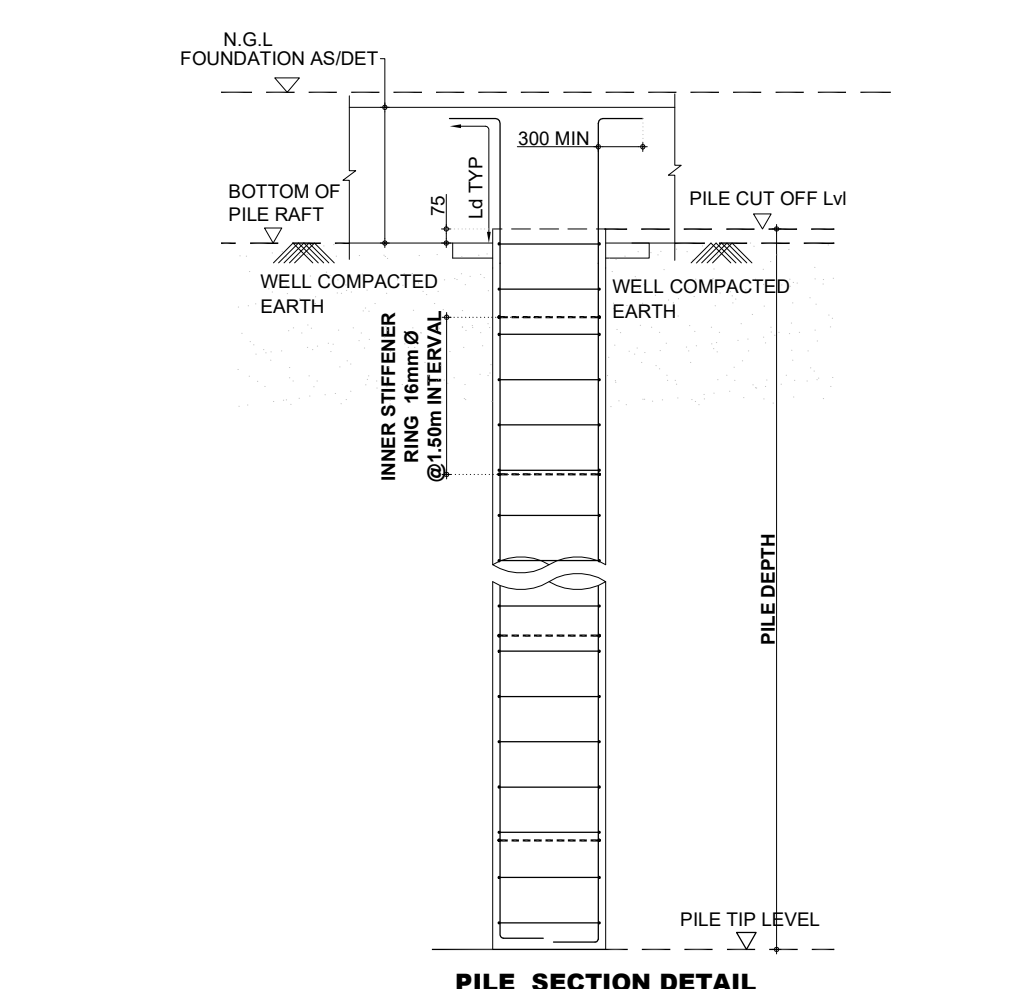
LAYING OF STONE SAND BLANKET OF 0.50M THICKNESS THE STONE SAND BLANKET SHALL BE LAID BELOW THE RAFT FOUNDATION FOR MINIMUM THICKNESS OF 500MM WILL BE COMPACTED TO A RELATIVE DRY DENSITY OF 85 PERCENT. COMPACTION SHALL BE CARRIED OUT WITH ROLLERS OR BY ANY OTHER SUITABLE MECHANICAL EQUIPMENT. STONE / SAND SHALL BE LAID IN LAYERS OF 150MM AND COMPACTED TO ACHIEVE DESIRED COMPACTION. THE STONE SAND BLANKET SHALL BE CONSTRUCTED WITH MIXTURE OF 75 MM AND DOWN STONE AGGREGATES AND WELL GRADED MEDIUM TO COARSE SAND OF FINENESS MODULUS NOT LESS THAN 2.2 MIXED IN THE RATIO OF 2:1 (2 STONE AGGREGATES : 1 SAND )

CONSTRUCTION JOINTS AND SHRINKAGE STRIPS:- 1. ALL CONSTRUCTION JOINTS- THEIR POSITION AND DETAILED ARRANGEMENT SHALL BE APPROVED BY THE CONSULTANT BEFORE CONCRETING. 2. ALL VERTICAL CONSTRUCTION JOINTS SHALL BE FORMED WITH A VERTICAL STOPPING BOARD AGAINST WHICH PROPER VIBRATING IS POSSIBLE. 3. PROPER KEYS SHALL BE PROVIDED FOR CONSTRUCTION JOINTS. 4. BEFORE RESUMING WORK AT ANY CONSTRUCTION JOINTS ALL LAITANCE SHALL BE REMOVED THOROUGHLY. 5. WHEN WORK HAS TO BE RESUMED ON HARDENED SURFACE, THE SAME SHALL BE HACKED, CLEANED, WETTED AND TREATED AS/SPECIFICATION. 6. MAXIMUM DIMENSION OF A RECTANGULAR EARTH/WATER RETAINING WALL PANEL CAST ON ONE POUR SHALL NOT EXCEED 15m. THE MINIMUM TIME BETWEEN ADJACENT POURS SHALL NOT BE LESS THAN 48 HOURS. 7. NOZZLES FOR GROUTING SHALL BE PLACED AT ALL CONSTRUCTION JOINTS IN RAFT, RETAINING WALLS, JOINTS BETWEEN TWO VERTICAL WALLS, JOINTS BETWEEN RAFT AND WALL ETC. AND ALL SUCH NOZZLES SHALL BE GROUTED TO MAKE THE CONSTRUCTION JOINTS WATER TIGHT. 8. NITOBOND EP OR EQUIVALENT COATING AS PER APPROVED BY ENGINEER IN CHARGE SHALL BE APPLIED AT ALL CONSTRUCTION JOINTS AS PER GOOD INDUSTRY PRACTICES. 9. EXPANSION JOINT SHALL BE PROVIDED AS PER DRAWING WITH PROPER TREATMENT

NOTES FOR CHAIRS ROD IN RAFT :- 1. TOP REINFORCEMENT IN RAFT SLAB SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) MAXIMUM SPACING OF SPACERS OR CHAIRS @ 1000mm C/C IN ANY DIRECTION. (SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.) 2. MINIMUM DIAMETER OF CHAIRS FOR RAFT 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



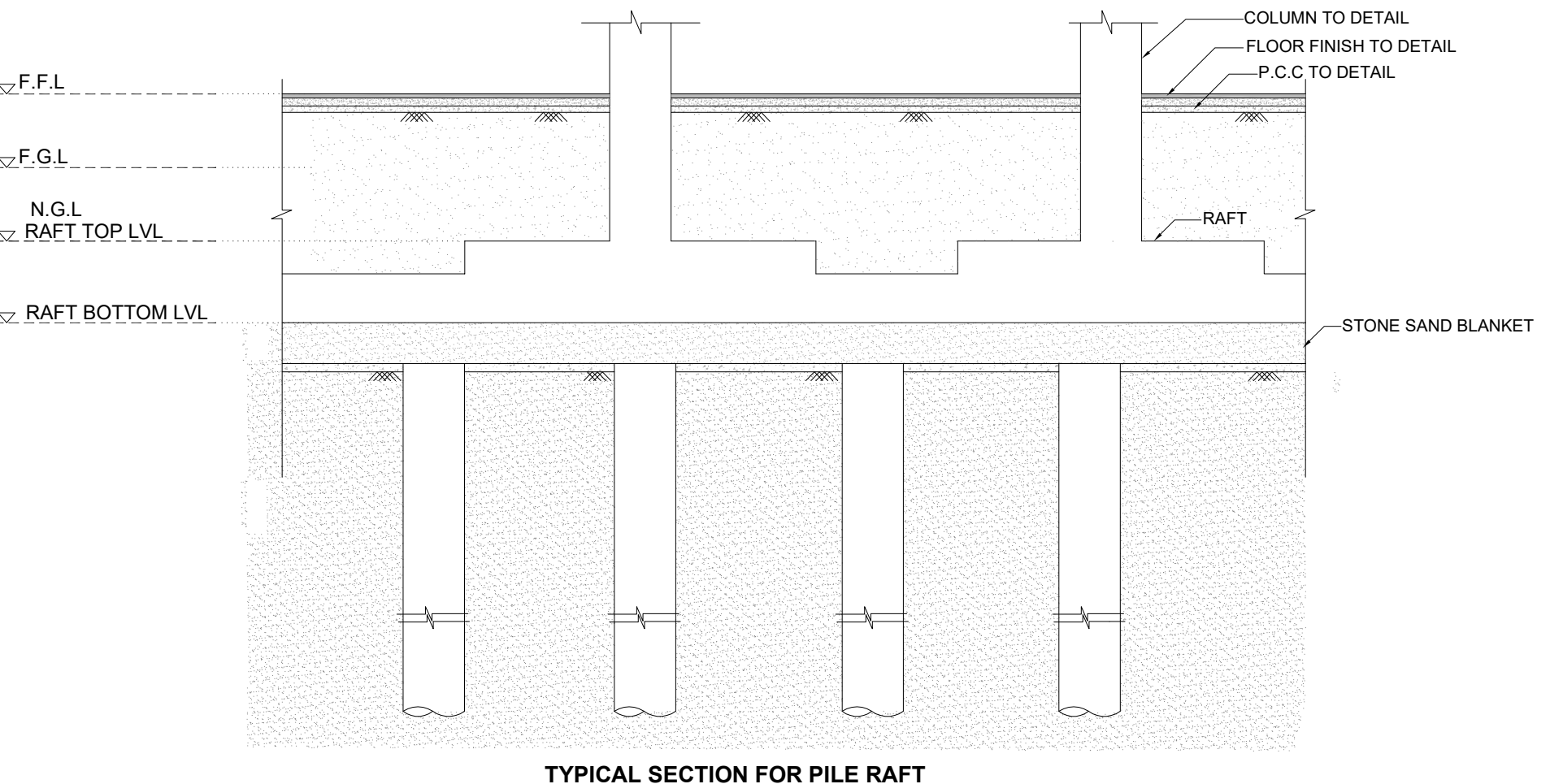
GENERAL NOTES FOR BEAM & SLABS-2 :- 1. SLAB OUTLINES, PROJECTIONS, CUT-OUTS SHOWN ARE INDICATIVE. FOLLOW ARCHT & SERVICES DRG FOR CUT-OUT/INSERTS/POCKETS SIZES. LOCATION & SPECIFICATIONS IF ANY. 2. ONLY PIPES/SLEEVES<75MM CAN PASS THROUGH BEAMS. 3. IN BEAM ELEVATIONS ONLY SUPPORTS & REINF IS SHOWN. CONNECTING/SECONDARY BEAMS ARE EITHER NOT SHOWN OR SHOWN INDICATIVE. 4. SLAB LOCATION IN BEAM SEC SHOWN IS INDICATIVE. REF PLAN/ARCHT DRG FOR SAME. 5. FOR CONTINUOUS BEAMS PROVIDE HIGHER BEAM REINF IN CASE OF MISMATCH AT CONTINUITY & AT CONTINUOUS END DO NOT BEND BARS IN COLUMN, RATHER TAKE MINM 45xBAR DIA INSIDE CONTINUOUS BEAM. 6. DURING FORMWORK & CASTING, BEAMS & SLABS > 6M NEED TO BE SUPPORTED AT 2 LEVELS 7. LENGTH OF EXTRA TOP BARS IN BEAMS BEYOND PROJECTION SHALL BE AS IN BEAM ELEVATION, SUBJECT TO MINM BEYOND COLUMN/SUPPORTING. 8. LAYERS OF BARS SHALL BE SEPARATED BY SPACER BARS SUCH THAT SPACER BARS SHALL BE PLACED NOT MORE THAN 1 M APART AND DIAMETER OF SPACER BAR SHALL BE MINIMUM 20 MM. OR DIA OF MAIN BAR WHICHEVER IS MORE. 9. FOR BEAMS AVOID LAP OF TOP BARS AT SUPPORT & BOTTOM BARS AT SPAN MIDDLE.



SHUTTERING/ FORM WORK (NOT APPLICABLE TO PT-SLABS/BEAMS) 1. SHALL BE DESIGNED AND CONSTRUCTED SO AS TO REMAIN SUFFICIENTLY RIGID DURING PLACING AND COMPACTION OF CONCRETE. BEAMS & SLAB > 6M NEED TO BE SUPPORTED AT 2 LEVELS 2. FORMWORK SHALL BE SUCH AS TO PREVENT LOSS OF SLURRY FROM THE CONCRETE. 3. SHUTTERING SHALL BE OF FRAMED PHENOL-FORMALDEHYDE RESIN BONDED PLYWOOD PANELS OR METAL PANELS OR EQUIVALENT TO PRODUCE SURFACE IN ONE PLANE, FREE FROM LIPS, FINIS ETC. 4. THE INTERIOR SURFACE OF THE SHUTTERING SHALL BE COATED WITH APPROVED MOULD OIL AND USE SHALL BE SUCH THAT IT WILL NOT CAUSE STAINS TO APPEAR ON THE CONCRETE. 5. CONTRACTOR SHALL ENSURE SHAPES, LINES AND DIMENSION TOLERANCES AS PER DESIGN DRAWINGS. 6. FORM WORK SHALL BE SUPPORTED BY STRONG AND PROPERLY BRACED SCAFFOLDING BOTHWAYS VERTICALLY AND HORIZONTALLY ENSURING UNYIELDING STRONG WOODEN OR STEEL BASE PLATES.

Table with columns A, B, C, D, E and corresponding durations: 24 HOURS, 3 DAYS, 7 DAYS, 7 DAYS 14 DAYS, 14 DAYS 21 DAYS.

7. STRIPPING TIME OF FORMS SHALL BE APPROPRIATE TO THE STRENGTH GAIN AS RECOMMENDED IN IS: 456-2000 COMPLYING AMBIENT TEMPERATURE CONDITION OF 15 DEGREE CELSIUS. 8. IN NORMAL CIRCUMSTANCES AFTER ADEQUATE CURING IS DONE FORMS MAY GENERALLY BE REMOVED AFTER THE EXPIRY OF THE FOLLOWING MINIMUM PERIOD. 9. THE SHUTTERING SUPPORTING THE OVERHANGS (CHAJJAS,CANOPY ETC) SHALL NOT BE REMOVED UNTIL SUFFICIENT BALANCING LOAD OVER THE BEARING HAS BEEN ATTAINED BY BUILDING MASONRY OR OTHERWISE. 10. THE SHUTTERING OF CANTILEVER BEAMS & SLABS SHALL BE REMOVED STARTING FROM OVERHANGING EDGE. 11. IT IS REQUIRED TO SUBMIT SHUTTERING DESGIN FOR VARYING FLOOR FOR APPROVAL TO STRUCTURAL CONSULTANT. 12. UNLESS OTHERWISE SPECIFIED ON DRAWINGS, ALL FORMWORK SHALL BE PROVIDED WITH UPWARD CAMBER TO COMPENSATE FOR ANTICIPATED DEFLECTIONS. IT IS RESPONSIBILITY OF CONTRACTOR TO PROVIDE CAMBER IN LARGE SPAN SLAB AND BEAMS AS PER CODAL RECOMMENDATION OR GUIDE LINES GIVEN IN CPWD SPECIFICATIONS. AS GENERAL GUIDELINES, PROVIDE CAMBER BEAM AND SLAB OR FOLLOW STRUCTURAL DRAWING FOR ANY SPECIFIC REQUIREMENTS. 13. FLOOR SLAB SYSTEM ARE DESIGNED FOR LIVE LOAD (AS MENTIONED IN IS CODE), FLOORING LOAD, WALL LOAD AND ACTUAL SELF WEIGHT OF SLAB. CASTING LOAD OF ABOVE LEVEL FLOOR SLAB AND SHUTTERING NOT CONSIDERED IN LOWER FLOOR SLAB (UNLESS SPECIFIED IN DESIGN DRAWINGS). IT IS CONTRACTOR RESPONSIBILITY TO CALCULATE CASTING LOAD FROM TOP AND CHECK FEASIBILITY OF SUPPORTING ON LOWER FLOOR AND SAME SHALL BE DULY APPROVED BY STRUCTURAL CONSULTANT.



LEGEND:- table with TYP, TYPICAL, MAX, MIN, C/C, B/F, B/W, T & B, LVL, @, R/F, RINGS, THK, UNO W.R.T, PCC, M, and various symbols for brick/block work, stone work, detail 'A', slab identification number, spacing, diameter of bar, sleeve in beam, indicates curtailment of bar, indicates top bars, indicates bottom bars, hatch in plan, and diameter.

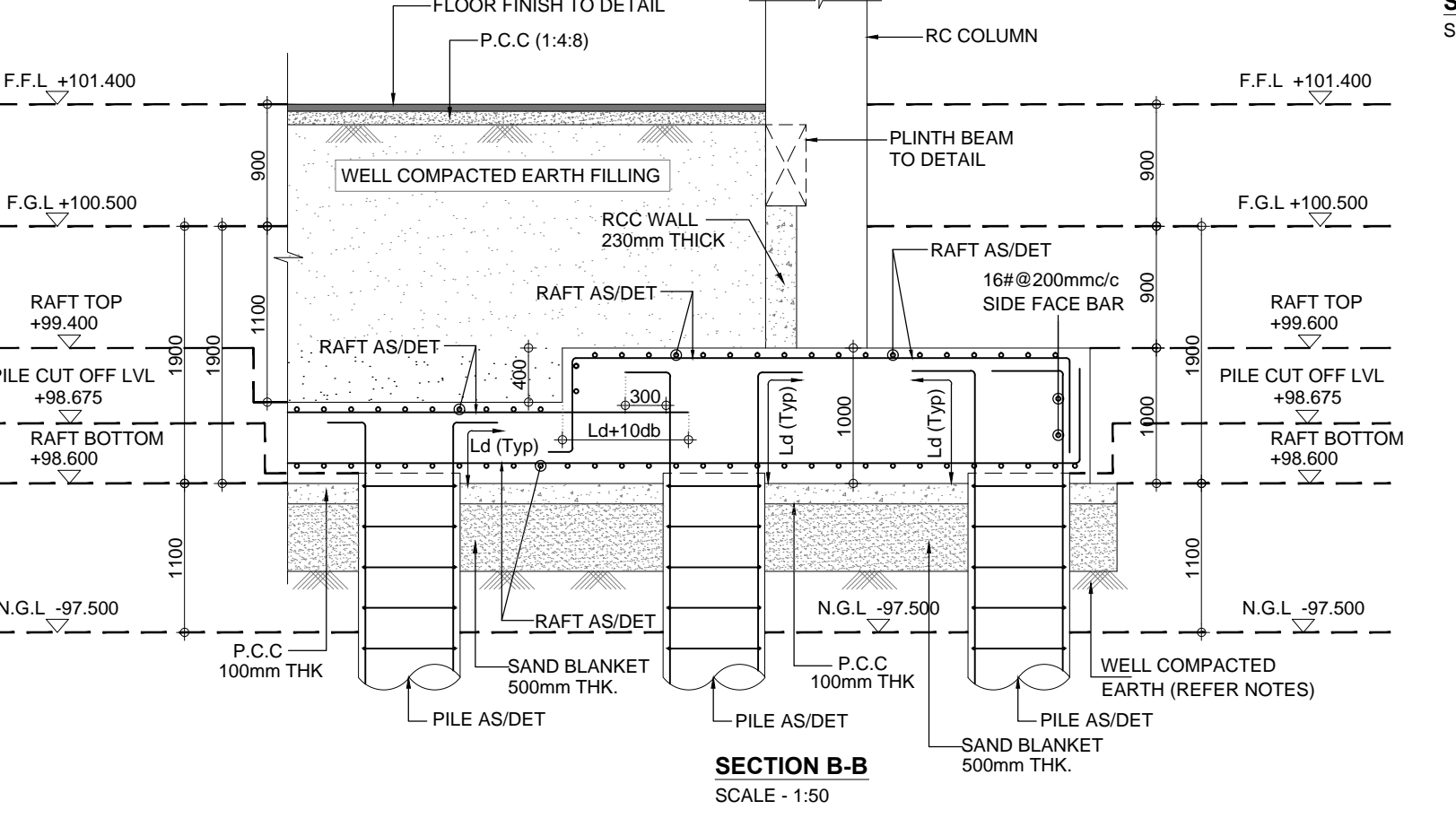
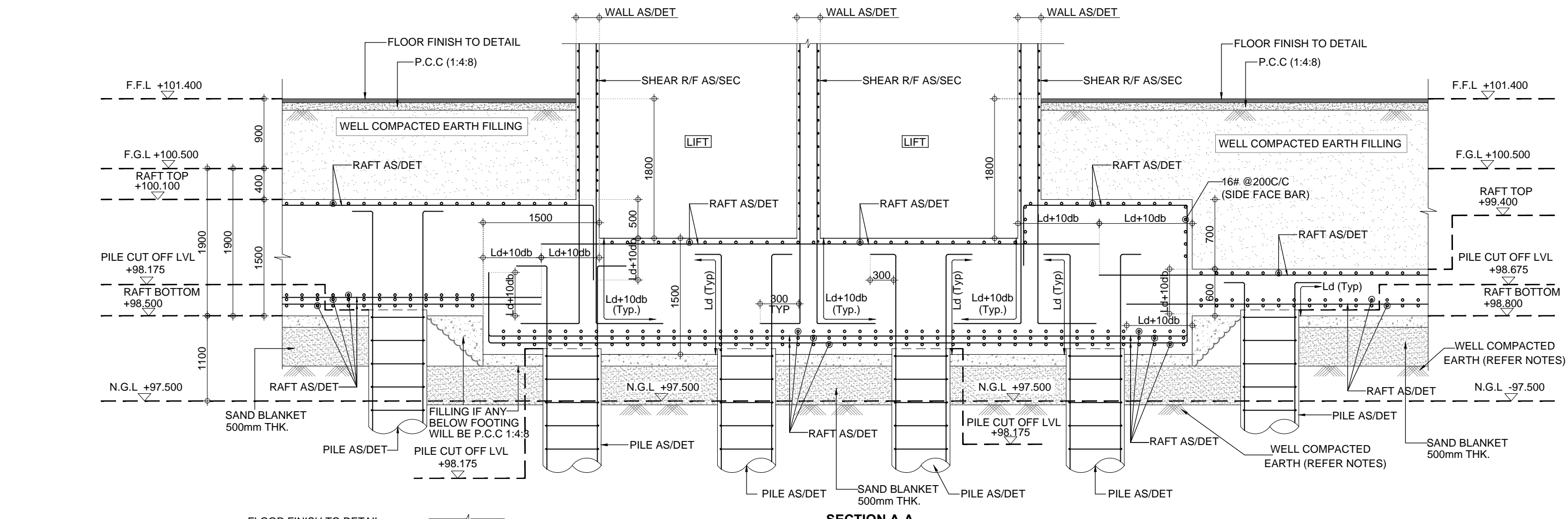
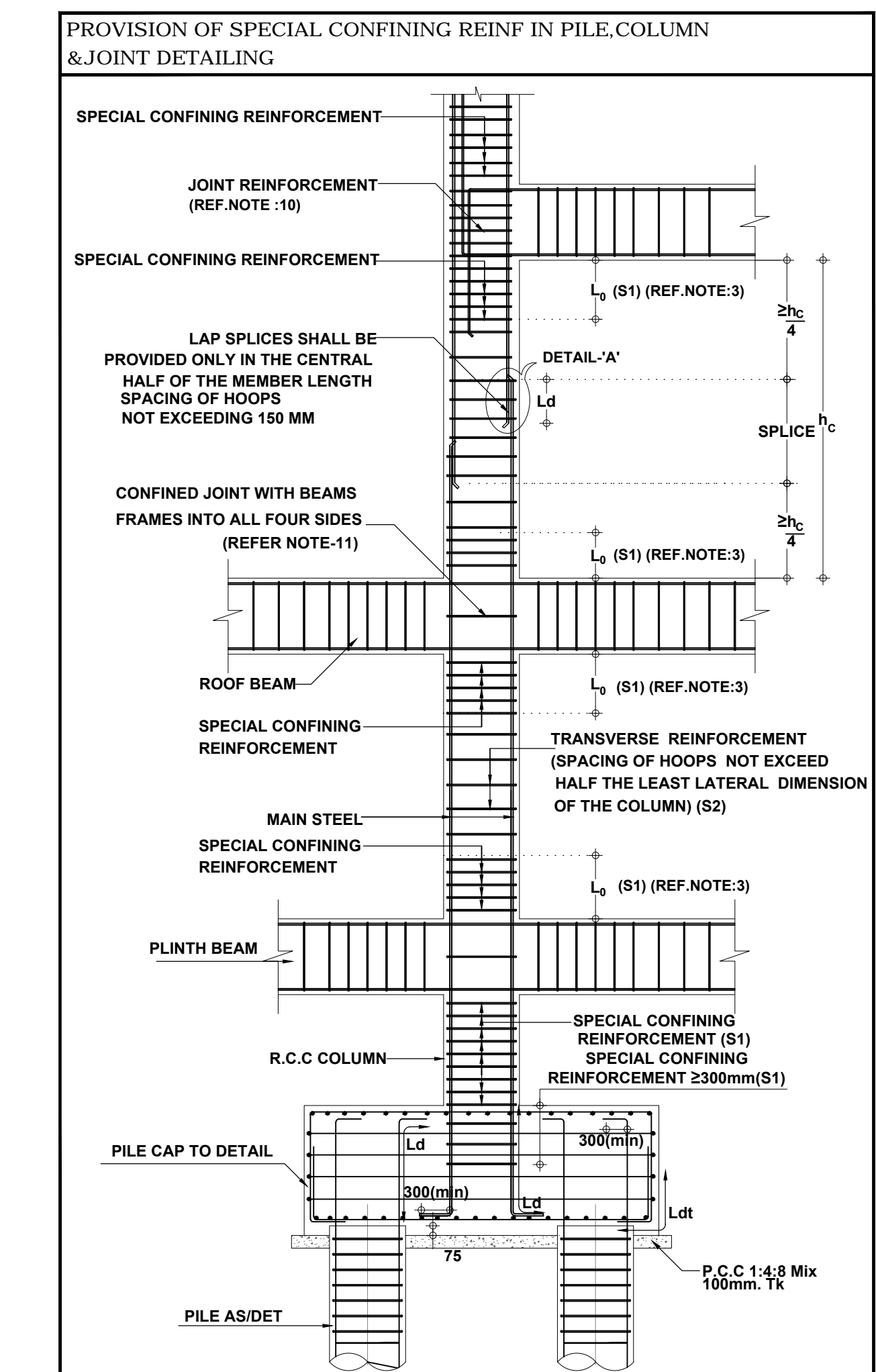
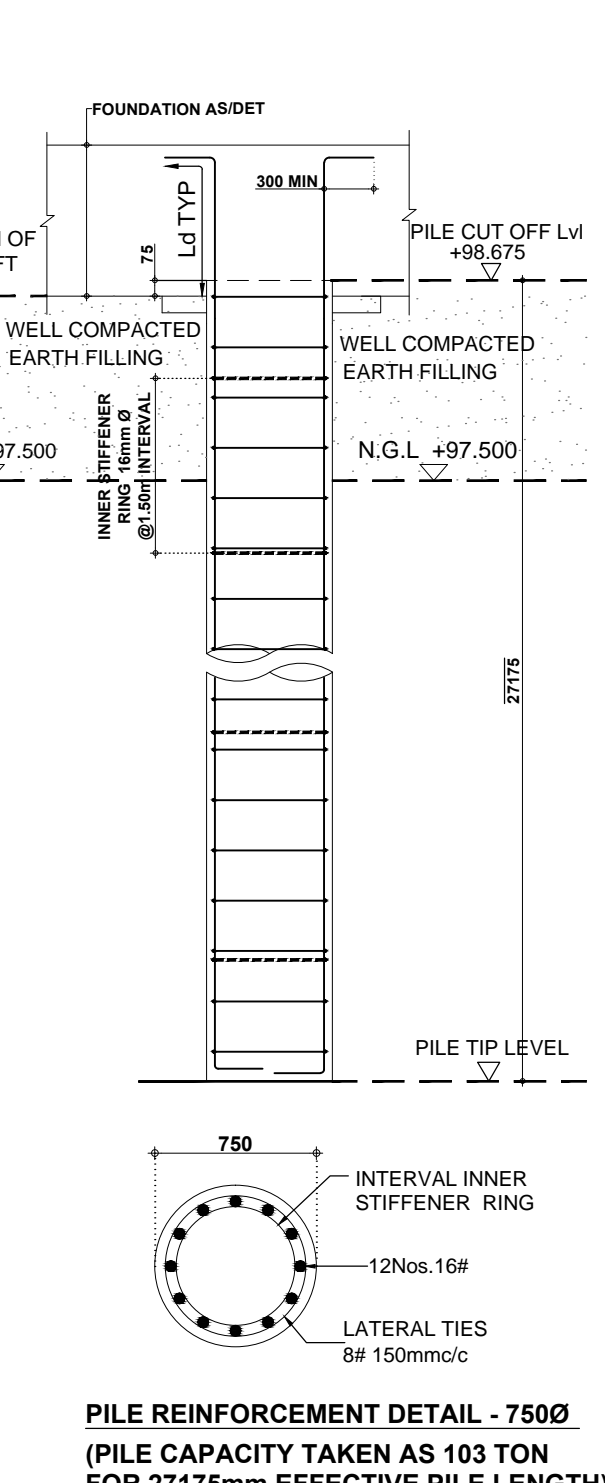
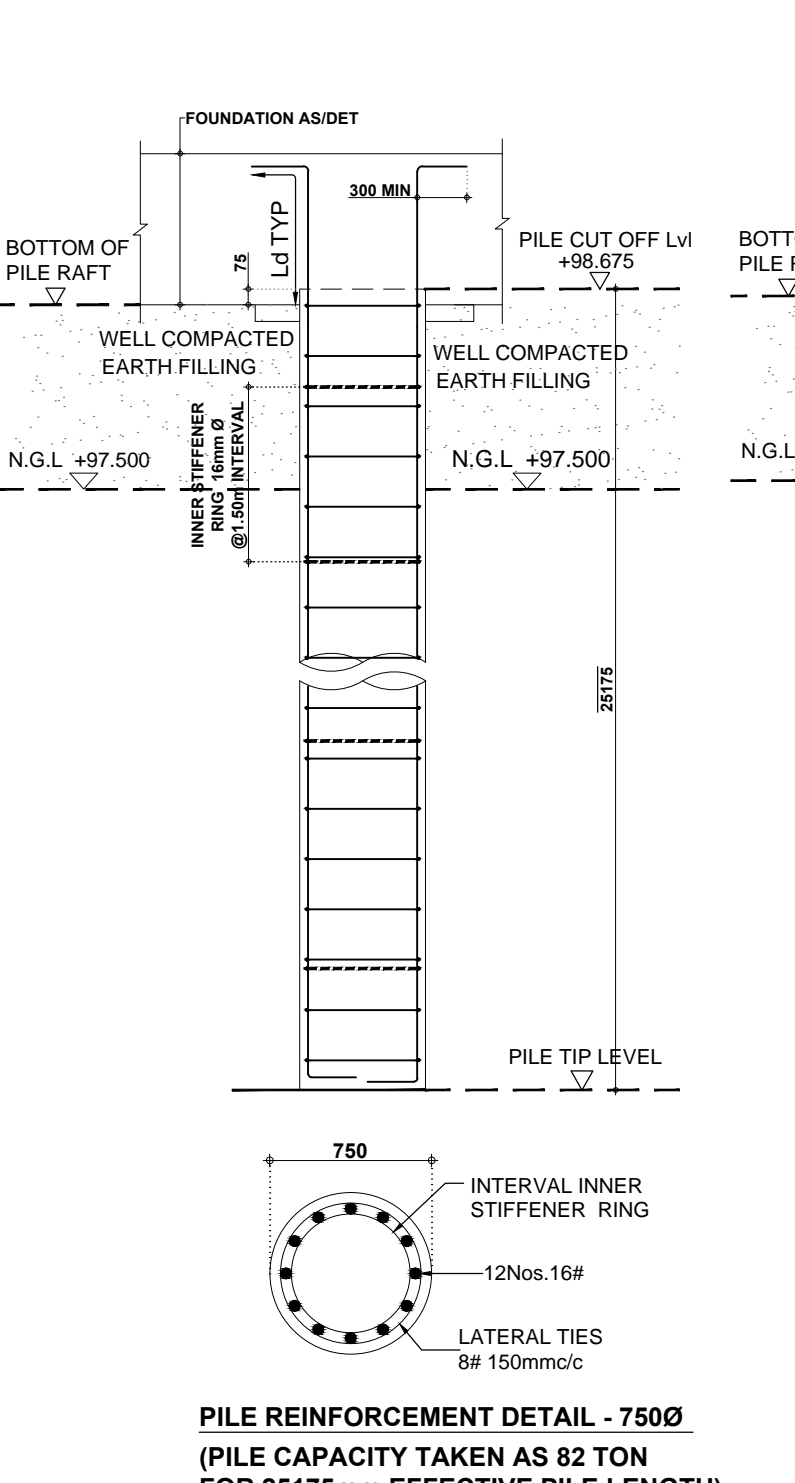
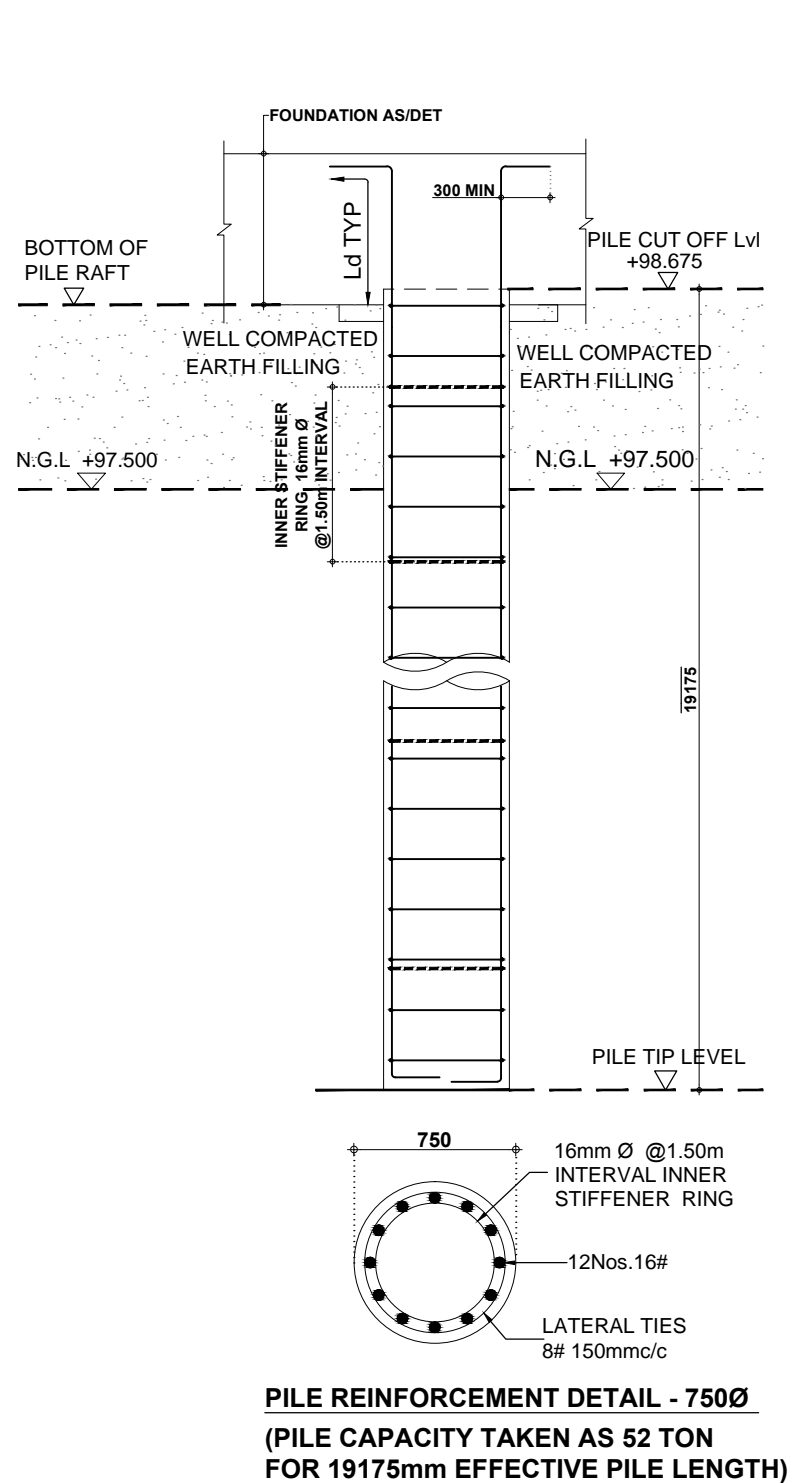
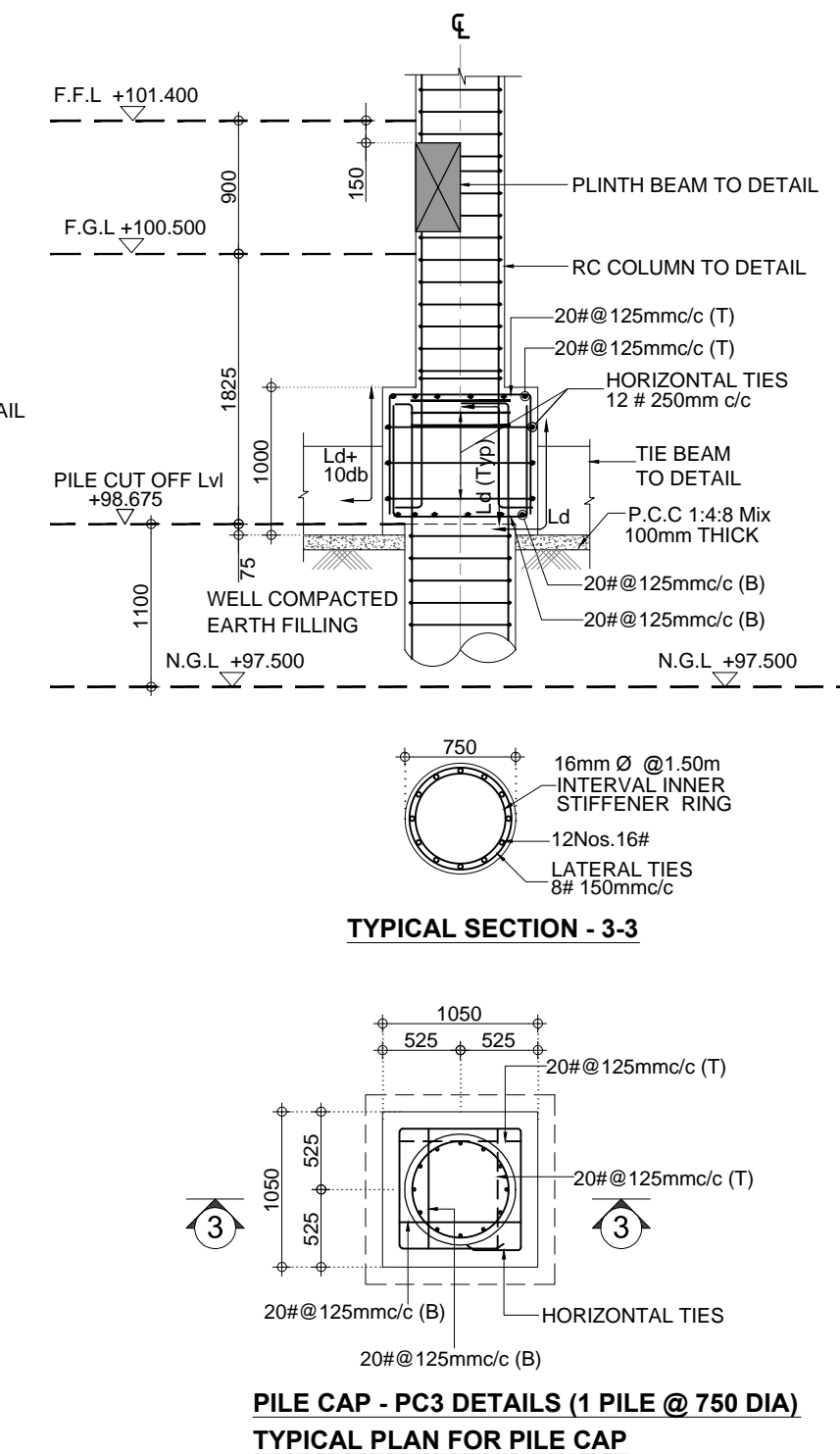
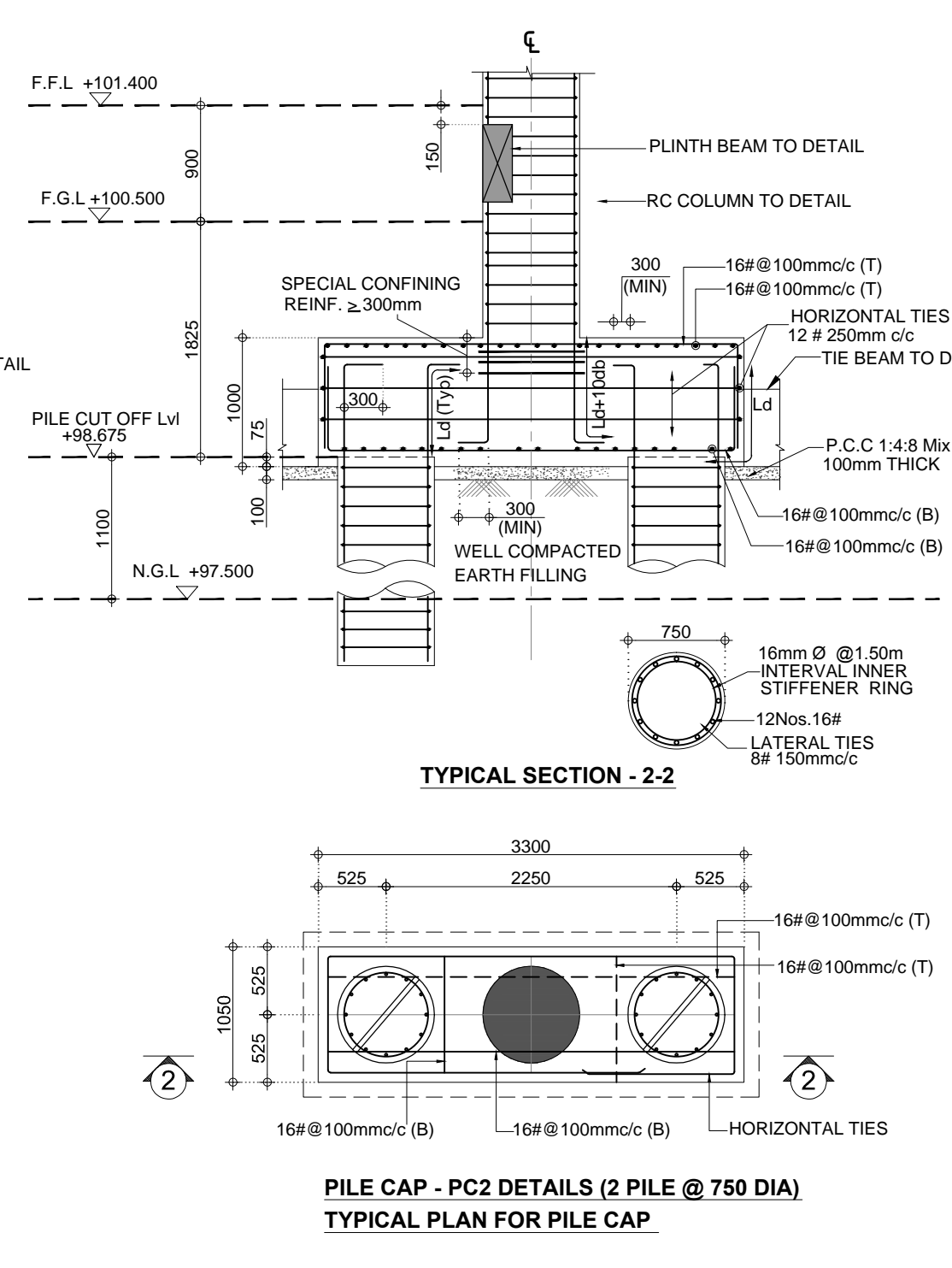
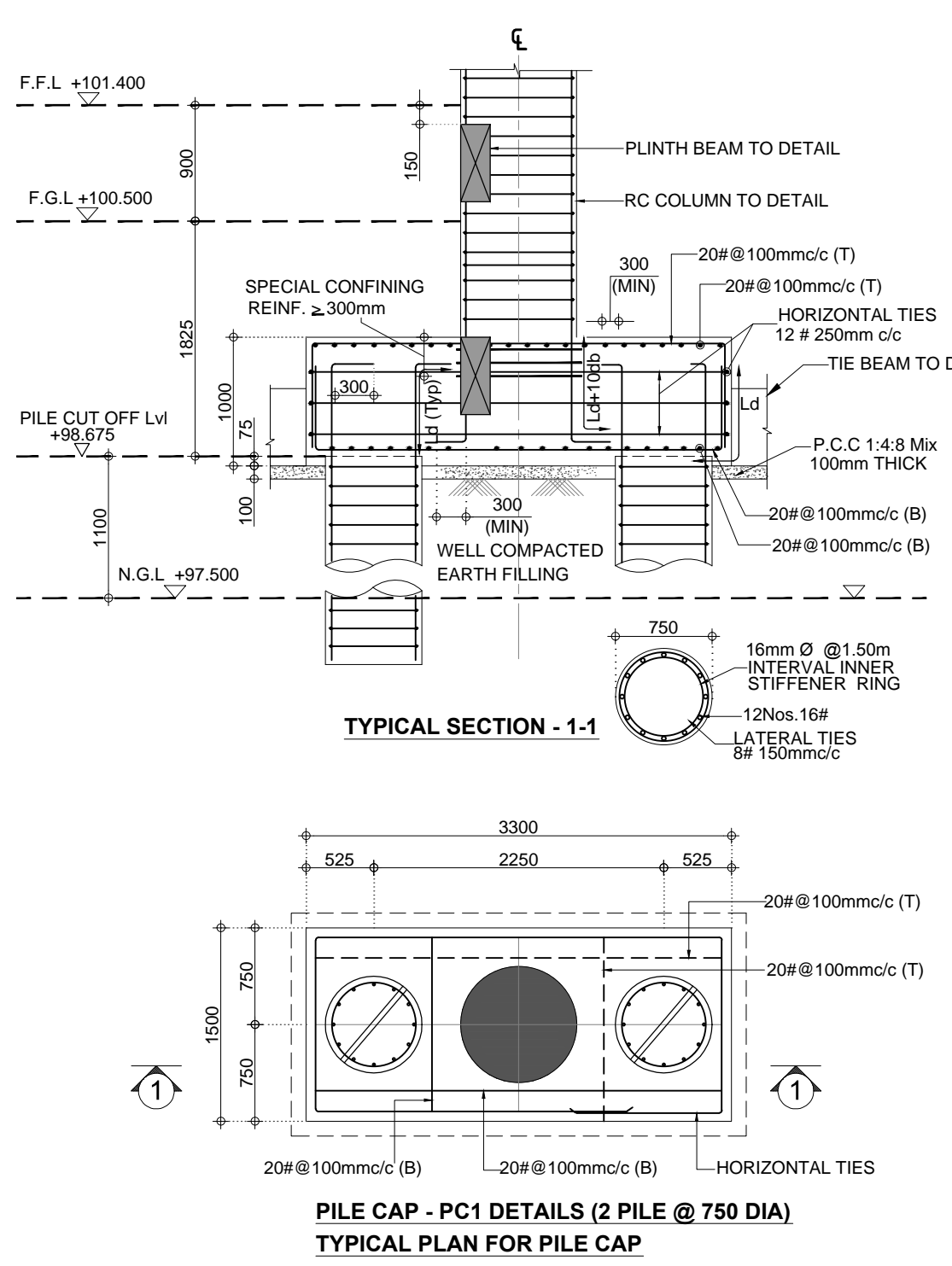
Rev. Date Description Drawn Chkd. Appd. PROJECT MANAGEMENT UNIT: ASSAM HEALTH INFRASTRUCTURE DEVELOPMENT & MANAGEMENT SOCIETY PROJECT MANAGEMENT CONSULTANTS: RITES LTD.- MUKESH & ASSOCIATES - (JV) Project Management Consultant (Facility & Equipment) - Assam Health System Strengthening Project. Loan No : ID-P302 (JICA) PROJECT: SUPERSPECIALTY WING AT 6 MEDICAL COLLEGES VIZ SILCHAR, DIPHU, LAKHIMPUR, TEZPUR, JORHAT & FAAMCH BARBETA; INFRASTRUCTURE IMPROVEMENT IN 6 DISTRICT HOSPITALS VIZ SILCHAR UDALGURI,HOJAI,HAILAKANDI, DARRANG AND DIMA HASAO AND DEDICATED TRAINING, MONITORING,ADMINISTRATIVE CENTRE,SWASTHYA BHAWAN AT GUWAHATI UNDER ASSAM HEALTH SYSTEM STRENGTHENING PROJECTS FUNDED BY JICA PROJECT LOCATION : SILCHAR SUPER SPECIALTY HOSPITAL, SMCH PACKAGE -1-1A DRAWING TITLE: STANDRAD DRAWING - 3 DRAWING PURPOSE: GOOD FOR CONSTRUCTION PLOT SCALE: 1:100 REVISION: R00 DATE OF ISSUE: 25.05.2024 DWG. NO.: PKG-1-1A-SSH-SMCH-STR-GFC - 10303-R00 SHEET SIZE: A1 SHEET NO: 3 OF 3 DRAWN BY: R.THANGABALU CHECKED BY: S.SATHISH

REFERENCE DRAWINGS: 01. PKG-1-1A-SSH-SMCH-STR-GFC-10301-R00 02. PKG-1-1A-SSH-SMCH-STR-GFC-10302-R00



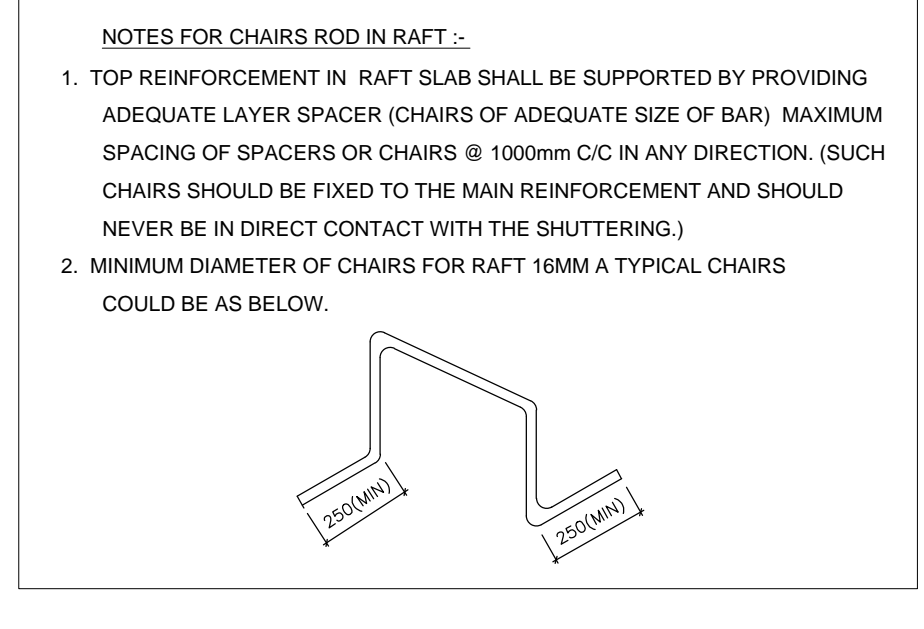
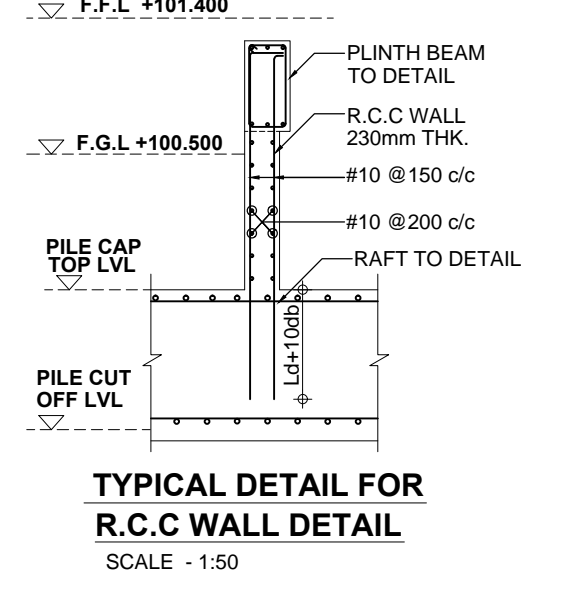
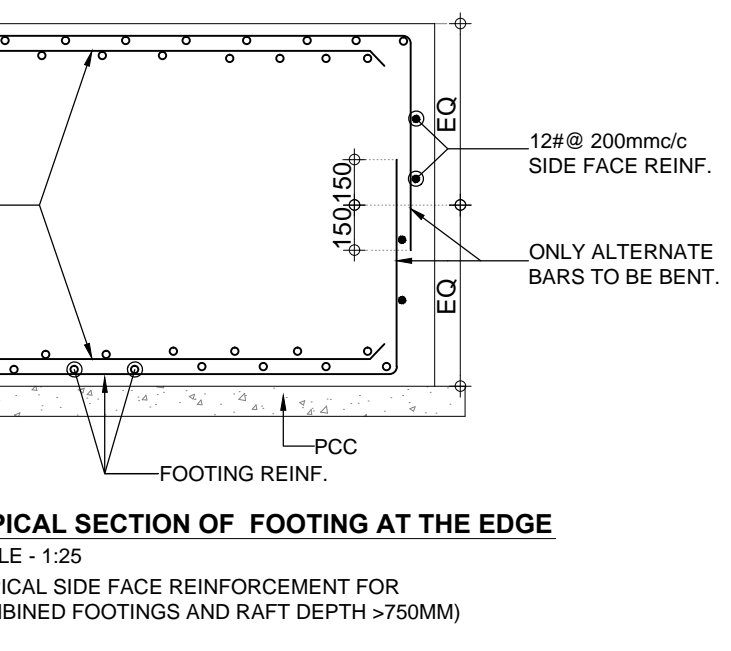
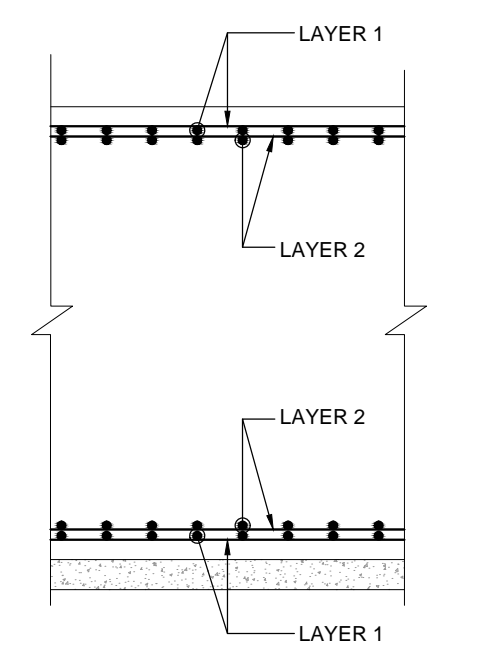
THIS DRAWING IS THE PROPERTY OF THE RITES LTD.- MUKESH & ASSOCIATES - (JV) AND SHALL NOT BE COPIED OR USED IN ANY MANNER WITHOUT PRIOR PERMISSION

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
  2. GRADE OF CONCRETE MIX SHALL BE M30 CONFORMING TO IS 456-2000
  3. REINFORCEMENT BARS SHALL BE HIGH STRENGTH DEFORMED BARS OF GRADE F500 CONFIRMED TO IS 1786-2008
  4. CLEAR COVER FOR PILE CAP BOTTOM - 75 MM  
PILE CAP TOP - 50 MM  
COLUMN - 40 MM  
WALL - 40 MM  
BEAM - 40MM
  5. NO DIMENSIONS SHALL BE SCALED OFF FROM THE DRAWING ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
  6. LAP JOINTS SHALL BE PROVIDED IN STAGGERED MANNER AND NOT MORE THAN 50% OF THE REINFORCEMENT BARS SHALL BE LAPPED AT ANY LOCATION
  7. BUILDING DESIGNED FOR SEISMIC ZONE - V
  8. BUILDING FOR G+06 FLOOR
  9. LAP LENGTH/DEVELOPMENT LENGTH SHALL BE AS FOLLOWS:  
40#BAR DIA FOR M25, 45#BAR DIA FOR M30,  
40#BAR DIA FOR M35, 36#BAR DIA FOR M40 & ABOVE



**LAYING OF SAND BLANKET OF 0.50M THICKNESS**  
THE STONE SAND BLANKET SHALL BE LAID BELOW THE RAFT FOUNDATION FOR MINIMUM THICKNESS OF 500MM WILL BE COMPACTED TO A RELATIVE DRY DENSITY OF 85 PERCENT. COMPACTION SHALL BE CARRIED OUT WITH ROLLERS OR BY ANY OTHER SUITABLE MECHANICAL EQUIPMENT. STONE / SAND SHALL BE LAID IN LAYERS OF 150MM AND COMPACTED TO ACHIEVE DESIRED COMPACTION. THE STONE SAND BLANKET SHALL BE CONSTRUCTED WITH MIXTURE OF 75 MM AND DOWN STONE AGGREGATES AND WELL GRADED MEDIUM TO COARSE SAND OF FINENESS MODULUS NOT LESS THAN 2.2 MIXED IN THE RATIO OF 2:1 (2 STONE AGGREGATES : 1 SAND)

**COMBINED PILE RAFT FOUNDATION (CPRF)**  
\* INITIAL PILE LOAD TESTS SHOULD BE CARRIED OUT FOR 750MM DIAMETER PILES WITH A LENGTH OF 27.175M TO ACHIEVE A CAPACITY OF 200 TONS.  
\* AFTER REVIEWING THE PILE LOAD TEST RESULTS, THE NUMBER AND DEPTH OF PILES WILL BE FINALIZED AS PER IS-2911-PART-4. IF ANY VARIATION IN THE TEST RESULTS IS OBSERVED, CHANGES WILL BE MADE ACCORDINGLY, AND THE REVISED DESIGN WILL BE APPROVED BY THE COMPETENT AUTHORITY.



**NOTES:-**

THE PILE INDICATED ARE INDICATIVE ONLY. ANY VARIATION INCLUDING LENGTH, DIAMETER AND NUMBER OF PILES CAN BE FINALIZED ONLY AFTER THE COMPLETION OF THE INITIAL PILE LOAD TEST AS PER IS 2911-PART-4

**PILE WITH COMBINED PILED RAFT FOUNDATION (CPRF)  
(FOR THE VERTICAL SETTLEMENT OF 30mm)**

**FOLLOWING TEST TO BE CONDUCTED AT SITE:**

**A) VERTICAL LOAD TEST:**

1. INITIAL LOAD TEST FOR 750mm DIA PILE = 200 TONES (ULTIMATE PILE CARRYING CAPACITY) (27.175m LENGTH)
2. ROUTINE LOAD TEST FOR 750mm DIA PILE = 200 TONES (ULTIMATE PILE CARRYING CAPACITY) (27.175m LENGTH)

**B) HORIZONTAL LOAD TEST**

1. INITIAL LOAD TEST FOR 750mm DIA PILE - 7.6 TONES (27.175m LENGTH)

**PILE WITH PILECAP  
(FOR THE VERTICAL SETTLEMENT OF 12mm)**

**FOLLOWING TEST TO BE CONDUCTED AT SITE:**

**A) VERTICAL LOAD TEST:**

1. INITIAL LOAD TEST FOR 750mm DIA PILE - 85x2.5 = 212.5 TONES (25.175m LENGTH) FOR 750mm DIA PILE - 60x2.5 = 150 TONES (19.175m LENGTH)
2. ROUTINE LOAD TEST FOR 750mm DIA PILE - 85x1.5 = 127.5 TONES (25.175m LENGTH) FOR 750mm DIA PILE - 60x1.5 = 90 TONES (19.175m LENGTH)

**B) HORIZONTAL LOAD TEST**

1. INITIAL LOAD TEST FOR 750mm DIA PILE - 7.6 TONES (25.175m LENGTH) FOR 750mm DIA PILE - 7.6 TONES (19.175m LENGTH)

**IMPORTANT NOTES:(FOR PILE)**  
THE PILE DESIGN IS BASED ON EMPIRICAL FORMULA AND NECESSARY REVISIONS WILL BE MADE AFTER VERIFICATION OF LOAD CARRYING CAPACITY BY CONDUCTING PILE LOAD CARRYING CAPACITY TEST AS PER IS 2911-PART-4 AND RESULTS SHOULD BE SUBMITTED FOR VERIFICATION

**IMPORTANT NOTES:(FOR FILLING FROM NGL TO PILE RAFT BOTTOM LEVEL.)**  
THE SOIL SHOULD BE FILLED IN LAYERS WITH MAXIMUM THICKNESS OF 200mm WITH MAXIMUM DRY DENSITY, IN ADDITION TO THE ABOVE FIELD TEST SHOULD BE CARRIED OUT TO ENSURE THE SBC OF 7.0 T/M<sup>2</sup> IS ACHIEVED FOR THE SETTLEMENT OF 75mm

PROVISION OF SPECIAL CONFINING REINFORCEMENT IN FOOTINGS  
SPECIAL SEISMIC DETAILING PROVISIONS FOR LO PROVIDE rings at CLOSER SPACING

Rev.	Date	Description	Drawn	Chkd.	Appd.
<b>PROJECT MANAGEMENT UNIT:</b>					
<b>ASSAM HEALTH INFRASTRUCTURE DEVELOPMENT &amp; MANAGEMENT SOCIETY</b>					
<b>PROJECT MANAGEMENT CONSULTANTS:</b>					
RITES LTD. - MUKESH & ASSOCIATES - (JV) Project Management Consultant (Facility & Equipment) - Assam Health System Strengthening Project. Loan No : ID-P302 (JICA)					
<b>PROJECT:</b> SUPERSPECIALTY WING AT 6 MEDICAL COLLEGES VIZ SILCHAR, DIPHU, LAKHIMPUR, TEZPUR, JORHAT & FAAMCH BARBETA: INFRASTRUCTURE IMPROVEMENT IN 6 DISTRICT HOSPITALS VIZ SILCHAR, UDALGURI, HOJAI, HAILAKANDI, DARRANG AND DIMA HASAO AND DEDICATED TRAINING, MONITORING, ADMINISTRATIVE CENTRE, SWASTHYA BHAWAN AT GUWAHATI UNDER ASSAM HEALTH SYSTEM STRENGTHENING PROJECTS FUNDED BY JICA					
<b>PROJECT LOCATION :</b> SILCHAR SUPER SPECIALTY HOSPITAL, SMCH PACKAGE -1-1A					
<b>DRAWING TITLE:</b>					
PILE RAFT SECTION DETAILS-1					
<b>DRAWING PURPOSE:</b>					
<b>GOOF FOR CONSTRUCTION</b>					
<b>PLOT SCALE:</b>		<b>REVISION:</b>		<b>DATE OF ISSUE:</b>	
1:100		R01		07.06.2024	
<b>DWG. NO.:</b>					
PKG-1-1A-SSH-SMCH-STR-GFC - 10310-R00					
<b>SHEET SIZE:</b> A1			<b>SHEET NO:</b> 7 OF 8		
<b>DRAWN BY:</b> R.THANGABALU			<b>CHECKED BY:</b> S.SATHISH		



## Annexure-E

**Project Name:** Assam Health System Strengthening Project supported by JICA

**JICA Loan No. :** ID-P 302

**Name of the Contract:** Construction of Super-specialty Hospital Block and allied buildings within Lakhimpur Medical College, Fakhruddin Ali Ahmed Medical College - Barpeta and Silchar Medical College campus involving Civil, MEP Works, External Development Works (**Package 1-1A**).

**IFB No:** AHIDMS/JICA/SUPER SPECILATY TENDER/2025/ECF NO. 598510/01-A

The following **Table 1: Summary of Milestones** shall be considered:

<b>Milestone Name/Description</b>	<b>Time for Completion of Milestones</b>	<b>Withheld % (Sub-Clause 8.13)</b>
Up to Ground Floor level in all aspect at all the three location	7 months	0.50% of the Accepted Contract amount
Up to Third Floor Super structure (including Roof) comprising all structural works, masonry works in all aspect at all the three location	13 months	0.50% of the Accepted Contract amount
Up to Sixth Floor Super structure (including Roof) and Ancillary Building Super structure comprising all structural works, masonry works in all aspect at all the three location	18 months	0.50% of the Accepted Contract amount
Up to above terrace Super structure comprising all structural works, masonry works at all the three location	19 months	0.50% of the Accepted Contract amount
Up to Third floor- MEP services works & Interiors in all aspect at all the three location	21 months	0.10% of the Accepted Contract amount
Up to Sixth floor- MEP services works & Interiors in all aspect at all the three location	23 months	0.10% of the Accepted Contract amount
Up to above terrace- MEP services works & Interiors in all aspect (including machine room, head room, water tank etc.) at all three location	24 months	0.10% of the Accepted Contract amount
Up to completion of External elevation and Finishing works for all the buildings at all	28 months	0.50% of the Accepted

Milestone Name/Description	Time for Completion of Milestones	Withheld % (Sub-Clause 8.13)
three location		Contract amount
Up to completion of External Development Works and Ancillary Building Interiors in all aspect at all three location	29 months	0.20% of the Accepted Contract amount
Up to completion of Balance Works identified by the Engineer (if any)	30 months	0.10% of the Accepted Contract amount
<p><b>Note:</b></p> <p>i) The Time for Completion of Milestones mentioned above will be calculated from the Commencement Date.</p> <p>ii) Withheld amount of previous milestones shall be released if and when in the subsequent milestones, by way of implementing an appropriate catching up plan, contractor completes all milestones within the specified time. However, in case milestones are not achieved by the Contractor for the work within respective time for completion specified, the amount withheld against milestones shall be deducted for delay damages over and above the Maximum amount of delay damages as given in CD 8.7.</p>		