JICA Loan No. : ID-P 302

Name of the Contract: Construction of District Hospitals and allied buildings at Silchar and Udalguri involving Civil, MEP Works, External Development Works.

IFB No:

A.Preamble

- 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.

JICA Loan No.: ID-P 302

Name of the Contract: Construction of District Hospitals and allied buildings at Silchar and Udalguri involving Civil, MEP Works, External Development Works.

IFB No:

GRAND SUMMARY

	Description		Amount	
	Bootipaon	INR	JPY	USD
Facility	No-1 Silchar - District Hospital	-	-	-
Facility	No-2 Udalguri - District Hospital	-	<u>-</u>	-
(A)	Total (2 Distict Hospitals)	-	-	-
(B)	Specified Provisional Sums	10,839,750.00	-	-
(C)	Total (A+B)	10,839,750.00	-	-
(D)	Add contingency allowance (20%)	2,167,950.00	-	-
(E)	Bid Price (C+D) [carried forward to Letter of Price Bid]	13,007,700.00	-	-
	Note:The Employer shall add GST @ 18% during the contract signing			

JICA Loan No.: ID-P 302

Name of the Contract: Construction of District Hospitals and allied buildings at Silchar and Udalguri involving Civil, MEP Works, External Development Works.

IFB No:

		Specified Provisional Sums		
SI No	Description		Amount	
Orito	Description	INR	JPY	USD
1	Cost of Dispute Board (DB)	10,839,750.00		
	Total Specified Provisional Sums	10,839,750.00	_	_

Notes for the Bidders

- 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 Gerenal Conditions. Notwithstanding the above, the Provisional Sum for the cost of the DB shall require no prior instruction of the Engineer.
- No Contractor's overhead charges or profit shall be included or payable on the Provisional Sum for the Cost of the DB.

JICA Loan No.: ID-P 302

Construction of District Hospitals and allied buildings at Silchar and Udalguri involving Civil, MEP Works, External Development Works.

IFB No:

SUMMARY OF BILLS

			Silchar District Hospital		L	Jdalguri District Hospita	ıl
SI No	Description	Amount (INR)	Amount (JPY)	Amount (USD)	Amount (INR)	Amount (JPY)	Amount (USD)
1	Bill no-1 Civil works	-	-	-	-	-	-
2	Bill no-2 Plumbing works	-	-	-	-	-	-
3	Bill no-3 Fire fighting works	-	-	-	-	-	-
4	Bill no-4 STP,ETP,Solar & Pumps	-	-	-	-	-	-
5	Bill no-5 HVAC works	-	-	-	-	-	-
-	Dill no C Floatrical quaters						
6	Bill no-6 Electrical system	-	-	-	-	-	-
7	Bill no-7 Lift works						
'		-	-	-	-	-	-
8	Bill no-8 Allied works		<u> </u>				
		-	-	-	-	-	-
	TOTAL	-	-	-	-	-	-

JICA Loan no : ID-P 302

Name of the Contract: Construction of District Hospitals and allied buildings at Silchar and Udalguri Involving Civil, MEP Works, External Development Works.

							Rate										
										Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	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 onl
1	2	3	4	5	6=4+5	7	8	9	10=7x4	11=8x4	12=9x4	13=7x5	14=8x5	15=9x5	16=10+13	17=11+14	18=12+15
I	Pre constrction Work- Salvage/Tree cutting																
I-1	Credit for demolition of existing building structures etc. complete and taking away all fetched material out of campus within 30 days after completing demolition part exept the Construction & Demolition waste kept for recycling and used the recycle product for non structural work such as in foot path, manhole, lean concrete, filling under plinth re-filling of foundation etc. or as approved by Engineer-in-charge complete in all respect. The serviceable material received from dismantling/demolishing to be kept with contractor and take away from the site as per direction of engineer-in-charge. Note: This amount to be paid by contractor to the department. Quote the lump sum amount (in minus)	Job	1.00	1.00	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; transport including loading, unloading and stacking of serviceable material at Forest department; transport including loading, unloading and disposal of unserviceable material from the site as per the instruction of the Forest department.	Nos	77	32	109.00												
	Sub Head 1 : Earth Work & Carriage of Materials Carriage of material by mechanical transport including loading, unloading																
	and stacking Earth																
	Up to 5 km.	cum	10.00	0.00	10.00				_	_	_	_	_	_	_	_	
	5km to 10 km	cum	2745.00	5676.93	8421.93				-		-	-	-		-	-	
	10km to 20km	cum	1647.00	28722.53					-	-	-	-	-	-	-	-	
4	Disposal of moorum, similar unserviceable, or waste material from excavation for footing/ foundation 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. 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,	cum	6743.00	10209.00	16952.00				-	-	-	-	-	-	-	-	
	marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 m: All kinds of soil	cum	4650.00	1617.00	6267.00				-	-	-	-	-	-	-	-	
	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.																
6	All kinds of soil	cum	11710.30	7568.33	19278.63				-	-	-	-	-	-	-	-	
	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.																
7	Ordinary rock	cum	10.00	10.00	20.00				-	-							
									-	-							
	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.																

			_							Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	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	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures on
	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).								umy	- Only)	uniyi	Unity)	only	omy			
9	Depth not exceeding 1.5 m	sqm	145.98	228.83	374.81				_		-		-	-		_	
10	Depth exceeding 1.5 m but not exceeding 3 m	sqm	94.98	154.89	249.87				-	-		-	-		-	-	
11	Depth exceeding 3 m but not exceeding 4.5 m	sqm	63.61	102.09	165.69				-	-	-	-	-	-	-	-	
12	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	9402.00	7194.00	16596.00				-	-	-	-	-	-	-	-	
13	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	2439.46	2099.54	4539.00				-	-	-	-	-	-	-	-	
	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.																
	All kinds of soil																
	1.5 to 3.0	cum	1522.78	842.06	2364.84				-	-	-	-	-	-	-	-	
15	3.0 to 4.5	cum	795.11	686.32	1481.43				-	-	-	-	-	-	-	-	
16	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	530.00	293.00	823.00				-	-	-	-	-	-	-	-	
	Anti termite treatment Supplying chemical emulsion in sealed containers including delivery as specified.																
17	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	litre	1226.00	1362.00	2588.00				-	-	-	-	-	-	-	-	
	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:																
18	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	sqm	1119.93	1053.69	2173.62				-	-	-	-	-	-	-	-	
	Sub Head 2 : Concrete Work																
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:																
	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.	587.95	872.15	1460.10				-	-	-	-	-	-	-	-	
	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10																
20	graded stone aggregate 40 mm nominal size derived from natural sources)	cum.	100.90	363.98	464.88				-	-	-	-	-	-	-	-	
	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																
21	consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	sqm	213.50	254.00	467.50				-	-	-	-	-	-	-	-	
	Providing and laying in position ready mixed or site batched design mix cement concrete for plain 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 and finishing as per direction of the engineer-in-charge; for the following grades of concrete.																

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	•		District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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)
	Concrete of M25 grade with minimum cement	Cum	138.60	104.00	242.60				-	-	-	-	_	-	_	_	-
	content of 300 kg/cum Sub Head 3: RCC Work, Form work, Reinforcement & Expansion Joint.																
	Form Work																
	Centering and shuttering including strutting, propping etc. and removal of form for :																
23	Foundations, footings, bases of columns, etc. for mass concrete.	sqm	1425.79	1024.61	2450.40				-	-	-	-	-	-	-	-	-
24	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc	sqm	6421.75	9125.49	15547.24				-	-	-	-	-	-	-	-	-
25	Suspended floors, roofs, landings, balconies and access platform.	sqm	17172.90	16476.23	33649.14				-	-	-	-	-	-	-	-	-
26	Shelves (Cast in situ)	sqm	302.00	69.54	371.54				-	-	-	-	-	-	-	-	-
27	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	13147.41	12893.75	26041.16				-	-	-	-	-	-	-	-	-
	Columns, Pillars, Piers, Abutments, Posts and Struts Stairs, (excluding landings) except spiral-staircases	sqm	6043.88	2574.00	8617.88				-	-	-	-	-	-	-	-	-
	Extra for shuttering in circular work (20% of respective centering and	sqm	542.13	1029.20	1571.33				-	-	-	-	-	-	-	-	-
	shuttering items) Small lintels not exceeding 1.5 m clear span, moulding as in cornices,	sqm	0.00	10.92	10.92				-	-	-	-	-	-	-	-	-
	window sills, string courses, bands, copings, bed plates, anchor blocks and the like	sqm	22.00	41.80	63.80				-	-	-	-	-	-	-	-	-
	Edges of slabs and breaks in floors and walls								-	-	-	-	-	-			
	Under 20 cm wide Weather shade, Chajjas, corbels etc., including edges	metre sqm	439.80 1192.18	1944.40 684.41	2384.20 1876.58				-	-	-	-	-	-	-	-	-
	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)		1172.10	001.41	1070.50												
	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	sqm	11791.00	6559.33	18350.33				-	-	-	-	-	-	-	-	-
	Reinforcement TMT Steel																
	Steel Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.																
35	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	725633.75	750172.49	1475806.24				-	-	-	-	-	-	-	-	-
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.																
36	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	kg	1041575.30	977796.85	2019372.15				-	-	-	-	-	-	-	-	-
	Reinforced Cement Concrete																
	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.																
	All works upto plinth level																
	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	501.96	1170.70	1672.67												
5 /	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	4555.29	4566.44	9121.72				<u>-</u>	-	-	-	-	-	-	-	-
	Concrete of M40 grade with minimum cement content of 390 kg /cum	cum	98.00	114.67	212.67				<u> </u>	_	-				-		-
		Julii	70.00	111.07	212.07					_	_				-		-

						Rate										
SI no Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no Description of Item	Onit	District Hospital	_	Total Quantity	Figures only)	Figures only)	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)
41 Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	4401.26	3996.69	8397.95				-	-	-	-	-	-	-	-	-
42 Concrete of M40 grade with minimum cement content of 390 kg/cum	cum	1756.00	1671.25	3427.25				-	-	-	-	-	-	-	-	-
specified cement content therein	quintal	1756.50	1781.97	3538.47				-	-	-	-	-	-	-	-	-
Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	cum	1545.71	10.00	1555.71				-	-	-	-	-	-	-	-	-
Expansion Joint																
Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.																
45 200 mm wide.	metre	96.00	47.82	143.82				-	-	-	-	-	-	-	-	-
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 perASTM 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).																
46 Floor Joint of 200 mm gap	metre	27.00	23.91	50.91				-	-	-	-	-	-	-	-	-
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 perASTM 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).																
47 Wall Joint of 200 mm gap	metre	96.00	27.60	123.60										_	_	_
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		20.00	27.00	123.00												

SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital		Total Quantity		Figures only)	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
	oase memoers with, sen angining and sen centering arragement 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).																
48	Roof Joint of 200 mm gap	metre	27.00	23.91	50.91				-	-	-	-	-	-	-	-	
	Sub Head 4 : Masonry Work																
	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:																
	Cement mortar 1:6 (1 Cement : 6 coarse sand)	cum	107.10	95.83	202.93				-	-	-	-	-	-	-	-	
	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 :																
50	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	201.32	1806.82	2008.14				-	-	-	-	-	-	-	-	
51	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	836.00	10.00	846.00				-	-	-	-	-	-	-	-	
	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :																
52	cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	10.00	10.00	20.00				-	-	-	-	-	-	-	-	
	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.																
53	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	10.00	13.00	23.00				-	-	-	-	-	-	-	-	
	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 :																
54	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	10.00	10.00	20.00				-	-	-	-	-	-	-	-	
55	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	549.00	524.56	1073.56				-	-	-	-	-	-	-	-	
56	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	2717.00	953.08	3670.08				-	-	-	-	-	-	-	-	
	Sub Head 5 : Cladding Work																

Property of the property of		Total		1	Udalguri DH			Silchar DH		W. T. Children		T		***	C** -	_		
Property of the content of the con	(in Figures only)	JPY (in Figures only) U	INR (in Figures only)					, -		Figures	Figures	Figures	Total Quantity	District	District	Unit	Description of Item	SL. no
Section Accounts of the Control of Control				omy)	omy,	only)	omy)	om,,	omy,								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	
State Stat																		
Communication of the Communication Communi																		
1		-	-		-	-	-	-	-				74.45	24.85	49.60	sqm		31
See																		
Simple fields promise requirements and more and entering management and all more and entering management and entering management and entering management and entering enterin	-	-	-		-	-	-	-	-				18.61	6.21	12.40	sqm	1 1	50
to the first wind they of fill they of the first wind they of fill they of the first wind they of fill they of the first wind the first win	-	-	-		-	-	-	-	-				391.00	300.00	91.00	sqm	Area of slab over 0.50 sqm	59
in this is before politions, received unifor terms to the processes of the	-	-	-		-	-	-	-	-				25.00	12.00	13.00	metre	item, in facia and drops of width upto 150 mm with epoxy resin based	60
per la production de sur 25-55 on manifeste de la production de la production	-	-	-		-	-	-	-	-				20.00	10.00	10.00		sink in kitchen platform, vanity counter and similar location in marble/Granite/ stone work, including necessary holes for pillar taps etc. including	61
Providing and fising list quality cornine glased wall like conforming to 18 Stage																	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	
15022 (thickness to be specified by the manufacture), of approved make in all colours, finds except bequally, better gere, hickness and provided of any size at a proved by Engineeric Change, in shirting, rener of ateps and dades, over again maked with pigment of metabular ghands complete. 12mm fight find of creaming must place (large mixed) and pointing in white cancer and and planting maked complete. 5th Head 6: Wood & Pre Work 2mm fight growth work in famous of duces, windows, classatory windows and other frames, wrample framed and fixed in protein or thickly find the fixed provided or protein and glades with the fixed of the fixed provided or protein and glades shades of the fixed of the fixed provided or protein and glades shades of the fixed provided provided provided provided provided or become and colours with a fixed provided or protein and glades shades of the fixed provided provided provided provided provided provided provided or protein and glades shades of the fixed provided or protein and		-	-		-	-	-	-	-				66.10	35.10	31.00	sqm	Granite Stone of approved shade	62
Providing wood work in frames of doors, windows, clerestory windows and other frames, wrough framed and fixed in position with hold fast lugs or with dash Interest of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 64 Second class teak wood cum 10.28 7.02 17.30		-	-		-	-	-	-	-				18445.80	10500.80	7945.00	sqm	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	63
Providing wood work in frames of doors, windows, clerestory windows and other frames, wrough framed and fixed in position with hold fast lugs or with dash Interest of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 64 Second class teak wood cum 10.28 7.02 17.30																	Sub Head 6 : Wood & Pvc Work	
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 panelled and glazed shutters 25 mm to 40 mm thick glass pane (weight not less than 10kg/sqm). sqm 620.00 310.03 930.03																	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	
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 and glazed shutters 25 mm to 40 mm thick : 65 4 mm thick glass pane (weight not less than 10kg/sqm). 66 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm). 67 Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture with matching wood beading 68 4 mm thick glass panes (weight not less than 12.50 kg/sqm). 69 Sum thick glass panes (weight not less than 12.50 kg/sqm). 60 Sum thick glass panes (weight not less than 12.50 kg/sqm). 60 Sum thick glass panes (weight not less than 12.50 kg/sqm). 61 Sum thick glass panes (weight not less than 12.50 kg/sqm). 62 Sum thick glass panes (weight not less than 12.50 kg/sqm). 63 Sum thick glass panes (weight not less than 12.50 kg/sqm). 64 Sum thick glass panes (weight not less than 12.50 kg/sqm). 65 Sum thick glass panes (weight not less than 12.50 kg/sqm). 66 Sum thick glass panes (weight not less than 12.50 kg/sqm). 67 Sum thick glass panes (weight not less than 12.50 kg/sqm). 68 Sum thick glass panes (weight not less than 12.50 kg/sqm). 69 Sum thick glass panes (weight not less than 12.50 kg/sqm). 60 Sum thick glass panes (weight not less than 12.50 kg/sqm). 60 Sum thick glass panes (weight not less than 12.50 kg/sqm). 61 Sum thick glass panes (weight not less than 12.50 kg/sqm). 62 Sum thick glass panes (weight not less than 12.50 kg/sqm). 63 Sum thick glass panes (weight not less than 12.50 kg/sqm). 64 Sum thick glass panes (weight not less than 12.50 kg/sqm). 65 Sum thick glass panes (weight not less than 12.50 kg/sqm). 66 Sum thick glass panes (weight not less than 12.50 kg/sqm). 67 Sum thick glass panes (weight not less than 12.50 kg/sqm). 68 Sum thick glass panes (weight not less than 12.50 kg/sqm). 69 Sum thick glass panes (weight not less than 12.50 kg/sqm). 60 Sum thick glass panes (weight not less than 12.	-	-	-		-	-	-	-	-				17.30	7.02	10.28	cum	Second class teak wood	64
5.0 mm thick glass panes (weight not less than 12.50 kg/sqm). sqm 57.00 16.92 73.92																	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	
Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture with matching wood beading sqm 47.00 37.62 84.62 Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of	-	-	-		-	-	-	-	-				930.03	310.03	620.00	sqm	4 mm thick glass pane (weight not less than 10kg/sqm).	65
1.4mm wide aperture with matching wood beading Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of	-	-	-		-	-	-	-	-				73.92	16.92	57.00			
glass in glazed doors, windows and clerestory window shutters.(Area of	-	-	-		-	-	-	-	-				84.62	37.62	47.00	sqm	1.4mm wide aperture with matching wood beading	67
																	glass in glazed doors, windows and clerestory window shutters.(Area of	
68 5.0 mm thick instead of 4 mm thick. sqm 54.00 16.92 70.92		_	_		_	_	_	_	_				70.92	16 92	54 00	sam	5.0 mm thick instead of 4 mm thick.	68

Description of Item and glass panes 4 mm thick instead of ordinary float in doors, windows and clerestory window shutters. It is panes excluding portion inside rebate shall be sheaded glass panes instead of ordinary float glass thick in doors, windows and clerestory windows for glass panes excluding portion inside rebate shall safety foot rest of minimum 6 mm thick plastic 10910, on 12 mm dia steel bar conforming to IS: ross section as 23 mmx25mm and over all minimum as 165 mm with minimum 112 mm space between mm tread on top surface by ribbing or chequering equate anchoring projections on tail length on 138 wing and suitable to with stand the bend test and as per specifications and having manufacture's mark to be visible even after fixing, including fixing (15 cm cement concrete block 1:3:6 (1 cement : 3 one aggregate 20 mm nominal size) complete as per cover without frame for manholes: Ever (heavy duty) the weight of the cover to be not marked flush door shutters conforming to IS: 2202 ppe, core of block board construction with frame of a well matched commercial 3 ply veneering with and and face veneers on both faces of shutters.	sqm	305.00 315.00 7.00	Udalguri District Hospital 220.00 90.03	525.00 405.03	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 Figure
the doors, windows and clerestory window shutters. The same as a second projection inside rebate shall be sheated glass panes instead of ordinary float glass thick in doors, windows and clerestory windows for glass panes excluding portion inside rebate shall safety foot rest of minimum 6 mm thick plastic 10910, on 12 mm dia steel bar conforming to IS: ross section as 23 mmx25mm and over all minimum as 165 mm with minimum 112 mm space between must read on top surface by ribbing or chequering equate anchoring projections on tail length on 138 wing and suitable to with stand the bend test and as per specifications and having manufacture's mark to be visible even after fixing, including fixing x15 cm cement concrete block 1:3:6 (1 cement : 3 one aggregate 20 mm nominal size) complete as per cover without frame for manholes: The ver (heavy duty) the weight of the cover to be not marked flush door shutters conforming to IS: 2202 ppe, core of block board construction with frame of a well matched commercial 3 ply veneering with and and face veneers on both faces of shutters.	sqm	315.00 31.50 7.00	36.00	405.03 67.50				-		-	-	-	-	-		
safety foot rest of minimum 6 mm thick plastic 10910, on 12 mm dia steel bar conforming to IS: ross section as 23 mmx25mm and over all minimum as 165 mm with minimum 112 mm space between mm tread on top surface by ribbing or chequering equate anchoring projections on tail length on 138 wing and suitable to with stand the bend test and as per specifications and having manufacture's mark to be visible even after fixing, including fixing and suitable to with stand the bend test and as per specifications and having manufacture's mark to be visible even after fixing, including fixing an aggregate 20 mm nominal size) complete as per cover without frame for manholes: The were (heavy duty) the weight of the cover to be not marked flush door shutters conforming to IS: 2202 ppe, core of block board construction with frame of the well matched commercial 3 ply veneering with and and face veneers on both faces of shutters.	each	7.00	36.00	67.50				-	-	-	-	-	-	-	-	
10910, on 12 mm dia steel bar conforming to IS: ross section as 23 mmx25mm and over all minimum as 165 mm with minimum 112 mm space between mm tread on top surface by ribbing or chequering equate anchoring projections on tail length on 138 wing and suitable to with stand the bend test and as per specifications and having manufacture's mark to be visible even after fixing, including fixing also come concrete block 1:3:6 (1 cement: 3 one aggregate 20 mm nominal size) complete as per cover without frame for manholes: The rever (heavy duty) the weight of the cover to be not marked flush door shutters conforming to IS: 2202 ppe, core of block board construction with frame of the well matched commercial 3 ply veneering with and and face veneers on both faces of shutters.	each	7.00						-	-	-	-	-	-	-	-	
marked flush door shutters conforming to IS: 2202 ppe, core of block board construction with frame of a well matched commercial 3 ply veneering with and face veneers on both faces of shutters.	each		6.00	13.00				-	-	-	-	-	-	-	-	
marked flush door shutters conforming to IS: 2202 pe, core of block board construction with frame of well matched commercial 3 ply veneering with and face veneers on both faces of shutters.	each		6.00	13.00				-	-	-	-	-	-	-	-	
pe, core of block board construction with frame of d well matched commercial 3 ply veneering with and and face veneers on both faces of shutters.		625.50														
I marked Stainless Steel butt hinges with necessary	sqm	625.50														
			630.69	1256.19				-	-	-	-	-	-	-	-	
oing with 2nd class teak wood battens 25 mm dges of flush door shutters (over all area of door		604.00	626.19	1230.19				-	-	-	-	-	-	-	-	
n panel not exceeding 0.1 sqm in all type of flush ded) (overall area of door shutter to be measured):	L															
	sqm	604.00	626.19	1230.19				-	-	-	-	-	-	-	-	
n flush door shutters (Total area of the shutter to be		604.00	626.19	1230.19				-	-	_		_	_	_	_	
grills of required pattern in frames of windows etc.																
complete.																
welding			1313.00	3389.00				-	-	-	-	-	-	-	-	
Thanks with fawl plugs serews etc.	kg	8500.41	5427.00	13927.41				-	-	-	-	-	-	-	-	
ron hold fast 40 cm long including fixing to frame is, nuts and wooden plugs and embedding in cement cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded minal size).		2410.00	1675.00	4085.00				-	-	-	-	-	-	-	-	
: 12817 marked stainless steel butt hinges with complete :	L															
	each	5.00	21.00	26.00				-	-	-	-	-	-	-	-	
tht finished brass handles with screws etc. complete																
	each	10.00	10.00	20.00				-	-	-	-	-	-	-	-	
or con fine from fire con fire	r round bars etc. including priming coat with implete. relding frames with rawl plugs screws etc. In hold fast 40 cm long including fixing to frame nuts and wooden plugs and embedding in cement in 1:3:6 mix (1 cement : 3 coarse sand : 6 graded nal size). 12817 marked stainless steel butt hinges with implete:	r round bars etc. including priming coat with mplete. relding frames with rawl plugs screws etc. kg In hold fast 40 cm long including fixing to frame nuts and wooden plugs and embedding in cement in 1:3:6 mix (1 cement : 3 coarse sand : 6 graded nal size). 12817 marked stainless steel butt hinges with mplete: each finished brass handles with screws etc. complete	reround bars etc. including priming coat with implete. Relding kg 2076.00 Frames with rawl plugs screws etc. kg 8500.41 In hold fast 40 cm long including fixing to frame nuts and wooden plugs and embedding in cement in 1:3:6 mix (1 cement : 3 coarse sand : 6 graded nal size). 12817 marked stainless steel butt hinges with implete: each 5.00 finished brass handles with screws etc. complete each 10.00	recound bars etc. including priming coat with implete. Relding kg 2076.00 1313.00 frames with rawl plugs screws etc. kg 8500.41 5427.00 In hold fast 40 cm long including fixing to frame nuts and wooden plugs and embedding in cement in 1:3:6 mix (1 cement : 3 coarse sand : 6 graded nal size). 12817 marked stainless steel butt hinges with implete: each 5.00 21.00 finished brass handles with screws etc. complete each 10.00 10.00	record bars etc. including priming coat with implete. Relding Re	re round bars etc. including priming coat with mplete. relding kg 2076.00 1313.00 3389.00 frames with rawl plugs screws etc. kg 8500.41 5427.00 13927.41 In hold fast 40 cm long including fixing to frame nuts and wooden plugs and embedding in cement in 1:3:6 mix (1 cement : 3 coarse sand : 6 graded nal size). 12817 marked stainless steel butt hinges with mplete: each 5.00 21.00 26.00 finished brass handles with screws etc. complete each 10.00 10.00 20.00	re round bars etc. including priming coat with mplete. relding kg 2076.00 1313.00 3389.00 frames with rawl plugs screws etc. kg 8500.41 5427.00 13927.41 In hold fast 40 cm long including fixing to frame nuts and wooden plugs and embedding in cement in 1:3:6 mix (1 cement : 3 coarse sand : 6 graded nal size). 2410.00 1675.00 4085.00 12817 marked stainless steel butt hinges with mplete: each 5.00 21.00 26.00 finished brass handles with screws etc. complete	refround bars etc. including priming coat with mplete. Relding R	recluding kg 2076.00 1313.00 3389.00	re round bars etc. including priming coat with mplete. kg 2076.00 1313.00 3389.00	re round bars etc. including priming coat with mplete. kg 2076.00 1313.00 3389.00	re round bars etc. including priming coat with mplete. kg 2076.00 1313.00 3389.00	re round bars etc. including priming coat with mplete. Red South Seeding Seed	Reduction Country Co	remed bars etc. including priming cost with mylete. kg 2076.00 1313.00 3389.00	record bass etc. including priming coat with grider. Red Section Sect

							Rate									
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH		Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures USD (in only)		JPY (in Figures only)	USD (in Figures only)
	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:															
83	125x75x4 mm	each	382.00	366.00	748.00				-	-	-	-	-	-		-
	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:															
84	250x16 mm	each	69.30	50.00	119.30				-	-	-	-	-	-		-
	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:															
85	150x10 mm	each	69.30	56.00	125.30				-	-	-	-	-	-		-
	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:															
86	125 mm	each	586.00	358.00	944.00				-	-	-	-	-	-		-
	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.															
87	Twin rubber stopper	each	857.00	581.00	1438.00				-	-	-	-	-	-		-
88	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.	L	10.00	10.00	20.00				-	-	-	-	-	-	-	-
	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.															
89	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)		215.00	500.00	715.00				-	-	-	-	-	-	-	-
00	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with		446.00	205.00	751.00											

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SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
52,10		C	District Hospital		Total Quantity	Figures only)	Figures only)	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)
91	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames 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.		766.00	636.60	1402.60				-	-	-	-	-	-	-	-
	Providing and fixing to existing door frames.															
92	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	266.00	216.72	482.72				-	-	-	-	-	-	-	
	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.															
93	1.0 mm thick	sqm	621.00	632.49	1253.49				-	-	-	-	-	-	-	
94	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.		32.00	118.00	150.00				-	-	-	-	-	-	-	
	Providing and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be rm cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.															
95	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)		128.00	33.00	161.00				-	-	-	-	-	-	-	

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SL. no Description of Item U	Unit S	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
		District Iospital	District Hospital	Total Quantity	Figures only)	Figures only)	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) USI	D (in Figures only)
Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forminng process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's an drainage of water etc.After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-charge. (Single / double glass panes,wire mesh and silicon sealent shall be paids eparately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.																
Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one nos wire mesh panels)made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	sqm 1	130.00	164.00	294.00				-	-	-	-	-	-	-	-	-
Two track two panels sliding window made of (big series) frame 67×50 mm & sash 46×62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm upto 2.50 sqm).	sqm	76.00	76.00	152.00				-	-	-	-	-	-	-	-	-
Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).																
Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	78.00	58.00	136.00				-	-	-	-	-	-	-	-	-
Providing and fixing fire resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than 120gm/m²) suitable for mounting 120 min Fire Rated Glazed Door Shutters. The frame shall be filled with Mineral wool Insulation having density min 96kg/m³. The frame will have a provision of G.I.Anchor fastners 14 no (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing in the opening along with Factory made Template for SS Ball Bearing Hinges of Size 100x89x3mm for fixing of fire rated glazed shutter. The frame shall be	metre 3	367.00	355.00	722.00				-	-	-	-	-	-	-	-	-
finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in- charge . (Cost of SS ball bearing hinges is excluded).																
Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 min Fire Rating confirming 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	sqm 2	257.00	261.00	518.00				_	_	_		_	_	_		_
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-incharge (panelling to be paid for seperately).	2		201.00	310.00				_	-	_	_			_	-	

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SE.	bescription of Item	Omt	District Hospital		Fotal Quantity		Figures only)	Figures only)	INR (in Figures only)	JPY (in Figure only)	s USD (in	n Figures ly)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
101	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	14.00	15.00	29.00				-		-	-	-	-	-	-	_	-
	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.																	
102	100 mm	each	101.00	42.00	143.00				-		-	-	-	-	-	-	-	-
	Flush door hardware																	
103	Providing and fixing Stainless steel (SS 304) Mortice door lock with handles	each	666.15	380.00	1046.15				-		-	-	-	-	-	-	-	-
	Providing and fixing stainless steel (Grade 304) tower bolts approved																	
104	equivalent with necessary screws etc. complete. 150 x 10mm	each	624.00	421.00	1045.00				-		-	-	-	-	-	_	-	-
	Providing and fixing SS (304)hanging floor door stopper, ISI marked, matt																	
105	finish with necessary screws etc. complete. Single rubber stopper	each	253.00	170.00	423.00				_		-	_		_		_	_	_
106	(6.7 kg/cm) on recisive, Glass respected an complete with required	sqm	24.57	8.46	33.03				_		-	-	-	_	-	-	_	-
	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)																	
107	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	sqm	31.00	24.80	55.80				_		-	_	-	_	_	-	_	-
	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																	
	Sub Head 7 : Steel Work																	
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.																	
100	80x1.25 mm M.S. laths with 1.25 mm thick ton cover		22.00	12.00	24.00													

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SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	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 Figure only)	s INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
	Extra for providing mechanical device chain and crank operation for operating rolling shutters.															
110	Exceeding 10.00 sqm and upto 16.80 sqm in the area	sqm	22.00	12.00	34.00				-	-	-	-	-		-	-
	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:															
	Profile B															
111	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	11.00	11.00	22.00				-	-	-	-	-		-	-
	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.															
112	Hot finished welded type tubes	kg	52.00	50.00	102.00				-	-	-	-	-	-	-	-
113	Hot finished seamless type tubes	kg	1183.20	696.00	1879.20				-	-	-	-	-		-	-
	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.															
114	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	1441.72	1455.12	2896.84				-	-	-	-	-	-	-	-
115	In gratings, frames, guard bar, ladder, railings, brackets,gates and similar works	kg	4914.76	4963.76	9878.52				-	-	-	-	-		-	-
	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/mm2), 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.															
116	10 x 80 mm	each	8.00	5.00	13.00				-	-	-	-	-		-	-
117	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-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing	kg	2965.00	6396.32	9361.32				-	-	-	-	-		-	-
	accessories such as nuts, bolts, fasteners etc.).															
118	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.		2933.65	2869.65	5803.30				-	-	-	-	-		-	-
	Sub Head 8 : Flooring															
119	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	sqm	734.53	1180.99	1915.52				-	-	-	-	-		-	-
	cost of cement slurry, but excluding the cost of noing of steps etc. complete.															

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SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. IIV	Description of Item	Cint	District Hospital	_	Total Quantity	Figures only)	Figures only)	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)
	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 :																
120	Light shade pigment with white cement	sqm	381.00	97.00	478.00				-	-	-	-	-	-	-	-	-
	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.																
121	Light shade pigment using white cement	sqm	1358.00	1686.05	3044.05				-	-	-	-	-	-	-	-	-
122	Extra for pre finished nosing to tread of steps of marble / granite / kota stone	metre	2016.44	1273.44	3289.88				-	-	-	-	-	-	-	-	-
	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):	;															
123	25 mm thick	sqm	199.31	239.57	438.87				-	-	-	-	-	-	-	-	-
124	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.	l	1048.45	1080.45	2128.89				-	-	-	-	-	-	-	-	-
125	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab	Metre	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
126	Extra for Kota stone/ sand stone in treads of steps and risers using single length.	sqm	1048.45	1080.45	2128.89				-	-	-	-	-	-	-	-	-
127	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	50.00	50.00	100.00				-	-	-	-	-	-	-	-	-
	Vertrified Tiles																
	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.																
128	Double charge vitrified tile polished finish of size Size of Tile 600 x 600 mm	sam	8057.00	7575.00	15632.00												
128		sqm	8037.00	1313.00	13032.00				-	-	-	-	-	-	-	-	-
	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																
129	Size of Tile 300 x 300 mm	sqm	1211.00	876.00	2087.00				-	-	-	-	-	-	-	-	-

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Crazy ceramic tile flooring, with under layer 12 mm (1 cement: 4 coarse sand), with joints not exceeding the gaps with ordinary cement mixture & mixing fibre, triangular in shape having specific gravity of size ranging from 10 to 40 micron & length upto 6 grams per 50 kg of cement in cement mortar, including water proofing material in mortar @ 1 kg per 50 kg per direction of Engineer-in-charge.	ng 5 mm, including filling g with synthetic polyester 1.34 to 1.40, cross section mm, mixing fibre @ 125 ding providing and mixing	ım 236.60	94.45	331.05				-	-	-	-	-	-	-	-	-
Providing and laying Polished Granite stone flooring patterns, in linear as well as curvilinear portions of as per the architectural drawings with 18 mm this (average) thick base of cement mortar 1:4 (1 cemer jointed with cement slurry and pointing with whit with pigment of matching shade including rubbing all complete as specified and as directed by the Eng	f the building all complete ck stone slab over 20 mm at: 4 coarse sand) laid and the cement slurry admixed c, curing and polishing etc.															
Polished Granite stone slab colour of Black, Cherry		ım 454.00	180.00	634.00				-	-	-	-	-	-	-	-	-
Static-conductive Flexible Vinyl floor (non-docovering shall be having thickness of 2 mm (m). Weight s 3100 gms/sqm as per EN 430, electrical r. Fire rating class Bfl-s1 as per EN 13 501-1, Statick V as per EN 1815, Slip resistance wet: ramp test as per DIN 51 130, Wear resistance of ≤2.0 as per as per NF189, binder content of type -1 as per stability of ≤0.4 as per EN 434, Indentation ~0 standard ISO 24343 - 1, thermal conductivity of 12524, color fastness rating of ≥6 degree as per should confirm to Floor Score* Indoor Air Quality per ISO 16000-6), performance (ok) in castor chait 4918 (EN 425), anti-bacterial activity (> 99 % in	inimum) as per EN 428, esistance of 104 ≤Rt ≤106 c electrical propensity < 2 st with oil (1) of class R10 EN 660.2, wear group 'P' ISO 10582, dimensional 03 (< 0.10) mm as per 0.25 I W/m.K as per EN EN 20105-802, Product Certified (≤10 μg / m3 as r test (type W) as per ISO phibits growth as per ISO particular electrons.													_		
Installation- It is important to ensure the subfloor of laid is smooth, flat, hard and free from moisture, gr subfloor the same should be levelled using self-Vitrified/ceramic/ mosaic tiles do not provide zer moisture present in the subfloor should be less that the floor. The vinyl flooring sheet should be instal adhesive recommended by Vinyl Flooring manu should terminate at the room perirm passing over and continuing up to the wall for 100mm and cor grounding; copper grounding strips (0.05mm thick laid on floor underneath conductive vinyl flooring flooring should be I sealed by using a PVC welding be supplied by the manufacturer, using a hot air gur with flooring for seamless installation.	on which the sheet is being ease etc. In case of uneven elevelling compound. IPS to levelled sub floor. The n 8% before installation of lled with coving profile & facturer. The floor finish a concealed coving profile meeted to copper strip for 15, 50 mm width) should be ng roll. The joints in the grod of matching colour to	ım 744.00	30.00	774.00												

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SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital		Total Quantity	Figures only)	Figures only)	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)
133	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 ≤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 ≤0.4 as per EN 434, Indentation ~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 ≥6 degree as per EN 20105-B02, product should confimetre to Floor Score* indoor Air Quality Certified (≤ 10µ/m3 as per ISO 16000-6) perfometreance (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 nost 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 I manufacturer. The floor finish should terminate at the room perirm 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 fusio	Sqm	148.00	607.00	755.00				-								
134	100mm High Vinyl coving 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 ≤0.4 as per EN 434, 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), 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	476.00	359.00	835.00				-	-	-	-	-	-	-	-	-
135	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.		372.05	146.00	518.05				-	-	-	-	-	-	-	-	-
	Sub Head 9 : Roofing Work Gypsum Plain Board																

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SL. no Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
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Providing and fixing false ceiling at all height including providing and fix of frame work made of special sections, power pressed from M.S. sheets galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick of flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixe the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia be other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of requ 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 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bot wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 rat 450 mm centre to centre, shall be fixed in a direction perpendicular to intermetreediate channel with connecting clips made out of 2.64 mm dia x mm long G.I. wire at every junction, including fixing perimetre channels mm thick 27 mm high having flanges of 20 mm and 30 mm long, perimetre of ceiling fixed to wall/partition with the help of rawl plugs at mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimetre channel with the lof dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing finishing to a flush finish of tapered and square edges of the board of recommended jointing compound, jointing tapes, finishing with join compound in 3 layers covering upto 150 mm on both sides of joint and coats of primer suitable for board, all as per manufacturer's specification coats of primer suitable for board, all as per manufacturer's specification.	and IS: ivith I to Ilts, red ind ind ind ind ind ind ind ind ind in															
also including the cost of making openings for light fittings, grills, diffus cutouts made with frame of perimetre channels suitably fixed, all complet per drawings, specification and direction of the Engineer in Charge excluding the cost of painting with:	e as															
12.5 mm thick tapered edge gypsum plain board conforming to IS: 20 (Part I):2011 (Board with BIS certification marks)	95- sqm	315.00	1834.00	2149.00					_	-	-		_	_	-	-
137 l2.5 mm thick tapered edge gypsum moisture resistant board	sqm	51.00	50.00	101.00				-	-	-	-	-	-	-	-	-
Providing and fixing precoated galvanised iron profile sheets (size, shand pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0%) total coated thickness with zinc coating 120 grams per sqm as per IS: 2 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sland polyester top coat 15-18 microns. Sheet should have protective gufilm of 25 microns minimum to avoid scratches during transportation should be supplied in single length upto 12 metre or as desired by Engine charge. The sheet shall be fixed using self drilling /self tapping screws of (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizon vertical or curved surfaces, excluding the cost of purlins, rafters and tru and including cutting to size and shape wherever required.	.05 77, neet ard and erin sqm size tal/	206.00	105.63	311.63				-	-	-	-	-	-	-	-	-
Providing and fixing precoated galvanised steel sheet roofing accessed 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqr per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both sid the sheet and polyester top coat 15-18 microns using self drilling/ self tapp screws complete:	n as e of															
139 Ridges plain (500 - 600mm)	metre	16.73	26.16	42.89				-	-	-	-	-	-	-	-	-
Flashings/ Aprons.(Upto 600 mm) Gutter (600 mm over all girth)	metre	16.73	14.08	30.81				-	-	-	-	-	-	-	-	-
141 Gutter (600 mm over all girth)	metre	16.73	25.28	42.01				-	-	-	-	-	-	-	-	-
Metal Ceiling																
Providing and fixing Gl Clip in Metal Ceiling System of 600x600 module which includes providing and fixing 'C' wall angle of size 20x30 mm made of 0.5 mm thick pre painted steel along the perimetre of the rewith help of nylon sleeves and wooden screws at 300 mm center to cersuspending the main C carrier of size 10x38x10 mm made of G.I steel mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, repluge of size 38x12 mm and C carrier suspension clip and main carbracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having heigh 24 mm and width of 34 mm made of Gl steel 0.45 mm thick is then fixe the main C carrier and in direction perpendicular to it at 600 mm centers whelp of suspension brackets. Wherever the main C carrier and spring T to join, C carrier and spring T connectors have to be used. All sections to galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles spring T with:	om tre, 0.7 awl rier t of I to vith ave be															

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	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	sqm	4438.00	3874.00	8312.00				-	-	-	-	-	-	-	-	
	after bending and perforation.																
	Providing and fixing Heat Resistant Terrace Tiles (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																
143	grouting the joints with mix of white cement & marble powder in ratio of 1:1,	sqm	2678.00	2922.00	5600.00				_	-	_	-	_	_	_	_	
	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.																
	Calcium Silicate Board																
	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 fometre 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																
	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		50.00	100.00	150.00				_	_	_	_	_	_	_	_	
	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	sqiii	30.00	100.00	130.00				-	-	_	-	-	_	_	_	
	Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.																
	Mineral Fiber Tile False Ceiling																
	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 diarm M-6 dash fasteners, 6 mm diarm 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 perirm 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.																

							Rate									
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145	The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge. With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7)		4593.00	2654.00	7247.00				-	-	-	-	-	-	-	-
146	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), acessories, 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	210.00	80.00	290.00					-	-	-	-		-	-
	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:															
147	Applying a BITUMEN PRIME COATING is intended for preparation of the surface before installation of self-adhesive sealent tape waterproofig 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 nonvolatile subtances 45-55%, relative viscocity 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	0.00	10.00	10.00				-	-	-	-	-	-	-	-
148	Laying of HIP and Ridge/Starter SBS modified, high-end, factory-made ridge called HIP and Ridge/Starter of TECHNONICOL 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	0.00	92.00	92.00				-	-	-	-	-	-	-	-
149	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. Roofig shingles by TECHNONICOL fully comply with EN 544 – European standard for bitumen shingles knoswn for its strict requirements for the minimum mass of bitumen in products 1300 g/m² for laying roofig shingles and as directed and specified by the Engineer-in-Charge:	sqm	0.00	10.00	10.00				-	-	-	-	-	-	-	-
	Sub Head 10 : Finishing Works Internal Finishes															
	1:4 (1 cement : 4 fine sand) in addition cement compound fibre has to be added in the cement plaster	sqm	17013.60	18175.19	35188.79				-	-	-	-	-		-	-
	15mm cement plaster on the rough side of single or half brick wall of mix															
	1:6 (1 cement : 6 fine sand)			1010=00	10122.00											

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	0 mm cement plaster of mix ;																
152	6(1 cement: 6 Fine sand)	sqm	10.00	10.00	20.00				-	-	-	-	-	-	-	-	-
6	mm cement plaster of mix:																
153	3 (1 cement : 3 fine sand)	sqm	17522.29	17322.10	34844.40				-	-	-	-	-	-	-	-	
V	/hite washing with lime to give an even shade :																
	ew work (three or more coats)	sqm	6553.00	17014.10	23567.10				-	-	-	-	-	-	-	-	
	olour washing such as green, blue or buff to give an even shade. New work wo or more coats) with a base coat of white washing with lime	sqm	810.00	0.00	810.00				-	-	-	-	-	-	-	-	
	istempering with oil bound washable distemper of approved brand and anufacture to give an even shade:																
N	ew work (two or more coats) over and including water thinnable priming out with cement primer	sqm	2246.00	9883.10	12129.10				-	-	-	-	-	-	-	-	
F	inishing walls with water proofing cement paint of required shade:																
156 N	ew work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	12618.37	3139.52	15757.90				-	-	-	-	-	-	-	-	
A	pplying priming coat /ith ready mixed pink or Grey primer of approved brand																
	and manufacture on wood work (hard and soft wood)	sqm	61.00	65.00	126.00				-	-	-	-	-	-	-	-	
158 W	7ith ready mixed red oxide zinc chromate primer of approved brand and anufacture on steel galvanised iron/steel works	sqm	810.00	91.00	901.00				-	-	-	-	-	-	-	-	
	/ith ready mixed red oxide zinc chromate primer of approved brand and anufacture on steel work (second coat)	l sqm	100.00	121.00	221.00				-	-	-	-	-	-	-	-	
V	Vall painting with acrylic emulsion paint of approved brand and manufacture	;															
to	give an even shade : wo or more coats on new work		3150.00	1431.00	4581.00												
		sqm	3130.00	1431.00	4381.00				-	-	-	-	-	-	-	-	
	ainting with synthetic enamel paint of approved brand and manufacture to ive an even shade:)															
161 T	wo or more coats on new work	sqm	278.81	239.81	518.63				-	-	-	-	-	-	-	-	
D	waviding and applying white assessed based mutty of average this mass I was																
O	roviding and applying white cement based putty of average thickness1 mm, f approved brand and manufacturer, over the plastered wall surface to repare the surface even and smooth complete.		12444.00	12317.64	24761.64				-	-	-	-	-	-	-	-	
O	ristempering with 1st quality acrylic distemper, having VOC (Volatile rganic Compound) content less than 50 grams/litre, of approved brand and anufacture, including applying additional coats wherever required, to	l															
	chieve even shade and colour. wo Coat	sqm	73.74	88.00	161.74				-	-	-	-	-	-	-	-	
C	Vall painting with acrylic emulsion paint, having VOC (Volatile Organic ompound) content less than 50 grams/ litre, of approved brand and nanufacture, including applying additional coats wherever required, to																
	chieve even shade and colour. Two coats	COMM	10992.00	11298.00	22290.00				_		_		_	_	_		
	olyurethane Paint	sqm sqm	1120.00	1609.00	2729.00				-		-	-	-	-	-	-	
	NTIBACTERIAL ACRYLIC EMULSION PAINT	sqm	279.00	217.64	496.64				-	<u> </u>	-	-	-	-	-	-	
F	xternal Finishes																
1:	8 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 cement : 3 coarse sand) in addition cement compound fibre has to be		100000	14021	2222												
167 a	dded in the cement plaster finished rough with sponge	sqm	12931.74	11064.25	23995.99				-	-	-	-	-	-	-	-	
	xtra for plastering exterior walls of height more than 10 m from ground	gam	33/30 00	16180.00	49610.00												
168 le	evel for every additional height of 3 m or part thereof.	sqm	33430.00	10180.00	49010.00				-	-	-	-	-	-	-	-	

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169	Moulded Band	cm/metre	2977.60	3693.01	6670.61				-	-	-	-	-	-	-	-	-
	Finishing walls with textured exterior paint of required shade:																
170	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	sqm	6540.20	5468.13	12008.33				-	-	-	-	-	-	-	-	-
	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.																
171	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	13687.00	10969.00	24656.00				-	-	-	-	-	-	-	-	-
172	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	2255.00	1803.07	4058.07				-	-	-	-	-	-	-	-	-
173	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	sam	1377.48	2075.00	3452.48				-	-	-	-	-	-	-	-	-
	Sub Head 11 : Road Work																
174	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.	sam	3660.00	5573.00	9233.00				-	-	-	-	-	-	-	-	_
175	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	1830.00	2787.00	4617.00				-	-	-	-	-	-	-	-	-
	Supplying and stacking at site.																
176	Good earth	cum	1830.00	2787.00	4617.00				-	-	-	-	-	-	-	-	-
	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.																
177	With road roller/ hand roller	sqm	442.00	839.35	1281.35				-	-	-	-	-	-	-	-	-
178	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	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
	75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with :																
179	Stone aggregate 40 mm nominal size	sqm	0.00	510.00	510.00				-	-	-	-	-	-	-	-	-
	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.																
180	150mm Dia	metre	270.00	270.00	540.00				-	-	-	-	-	-	-	-	-
181	300mm Dia	metre	135.00	135.00	270.00				-	-	-	-	-	-	-	-	-
	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.																
182	New work (Two or more coats)	sqm	57.00	156.00	213.00				-	-	-	-	-	-	-	-	-

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183	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	50.00	50.00	100.00				-	-	-	-	-	-	-	-	-
184	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 (1cement: 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	57.00	20.00	77.00				-	-	-	-	-	-	-	-	-
	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.																
185	Made of G.I. wire of dia 4 mm	sqm	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
	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	998.64	385.29	1383.93				-	-	-	-	-	-	-	-	-
187	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-incharge. (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	443.00	87.00	530.00				-	-	-	-	-	-	-	-	-
	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.																
188	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30.	cum	915.00	1394.00	2309.00				-	-	-	-	-	-	-	-	-
189	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	778.00	1084.00	1862.00				-	-	-	-	-	-	-	_	-
190	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	0.00	40.59	40.59				-	-	-	-	-		-	-	-
191	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).		0.00	180.41	180.41				-	-	-	-	-	-	-	-	-

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SE. HO	Description of Item	Cint	District Hospital		Total Quantity		Figures only)	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)
192	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 Engineerin- charge.	cum	166.00	44.00	210.00				-	-	-	-	-	-	-	-	-
	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). Dark shade pigment using ordinary cement																
193	Dark snade pigment using ordinary cement	sqm	0.00	1450.00	1450.00				-	-	-	-	-	-	-	-	-
	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	550.00	1238.00	1788.00				-	-	-	-	-	-	-	-	-
195	80 mm thick C.C. paver block of M-30 grade with approved color design and	sqm	3110.00	3900.00	7010.00				-	-	-	-	-	-	-	-	-
	Rectangular type with openable circular lid																
196	150 mm nominal size square 100 mm diametre of the inner hinged round grating	each	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
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	sqm	129.00	103.00	232.00				-	-	-	-	-	-	-	-	-
	direction of Engineer-in-Charge.																
	Sub Head 12 : Pilework																
	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-30 of specified diametre 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).																
196	600mm dia. piles,	metre	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
199	750mm dia. piles,	metre	5770.00	6488.00	12258.00				-	-	-	-	-	-	-	-	-
	Steel Reinforcement for R.C.C. work including straightening. cutting.																

SL. no	Description of Item																
	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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
200 Thermo	no-Mechanically Treated bars of grade Fe-500D or more.	kg	203825.25	229360.00	433185.25				-	-	-	-	-	-	-	-	-
installa prepara	cal load testing of piles in accordance with IS 2911 (Part IV) including lation of loading platform by Kentledge/Anchor piles method and ration of pile head or construction of test cap and dismantling of test cap test etc. complete as per specification & the direction of Engineer interest.																
method note: 2	 Initial and Routine Load Test shall not be carried out by Dynamic od of testing. Testing agency shall submit the design of loading platform for the val of Engineer-in-charge. 																
Single	e pile above 50 tonne and upto 100 tonne Safe capacity																
201 Initial	test (Test Load 2.5 times the Safe capacity)	Per Test	7.00	9.00	16.00				-	-	-	-	-	-	-	-	-
202 Routin	ne test (Test Load 1.5 times the Safe capacity)	Per Test	7.00	9.00	16.00				-	-	-	-	-	_	-	-	-
Single	e pile above 100 tonne Safe capacity																
Test m pile top use of	rity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo method in accordance with IS 14893 including surface preparation of up by removing soil, mud, dust & chipping lean concrete lumps etc. and f computerised equipment and high skill trained personal for conducting st & submission of results, all complete as per direction of Engineer-in-	Per Test	7.00	9.00	16.00				-	-	-	-	-	-	-	-	-
judicio	:- The inclusion of the above item in the schedule of work shall be ously decided by the technical sanctioning authority, keeping in view nality control, type of soil strata & importance of the project.																
Sub F	Head 13 : Aluminium & Glass Works																
partition section 1285, 1 filling EPDM free, stocked a stainles direction	ding and fixing aluminium work for doors, windows, ventilators and dons with extruded built up standard tubular sections/ appropriate Z ns and other sections of approved make conforming to IS: 733 and IS: fixing with dash fasteners of required dia and size, including necessary to up the gaps at junctions, i.e. at top, bottom and sides with required of M rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust straight, mitred and jointed mechanically wherever required including angle, Aluminium snap beading for glazing / paneling, C.P. brass / dess steel screws, all complete as per architectural drawings and the ions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be for separately):																
	xed portion er coated aluminium (minimum thickness of powder coating 50 micron)	kg	4533.00	3882.00	8415.00				-	-	-	-	-	-	-	-	-
hinges/includi	nutters of doors, windows & ventilators including providing and fixing s/ pivots and making provision for fixing of fittings wherever required ling the cost of EPDM rubber / neoprene gasket required (Fittings shall id for separately)																
Powde 205	er coated aluminium (minimum thickness of powder coating 50 micron)	kg	2093.00	1615.00	3708.00				-	-	-	-	-	-	-	-	-
three last Type II frames	ding and fixing 12 mm thick prelaminated particle board flat pressed layer or graded wood particle board conforming to IS:12823 Grade I II, in panelling fixed in aluminum doors, windows shutters and partition s with C.P. brass / stainless steel screws etc. complete as per ectural drawings and directions of engineerin-charge.																
206 Pre-lan	minated particle board with decorative lamination on both sides	sqm	1095.00	1016.00	2111.00				-	-	-	-	-	-	-	-	-
shutter include	ding and fixing 6mm thick toughened glass in door/ window frame or frame with necessary fixing accessories etc to complete. Rate shall le all material, labour, transport, taxes, all lead, lift etc to complete the (The door and window frame / shutter frame, beading are to be paid ately)																
207 With to kg/sqm	toughned glass panes of 6 mm thickness (weight not less than 12.50 m)	sqm	731.92	814.88	1546.80				-	-	-	-	-	-	-	-	-

							Rate										
GI		T1 .*4	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	District Hospital		Total Quantity	Figures only)	Figures only)	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 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:																
208	With stainless steel cover plate - minimum 1.25 mm thickness	each	66.00	50.00	116.00				-	-	-	-	-	-	-	-	-
	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.																
209	Upto 5mm depth and 5 mm width	metre	4208.52	3996.00	8204.52				-	-	-	-	-	-	-	-	-
	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.																
210	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	each	3.00	2.00	5.00				-	-	-	-	-	-	-	-	-
211	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	22.00				-	-	-	-	-	-	-	-	-
212	Aluminium Aldrop 250mm Long 1no	each	195.00	144.00	339.00				-	-	-	-	-	-	-	-	-
213	Exhaust fan (250mm dia)	nos	46.00	0.00	46.00				-	-	-	-	-	-	-	-	-
	Sub Head 14 : Waterproofing Works																
214	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, reservior, 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-	sqm	2723.13	1963.16	4686.29				-	-	-	-	-	-	-	-	-
	in-charge. The product performance shall carry guarantee for 10 years against any leakage.																

Boding of the property of the control of the property of the pro	SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
The control of the co	~2. HV	2 cost sprior of Atom	J-111	District	District Total Quantity	y Figures	Figures	Figures			, -				INR (in Figures only)	JPY (in Figures only)	USI
235 mm. 440 160 Hours in prairies estable PVC testes soon as confirmancing to the confirmation of the conf		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-															
PS.1200 for contraction of expression points between two ACC members and forcid to the restriction build (30 mm wide, 8 mm filids) The ball with extential build (30 mm wide, 8 mm filids) The princing and applying integed expetitions latery of hydroglation in nature for waterproofing transment in the ECC utractures like restaining walls of fee waterproofing transment in the ECC utractures like restaining walls of fee waterproofing transment in the ECC utractures like restaining walls of fee waterproofing transment in the ECC utractures like restaining walls of the sucrement waterproofing transment in the ECC utractures like restaining walls of the water feel of the sucrement water feel of the	215		sqm	5693.25	3746.78 9440.03				-	-	-		_	-	-	-	
Providing and applying imageal crystallines alterny of hydrophilic in nature for stategooding tentrates to the ICC structures like retaining walls of the bassement, where the active control is the stategooding tentrates to the ICC structures like retaining walls of the bassement, where the active control is the control is a stategooding tentrated to the ICC structures like retaining walls of the bassement, where the control is a stategooding retained and problems (for example of the stategooding retained and problems). The stategooding retained and problems (for example control is a stategooding retained and problems) and the stategooding retained and problems (for example control is a stategooding retained and problems). The stategooding retained and problems (for example control is a stategooding retained and problems (for example control is a stategooding retained and problems). The stategooding retained and problems (for example control is a stategooding retained and problems) and problems (for example control is a stategooding retained and problems). The stategooding retained and problems (for example control is a stategooding retained and problems) and problems (for example control is a stategooding retained and problems). The stategooding retained and problems (for example control is a stategooding retained and problems) and problems (for example control is a stategooding retained and problems). The stategooding retained and problems (for example control is a stategooding retained and problems) and the stategooding retained and problems (for example control is a stategooding retained and problems) and the stategooding retained and problems (for example control is a stategooding retained and problems) and the stategooding retained and problems (for example control is a stategooding retained and problems) and the stategooding retained and problems (for example control is a stategooding retained and problems) and the stategooding retained and problems (for example control is a stategooding retained and prob		Providing and Placing in position suitable PVC water stops confometreing to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc.															
waterproofing treatment to the RCC structures like retaining walls of the basement, saker tanks, root slabs, podature, secretic, swage & water treatment plant, transfer showing and bridge desk ear, prepared by naking in the most of \$2.15 pers integral explaining starry or part vator) for most of the properties of the	216		metre	411.00	262.00 673.00				-	-	-	-	-	-	-	-	
218 For horizontal surface one coat @1.10 kg per sqm. sqm 745.78 530.12 1275.90 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. 219 cach 50.00 50.00 100.00		waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, 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															
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.	217	For vertical surface two coats @ 0.70 kg per sqm	sqm	205.91	205.63 411.54				-	-	-	-	-	-	-	-	
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.	218	For horizontal surface one coat @1.10 kg per sqm.	sqm	745.78	530.12 1275.90				-	-	-	-	-	-	-	-	
Sub Hood 15 : Structural Clazing And Aluminium Composite Panel	219	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	each	50.00	50.00 100.00				-	-	-	-	-	-	-	-	
Sub freau 15. Structural Giazing And Aldminidin Composite Fanci		Sub Head 15 : Structural Glazing And Aluminium Composite Panel															

						Rate											
SL. no Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total		
		District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 o	nly) USD (i	n Figures only)
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 confometreing to AAMA 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	2119.57	919.80	3039.37				-	-	-	-	-	-	-		-	-
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 perimetre 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.																	

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SL. no Description of Item	Unit	Silchar District	Udalguri District Total Quantity	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
		Hospital	Hospital Total Quantity	Figures only)	Figures only)	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 onl
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.	n y of													
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 accreditated 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	e or & g «,													
1. Performance Laboratory Test for Air Leakage Test (-50pa to -300pa) & (+50pa to +3pa) 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."	9													
3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01-0. testing method for a range upto 2000 ml"	5													
4. Structural Performance Deflection and deformation by static air pressur 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	g													
6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kp (35psi) upto 2000ml"	sqm	404.00	184.00 588.00				-	-	-	-	-	-	-	-
Providing and supplying Spandrel Glass Panels comprising of 6 mm thich heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc., all complet for the required performances as specified, as per the Architectural drawings as per the approved shop drawings, as specified, and as directed by the Engineer- in Charge. (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 K etc.Th	h oo ee sqm	404.00	184.00 588.00				-	-	_	-	-	-	-	-
properties of performance glass shall be decided by technical sanctioning authority as per the site requirement	g													
Sub Head 16 : Rebaring														
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 epoxyresin anchor grout of approved make but excluding the cost of reinforcement all complete as per direction of Engineer-In-Charge.	C or y													
Upto and including 12mm dia.	each	100.00	150.00 250.00				-	-	-	-	-	-	-	
Providing, mixing and applying bonding coat of approved adhesive of chipped portion of RCC as per specifications and direction of Engineer-In charge complete in all respect.														
Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	sqm	100.00	150.00 250.00				-	-	-	-	-	-	-	-
Providing and fixing of pressure relief valve by using U-PVC pipes110mr diameter pipe at RCC base raft slab to a spacing of 4m c/c and rigidly fixe with raft reinforcement. the cost including Filter media 40 mm size aggregat below the pressure relief U-PVC pipe, the pipe hole shall be sealed / groute with high strength micro silica concrete, and Labour charge etc., complet	d ee d	0.00	0.00 0.00				_	_	_	_	_	_	_	_
with high strength micro silica concrete, and Labour charge etc., complet and as per technical specification, drawing and engineer's direction.	e mos	0.00	0.00 0.00				_	-	-		_	_	_	

State Description of from Description Description of from Description Description of from Descri										Rate						
Sub Tread 18: Genmen Elevation Wark FR GRADE - FRP PANIT Providing and Fixing of PREF PECMINITID TO DESIMED CaLOUR - FAV (Thrs. Reinforced polyster sain platios exceptions before the grant and materials and several results of the state of the state of respired size at special section. The proof shall be recorded from national UN Estates of Payarks (From Reinforced polyster sain platios exceptions where the works are stated from national UN Estates and the security floating. All the stated from national UN Estates of Payarks (From Reinforced polyster sain platios exceptions where the state of required size at special Sections. The model when all symmetry and the security floating and results are supported made to be admitted to the established security floating and results of required size at special Sections. The model when all symmetry and the security floating and results of respired size at special Sections. The model when all symmetry and the security floating and results of respired size at special Sections. The model when all symmetry and the security floating and results of respired size at special Sections. The model when all symmetry and the security floating and results of the state of respired size at special Sections. The model when all symmetry and the security floating and results are special Sections. The model when all symmetry and the security floating and results are special Sections. The model when all symmetry and the security floating and the security	Total			Udalguri DH			Silchar DH		USD (in	IDV (in	IND (in		Udolauri	Silohar	II:t	SI no Description of Item
FIR GRADE - FRP PANEL - Providing and Exing of PRE PICMENTED TO DESIRED COLOR - FRP (Fibre Residenced polyseur resis plastic composits Planch in 3 mm that Knisheds - weight S span, fire ringia (class B as per ASTM B shalte, pottern, design, and colour of approved make to be fixed on BRICK / RCC - BRICK - RCC - Broke Norm materials UV Resistant, between on Faquel. The point shall be exempt fixed to the resident with the panel shall be exempt fixed to the residents and shall be exempt fixed to the residents from the plant shall be exempt fixed to the residents the cost of severen, asobre fixed results fixed to the residents the cost of severen, asobre fixed results fixed to the residents to the plant shall be exempt, for all heights in the elevation AS PIRL LAYER IV LAYER TECHNIQUE USED BY GPRC FACADES - PANEL. Nub Head 17: Stone Column Stone Column (response to residence to the sone columns) as per specification. 227 and all execution is a lateral to this re- sone column from the sone columns are after the works are complete. Ground Improvement Works using Vibra Stone Columns: Ground Improvement Works using Vibra Stone Columns: Ground Improvement Works using Vibra Stone Columns: Stone Column (response to the sone columns) and the provided in the sone columns are after the works are complete. Ground Improvement Works using Vibra Stone Columns: Stone Column (response to the sone columns) and the sone columns are after the works are complete. Stone Column (response to the sone columns) and the sone columns are after the works are complete. Stone Column (response to the sone columns) and the sone columns are after the works are complete. Stone Column (response to the sone column) and the sone column (response to the sone column) are after the works are complete. Stone Column (response to the sone column) and the sone column (response to the sone column) are after the works are comple	only) JPY (in Figures only) USD (in Figures only	S INR (in Figures only)				, -		, -	Figures	Figures	Figures	Total Quantity	District	District	Omt	SL. no Description of Item
DESIRED CALOUR - FRP (Fibre Reinforced polyseter resin plantic composite Plants in Stum thesk finished, veglet 85 sqm. fire rating Class B as per ASTM E Hakire, pattern, design, and colour of approved make to be fixed on BRICK / RCC. Block own Column or streatural seed work with Day Fixing method with all appropriate, fasteness for fixing, and necessary hardware on Faquel. The panel shall be securely fixed to the available stream of required sizes it specified locations. This methods the cost of servers, another fasteness, labour charges for fixing, for all heights in the elevation. AS PER LAYER BY LAYER TLCHNIQUE USED BY GIRC FACADES - PANEL Sub Head 17: Stone Column Stone Column / Ground Improvement Providing all material, tools, tackles, plant, equipment etc., and all excessories required the construction of the stone columns ground improvement as per specification. Mobilisation of adequate number of rigs, tools, tackles, plant, equipment etc., and all excessories required the construction of the stone columns ground improvement as per specifications and demobilising the same after the works are complete. Ground Improvement Works using Vibro Stone Columns: Ground Improvement Works using Vibro Stone Columns: nos. 0.00 1050.00 1050.00																Sub Head 18 : Gamusa Elevation Work
Stone Column / Ground Improvement 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. Ground Improvement Works using Vibro Stone Columns: 900mm diametre Stone Columns installed by Wet Vibro top Feed displacement method nos. 0.00 1050.	-		-	-	-	-	-	-				300.00	150.00	150.00	sqm	DESIRED CoLOUR - FRP (Fibre Reinforced polyester resin plastic composite) Panels 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
Stone Column / Ground Improvement 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. Ground Improvement Works using Vibro Stone Columns: 900mm diametre Stone Columns installed by Wet Vibro top Feed displacement method nos. 0.00 1050.																Sub Head 17 : Stone Column
228 900mm diametre Stone Columns installed by Wet Vibro top Feed nos. 0.00 1050.00 1050.00			-	-	-	-	-	-				1.00	1.00	0.00	LS	Stone Column / Ground Improvement 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
228 900mm diametre Stone Columns installed by Wet Vibro top Feed nos. 0.00 1050.00																Chound Improvement World using Vibra Stone Columns
Conducting accurate survey to locate all the stone columns in correct location			-	-	-	-	-	-				1050.00	1050.00	0.00	nos.	900mm diametre Stone Columns installed by Wet Vibro top Feed
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.																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
Stone Columns below Raft Foundation for enhancement of NET SBC & Liquefaction Mitigation:																
a)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 termination 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 metre 0.00 9975.00 9975.00			_		_	_	-	_				9975.00	9975.00	0.00	metre	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 termination 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 = 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 confirmed by carrying out ECPT Test.																improvement should achieve a) Allowable Bearing Pressure = 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 confirmed by carrying out
b)Empty Boring for installation of 900mm Vibro Stone Columns Note: Depth of empty boring for stone column shall be measured from Existing Ground Level/Working Platform Level to top of Cut off level of column. Empty Bore (if any) shall be filled with available earth within the site. 0.00 2993.00 299			-	-	-	-	-	-				2993.00	2993.00	0.00	metre	Note: Depth of empty boring for stone column shall be measured from Existing Ground Level/Working Platform Level to top of Cut off level of column. Empty Bore (if any) shall be filled with available earth within the

SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. NO	Description of Item	Unit	District Hospital		Total Quantity	Figures only)	Figures only)	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
231	Stone Sand Blanket The stone sand blanket shall be laid over the top of the stone columns or below Raft 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	0.00	2658.00	2658.00				-	-	-	-	-	-	-	-	
	Initial Load Test (Single and Group Column Test)																
2.3.2	Single Column Plate Load Test(to be carried out outside the raft foot print area)	nos.	0.00	1.00	1.00				-	-	-	-	-	-	-	-	
	Carrying out specified no of initial plate load tests on single columns (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 5 T/m2. The test should be carried out through a reputed agency (wih 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.																
2.3.3	Group Column Plate Load Test (to be carried out outside the raft foot print area)	nos.	0.00	1.00	1.00				-	-	-	-	-	-	-	-	
	Carrying out specified no of initial plate load tests on a group of stone columns (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 5 T/m2. The test should be carried out through a reputed agency (wih 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.																
	Routine Load Test (Single and Group Column Test)																
234	Single Column Plate Load Test	nos.	0.00	3.00	3.00				-	-	-	-	-	-	-	-	
	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 5 T/m2. The test should be carried out through a reputed agency (wih 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.																
235	Group Column Plate Load Test	nos.	0.00	2.00	2.00				-	-	-	-	-	-	-	-	
	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 5 T/m2. The test should be carried out through a reputed agency (wih 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.																

							Rate										
										Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District	Udalguri District	Total Quantity	INR (in Figures	JPY (in Figures	USD (in Figures									
			Hospital	Hospital	Total Quantity	only)	only)	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)
236	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 (wih 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.		0.00	6.00	6.00				-	-	-	-	-	-	-	-	-
	Sub Head 19 : Signages																
	Interior																
	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.																
237	ILLUSION C-80,ROOM NUMBER 80X120	each	387	510.00	897.00				-	-	-	-	-	-	-	-	-
238	ILLUSION C-80, NAME PLATE 80X300	each	110	112.00	222.00				-	-	-	-	-	-	-	-	-
239	DEPARTMENT NAME PLATE 150X600 ILLUSION C-80, DESIGNATION PLATE 80X300	each	140	280.00	420.00				-	-	-	-	-	-	-	-	-
	ILLUSION C-120,DOOR PLATE TOILET 120X150	each	44	45.00	89.00				-	-	-	-	-	-	-	-	-
2	ILLUSION C-120,DOOR PLATE LADIES TOILET 120X150	each each	39 12	36.00 17.00	75.00 29.00				-	-	-	-	-	-	-	-	-
	ILLUSION C-120, DOOR PLATE GENTS TOILET 120X150	each	12	17.00	29.00				-	-	-	-	-		-	-	
2.13	ILLUSION C-120, DOOR PLATE HANDICAP TOILET 120X150	each	6	13.00	19.00					_	_	_			_	_	
· ·	ILLUSION C-80, ELECTRICAL PANEL 80X400	each	7	5.00	12.00				_	_	_	_	_	_	_	-	_
	ILLUSION C-40, WORK STATION NAME PLATES 40X250	each	24	35.00	59.00				-	-	_	-	_	_	_	-	_
247	DRINKING WATER 210X300	each	23	25.00	48.00				-	-	_	-	-	_	-	-	-
248	AUTHORISED PERSONAL ONLY 120X120	each	39	47.00	86.00				-	-	-	-	-	-	-	-	-
	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 priscribed location with the help of wooden dowels, and required adhesive, as per drawing.																
249	MAIN DIRECTORY 1200X600	each	18.00	26.00	44.00				-	-	-	-	-	-	-	-	-
250	FLOOR DIRECTORY 550X300	each	16.00	26.00	42.00				-	-	-	-	-	-	-	-	-
250	FLOOR LEVEL 550X300	each	14.00	69.00	83.00				-	-	-	-	-	-	-	-	-
251	CANTEEN 375X300	each	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
	Providing and fixing of Photoluminescent, 1mm rigid pvc based sheet containg lumingen 3, as base chemical, with high intensity luminous glow capacity.																
252	PHOTOLUMINESCENT SIGN , FIRE HOSE 250X200	each	12.00	30.00	42.00				-	-	-	-	-	-	-	-	-
253	PHOTOLUMINESCENT SIGN,EXIT SIGN D-10 100X300	each	32.00	9.00	41.00				-	-	-	-	-	-	-	-	-
254	PHOTOLUMINESCENT SIGN,FIRE ALARM CALL POINT 150X200	each	21.00	30.00	51.00				-	-	-	-	-	-	-	-	-
255	PHOTOLUMINESCENT SIGN, EVACUATION PLAN 200X300	each	18.00	30.00	48.00				-	-	-	-	-	-	-	-	-
256	PHOTOLUMINESCENT SIGN,PULL AND PUSH 90MM DIA	each	67.00	92.00	159.00				-	-	-	-	-	-	-	-	-
	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																
257	ELEVATOR DISCLAIMER PLATE 250X250	each	18.00	20.00	38.00				-	-	-	-	-	-	-	-	-
	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.																

										Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures	JPY (in Figures	USD (in Figures	INR (in Figures	JPY (in Figures	USD (in Figures	INR (in Figures only)	JPY (in Figures only)	USD (in Figures o
260	KEEP SILENCE/PL SWITCH OFF MOBILE 200X200	each	15.00	24.00	39.00	-			only)	only)	only)	only)	only)	only)	-	-	(
	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 .																
201	CEILLING DRIECTION SIGN BOARD 300x1200 DIRECTION ARROWS 300x400	each	17.00	45.00	62.00				-	-	-	-	-	-	-	-	
262	DIRECTION ARROWS 500x400	each	6.00	69.00	75.00				-	-	-	-	-	-	-	-	
	Traffic Safety and Parking Solutions																
263	Chevron Marking wall - in 107.15RM * 1.2m Height	sqm	129.00	129.00	258.00				-	-	-	-	-	-	-	-	
264	Reflector Road Stud	each	56.00	56.00	112.00				-	-	-	-	-	-	-	-	
265	Speed Breaker	metre.	47.70	47.70	95.40				-	-	-	-	-	-	-	-	
266	Traffice Cone	each	15.00	15.00	30.00				-	-	_		-	-	-	-	
267	Column Corner Guard	each	250.00	250.00	500.00				-		-		_	-	-	_	
					8.00												
	Informative Sign Board	each	4.00	4.00					-	-	-	-	-	-	-	-	
269	Go Slow Signage - Circular	each	11.00	11.00	22.00				-	-	-	-	-	-	-	-	
270	Car Parking Bay - 400m x 0.1m	sqm	40.00	40.00	80.00				-	-	-	-	-	-	-	-	
271	Two Wheelar Parking Bay - 285m x 0.1m	sqm	29.00	29.00	58.00				-	-	-	-	-	-	-	-	
	Sub Haed 20 : Horticulture																
272	Grass Areas Mixing earth and sludge or manure in the required proportion specified or	cum	1004.00	1000.00	2004.00				_		_		_	_		_	
	directed by the Officer-in-charge		1001100	100000	2001100												
213	Flooding the ground with water including making kiaries and dismantling the same.	sqm	2510.00	2500.00	5010.00				-	-	-	-	-	-	-	-	
274	Fine dressing the ground	sam	2510.00	2500.00	5010.00												
2/4		sqm	2310.00	2300.00	3010.00				-	-	-	-	-	-	-	-	
275	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	2510.00	2500.00	5010.00				-	-	-	-	-	-	-	-	
	TREES																
	Pit Preparation 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).																
	Holes 1.2 m dia and 1.2 m deep	each	42.00	40.00	82.00				-	-							
	Holes 90 cm dia, and 90 cm deep	each	1458.00	1412.00	2870.00				-	-	-	-	-	-	-	-	
	Providing and stacking Planting best quality container/bag- grown healthy trees of speciesand height as specified. All trees to be approved before planting. Inclusive of Maintenance (as specified in section I, item 6.2) for one year after planting. Botanical name/ Common name																
278	TREES Royal palm	nos	33.00	33.00	66.00				-	-							
	Plumeria alba Heterophragma adenophyllum	nos	2.00	4.00 2.00	8.00 4.00				-	-		-					
	SHRUBS																
	Pit Preparation 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.																

		-			T		Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 onl
	Supply and plantation 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 I, item 6.2) for one year after planting.																
	Botanical name/ Common name																
	SHRUBS Agloanema plants - Green	nos.	166	166	332.00				-		_	-		_	_	_	
284	Acalypha plants - red	nos.	66	66	132.00				-	-	-	-	-	-	-	-	
	Arica Plam	nos.	30	30	60.00				-	-	-	-	-	-	-	-	
	Ixora Dwarf Ficus Black	nos.	233	233	466.00				-	-	-	-	-	-	-		
,	Hibiscus rosa sinensis (hybrid)	nos.	777 62	777	1554.00 124.00				-	-	-	-	-	-	-	-	
	Nerium oleander(pink)	nos.	254	62 254	508.00				-	-					-		
	Pit Preparation 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.																
290	i 0.4m x 0.4m Ø	nos.	40.00	55.00	95.00				-	-	-	-	-	-	-	-	
291	i 0.5m x 0.5m Ø	nos.	10.00	20.00	30.00				-	-	-	-	-	-	-	-	
	GROUND COVERS Pit Preparation																
	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.		(0.00	75.00	144.00												
	i .15m x.15m x 0.3m ii .30m x.30m x 0.3m	nos nos	69.00 1324.00	1345.00	2669.00				-	-	-	-	-	-	-	-	
	Supply and plantation																
	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.																
	PLANTING MEDIA MIX MANURE AND SWEET EARTH																
294	Manure for Ground Floor Areas	cum	220.00	220.00	440.00				_	_	_	_	_	_	_	_	
	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	220.00	220.00	110.00												
295	Sweet earth for Ground Floor	cum	715.00	700.00	1415.00				-	-	-	-	-	-	-	-	
	Supply will be provided as/site. Only quote for shifting of sweet earth in the radius of 1Km. Vermi Compost	pag (50															
296		kg per Bag)	75.00	80.00	155.00				-	-	-	-	-	-	-	-	•
297	Sand Supplying spreading and mixing sand for achieveing better soil texture	cum	150.00	150.00	300.00				-	-	-	-	-	-	-	-	
	Cocopeat																
298		cum	90.00	90.00	180.00				_	_	_	-	-	_	_	_	

CT.			G** *	T		TAVE A	TDX 7	FIOD (Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	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 or
299	Mulching	cum	80.00	80.00	160.00					-	-	-		-	-	_	
	Mulching with cocochip																
1	Total Bill no-1 Civil works								-	-	-	-	-	-			
	Bill no-2 PLUMBING WORK																
	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.																
	In stringers, treads, landings etc. of staircases, including use of chequered plate wherever required, all complete	Kg	100.00	120.00	220.00				-	-	-	-	-	-	-	-	
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	25.00	30.00	55.00				-	-	-	-	-	-	-	-	
	Sub Head 22 : Roofing																
302	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	55.00	35.00	90.00				-	-	-	-	-	-	-	-	
	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.																
0.00		metre	176.00	430.00	606.00				-	-	-	-	-	-	-	-	
304	110 mm diameter	metre	776.00	322.50	1098.50				-	-	-	-	-	-	-	-	
	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion.																
	Coupler																
305	75 mm	each	132.00	100.00	232.00				-	-	-	-	-	-	-	-	
306	110 mm	each	198.00	75.00	273.00				-	-	-	-	-	-	-	-	
307	75 mm	each	132.00	100.00	232.00				-	-	-	-	-	-	-	-	
300	110 mm	each	198.00	75.00	273.00				-	-	-	-	-	-	-	-	
307	75x75x75 mm 110x110x110 mm	each	132.00	100.00	232.00				-	-	-	-	-	-	-	-	
310	75x75x75 mm	each	198.00	75.00	273.00				-	-	-	-	-	-	-	-	
311	110x110x110 mm	each	132.00	100.00 75.00	232.00				-	-	-	-	-	-	-	-	
312	75mm bend	each	198.00	100.00	273.00				-	-	-	-	<u> </u>	-	-	-	
313	110 mm bend	each	132.00 198.00	75.00	273.00				-	-	-	-	<u> </u>	-	-	-	
314	75mm Shoe	each	132.00	100.00	232.00				-	-	-	-	-	-	-	-	
	110 mm Shoe	each	198.00	75.00	273.00				_		_	_			_		
	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.	caon	170.00	75.00	213.00												
317	75 mm	each	220.00	160.00	380.00				-	_	_	_	_	_	-	-	
	110 mm																
318	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15	each	330.00	120.00	450.00				-	-	-	-	-	-	-	-	
319	cm diameter and weighing not less than 440 grams.	each	55.00	35.00	90.00				-	-	-	-	-	-	-	-	

									Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Total Quantity Hospital	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures	JPY (in Figures	USD (in Figures	INR (in Figures	JPY (in Figures	USD (in Figures	INR (in Figures only)	JPY (in Figures only)	USD (in Figures
	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:							only)	only)	only)	only)	only)	only)			
	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.	each	21.00	17.00 38.00				-	-	-	-	-	-	-	-	
	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing eistern & 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:															
321	W.C. pan with ISI marked white solid plastic seat and lid	each	103.00	69.00 172.00				-	-	-	-	-	-	-	-	
	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 required:															
322	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	33.00	20.00 53.00				-	-	-	-	-	-	-	-	
323	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		36.00	15.00 51.00				-	-	-	-	-	-	-	-	
324	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	71.00	69.00 140.00				-	-	-	-	-	-	-	-	
325	Flat back large urinals: 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.		27.00	22.00 49.00				-	-	-	-	-	-	-	-	
226	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink 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:															
327	Kitchen sink with drain board 510x1040 mm bowl depth 200 mm 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:	each	9.00	7.00 16.00				-	-	-	-	-	-	-	-	
	Size 450x300x150 mm	each	28.00	31.00 59.00				-	-	-	-	-	-	-	-	
32)	Size 600x450x200 mm Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	each	8.00 36.00	18.00 26.00 15.00 51.00				-	-	-	-	-	-	-	-	
	Providing and fixing P.V.C. waste pipe for sink or wash basin including															
	P.V.C. waste fittings complete. Semi rigid pipe															
331	40 mm dia Flexible Pipe	each	28.00	31.00 59.00				-	-	-	-	-	-	-	-	
	32 mm dia - Providing and fixing PTMT Bottle Trap for Wash basin and sink.	each	33.00	20.00 53.00				-	-	-	-	-	-	-	-	

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District 'Hospital	Total Quantity	Figures only)	Figures only)	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)
	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		8.00	18.00	26.00				-	-	-	-	-	-	-	-	-
335	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.		45.00	56.00	101.00				-	-	-	-	-	-	-	-	-
226	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		103.00	69.00	172.00				-	-	-	-	-	-	-	-	-
337	C.P.Brass Health faucet: Supply, fixing, testing and commissioning of HAND SHOWER (Health Faucet) near EWC consisting of 1mtrs. Long C.P. flexible tube with wall hook with all fittings and fixtures complete conforming to IS standards.	;	103.00	69.00	172.00				-	-	-	-	-	-	-	-	-
338	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		36.00	15.00	51.00				-	-	-	-	-	-	-	-	-
	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.																
	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	36.00	15.00	51.00				-	-	-	-	-	-	-	-	-
340	Providing and fixing of star white EWC and low level cistern of 6 litre capacity, angle valve with riser pipe with fiitings and seat cover and icluding of wall hung compact washbasin of size 46x36cm fixed to wall with brackets, 1 nos.of angle valve with riser pipes, connectors, adopters, all fittings and one hinged rail of 76cm with one pair of mounting brackets and 5Nos 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	12.00	7.00	19.00				-	-	-	-	-	-	-	-	-
	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.		117.00	84.00	201.00				-	-	-	-	-	-	-	-	-
	Providing and fixing M.S. holder-bat clamps of approved design to Centrifugally 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. :																
	For 100 mm dia. Pipe For 75 mm dia. Pipe	each	240.00 300.00	90.00 150.00	330.00 450.00				-	-		-	-		-	-	-
	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) :		500.00	155.00	150,00												
	100 mm dia 75 mm dia	metre metre	240.00 300.00	90.00 150.00	330.00 450.00				-	-	-	-	-	-	-	-	-
346	Level Indicator : 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 fittings, connectors, adopters etc. all effective proper connections.		6.00	5.00	11.00				-	-	-	-	-	-	-	-	-
347	Floor trap Grating: Supplying and fixing of Square & Round (125x125mm) aproximately Stainless Steel grating including GI hopper for connection of wash basin/ urinal with fittings, connectors & adopters.and all fittings etc., complete.	each	312.00	150.00	462.00				-	-	-	-	-	-	-	-	-
348	Floor Clean out: 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 Providing Fixing well mounted Double Coat book, on door complete.	each	28.00	40.00	68.00				-	-	-	-	-	-	-	-	-
349	Providing, Fixing wall mounted Double Coat hook on door complete.	each	162.00	117.00	279.00				-	-	-	-	-	-	-	-	-

							Rate										
SL. no	Description of Item	Unit	Silchar District	Udalguri District T	Total Quantity	INR (in	JPY (in Figures	USD (in Figures		Silchar DH			Udalguri DH			Total	
			Hospital	Hospital	otai Quantity	Figures only)	only)	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	5															
2.70	Internal work - Exposed on wall		414.00	240.00	7.62.00												
350 351	15 mm nominal outer dia Pipes 20 mm nominal outer dia Pipes	metre metre	414.00 330.00	349.00 287.00	763.00 617.00				-	-			-	-		-	-
352	25 mm nominal outer dia Pipes	metre	1632.00	1438.00	3070.00				-	-			_			-	_
353	32 mm nominal outer dia Pipes	metre	468.00	375.00	843.00				-	-	-	-	-	-	-	-	-
	40 mm nominal outer dia Pipes	metre	345.00	238.00	583.00				-	-	-	-	-	-	-	-	-
355	50 mm nominal outer dia Pipes	metre	230.00	179.00	409.00				-	-	-	-	-	-	-	-	-
	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.																
356	Internal work - Exposed on wall 65 mm nominal outer dia Pipes	metre	77.00	185.00	262.00				_	_	_	_	_	_	-	_	_
357	80 mm nominal outer dia Pipes	metre	40.00	120.00	160.00				-	-			-			-	-
358	100 mm nominal outer dia Pipes 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.	metre	126.00	75.00	201.00				-	-	-	-	-	-	-	-	-
359	Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	metre	414.00	349.00	763.00				-	-	-	-	-	-	-	-	-
360	20 mm nominal outer dia Pipes	metre	929.00	955.00	1884.00				-	-	-	-	-	-	-	-	-
361	25 mm nominal outer dia Pipes	metre	237.00	459.00	696.00				-	-	-	-	-	_	-	-	-
362	32 mm nominal outer dia Pipes 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.		220.00	373.00	593.00				-	-	-	-	-	-	-	-	-
	20 mm tube inner dia Pipes	metre	90.00	75.00	165.00				-	-	-	-	-	-	-	-	-
	25 mm tube inner dia Pipes 35 mm tube inner dia Pipes	metre	90.00	75.00	165.00				-	-		-	-	-	-	-	-
365 366	42 mm tube inner dia Pipes	metre	55.00 65.00	45.00 80.00	100.00 145.00				-	-		-	-	-	-	-	-
300	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall	metre	63.00						-	-	-	-	-	-	-	-	-
	20 mm nominal outer dia Pipes 25 mm nominal outer dia Pipes	metre	90.00	75.00	165.00				-	-			-	-	-	-	-
368	32 mm nominal outer dia Pipes	metre metre	90.00 55.00	75.00 45.00	165.00 100.00				-	-		-	-	-		-	-
370	40 mm nominal outer dia Pipes	metre	65.00	80.00	145.00				-	-			-			-	-
371	50 mm nominal outer dia Pipes Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.	metre	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
372	32 mm dia nominal inner dia .Pipes	metre	180.00	285.00	465.00				-	-	-	-	_	-	-	-	_
	40 mm dia nominal inner dia .Pipes	metre	210.00	215.00	425.00				-	-		-	-	-	-	-	-
	50 mm dia nominal inner dia .Pipes	metre	195.00	10.00	205.00				-	-	-	-	-	-	-	-	-
374	65 mm dia nominal inner dia .Pipes	metre	45.00	55.00	100.00				-	-	-	-	-	-	-	-	-
375			280.00	325.00	605.00				-	-	-	-	-	-	-	-	-
375	80 mm dia nominal inner dia .Pipes 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:																
375 376	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	5	30.00	20.00	50.00				-	-	_	-	-	_	-	-	-

1200 1200	Total JPY (in Figures only)
Hospital	
200 201	- - -
Milliam numinal here (PN 16) Providing and fining gam metal mon-cream valve of approved quiting and the standard fore cach 5.00 12.00 19.00 cach 5.00 19.00 19.00 cach 5.00 19.00 19.00 cach 5.00 19.00 19.00 cach 5.00 19.00 cach 5.00 19.00 19.00 cach 5.00 19.00 19.00 cach 10.00 19.00 19.00 cach 10.00 19.00 20.00 cach 10.00	- - -
Proofing and fating parametal near-return valve of approved quality	- - -
Section of the content force Section of the content Section of the content force Sect	- - -
Same Fortice Same	- - -
See Sum amontain bore Sum amontain bore Frowledge and finding optimization IPVC connecting pige with brass contents: Sum and stageth Sum and Sum a	- - -
Start nonmark love Start Normal	-
Set Vertical So from nominal hore Providing and fising splasticated PVC connection pipe with brass unions: 30 cm length	-
Providing and fiving uplastic-sical PVC connection pipe with brase unions: 9 or na length 90 or na length 100 man diameter 100 man diameter and 100 mander, in extensive box (not man diameter and 100 mander) (midel) (mide	
Providing and fixing uplanticiod PVC connection pipe with brass unions: 3 can length 38 20 mm normal better Providing and fixing C.1. shice valves (with cap) complete with boles, units, rubbet interferions etc. (the tent pieces if required will be paid separately): 100 mm diameter 100 mm diameter 200 Class II 100 mm diameter 200 Class II 200 mm diameter 200 mm diameter (4 coanse sand) for shice valve, with C.1 surface box (100 mm of polameter, 160 mm normal size) at a listed list and RCC top slab 12-4 mix (1 center) it 2 centers and 14 gended stone aggregate 20 mm normal size at a listed planting promony Chamber (150 of center) it 3 centers and 10 mm deep (1 sized) with chained list and RCC top slab 12-4 mix (1 center) it 2 center sized (2 center) it 3 centers and (3 center) it 3 centers and (4 center) it 4 centers and (4 center) it 4 center it 4 centers and (4 center) it 4 center it 4 centers and (4 center) it 4 centers and (4 center) it 4 center it 4 centers a	-
288 20 mm normand bore Providing and fiving CL shaice valves (with cap) complete with holts, nats, rubber insertions etc. (the tail pieces if required will be paid separately): 100 mm diameter 100 mm diameter 290 Class II Comm diameter 390 Class II Comm diameter 400 mm diameter did and RCC top shib 12-34 mix (1 cement 13 Cement 13 Cement 13 Cement 13 Cement 14 Cement 15 Ce	-
Providing and fixing C.I. slatice valves (with cap) complete with bolls, ruits, rubber insertions etc. (the tail pieces if required will be paid separately): 100 mm diameter 239 Class II	-
nubber insertions etc. (the tail pieces if required will be paid separately): 100 mm diameter 238 Class I each 10.00 3.00 13.00	
S89 Class II Cla	
150 mm diameter 230 Class II comment of the Comment of the Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 13-4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm to pdiameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:23-4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 15 mm thick, finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 each Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) 15 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:23-4 mix (1 cement : 2 coarse sand 2 graded stone aggregate 20 mm nominal size) and more than 3 mm to the comment and 4 coarse sand 3 graded stone aggregate 20 mm nominal size) and mn bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:23-4 mix (1 cement : 2 coarse sand 2 graded stone aggregate 20 mm nominal size) in cement in 20 mm coarse 3 mm size, in center 12 coarse sand 4 graded stone aggregate 20 mm nominal size) in center 12 coarse sand 4 graded stone aggregate 20 mm nominal size) in center 12 coarse sand 4 graded stone aggregate 20 mm nominal size) in center 12 coarse sand 4 graded stone aggregate 20 mm nominal size) in center 12 coarse sand 4 graded stone aggregate 20 mm nominal size) in center 20 mm nominal size) in center 20 mm nominal size 3 mm and 1 graded stone 20 mm nominal size 3 mm and 1 graded stone 20 mm nominal size 3 mm and 1 graded stone 20 mm nominal size 3 mm and 1 graded stone 20 mm nominal size 3 mm and 1 graded stone 20 mm nominal size 3 mm and 1 graded stone 20 mm nominal size 3 mm and 1 graded stone 20 mm nominal size 3 mm and 20 mm nominal size 3 mm an	
Class II Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm/deep (inside) with chained lid and RCC top slab 1:24 mix (1 cement 2 coarse sand 2 agregate 20mm mominal size) and inside plastering with cement mortar 1:3 (1 cement 3 coarse sand) 2 mm mominal size) and inside plastering with cement mortar 1:3 (1 cement complete as per standard design : With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 cach Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:24 mix (1 cement : 2 coarses and 2 top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:24 mix (1 cement : 2 coarses and 2 top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:24 mix (1 cement : 2 coarses and 2 top diameter, 160 mm bottom diameter and 180 mm	-
mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with C.1. surface box 100mm top diameter, 160 mm bottom diameter and 180 mmdeep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size), i/e necessary excavation, foundation concrete 1:5:10 (1 cement: 5: fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design: With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 each Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with C.1. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), i/e necessary	-
Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary	
cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary	-
excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design	
392 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 each Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work:	-
393 15 mm diameter pipe metre 0.00 0.00 0.00	_
394 20 mm diameter pipe	-
395 25 mm diameter pipe — metre 90.00 75.00 165.00 —	-
396 32 mm diameter pipe metre 55.00 45.00 100.00	-
397 40 mm diameter pipe	-
398 50 mm diameter pipe metre 0.00 0.00 0.00	-
399 32 mm diameter pipe metre 180.00 285.00 465.00	-
400 40 mm diameter pipe metre 210.00 215.00 425.00	-
401 50 mm diameter pipe	-
402 65 mm diameter pipe metre 45.00 55.00 100.00	
	-
403 80 mm diameter pipe metre 280.00 325.00 605.00	-

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	, and the second		District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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)
405	40mm diameter pipe	metre	210.00	215.00	425.00				-	-	-	-	-	-	-	-	-
406	50 mm diameter pipe	metre	195.00	10.00	205.00				-	-	-	-	-	-	-	-	-
407	65 mm diameter pipe	metre	45.00	55.00	100.00				-	-	-	-	-	-	-	-	-
408	80 mm diameter pipe	metre	280.00	325.00	605.00				-	-	-	-	-	-	-	-	-
	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work):																
	32 mm nominal bore 40 mm nominal bore	each each	4.00 21.00	5.00	9.00 41.00				-	-		-	-		-	-	
	50 mm nominal bore	each	15.00	15.00	30.00				-	-						-	-
	65 mm nominal bore 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.		5.00	5.00	10.00				-	-		-	-	-	-	-	-
	50 mm nominal bore 80 mm nominal bore	each each	4.00	8.00 6.00	12.00 16.00				-	-	-	-	-	-	-	-	-
	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.																
	15 mm nominal bore	each	5.00	12.00	17.00				-	-	-	-	-		-	-	-
	20 mm nominal bore 25 mm nominal bore	each each	10.00	15.00 10.00	25.00 25.00				<u> </u>	-		-	-				-
418	32 mm nominal bore	each	10.00	12.00	22.00				-	-	-	-	-	-	-	-	-
	40 mm nominal bore 50 mm nominal bore	each each	10.00 5.00	15.00 8.00	25.00 13.00				-	-	-	-	-	-	-	-	-
	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.																
	65 mm nominal bore	each	14.00	12.00	26.00				-	-	-	-	-	-	-	-	-
	80 mm nominal bore 100 mm nominal bore	each each	0.00	12.00 0.00	26.00 0.00				-	-	-	-	-	-	-	-	-
	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.																
.2.	20 mm nominal bore 25 mm nominal bore	each each	2.00 5.00	4.00	6.00 9.00				<u>-</u>	-	-	-	-	-	-	-	-
	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/ elcetrode, including fittings, connectors, adopters etc. & accessories complete set		3.00	11.00	5.00												
	40 mm nominal bore	each	2.00	6.00	8.00				-	-		-	-	-		-	-
	50 mm nominal bore Providing and fixing enclosed type water meter (bulk type) conforming to IS: 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately)		2.00	6.00	8.00				-	-	-	-	-	-	-	-	-
428	80 mm nominal bore	each	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
	100 mm nominal bore Providing and placing on terrace (at all floor levels) polyethylene water storage tank, 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.		5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931: 15 mm nominal bore		21.00	17.00	20.00												

							Rate										
		_								Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	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 C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.																
432	15 mm nominal bore	each	9.00	7.00	16.00				-	-	-	-	-	-	-	-	-
	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 (a)																
	15 mm nominal bore Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain	each	217.00	160.00	377.00				-	-	-	-	-	-	-	-	-
433	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.		480.00	330.00	810.00				-	-	-	-	-	-	-	-	-
	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.,		22.00	11.00	33.00				-	-	-	-	-	-	-	-	-
435	Providing, fixing, testing and commisioning 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	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
436	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. Providing and laying Rubber Sheet of 6mm thick below polyethylene water	Kg	350.00	325.00	675.00				-	-	-	-	-	-	-	-	-
437	storage tank	each	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
438	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 cu.m/hr switch mode power supply system, including, connectors, fittings etc complete in all respects.,		2.00	2.00	4.00				-	-	-	-	-	-	-	-	-
	Sub Head 25 : Drainage																
	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.																
	40mm Dia	Rm	205.00	202.00	407.00				-	-	-	-	-	-	-	-	-
	75mm Dia	Rm	1874.00	1218.00	3092.00				-	-	-	-	-	-	-	-	-
	110mm Dia 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:		1012.00	588.00	1600.00				-	-	-	-	-	-	-	-	-
	180x150 mm size P type																
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	90.00	52.00	142.00				-	-	-	-	-	-	-	-	-
	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 :																
443	150 mm diameter RCC pipe		55.00	65.00	120.00				-	-	-	_	-	_	-	-	_
444	250 mm diameter RCC pipe		55.00	50.00	105.00				-	-	-				-	-	
445	300 mm diameter RCC pipe		65.00	20.00	85.00				-	-	-	-	-	-	-	-	-

SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. III	Description of Item	Cint	District Hospital		Total Quantity		Figures only)	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 o
	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:								J,	·,		y,	S.II.,	J,			
	Inside size 90 x 80 cm and 45 cm deep including CI cover with frame (light duty) 455 x 610mm internal dimensiions 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																
446	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	15.00	12.00	27.00				-	-	-	-	-	-	-	-	
	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):																
44 /		Each	20.00	6.00	26.00				-	-	-	-	-	-	-	-	
	Extra for depth for manholes: Size 90 x 80 cm																
448	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	5.00	4.00	9.00				-	-	_	-	-	-	-	-	
	Size 120x90 cm																
	With common humt slov E.D.S. (non-modules) builts of close decimation 7.5	Metre	5.00	4.00	9.00												
	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 diameter 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):																
450	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	30.00	18.00	48.00				-	-	-	-	-	-	-	-	
	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m																
451	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	30.00	36.00	66.00				-	-	-	-	-	-	-	-	
	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 diameter 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):																

~-			c							Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	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 or
	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29 m:								omy	only)	only)	Unity	only)	omy			
453	With common burnt clay F.P.S. (non-modular) bricks of class designation 7.5	Metre	5.00	5.00	10.00				-	-	-	-	-	-	-	-	
	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 diameter 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):																
454	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5.00	4.00	9.00				_		_	_	_	_	_	_	
	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond	Lacii	3.00	4.00	7.00				_			_	_	_			
455	1.68 m to 2.29 m: With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	5.00	8.00	13.00				-		_	_	_	-	_	_	
456	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	120.00	85.00	205.00				-	-	-	-	-	-	-	-	
	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality																
	HD - 20																
457	Circular shape 560 mm internal diameter	Each	45.00	35.00	80.00				-	-	-	-	-	-	-	-	
	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:																
458	For pipes 100 to 250 mm diameter	Each	5.00	4.00	9.00				-	-	-	-	-	-	-	-	
	For pipes 350 to 450 mm diameter 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.	Each															
459	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5.00	8.00	13.00				-	-	-	-	-	-	-	-	
	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:																

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital		Total Quantity	Figures only)	Figures only)	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)
460	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	86.00	80.00	166.00				-	-	-	-	-	-	-	-	-
	Extra for depth beyond 45 cm of brick masonry chamber :																
	For 455x 610 mm size																
461	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Rm	172.00	160.00	332.00				-	-	-	-	-	-	-	-	-
	Sub Head 26 : Borewell																
	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), 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-incharge, upto 90 metre depth below ground level.																
462	300 mm dia	Rm	450.00	360.00	810.00				-	-	-	-	-	-	-	-	-
	350 mm dia Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), 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 -incharge, beyond 90 metre & upto 150 metre depth below ground level.	Rm	180.00	180.00	360.00				-	-	-	-	-	-	-	-	-
464	300 mm dia	Rm	180.00	180.00	360.00				_		_	_		_	_	_	
	300 mm dia	Rm	180.00	180.00	360.00				-	-	-	-	-	_	-	-	-
	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.																
466	100 mm dia	Rm	450.00	450.00	900.00				-	-	-	-	-	-	-	-	-
	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.																
467	150 mm nominal size dia	Metre	270.00	270.00	540.00				-	-	-	-	-	-	-	-	-
468	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.	Cum	48.00	48.00	96.00				-	-	-	-	-	-	-	-	-
	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm,																
469	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.	Cum	8.00	8.00	16.00				-	-	-	-	-	-	-	-	-
470	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.	Cum	8.00	8.00	16.00				-	-	-	-	-	-	-	-	-
471	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	Cum	161.00	161.00	322.00				-	-	-	-	-	-	-	-	-
472	Engineer-in-charge. 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.	each	48.00	48.00	96.00				-	-	-	-	-	-	-	-	-

						Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. IIO	Description of Item	Omt	District Hospital	District Hospital Total Quant		Figures only)	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)
473	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 16.00				-	-	-	-	-	-	-	-	-
	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:															
474	200 mm dia	each	2.00	3.00 5.00				-	-	-	-	-	-	-	-	-
	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.															
475	150 mm clamp	each	2.00	3.00 5.00				-	-	-	-	-	-	-	-	-
	Providing and fixing bail plug / bottom plug of required dia at the bottom of the pipe assambley as per IS: 2800 (Part-1).															
476	150 mm dia Supply installation & Commissioning of submersible borewell pump with SS	each	7.00	5.00 12.00				-	-	-	-	-	-	-	-	-
477	304-Casing/Impeller/Shaft & Mechanical seal coupled with a 380-415V, 50Hz 2 Pole, Insulation Class-F, IP 68 Protected Rewindable Electric Motor (Motor MakeTESLA/FRANKLIN/GRUNDFOS BRAND). Pump hydraulic efficiency should not be less than 75%. Pump controller suitable for 1 Pump with LCD screen displays, phase loss protection (incoiming as well as for outgoing), Individual pump overload protection, individual pump under voltage protection, dryrunning protection without installing any float switch, memory function when power off and during recovery, visual and audio alarm for fault prompt, auto manual switch, and pump should operate based on the UGT water level. (For Borewell).	each	2.00	2.00 4.00				-	-	-	-	-	-	-	-	-
	Flow Rate Per Pump-16m3/hr Head-41m															
	HP/Load 6.0 (Approx)															
	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 satisfection of engineer incharge.															
478	50 mm nominal bore (PN 1.6) Providing, laying and joining in position HDPE pipes with slipon flange,	Each	10.00	8.00 18.00				-	-	-	-	-	-	-	-	-
	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).															
	110 mm dia. (OD) (10.0 kgf/sq cm.)	Metre	510.00	490.00 1000.00				-	-	-	-	-	-	-	-	-
480	160 mm dia. (OD) (10.0 kgf/sq cm.) 200 mm dia. (OD) (10.0 kgf/sq cm.)	Metre Metre	350.00 28.00	345.00 695.00 18.00 46.00				-	-	-	-	-	-		-	-
	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.															
482	160 mm dia.	Metre	430.00	360.00 790.00				-	-	-	-	-	-	-	-	-
	Sub Head 27 : Rain Water Harvesting Pit															

										Cil.L. Dir			III.l PII			T-4-1	
SL. no	o Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH	I		Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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
	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.																
483	All kinds of soil Filling available excavated earth (excluding rock) in trenches, plinth, sides of	Cum	231.00	200.00	431.00				-	-	-	-	-	-	-	-	
484	foundations etc. in layers not exceeding 20cm in depth, consolidating each		116.00	75.00	191.00				-	-	-	-	-	-	-	-	
	Extra for every additional lift of 1.5 m or part thereof in.																
485	All kinds of soil.	Cum	69.00	45.00	114.00				-	-	_	-	_	-	_	-	
486	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	25.00	10.00	35.00				-	-	-	-	-	-	-	-	
487	1.4.8 (1 Cement · 4 coarse sand · 8 graded stone aggregate 40 mm nominal	Cum	25.00	10.00	35.00				-	-	-	-	-	-	-	-	
	Supplying and stacking at site.								-	-	-	-	-	-			
488	53 mm to 22.4 mm size stone aggregate	Cum	25.00	10.00	35.00				-	-	-	-	-	-	-	-	
	Total Bill no-2 Plumbing works								-	-	-	-	-	-			
	Bill no-3 FIRE FIGHTING WORKS																
	Sub Head 28 : Pumps																
	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.																
		Set Set	0.00 1.00	0.00 1.00	0.00 2.00				-	-		-	-	-		-	
.,,	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 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.																
	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.																
491	1620 lpm at 56m Head	Set	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
	2280 lpm at 70m Head	Set	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-

Section Sect	SL. no	Description of Item	Unit	Silchar	Udal	ouri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
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Marie Property of the first order of the color of the																		
Marie Paper Pape		Horizontal type, multistage, centrifugal pump of cast iron body and bronze																
Section Sect		impeller with stainless steel shaft, mechanical seal conforming to IS: 1520.																
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in the properties of the prope		bolts etc. as required.																
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12.4. SubA. TPS MCCI, Ice-100's Eas, with fully automatic Starffelds states stable for 60 HP pump with covered spotesters, and internal wiring required for memalic operation, where evolvils for local-treasus, and internal wiring required for memalic operation, where evolvils for local-treasus, and internal wiring required for memalic stable internal wiring required for memalic operations, where evolvils for local-treasus, and internal wiring required for properties. JOKEY PINP 10.75																		
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equired for automatic operation, selector switch for local/remote, auto-invariant operation. DISELE PLAN SAL-STRA TRY MCCII, Inc. 1019; Inc. with autobit 1P fully automatic Starchbut starter with overable opporation, outcome starting pipe single plane preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto-invariant/OTT operation. DISSEL ENGINE CONTROL Automatic/Manual selector switch & 2 attempt starting device, liners and relays are regarded puth turners, strating in munual most and explaints are represented puth turners, strating in munual most and turners and relays are regarded path turners, strating in munual most and turners and relays are regarded path turners, strating in munual most and turners and relays are regarded path turners, strating in munual most and turners and relays are regarded path turners, strating in munual most and turners and relays and accessories for more and relations for 12V/24 V DC with boost and trickle selector switch, 62 MDC Ammented and commissioning of system convolute to control operation of runn electric fire pump, deed pump, Presentations pump, French pump, and accessories for automatic operation of runn electric fire pump, deed pump, Presentations pump, French pump are sequence as port approximation of pump recognity and accessories for automatic operation of runn electric fire pump, deed pump, Presentations pump, French pump are sequence as port approximation of pump recognity and person person of control operation of runn electric fire pump, deed pump. Presentations pump recognity and person personal control of turners and personal pump recognity and personal p		starter suitable for 60 HP pump with overload protection, current sensing																
auto-monand/OFF operation. JOCKEY PUMP 6 A A, 50AA TIVN MCCB, less—100% lea, with suitable HP fully auto-matric Sun-Deta starter with overloop protection, current sensing, type single phase preventor complex with all successories and internal writing repetited for specialized and the sun of the		type single phase preventor complete with all acceessories and internal wiring																
S AS JOLA TPA MCCE, Ice-100% leav, with sunable IP fully automatic Star-Delta starter with overlage protection, current sensing type single phase preventor complete with all accessories and internal writing required for automatic operation, selector write for local/remote, autoinsmanal/OFF operation. DIESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selector write for local/remote, immers and relays as required, push buttons, startistical device, timers and relays as required, push buttons, startistical in manual mode Indicating lamps for high/ Use Use Use United Starting device, timers and Figure on indication. Battery charge unitable for 12V24 V DC with boost and triede selector writed and accessories for automatic operation of diesel engine SYSTEM CONTROLLER Possipung, Supply, Installation, Testing and commissioning of system controller to control logar to search or automatic operation of diesel engine SYSTEM CONTROLLER Possipung, Supply, Installation, Testing and commissioning of system controller to control operation of main electric for purp, diesel grape, representation of main electric for purp, diesel grape, representation of main electric for purp diesel grape, terms of the purp diesel grape, representation of main electric for purp diesel grape, representation of main electric for purp diesel grape, representation of main electric for purp diesel gr																		
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of A. 590A. TPM MCCB. [ser-100% fear, with satisfied left fully automatic Star-Delta stater with overlage protection, current sensing type single phase preventor complete with all accessories and internal writing required for automatic operation. DIFSEI, ENGINE CONTROI. Centrol for diesel engine comprising - Automatic/Manual seletor switch & 3 attempt starting device, timers and related selector switch & 3 attempt starting		JOCKEY PUMP																
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Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0- 20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLLER 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.		relays as required, push buttons, start/stop in manual mode																
Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0- 20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLLER 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 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.																		
switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLLER 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 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.																		
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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 0.00 0.00																		
indication, complete as per specifications.		controller to control operation of main electric fire pump, diesel pump,																
indication, complete as per specifications.	495	Pressurization pump, Terrace pump in sequence as per specification consisting of relays timers. Sensors appropriation window for fault	Set	0.00	0.0	0.00				-	-	-	-	_	_	-	-	
	ı	indication, complete as per specifications.																

SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 Figure
	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 Ammeter with																
	selector switches, and LED type ON, OFF, trip indicating lamps)																
	MAIN FIRE PUMP 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 acceessories and internal wiring required for automatic operation, selector switch for local/remote,																
	auto/manual/OFF operation.																
	JOCKEY PUMP 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 acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF																
	operation. DIESEL ENGINE CONTROL																
	Control for diesel engine comprising -																
	Automatic/Manual selctor 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 meter, and 0-20 A DC Ammeter																
	All standard relays and accessories for automatic operation of diesel engine																
	SYSTEM CONTROLLER																
	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	Set	1.00	1.00	2.00				-	-	-	-	-	-	-	-	
	indication, complete as per specifications.																
	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.																
497		Each	15.00	15.00	30.00				-	_	_	_	_	_	_	-	
498	3.5 x 50 sq.mm(35 mm)	Each	15.00	15.00	30.00				-	-	_	-	_	-	-	-	
499	3 x 10 sq.mm(22 mm)	Each	15.00	15.00	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																
	150 mm width x 50 mm depth x 1.6mm thickness. Earthing with G.I. earth plate 600mm x 600mm x 6mm thick including	Metre	60.00	50.00	110.00				-	-	-	-	-	-	-	-	
	accessories, and proving masonry enclosure with cover plate having locking	Sat	6.00	5.00	11.00												
	arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	0.00	5.00	11.00				-	-	-	-	-	-	_	_	
	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.		60.00	50.00	110.00				-	-	-	-	-	-	-	-	
503	Proving and fixing 25mm x 5mm G.I. strip on surface or in recess for connections etc. as required.	Metre	60.00	50.00	110.00				-	-	-	-	-	-	-	-	
	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																
504	Upto 35 sq.mm	Metre	40.00	40.00	80.00				-	-	_	-	-	-	_	_	
505	Above 35 sq.mm and upto 95 sq.mm	Metre	45.00	45.00	90.00				-	-		-			-	-	
506	Supply and fixing in position 1m wide insulation mat made of elastomeric	Metre	45.00	45.00	90.00				-	-	-	-	-	-	-	-	
	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	10.00	10.00	20.00				-	-	-	-	-	-	-	-	

							Rate										
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	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)																
508 509		Metre Metre	0.00	0.00 1046.00	0.00 1646.00				-	-	-	-	-	-			
	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required. (Plant Room piping/Vertical Riser/Downcomer/Floor)																
	25 mm dia	Metre	692.00	785.00	1477.00				-	-	-	-	-	-	-	-	-
	32 mm dia	Metre	20.00	10.00	30.00				-	-		-					
512	40 mm dia 50 mm dia	Metre Metre	465.00 480.00	540.00 440.00	1005.00 920.00				-	<u>-</u>	-	-	-				
	65 mm dia	Metre	336.00	342.00	678.00				-	-	-	-	-		-		
515	80 mm dia	Metre	373.00	442.00	815.00				-	-	-	-	-	-	-	-	-
516		Metre	220.00	160.00	380.00				-	-	-	-	-				
517	150 mm dia Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required: Single headed Gunmetal		750.00	24.00	1755.00 45.00				-	-	-	-	-	-	-		-
518	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron		21.00	24.00	45.00				-	-	-	-	-	-	-	-	-
510	wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required: Single headed Gunmetal	Set	8.00	10.00	18.00				-		_	_	_	_	_	_	
319	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required:		8.00	10.00	16.00				-	-		-	-	-	_	-	-
520	50mm dia	Set	15.00	15.00	30.00				-	-	-	-	-	-	-	-	-
521	80mm dia	Set	30.00	25.00	55.00				-	-	-	-	-				
522 523	100mm dia 150mm dia	Set Set	30.00 20.00	25.00 20.00	55.00 40.00				-	-	-	-	-	-	-	-	-
524	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm2 complete as required.	Each	29.00	34.00	63.00				-	-	-	-	-	-	-	-	-
	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required:																
525 526	80mm dia 100mm dia	Set Set	5.00 5.00	5.00 5.00	10.00				-	-	-	-	-				
527	125mm dia	set	5.00	5.00	10.00				-	-	-	-	-	-		-	
528	150mm dia Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.		5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
529	200 mm dia Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to		29.00	34.00	63.00				-	-	-	-	-	-	-	-	-
530	IS 636 (type-A) as required: Stainless steel Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required.		58.00	68.00	126.00				-	-	-	-	-	-	-	-	-
	20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle.																
	Drum and brackets for fixing the equipmets on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.																
531	40 m Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required:		21.00	24.00	45.00				-	-	-	-	-	-	-	-	-
522	Stainlagg staal	C -4	50.00	60.00	126.00												
532	Stainless steel Supplying and fixing of fire brigade connection of cast iron body with gun	Set	58.00	68.00	126.00				-	-	-	-	-	-	-	-	-
	metal male instantaneous inlet couplings complete with cap and chain as																

							Rate										
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534	4 way - 150 mm dia M.S. Pipe. (FOR UG TANK & EXTERNAL RING MAIN)	Set	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
535	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 paintingwith synthetic enamel paint of approved shade as required.	Set	2.00	2.00	4.00				-	-	-	-	-	-	-	-	-
	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :																
	Pendent Sprinkler	Each	677.00	771.00	1448.00				-	-			-	-		-	-
537 538	Upright Sprinkler Horizontal side wall sprinkler	Each Each	674.00 10.00	769.00 10.00	1443.00 20.00				-	-		-	-	-		<u> </u>	-
539	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required. Providing & fixing flow switch in following sizes M.S. pipe including	Each	30.00	30.00	60.00				-	-	-	-	-	-	-	-	-
540	connection etc as required. 100mm dia	Each	20.00	20.00	40.00				-	-	_	_	-	-	-		-
541	150mm dia	Each	20.00	20.00	40.00				-	-		-	-	-	-	-	-
	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 follwing sizes as required:																
542	80mm dia	Set	4.00	2.00	6.00				-	-	-	-	-	-	-	-	-
543 544	100mm dia 150mm dia	Set Set	4.00 8.00	2.00	6.00 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.		0.00		1000												
545	700 mm	Set	350.00	360.00	710.00				-	-	-	-	-	-	-	-	-
546	Providing, installation, testing & commissioning of adjustable rosette plate for 15mm dia in white finish UL Listed or FM approved complete as required.		350.00	360.00	710.00				-	-	-	-	-	-	-	-	-
547	Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required	Each	40.00	30.00	70.00				-	-	-	-	-	-	-	-	-
548	Providing and fixing standard fireman's axe with heavy insulated rubber handle conforming to IS: 926 complete.	Each	20.00	15.00	35.00				-	-	-	-	-	-	-	-	-
549	Providing and fixing SHAFT DOOR of size 900mmx2100mm made of 16 gause thick MS sheet with 4 mm thick frant glass doors in front painted "FIRE" in red paint i/c recessary locking /Key arrangement shall be painted with one coat of primer & two coat of finished stove enameled post office red colour paint.	Each	21.00	24.00	45.00				-	-	-	-	-	-	-	-	-
550	Providing and fixing hose cabinet of size 750mmX600X250mm made of 16 gause thick MS sheet with 4 mm thick float glass doors in front painted "FIRE" in red paint i/c recessary locking arrangement suitable to accommodate external hydrant with butterfly valve 2 nos. 15 mtr. 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	58.00	68.00	126.00				-	-	-	-	-	-	-	-	-
	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.																
	200 mm dia	Nos.	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
552	150 mm dia 80 mm dia	Nos.	10.00	10.00 5.00	20.00 10.00				-							-	
	80 mm dia 100 mm dia 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	Nos.	5.00	5.00	10.00				-							-	

							Rate										
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		- C	District Hospital		Total Quantity	Figures only)	Figures only)	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)
556	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.		18.00	24.00	42.00				-	-	-	-	-	-	-	-	-
	Providing, fixing water flow meter on test line complete with all accessories for flow indication, monitoring & testing of fire pumps with bypass arrangment including piping & bypass valves.																
557	150 mm dia	Each	12.00	10.00	22.00				-	-	-	-	-	-	-	-	-
558	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	2.00	2.00	4.00				-	-	-	-	-	-	-	-	-
	Sub Head 31: Fire Extingusher 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.																
559	Providing and fixing of 4.5 Kg. carbon-di-oxide type fire extinguishers consisting of welded M.S. cylinderical 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.	13.00	20.00	33.00				-	-	-	-	-	-	-	-	-
560	Providing and fixing 6.0 Kg. ABC Powder type fire extinguishers consisting of welded M.S. cylinderical 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 inernal charge.	Nos.	47.00	43.00	90.00				-	-	-	-	-	-	-	-	-
561	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.		10.00	10.00	20.00				-	-	-	-	-	-	-	-	-
562	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 Depeltion Potential and Very Low Global Warming Potential of 1 with 20 Years Blue Sky Warantee against any regulatory Bans and Restrictions.	.,	13.00	14.00	27.00				-	-	-	-	-	-	-	-	-
562	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 stablized coating and of appropriate size including fixing on wall, door, ceiling etc. with proper clamps, hangers, cleats, anchor fasteners etc.	Square	14400.00	12600.00	27000.00				-	-	-	-	-	-	-	-	-
	Sub Head 34: Fire Alarm and Dection System																
	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.																
563	Ten Loop Panel.	Set	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
564	Supplying, installation, testing & commissioning of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete as required.	No	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
565	Supplying, installation, testing & commissioning of repeater panel wih 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required.		1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
566	Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.		794.00	791.00	1585.00				-	-	-	-	-	-	-	-	-
	Supplying, installation, testing & commissioning of response indicator on																

							Rate										
SI no	Description of Itom	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	District Hospital	_	Total Quantity	•	Figures only)	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)
568	Supplying, installation, testing & commissioning of fault isolator complete with base as required.	No	37.00	38.00	75.00				-	-	-	-	-	-	-	-	-
569	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required.		18.00	27.00	45.00				-	-	-	-	-	-	-	-	-
570	Supplying, installation, testing & commissioning of addressable fire control module complete as required.	Each	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
571	Supplying, installation, testing & commissioning of addressable phone control module complete as required.	Each	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
572	Supplying, installation, testing & commissioning of addressable beam detector with short circuit isolator (inbuilt or seperate) complete with emitter and receiver including connections with remote test features etc complete as required.		4.00	4.00	8.00				-	-	-	-	-	-	-	-	-
573	Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required.	Each	10.00	10.00	20.00				-	-	-	-	-	-	-	-	-
574	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	Each	18.00	20.00	38.00				-	-	-	-	-	-	-	-	-
575	Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required.	Lacii	18.00	20.00	38.00				-	-	-	-	-	-	-	-	-
576	Supplying, installation, testing & commissioning of fire fighter telephone handset complete as required.	Each	2.00	2.00	4.00				-	-	-	-	-	-	-	-	-
577	Supplying, installation, testing & commissioning of fire fighter phone jack complete as required.	Eacn	18.00	20.00	38.00				-	-	-	-	-	-	-	-	-
578	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.	Meter	5250.00	4885.00	10135.00				-	-	-	-	-	-	-	-	-
	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.																
579	25mm dia Supply, Installation, Testing and Commissioning of UL/Vds/LPCB/EN	Meter	650.00	650.00	1300.00				-	-	-	-	-	-	-	-	-
580	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.		12.00	5.00	17.00				-	-	-	-	-	-	-	-	-
581	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 heath 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	5.00	15.00				-	-	-	-	-	-	-	-	-
	approval & FM 7M FRO VED																
	Total Bill no-3 Fire fighting works								-	-	-	-	-	-			
	Bill no-4 STP, ETP & PUMPS Sub Head 35: Sewage Treatment Plant 25 KLD & Effulent Treatment Plant 5 KLD																
	Designing, Fabricating, Supplying, Installation & Commissioning 25 KLD STP: Fabrication and Supply of mechanical, electrical and instrumentation including Fine Screen Chamber SS304, 5mmx5mm, Raw Sewage Tank, Collection Tank 1, Collection Tank 2 Bio Mound 1 & Bio Mound 2 Treated Water Tank Submersible Sewage pump to transfer fluid between RST-BM1Submersible Slurry Pump to transfer slurry between RST-VCB Submersible sewage Pump to transfer fluid between CT1-BM2 Submersible clear water pump to transfer fluid between CT2-TWT Bio Mound Media 52 Cum (lateratite/Basaltic/red clay origin media with technology provider specified aggregate sizing), Jute 250gsm @every 0.5m inside BM media, Plantation/Saplings @2sqm each. 9 Nos.etc.,																

						Rate										
SL. n	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	Description of Rem		District Hospital	District Hospital Total Quantity	Figures only)	Figures only)	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)
	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-BM1Submersible Slurry Pump to transfer slurry between TS-VCB Submersible 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 Nos.etc.,															
	Slurry Pump RST-VCB; Submersible Slurry Pump; (1W) with Piping, NRVs, Cabling & Other Instrumentation as Applicable Sewage Pump RST-BM1; Submersible Sewage Pump; 1.5 cum/hr @ 8-10 m head; (1W+1S) with Piping, NRVs, Cabling & Other Instrumentation as Applicable Sewage Pump CT1-BM2; Submersible Sewage Pump; 1.5 cum/hr @ 8-10 m head; (1W+1S); with Piping, NRVs, Cabling & Other Instrumentation as Applicable Clear Pump CT2-TWT; Submersible Clear Water Pump; 1.5 cum/hr @ 8-10 m head; (1W+1S); with Piping, NRVs, Cabling & Other Instrumentation as Applicable Distributor System in UPVC inclusive fittings;MOC-UPVC; 251qm Tube Settler Packing; MOC:- PVC; 1 Cum Fine Screen; MOC:- SS 304; Slot Size:- 5 mm 1 lot Mechanical Flow Meter; Line Size:-1 inch; 1 Nos Control Panel: MCC Type with Semi Auto Features: Auto Features: Dry Run Protection: Timer Based Switching, Level Based Pumping(Civil construction works will be paid under relevant civil items seperately).															
	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; 6 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; 6 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; 6 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; Make:- Prince/Equivalent Tube Settler Packing; MOC:- PVC; Make:- MM Aqua/Equivalent Fine Screen; MOC:- SS 304; Slot Size:- 5 mm Mechanical Flow Meter; Line Size:-2 inch; Make:- Kranti/Belento (Civil construction works will be paid under relevant civil items seperately).															
	2. 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 No.36a),, Supplying on site well decomposed Farmyard Manure for excavation area of depth of 30 cms. (Consolidated thickness). (As per P&G DSR 2022-23 Items of garden work,Sr No.36b),, Providing on site required variety of lawn (free from weeds /diesease 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 No.46),, 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 mtrs. for a depth of 30 cms. (As per P&G DSR 2022-23 Items of garden work,Sr No.3), Filling fresh garden soil / silt & manure in excavated area of depth 30cms. (As per P&G DSR 2022-23 Items of garden work,Sr No.13),, 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 No.23), 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 No.28)															

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item		District Hospital		Total Quantity	Figures only)	Figures only)	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 on site fresh Garden soil - 170Sqm (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 No.36a),, Supplying on site well decomposed Farmyard Manure for excavation area of depth of 30 cms. (Consolidated thickness). (As per P&G DSR 2022-23 Items of garden work,Sr No.36b), Providing on site required variety of lawn (free from weeds /diesease 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 No.46),, 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 mtrs. for a depth of 30 cms. (As per P&G DSR 2022-23 Items of garden work,Sr No.3), Filling fresh garden soil / silt & manure in excavated area of depth 30 cms. (As per P&G DSR 2022-23 Items of garden work,Sr No.13),, 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 No.23), 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 No.28)																
	3. Supply, Installation and Testing of Tube Settler Packing at PVC make etc.,																
	Supply, Installation and Testing of Tube Settler Packing -10Cum. 4. Mechanical Flow meter and line size 50mm etc.,																
	Providing supplying culture catalyst & On site demonstration as per the vendors all as specified including MOU with technology expert based on the Vendors Technology Consultancy Charges (General Arrangement and Hydraulic Flow Diagram- Design and Drawings), CAMUS Cultures, CAMUS Catalyst, Mharashtra GO No. Serial No 2017/ Sch No 351/ UDD-33 1 dated 27 Feb 2018																
	5. SITC of Control panel MCC type with Semi auto futures, electrical componentwith auto features and dry run protection.																
	6. Providing supplying CAMUS Cultures and Catalyst; Patent No. 414339 (Mite Ecology for Treatment of Organic Liquids (METROL process) & On site demostration 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 parameter COD, BOD,TSS, pH:- 8 Nos 4. To get the PCB approval with Pre / Post NOC																
582	Designing, Fabricating, Supplying, Installation & Commissioning 5 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 Rotameters, 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).	Unit	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-

						Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	Description of Item		District Hospital	District Hospital Total Quantity		Figures only)	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)
583	Designing, Fabricating, Supplying, Installation & Commissioning 5 KLD ETP: Fabrication and Supply of mechanical, electrical and instrumentation including Dising, Mixing and Pre fab tube settler with tube media 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).	Unit	0.00	0.00 0.00					-	-	-	omy)	-	-	-	-
584	Designing, Fabricating, Supplying, Installation & Commissioning 20 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, interconnecting valves, Pressure Gauge, Air Rotameters, 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. (Civil construction works will be paid under relevant civil items seperately).	Unit	1.00	1.00 2.00				-	-	-	-	-	-	-	-	-
	Designing, Fabricating, Supplying, Installation & Commissioning 20KLD 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 PRIMARY TUBE SETTLER Nothing extra will be paid in this regard. (Civil construction works will be paid under relevant civil items seperately.															
585	Interconnecting valves, Pressure Gauge, Air Rotameters, 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, Transportation, Taxes, Lead, Lift etc. complete. Excluding civil works, nothing extra will be paid. (Civil construction works will be paid under relevant civil items seperately).	5	0.00	1.00 1.00				-	-	-	-	-	-	-	-	-
	Sub Head 37: Pumps (Potable, Drainage, Sewage & Waste Water Treatment Plant)															
	Supply, installation & commissioning of 2 Nos.vertical Inline Multi Stage Centrifugal Pump for Clear Water Transfer with 50Hz, 415V, 2 Pole IE3 efficiency class motor (As per IEC standard, Make-Siemens/Grundfos Brand/ABB). Pump shall be CI with CED quoted- Head & Base, SS 316/SS 431 -Shaft and all other components will be with SS 304, Mechanical Seal (SiC vs SiC face) . Pump should have minimum 60% efficiency. Pump controller suitable for 2 Pumps (1W+1S) with LCD screen displays, phase loss protection (incoiming as well as for outgoing), Individual pump overload protection, individual pump under voltage protection, dryrunning protection without installing any float switch, memory function when power off and during recovery, visual and audio alarm for fault prompt, auto manual switch, and pump should operate based on the OHT water level and both pump should run together for high level. Panel should come with 3 Nos Float switch to work as per the sump water level.															
	1 No. 100L 10 Bar, Low Carbon Steel Pressure Tank along with butyl rubber bladder, ball valve & connecting pipes.	•														
	Flow Rate-24 m3/hr (1W+1S) Head-28m	Q-4	0.00	0.00 0.00												
		Set	0.00	0.00				-	-	-	-	-	-	-	-	-
	Flow Rate-22 m3/hr (1W+1S) Head-32m	Set	0.00	0.00 0.00				-	-	-	-	-	-	-	-	-

						Rate									
SL. no Description of Item Uni	it Sile	char	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
SL. no Description of Item	Dist	strict		Total Quantity	Figures only)	Figures only)	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)
Hydropneumatic System for OHT Tank Filling Domestic Supply, installation & commissioning of 1 No. Skid Mounted Factory Assembled (Locally Assembled Set is Not Acceptable) Hydropneumatic System with 3 Nos. Vertical Inline Multi Stage Centrifugal Pump for Clear Water with 50Hz, 415V, 2 Pole, IP 55 Enclosure Class, Class F Insulation, IE3 efficiency class motor (As per IEC standard, 2.2 KW/3 HP Per Pump) along with skid mounted control panel. 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) & 1 No. branded pressure transmitter of adequater rating (4-20mA) as per the requirement, CED coated or SS 316 suction & Delivery manifolds, CED Coated Skid along with 1 No. 100L 10 Bar Low Carbon Steel Pressure Tank along with butyl rubber bladder suitable for drinking water. System shall be having cascading function.															
1 No. 100L 10 Bar, Low Carbon Steel Pressure Tank along with butyl rubber bladder, ball valve & connecting pipes.															
Flow Rate-10m3/hr (1W+1S)															
589 Head-35m Set	t 0.	.00	0.00	0.00				-	-	-	-	-	-	-	
Supply, installation, testing, commissioning of the Variable Speed Hydro pneumatic system (Individual VFD for Each Pump). Booster should minimum consist of the components as per the below specifications. Complete system shall be tested at the manufacturer's factory, in accordance to the provisions of the appropriate standard before delivery. Manufacturer should have facility of witness test with proper test bed. 590 Vertical In Line Multistage Centrifugal pumps with IE5 efficiency class Motor as per IEC 60034-30-2 standard. Pump should come with integrated VFD & Control panel with each pump. Low Carbon steel Pre-pressurized bladder or diaphragm type pressure vessel complete with pre-charged nitrogen gas/Air to the design pressure settings.	t 0.	.00	2.00	2.00				-	-	-	-	-	-	-	
Each pump shall have individual PI controller & integrated VFD and with IE5 efficiency class motor as per IEC standard. Pipe work and valves, pressure transmitter, pressure gauge, check valve, gate valve and all necessary fittings etc to the satisfactory operation of the system and to make system as complete. Only supply & delivery line will be connected to start the system 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															
Motorised Valve Supply, Installation & commissioning of reputed make electrically operated valve for OHT which will open/close based on the water level sensor. Nos	s 4.	.00	4.00	8.00				-	-	-	-	-	-	-	

						Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	District Hospital	District Hospital Total Quantity		Figures only)	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 & commissioning of 1 No. Skid Mounted Factory Assembled (Locally Assembled Set is Not Acceptable) Hydropneumatic System with 3 Nos. Vertical Inline Multi Stage Centrifugal Pump for Clear Water with 50Hz, 415V, 2 Pole, IP 55 Enclosure Class, Class F Insulation, IE3 efficiency class motor (As per IEC standard, 2.2 KW/3 HP Per Pump) along with skid mounted control panel. 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) & 1 No. branded pressure transmitter of adequater rating (4-20mA) as per the requirement, CED coated or SS 316 suction & Delivery manifolds, CED Coated Skid along with 1 No. 100L 10 Bar Low Carbon Steel Pressure Tank along with butyl rubber bladder suitable for drinking water. System shall be having cascading function.															
	1 No. 100L 10 Bar, Low Carbon Steel Pressure Tank along with butyl rubber bladder, ball valve & connecting pipes.															
592	Flow Rate-5 m3/hr (1W+1S) Head-35m	Set	0.00	0.00 0.00				-	-	-	-	-	-	-	-	-
593	Motorised Valve Supply, Installation & commissioning of reputed make electrically operated valve for OHT which will open/close based on the water level sensor.	Nos	0.00	0.00 0.00				-	-	-	-	-	-	-	-	-
594	Drainage Pump Supply installation & Commissioning of submersible drainage pump 1W 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.	Nos	0.00	0.00 0.00				-	-	-	-	-	-	-	-	-
595	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.	Nos	1.00	2.00 3.00				-	-	-	-	-	-	-	-	-
596	Sewage Pump Supply installation & Commissioning of submersible drainage pump 1W 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		0.00	0.00 0.00				-	-	-	-	-	-	-	-	-
597	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		0.00	2.00 2.00				-	-	-	-	-	-	-	-	-
598	WATER TREATEMENT PLANTS 5000 LPH 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 METER MCC PANEL WITH CABLES Complete etc.,	Set	1.00	1.00 2.00				-	-	-	-	-	-	-	-	-
599	Sub Head 38: Solar Hot Water Systems 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 2nos 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	2.00	2.00 4.00				-	-	-	-	-	-	-	-	-

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Ome	District Hospital		Total Quantity		Figures only)	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) Us	SD (in Figures only)
600	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	2.00	2.00	4.00				-	-	-	-	-	-	-	-	-
	Total Bill no-4 STP,ETP,Solar & Pumps									_	-		_	_			
	· ·																
	Bill no-5 HVAC works Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors for above 14 HP modules, Microprocessor based Controller, top discharge type condensing unit(s), with R 410 A Refrigerant, vibration isolators, with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5.																
601 602		Nos Nos	0	1 2	1.00 2.00				-	-	-	-	-	-	-	-	-
603	8 HP	Nos	7	1	8.00				-	-	-	-	-	-	-	-	-
604		Nos	1	0	1.00				-	-	-	-	-	-	-	-	-
605		Nos	6	5	11.00				-	-		-	-		-		-
606 607		Nos Nos	0	0	2.00 0.00				-	-		-	-		-		-
608		Nos	2	0	2.00				<u> </u>	-		-	-		<u> </u>		
609		Nos	0	2	2.00				-	-		-	-	-	-		-
610	22 HP	Nos	4	1	5.00				-	-	-	-	-	-	-	-	-
611		Nos	1	1	2.00				-	-		-	-		-		-
612		Nos	0	1	1.00				-	-		-	-		-		-
613 614		Nos Nos	0	0	0.00 2.00				-	-		<u> </u>	-		-		<u> </u>
615		Nos	0	0	0.00				-	-		_	-		_		-
616		Nos	0	1	1.00				-	-	-	-	-	-	-	-	-
617		Nos	0	0	0.00				-	-	-	-	-	-	-	-	-
618		Nos	0	0	0.00				-	-	-	-	-	-	-	-	-
	INDOOR UNIT-CASSETTE TYPE Supply, installation, testing and commissioning of following minimum capacity 4-way flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature																
610	0.8 TR	Nos	Ω	1	1.00												
	1.0 TR	Nos Nos	2	2	4.00				-	-		-	-	-	-		-
	1.0 TR 1.2 TR	Nos	0	0	0.00				-			<u> </u>	-		<u> </u>		<u> </u>
	1.3 TR	Nos	5	2	7.00					_			-	-	-		-
	1.6 TR	Nos	1	0	1.00				-	-		-	_	-	-		-
624		Nos	3	12	15.00				-			-	-	-	-		-
	2 4 TR	Nos	1	6	7 00				-	_	_	-	_	_	-	_	-

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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)
628	3.2 TR	Nos	3	5	8.00				-	-	-	-	-	-	-	-	-
629	3.6 TR	Nos	1	0	1.00				-	-	-	-	-	-	-	-	-
630	4 TR	Nos	0	0	0.00				-	-	-	-	-	-	-	-	-
	INDOOR UNIT-HIGH WALL TYPE																
	Supply, installation, testing and commissioning of following minimum capacity VRV/VRF High wall type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V \pm 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature.				0.00										-	-	-
631	0.8 TR	Nos	6	5	11.00				-	-	-	-	-	-	-	-	-
	1 TR	Nos	16	1	17.00				-	-		-	-	-	-		
	1.3 TR 1.65 TR	Nos Nos	36	12 26	48.00 46.00				-	-	-	-	-	-	-		
	2 TR	Nos	8	11	19.00				-	-		-	-	-	-		
636	2.3 TR	Nos	0	2	2.00				-	-	-	-	-	-	-	-	-
	INDOOR UNIT-DUCTABLE TYPE																
	Supply, installation, testing and commissioning of following minimum capacity and external static pressure VRF/VRV ceiling mounted ductable type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, corded remote control, outer cabinet, vibration isolators, drain pan, other necessary supports etc., suitable for operation on single phase AC supply 230 V ± 10%, 50 Hz complete as required. The unit shall have automatic force shut down provision in case of fire on receiveing signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature.																
	Mid Static Ductable units (minimum 45 pascal external static pressure)																
	1.6TR	Nos	0	0	0.00				-	-	-	-	-	-	-	-	-
	2 TR	Nos	2	1	3.00				-	-	-	-	-	-	-	-	-
	2.3 TR	Nos	2	0	2.00				-	-	-	-	-	-	-	-	-
	2.6 TR	Nos	0	1	0.00				-	-	-	-	-	-	-	-	-
	3.2 TR 3.6TR	Nos Nos	0	0	0.00				-	-	-	-	-		-		-
	4 TR	Nos	0	1	1.00				_	-		-	-	-	-	-	-
	High Static Ductable units (minimum 110 pascal external static pressure)								_	_	_	_	_	_			
644	4.6 TR	Nos	1	1	2.00				_								
			0	0	0.00					-	-	-	-	_	-	_	_
	5.5 TR 6.4 TR	Nos	0	2					-	-	-	-	-	-	-	-	-
		Nos	0	1	2.00				-	-	-	-	-	-	-	-	-
647	8 TR	Nos	0	1	1.00				-	-	-	-	-	-	-	-	-
648	Supply, installation, testing and commissioning of Central controller capable of monitoring the each floor indoor units at one location in respective floors. The controller shall be capable of addressing each and every IDU and ODU and allow revision of set point (Touch screen panel)		1	1	2.00				-	-	-	-	-	-	-	-	-
649	Supply, installation, testing and commissioning of Refnet joint kits for VRV/VRF indoor and outdoor units. The Quantity of refnet joints as mentioned in the tender drawings	Lot	1	1	2.00				-	-	-	-	-	-	-	-	-
	Supply, installation, testing and commissioning of Ceiling Suspended Double skin Air handling unit with 25 mm PUF comprising of following sections: Fan section with DIDW forward / backward curve fan along with motor drive package,10 micron filter section along with 10 micron filter,5 micron filter section along with 5 micron filter, 4 Row VRV Coil Section along with VRV Coil,Mixing Chamber & 2 Nos Magnehelic Guage Between Filters Suitable for following capacity and Static, wherever multiple condensing units are offered for the AHU, the AHU VRV coil shall have multiple circuit with required controls compatibly with VRV R410 - A Refrigerant and required Temperature controllers inculding of indication lamp's for AHU and compressor." ON" and it is to located inside the																

							Rate					1					
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	•		District Hospital	District To Hospital	otal Quantity	Figures only)	Figures only)	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 on
	5 HP - 1600 CFM @ 100mm Static Horizontal Ceiling Suspended AHU (GROUND FLOOR MINOR OT)	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
	8 HP - 1800 CFM @ 50 mm Static Horizontal Ceiling Suspended AHU (GROUND FLOOR MINOR OT)	Nos	1	0	1.00				-	-	-	-	-	-	-	-	
652	10 HP - 2800 CFM @ 100 mm Static Horizontal Floor Mounted AHU	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
	6 HP - 1600 CFM @ 100 mm Static Horizontal Floor Mounted AHU (MINOR OT)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
	Supply, installation, testing and commissioning of Floor Mounted / Ceiling Suspended Double skin Air handling unit with 25 mm PUF comprising of following sections: Fan section with DIDW Forward/Backward curve fan along with motor drive package,10 micron filter section along with 10 micron filter,5 micron filter section along with 5 micron filter, 6 Row DX Coil,Mixing Chamber & 2 Nos Magnehelic Guage Between Filters Suitable for following capacity and Static, wherever multiple condensing units are offered for the AHU, DX coil shall have multiple circuit with required Temperature controllers inculding of indication lamp's for AHU and compressor" ON" and it is to located inside the all areas.																
651	6 HP - 1600 CFM @ 100 mm Static Horizontal Ceiling suspended AHU (MINOR OT&LABOUR OT)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
655	6 HP - 1620 CFM @ 50 mm Static Horizontal Floor Mounted AHU (PRE-OPERATIVE)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
656	6 HP - 1800 CFM @50 mm Static Horizontal Floor Mounted AHU (GROUND FLOOR-CT SCAN (1working + 1standby))	Nos	0	2	2.00				-	-	-	-	-	-	-	-	
	8 HP - 1800 CFM @70 mm Static Horizontal Floor Mounted AHU (THIRD FLOOR POST NATALWARD)	Nos	1	0	1.00				-	-	-	-	-	-	-	-	
	8 HP - 1800 CFM @50 mm Static Horizontal Floor Mounted AHU (THIRD FLOOR ANTE NATALWARD)	Nos	1	0	1.00				-	-	-	-	-	-	-	-	
ロフソ	8 HP - 1980 CFM @ 50 mm Static Horizontal Floor Mounted AHU (NICU)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
660	8 HP - 1980 CFM @ 100 mm Static Horizontal Floor Mounted AHU (MINOR OT)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
661	$8~\mathrm{HP}~$ - $2160~\mathrm{CFM}~@~100~\mathrm{mm}$ Static Horizontal Floor Mounted AHU (OT-1 & OT-2)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
662	8 HP - 2160 CFM @ 50 mm Static Horizontal Floor Mounted AHU (GROUND FLOOR CT SCAN (1working + 1standby) & EMERGENCY TRIAGE 1))		3	0	3.00				-	-	-	-	-	-	-	-	
003	8 HP - 1800 CFM @ 60 mm Static Horizontal Floor Mounted AHU (CT SCANI (1working + 1standby))	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
004	10 HP - 2520 CFM @ 50 mm Static Horizontal Floor Mounted AHU (MRI SCAN (1working + 1standby))	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
666	10 HP - 2800 CFM @ 100 mm Static Horizontal Ceiling Suspended AHU 10HP - 2880 CFM @ 100 mm Static Horizontal Floor Mounted AHU (Nos Nos	0	0	1.00				-	-	-	-	-	-	-	-	
	THIRD FLOOR-OT) 12 HP - 3240 CFM @ 60 mm Static Horizontal Floor Mounted AHU (1Working + 1 Stand By for MRI AND CT)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
<i>((</i> 0	12 HP - 3240 CFM @ 50 mm Static Horizontal Floor Mounted AHU (GROUND FLOOR MRI SCAN (1working + 1standby)(FIFTH FLOOR ICU & ISOLATION))	Nos	3	2	5.00				-	-	-	-	-	-	-	-	
004	12 HP - 3420 CFM @ 60 mm Static Horizontal Floor Mounted AHU(Ground floor Emergency)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
670	12 HP - 3420 CFM @ 100 mm Static Horizontal Floor Mounted AHU (OT'S)	Nos	0	3	3.00				-	-	-	-	-	-	-	-	
	12 HP - 3060 CFM @ 100 mm Static Horizontal Floor Mounted AHU (FIFTH FLOOR OT-1 & OT-2)	Nos	2	0	2.00				-	-	-	-	-	-	-	-	
672	14 HP - 3600 CFM @100 mm Static Horizontal Floor Mounted AHU (SECOND FLOOR-OT)	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
	14HP - 3780 CFM @ 50 mm Static Horizontal Floor Mounted AHU (OBSERVATION AND TRIAGE)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
6/4	16 HP - 4680 CFM @ 50 mm Static Horizontal Floor Mounted AHU (ICU COMPLEX)	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
675	20 HP - 5760 CFM @ 65 mm Static Horizontal Floor Mounted AHU (FOURTH FLOOR-ICU)	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
	VRV AHU KITS FOR BELOW MENTIONED CAPACITY :-				1.00				-	-	-	-	-	-			
676 677		Nos Nos	0	2	2.00				-	-	-	-	-	-	-	-	
678		Nos	6	0	6.00				-	-	-	-	-	-	-	-	
679		Nos	1	0	1.00				-	-	-	-	-	-	-	-	
680 681		Nos Nos	5	5	1.00				-	-	-	-				-	
682		Nos	0	0	0.00				-	-	-	-	-	-		-	
683		Nos	0	1	1.00				-	-	-	-		_	_	_	

		-								Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures	JPY (in Figures	USD (in Figures	INR (in Figures	JPY (in Figures	USD (in Figures	DD (Fi		Hop (F
			Hospitai	Hospitai		omy	omy	omy)	only)	only)	only)	only)	only)	only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures on
	COPEER REFRIGERANT PIPING Supply, Installation, testing and commissioning including vaccumiazation																
	and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc. as required:																
684	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	714	253	967.00				-	-	-	-	-	-	-	-	
685	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	1000	917	1917.00				-	-	-	-	-	-	-	-	
686	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	1068	581	1649.00				-	-	-	-	-	-	-	-	
687	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	612	715	1327.00				-	-	-	-	-	-	-	-	
688	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	414	427	841.00				-	-	-	-	-	-	-	-	
689	22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	173	82	255.00				-	-	-	-	-	-	-	-	
690	25.4 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	321	310	631.00				-	-	-	-	-	-	-	-	
691	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	191	215	406.00				-	-	-	-	-	-	-	-	
692	31.8 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	Rmt	0	104	104.00				-	-	-	-	-	-	-	-	
693	34.9 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	Rmt	0	0	0.00				-	-	-	-	-	-	-	-	
694	38.1 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	Rmt	0	7	7.00				-	-	-	-	-	-	-	-	
	POWER CABLES & COMMUNICATION CABLE																
695	Supply and laying of 4 core 1.0 Sq.mm Copper cable from ODU to IDU in PVC conduit with necessary fittings for Control wiring & CRC Wiring.	Rmt	2471	1986	4457.00				-	-	-	-	-	-	-	-	
	POWER CABLES FOR VRV INDOOR UNITS																
696	Supply and laying of 3 core X 2.5 Sq.mm Copper cable from Electrical Panel to VRV IDU in PVC conduit with necessary fittings for power. (NOTE: WE CONSIDER 5 METERS FOR EACH UNIT)	Rmt	545	515	1060.00				-	-	-	-	-	-	-	-	
	POWER CABLES FOR VRV INDOOR UNITS (AHU)																
697	Supply and laying of 4 core X 2.5 Sq.mm Copper cable from Electrical Panel to VRV IDU in PVC conduit with necassary fittings for power.(NOTE: WE CONSIDER 5 METERS FOR EACH UNIT)	Rmt	60	50	110.00				-	-	-	-	-	-	-	-	
	POWER CABLES FOR VRV OUDOOR UNITS																
698	Supply and laying of 4 core X 10 Sq.mm Copper cable from MCB / MCCB (near the ODU unit) to VRV ODU in PVC conduit with necessary fittings for power.(NOTE: WE CONSIDER 5 METERS FOR EACH UNIT)	Rmt	85	50	135.00				-	-	-	-	-	-	-	-	
699	Supply and laying of 4 core X 16 Sq.mm Copper cable from MCB / MCCB (near the ODU unit) to VRV ODU in PVC conduit with necessary fittings for power.(NOTE: WE CONSIDER 5 METERS FOR EACH UNIT)	Rmt	25	40	65.00				-	-	-	-	-	-	-	-	
	DRAIN PIPING (CPVC PIPE)																
	Providing and fixing in position the following CPVC pipes with necessary insulation for drain cut to required lengths and installed complete with all necessary fittings like elbows, tees & reducers.																
	25.4 mm	Rmt	360	381	741.00				-	-	-	-	-	-	-	-	
701	32 mm GI DUCTING-RECTANGULAR	Rmt	106	174	280.00				-	-	-	-	-	-	-	-	
	Supply, Installation, Balancing and Commissioning of Factory fabaricated																

							Rate										
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			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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)
702	Thickness 0.63 mm sheet	Sqm	773	619	1392.00				-	-	-	-	-	-	-	-	-
703	Thickness 0.80 mm sheet	Sqm	212	111	323.00				-	-	-	-	-	-	-	-	-
704	Thickness 1.00 mm sheet	Sqm	0	64	64.00				-	-	-	-	-	-	-	-	-
	ALUMININUM DUCTING-RECTANGULAR (FOR OT) & MRI																
	Supply, Installation, Testing & Commissioning of Rectangular Aluminum Ducting made of Lock-forming quality AL; complying with IS standards and with necessory supports as per specification.																
705	22 gauge	Sqm	331	374	705.00				-	-	-	-	-	-	-	-	-
706	20 gauge	Sqm	290	280	570.00				-	-	-	-	-	-	-	-	-
707	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		950	807	1757.00				-	-	-	-	-	-	-	-	-
708	Supply and instalation 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		117	61	178.00				-	-	-	-	-	-	-	-	-
709	Supply instalaltion testing and commissioning of GI Volume Control duct damper complete with neoprene rubber gasket, nuts, bolts, screw linkages, flanges ETC, as per specifications		1	1.5	2.50				-	-	-	-	-	-	-	-	-
710	supply and erection of UL-555 Standeds with CBRI certifed 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 satisfafactory 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	2.2	2.2	4.40				-	-	-	-	-	-	-	-	-
	Supply & Installation of Stainless steel matt SS304 grade Ceiling Suspended type Laminar Air Flow Unit with Suitable HEPA Filters(0.3 micron)																
711	1.Size - 8'x8'	Nos	3	4	7.00				-	-	-	-	-	-	-	-	-
	2.Size - 8'x6'	Nos	1	1	2.00				-	-	-	-	-	-	-	-	-
713	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications	Sq.mt	3.3	4.2	7.50				-	-	-	-	-	-	-	-	-
	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	Sq.mt	7.5	10.3	17.80				-	-	-	-	-	-	-	-	-
	Supplying & fixing of powder coated extruded aluminium Fresh Air Invisible grille as per specifications/ Sizes as per Tender Drawings.																
715	400 mm Height	Sq.mt	0	0	0.00				-	-	-	-	-	-	-	-	-
716	300mm Height	Sq.mt	0.3	0.2	0.50				-	-	-	-	-	-	-	-	-
717	250mm Height	Sq.mt	0.7	0.4	1.10				-	-	-	-	-	-	-	-	-
718	200mm Height	Sq.mt	0.2	0.2	0.40				-	-	-	-	-	-	-	-	-
	Supplying & fixing of powder coated extruded aluminium Fresh Air grille with collar damper as per specifications/ Sizes as per Tender Drawings.																
719	250mm Height	Sq.mt	0	0	0.00				-	-	-	-	-	-	-	-	-
720	150 mm Height	Sq.mt	0	0	0.00				-	_	_	-	_	_	_	_	-
	Supplying & fixing of powder coated extruded aluminium Exhaiut Air Invisible grille with collar damper as per specifications/ Sizes as per Tender Drawings.																
	100mm Height	Sq.mt	0	0	0.00				-	-	-	-	-	-	-	-	-

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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)
724	250mm Height	Sq.mt	1.2	1.6	2.80				-	-	-	-	-	-	-	-	-
725	300mm Height	Sq.mt	2.3	0.22	2.52				-	-	-	-	-	-	-	-	-
726	350mm Height	Sq.mt	0	0.7	0.70				-	-	-	-	-	-	-	-	-
	Supplying & fixing of powder coated extruded aluminium Toilet Exhaust Air Circular Grille with flange type as per specifications/ Sizes as per Tender Drawings.																
727	i) 150mm dia	Nos	211	155	366.00				-	-	-	-	-	-	-	-	-
728	ii) 200mm dia	Nos	0	0	0.00				-	-	-	-	-	-	-	-	-
	Supplying & fixing of powder coated extruded aluminium Exhaust Air grille with collar damper as per specifications/ Sizes as per Tender Drawings.																
729	i) 250mm height	Sq.mt	0	0	0.00				-	-	-	-	-	-	-	-	-
730	ii) 250mm height	Sq.mt	0	0	0.00				-	-	-	-	-	-	-	-	-
	Supplying & fixing of powder coated extruded aluminium Pressurization Air Grille, Collar damper with flange type powder coated aluminium as per specifications/ Sizes as per Tender Drawings.																
731	i) 600mm heiight	Sq.mt	0	3	3.00				-	-	-	-	-	-	-	-	-
732	i) 1000mm heiight	Sq.mt	0	0	0.00				-	-	_	-	_	-	-	-	-
733	Acoustic Insulation of AHU Room Supplying, fixing acoustic lining on wall and ceiling of AHU rooms with 50mm thick, density 32 kg/cu.m 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. completeas required and as per specifications	Sq.mt	730	1040	1770.00				-	-	-	-	-	-	-	-	-
	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.	Sq.mt	610	837	1447.00				-	-	-	-	-	-	-	-	-
	Nitrogen Pressure Testing & Refrigerant gas topping at site for VRV System. 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 Diameter should not exceed 1250 & speed should not exceed 960 RPM) Scope: Price include fan with IE3 motor, 1no Birdscreeen, 1 nos Mounting set, Vibrartion isolator.	Lot	1	1	2.00								-	-		-	-
736	Tube Axial Fan -18500 CFM @ 30 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	-
	Tube Axial Fan -14000 CFM @ 30 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	-
	Tube Axial Fan -6200 CFM @ 30 mm STP	Nos	0	0	0.00 4.00				-	-		-	-	-	-	-	-
	Tube Axial Fan -6200CFM @ 35 mm STP Tube Axial Fan -6000 CFM @ 30 mm STP	Nos Nos	0	0	0.00				-	-		-	-	-	-	-	-
	Tube Axial Fan -5900 CFM @ 30 mm STP	Nos	0	0	0.00				<u> </u>	-		-	-	-		-	-
	Tube Axial Fan -5500 CFM @ 30 mm STP	Nos	0	0	0.00				-	-		-	-	-	-	-	-
	Tube Axial Fan -5300CFM @ 35 mm STP	Nos	2	0	2.00				-	-	-	-	-	-	-	-	-
	Tube Axial Fan -5750 CFM @ 35 mm STP Supply, installation, testing & commissioning 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		2	0	2.00				-	-	-	-	-	-	-	-	-

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District To Hospital	otal Quantity	Figures only)	Figures only)	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 on
747	Inline Exhaust Fan - 150 CFM @ 10 mm STP	Nos	0	2	2.00				-	-	-	-	-	-	-	-	
748	Inline Exhaust Fan - 200 CFM @ 10 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
749	Inline Exhaust Fan - 200 CFM @ 15 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
750	Inline Exhaust Fan - 250 CFM @ 10 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
751	Inline Exhaust Fan - 300 CFM @ 10 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
752	Inline Exhaust Fan - 350 CFM @ 10 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
753	Inline Exhaust Fan - 400 CFM @ 10 mm STP	Nos	0	2	2.00				-	-	-	-	-	-	-	-	
754	Inline Exhaust Fan - 450 CFM @ 20 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
755	Inline Exhaust Fan - 500 CFM @ 10 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
756	Inline Exhaust Fan - 520 CFM @ 10mm STP	Nos	2	0	2.00				-	-	-	-	-	-	-	-	
757	Inline Exhaust Fan - 550 CFM @ 10 mm STP	Nos	1	5	6.00				-	-	-	-	-	-	-	-	
758	Inline Exhaust Fan - 580 CFM @ 10 mm STP	Nos	2	0	2.00				-	-	-	-	-	-	-	-	
759	Inline Exhaust Fan - 600 CFM @ 10 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
760	Inline Exhaust Fan - 650 CFM @ 10 mm STP	Nos	0	7	7.00				-	-	-	-	-	-	-	-	
761	Inline Exhaust Fan - 700 CFM @ 10 mm STP	Nos	0	2	2.00				-	-	-	-	-	-	-	-	
762	Inline Exhaust Fan - 700 CFM @ 15 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
763	Inline Exhaust Fan - 750 CFM @ 10 mm STP	Nos	1	1	2.00				-	-	-	-	-	-	-	-	
764	Inline Exhaust Fan - 750 CFM @ 15 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
765	Inline Exhaust Fan - 800 CFM @ 10 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
766	Inline Exhaust Fan - 850 CFM @ 10 mm STP	Nos	8	0	8.00				-	-	-	-	-	-	-	-	
767	Inline Exhaust Fan - 900 CFM @ 10 mm STP	Nos	5	1	6.00				-	-	-	-	-	-	-	-	
768	Inline Exhaust Fan - 950 CFM @ 10 mm STP	Nos	8	0	8.00				-	-	-	-	-	-	-	-	
769	Inline Cabinet Exhaust Fan - 1000 CFM @ 10 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
770	Cabinet Inline Exhaust Fan -1350 CFM @ 15 mm STP	Nos	0	2	2.00				-	-	-	-	-	-	-	-	
771	Inline Cabinet Exhaust Fan - 1400 CFM @ 10 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
772	Inline Cabinet Exhaust Fan - 1450 CFM @ 10 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
773	Cabinet Inline Exhaust Fan -1650 CFM @ 15 mm STP	Nos	0	2	2.00				-	-	-	-	-	-	-	-	
774	Cabinet Inline Exhaust Fan -1800CFM @ 15 mm STP	Nos	2	0	2.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Exhaust Fan -1900CFM @ 15 mm STP Supply , installation , testing & commissioing of cabinet type inline Smoke Exhaust Fire rated 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	Nos	1	0	1.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Exhaust Fan - 600 CFM @ 20 mm STP	Nos	1	0	1.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Exhaust Fan - 300 CFM @ 15 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Exhaust Fan - 350 CFM @ 15 mm STP	Nos	0	2	2.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Exhaust Fan - 350 CFM @ 20 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Fresht Fan - 350 CFM @ 10 mm STP	Nos	1	0	1.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Fresht Fan - 450 CFM @ 10 mm STP	Nos	1	0	1.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Exhaust Fan - 750 CFM @ 20 mm STP Cabinet Inline Exhaust Fan - 900 CFM @ 20 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Exhaust Fan - 900 CFM @ 20 mm STP Cabinet Inline Exhaust Fan - 950 CFM @ 20 mm STP	Nos Nos	0	1	1.00				-	-	-	-	-	-	-	-	
	Cabinet Inline Exhaust Fan - 1050 CFM @ 20 mm STP	Nos	0	1	1.00				-					_	-		
	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	1103	· ·	1	1.00												
786	Cabinet Inline Fresht Fan - 300 CFM @ 15 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
787	Cabinet Inline Fresht Fan - 350 CFM @ 15 mm STP	Nos	0	2	2.00				-	-	-	-	-	-	-	-	
788	Cabinet Inline Fersh air Fan - 350 CFM @ 20 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	
789	Cabinet Inline Fresht Fan - 350 CFM @ 10 mm STP	Nos	1	0	1.00				-	-	-	-	-	-	-	-	
790	Cabinet Inline Fresht Fan - 450 CFM @ 10 mm STP	Nos	1	0	1.00				-	-	-	_	-	_	_	_	

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH	1		Udalguri DH	I		Total	
	·		District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 or
793	Cabinet Inline Fresht Fan - 900 CFM @ 20 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
794	Cabinet Inline Fresht Fan - 950 CFM @ 20 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
795	Cabinet Inline Fresht Fan - 1050 CFM @ 20 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	
796	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.	Nos	2	2	4.00				-	-	-	-	-	-	-	-	
	Total Bill no-5 HVAC works								-	-	-	-	-	-			
	Bill no-6 Electrical system																
O	ELECTRICAL WORKS & ELV WORKS																
	EXTERNAL ELECTRIFICATION																
	Sub Head 42: 11 KV Substation Work																
	11 KV H.T. METREING PANEL (INDOOR TYPE):																
	Supply, Receiving, Unloading, Storing, Shifting, Installation, Testing & Commissioning of Outdoor type floor mounted, dust, damp and vermin proof, cubicle HT. Metreing Panel made out of 14 gauge CRCA sheet steel																
797	complete with 5Amp electronic trivector Metre, C.T.'s of $80/5$ Amp, 0.5 Class, 10VA Burden, and P.T's of $11KV/\sqrt{3}$, $110V/\sqrt{3}$, $100VA$ conforming to relevant IS Standards and complete as required. H.T. Metreing cubicle along with C.T.'s, P.T.'s and trivector Metre 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	1	2.00				-	-	-	-	-	-	-	-	
	H.T. EXTENTION VCB PANEL BOARD																
	11 KV HT Extention VCB Panel Board (Outdoor Type) (1 set Incomming / Outgoing)																
	Supply, Receiving, Unloading, Shifting, Installation Testing & Commissioning of 11 KV Single Breaker Vacuum Circuit Breaker Panel Board as 1 Incomming/Outgoing shall be metal clad floor mounting complete.																
	800 A Vacuum circuit breaker of (350 MVA)18.3 KA RMS for 3 second ruputuring 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 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 ruputuring 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 No. Single Phase double core current transformer 80/5 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 $11\text{KV}/\sqrt{3}$, $110\text{V}/\sqrt{3}$, 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.																

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity		Figures only)	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 onl
	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. Digital Multifunction Metre - Quasar																
	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)																
	800A color coded heat shrinkable sleeved TP Aluminium 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.	'															
798	H.T. Panel described as above	set	1	1	2.00				-	-	-	-	-	-	-	-	
	11 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 11KV) and outgoing (1 run x 3C x 185 Sqmm XLPE 11 KV) cable and copper bus bar arrangement. The panel shall comprise of the following:	, L															
	Supply, Receiving, Unloading, Shifting, Installation Testing & Commissioning of 11 KV Three Breaker Vacuum Circuit Breaker Panel Board as 1 Incomming & 2 Outgoing shall be metal clad floor mounting complete as per specification and as described.																
	800 A Vacuum circuit breaker of 18.3 kA RMS for 1 second ruputuring 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.	l															
	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.																
	Three Panel Board (1 I/C + 2 O/G)																
	Incomer:- 1 No. 11kV 800 A 18.3kA drawout type VCB with motorised spring charge mechanism for 240V AC, closing & tripping coils suitable for 24V DC	.															
	Each incomer comprising with following accessaries.																
	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																

						Rate										
									Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Total Quantity Hospital	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures	JPY (in Figures	USD (in Figures	INR (in Figures	JPY (in Figures		INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
	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							only)	only)	only)	only)	only)	only)	, , ,	, ,	, , ,
	3 Nos. Resin Cast CTs 80/5A with Core 1:15VA CL 1 Core 2:15VA CL 5P10															
	3 Nos. PT - $11kV/\sqrt{3}//110/\sqrt{3}V$,CL 1.0, 100VA															
	Breaker Panel indication Lamps : 8 Nos. ON/OFF/TRIP/TRIP Ckt Healthy/Spring Charged,RYB Indicator															
	Switches and other Accessories															
	9 nos.Fuses															
	1 No. Heater 1 No. Thermostat															
	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															
	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 accessaries.															
	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 40/5A 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															
	6 nos.Fuses															
	1 No. Heater															
	1 No. Thermostat															
	1 No. 8 Window Annunciator															
	1 No. Plug & Socket															
	1 No. Test Terminal Block															

				T	I		Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital		Total Quantity		Figures only)	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. Local/Remote	Selector Switch																
Metres																	
1 No. Analog AmM																	
Relays	unction Metre - Quasar																
	C + E/F - IDMT+Inst)																
•	ay for transformer fault																
1 No. AVAJH13 M 1 No. TCS Relay	aster trip relay (Ashida)																
	220 Volt A.C. / 24 Volt D.C. complete as required.																
shall be wired upto coding. The termina 2.5sqmm subjected	acts of breaker or any other equipment inside the breaker the outgoing terminal strip with appropriate ferrules / l strip rating shall be suitable for connecting two wires of to providing minimum size strip suitable for 4/6sqmm.It No. Earthing Truck for cable & Busbar earthing.																
799 H.T. Panel describe	l as above	set	1	1	2.00				-	-	-	-	-	-	-	-	
800 1000 KVA, 11KV/4	33V TRANSFORMER	set	0	0	0.00				-	-	-	-	-	-	-	-	
Supply, Installation	Testing & Commissioning of ISI marked copper wound																
having permissible loss values for 11 H level conforming to 1180 Part-I: 2014 duct on LV Side, O	s, winding temperature rise of 45°C/40°C first fill oil, otal loss values not exceeding 7.5% of the maximum total V as per Energy Efficiency Level - 2 at basic Insulation ISS 2026 (Part- I to Part - II), latest ammended and IS described as above with Cable box on HV side and Bus N load Tap changer(OLTC) +16% to -16%, RTCC Panel is per the following continuous rating																
Transformers 11/0. Standard accessoric having permissible loss values for 11 I level conforming to 1180 Part-I: 2014	Testing & Commissioning of ISI marked copper wound 433 KV, Three Phase, 50 Hz, DYN 11, ONANtype, s, winding temperature rise of 45°C/40°C first fill oil, otal loss values not exceeding 7.5% of the maximum total tV as per Energy Efficiency Level - 2 at basic Insulation ISS 2026 (Part- I to Part - II), latest ammended and IS described as above with Cable box on HV side and Bus 4N load Tap changer(OLTC) +16% to -16%, RTCC Panel		2	2	4.00				-	-	-	-	-	-	-	-	-
Design, Manufactu Commissioning of common base fram silencer, antivibrati space heater for al	TING WITH ACOUSTIC ENCLOSER: ring, Testing at works, Supply, Installation, Testing & Radiator cooled diesel engine of following rating on a alongwith ECP & other accessories like hospital grade on pad, batteries with leads, day oil fuel tank, suitable ternator, suitable arrangement of LT cable box for LT a upto 4 runs 3.5C x 300 cable Termination etc. as per eation.																
	Il confirm to Bureau of Indian Standards safety standards; and CPWD specifications.																
DG Set shall have s	<u> </u>																
The D.G. Set shall b	e Air cooled with Radiator																
Working at ambient upto 95%.	temperature between -5°C to 50°C and relative humidity																
Nominal output vol	tage of engine/alternator set shall be 415 volts 50 Hz AC adjustment at all conditions of load with coarse and fine to $0.00000000000000000000000000000000000$																
	be maintained at 50 Hz \pm 2% for the set. The output sinusoidal at all load conditions.																
	or set shall be capable of taking 10% over-load for a																

SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
5L. 110	Description of Item		District Hospital		Total Quantity		Figures only)	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 on
	ne Engine shall be capable to minimum 60% bulk load of the rating during ansfer of the load from NO Load position without tripping.								•				.,				
is	ne set may be idle for a long time except for periodical test whenever there a electrical supply failure, the set may required to run continuously for period even exceeding 24 hours.																
Er	ngine should have minimum lube oil change period 500 Hrs.																
co wi	ne set shall have vibration limit less than 130 microns (as per BS:4999 Part 142) & noise level shall be meet New CPCB - IV norms under all anditions of load. The efficient residential silencer shall be provided with or ithout catalytic converter on-line scrubber & the set shall meet EURO-II press for D.G Sets, for the exhaust. Air inlet shall also be provided.																
co ter BS be op lea me dr	the engine shall be stationary, compression ignition, totally enclosed, water coled, 4 stroke direct injection, cold battery starting, turbo charged and low imperature with after cooled Radiator Cooled 1500 RPM in accordance to S 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 of timum time. The DG Engine & the batteries shall be designed to take up at last six starting attempts beyond which the system shall be protected by eans of an over crank relay. The successful bidder will submit GFC awings of the equipments/accessories selected for this work for the opproval.																
fre	ne governor shall be Isochronous, electronic digital type with a steady state equency variation of +/25%. The transient performance shall comply with O 8528-5, Class G3 requirements.																
de	ne engine shall be water cooled heat exchanger type or radiator cooled pending on its capacity. DG Set shall be adequately designed for ontinuous operation on ambient conditions at 50 deg C.																
Vocas co as Th wi wi 99 10 am	ne alternator shall be brushless synchronous and suitable for 3 phase 415 olts, 4 wire, 50 Hz, 0.8 PF, 1500 RPM. The alternator shall be suitable for supling directly to the diesel engine It shall be Drip proof, screen protected per IP-23. The alternator shall be single bearing type & self ventilating, ne alternators shall be continuously rated and shall have class _H' insulation in a temperature rise restricted to that of class F designed and built to inthstand tropical conditions. It shall generally conform to BS: 5000 (Part - D) / 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 rangement for alternator shall be suitable for Bus Duct connections of lequate size to deliver the full load of the alternator.																
(D fu wi ad	ne 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 ll load under normal load changes. It shall be of static type and complete ith cross current compensation. The regulator shall be provided with voltage ljusting potentioMetre, and shall be complete with all alarm contacts, ternal wiring, etc.																
or pe ca up mi	elf excited, self regulated and providing alternator output regulation at plus minus 0.25%. The alternator shall be provided with a pilot-excited, ermanent magnet-excited generator (PMG) for superior short circuit pabilities. Bidders to specify sustained short circuit current capabilities for to 10 seconds. The alternator shall be provided with sealed Barings to give inimum service life of 40,000 Hours. The Bidders to specify the maximum ting of the motor that can be started direct on line without any base load, ith 50% base load, restricting the Voltage depth to 20%.																
ca pij an	ay service fuel tank shall be made of 3 mm thick MS sheet of 990 litres pacity including HSD fuel handling piping with M.S. heavy class ERW ping (Class-C) conforming to IS: 1239 with necessary clamps, supports, it vibration mountings, hangers and fittings such as bends, tees, reducers c. painted																

							Rate										
SL. no	Description of Item	¥1	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	District Hospital	District	Total Quantity		Figures only)	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 o	only) USD (in Figures only)
	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.																
802	500 KVA DG set with suitable capacity of Day Oil Tank describe as above	set	0	0	0.00				-	-	-	-	-	-	-		-
	DIESEL GENERATING WITH ACOUSTIC ENCLOSER: 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 \pm 5%.																
	The frequency shall be maintained at 50 Hz \pm 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 New CPCB - IV 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.	•															

						Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Total Quantity Hospital	Figures only)	Figures only)	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 potentioMetre, 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 A units of Electric power are little at leading regarding from 40% to															
	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,															

										Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures	JPY (in Figures	USD (in Figures	INR (in Figures	JPY (in Figures	USD (in Figures	INR (in Figures only)	JPY (in Figures only) USD (in Figures o
803	625 KVA DG set with suitable capacity of Day Oil Tank describe as above	set	2	2	4.00				only)	only)	only)	only)	only)	only)	-	-	
	EXHAUST PIPING 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.																
	300 mm dia MS pipe. (4.50 mm thick)	metre	50	50	100.00				-	-	-	-	-	-	-	-	
805	150 mm dia MS pipe. (4.50 mm thick)	metre	8	8	16.00				-	-	-	-	-	-	-	-	
1	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.																
806	300 mm dia MS pipe.	metre	50	75	125.00				-	-	-	-	-	-	-	-	
	150 mm dia MS pipe.	metre	8	12	20.00				-	-	-	-	-	-	-	-	
	Exhaust Silencer (For 500 KVA D.G. Set)	each	0	0	0.00				-	-	-	-	-	-	-	-	
809	Exhaust Silencer (For 625 KVA D.G. Set)	each	2	2	4.00				-	-	-	-	-	-	-	-	
810	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.)	set	2	3	5.00				-	-	-	-	-	-	-	-	
,	Supply, Installation, Testing & Commissioning of Lightning Arrester system with required earthing pit, earthing strip etc as per IEC/IS code as complete as required.																
811 812	Supply and fixing of 300 mm dia ss bellow with necessary matching flanges Supply and fixing of GI ducting for hotair	set sqm	2 25	3 40	5.00 65.00				-	-					-	-	
912	Supply and isntallation of 25 mm dia C class fuel pipe with flanges and bend and two coating of painting	metre	40	50	90.00				-	-					-	-	
	supply and fixing of 25 mm ball valve	each	2	3	5.00				-	-	-	-	-	-	-	-	
	Supply and fixing of ss float valve for fuel elevated tank	each	1	2	3.00				-	-	-	-	-	-	-	-	
	Supply, Erection, Testing & Commissioning of Main LT panel. 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 ioint 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. All panels should be PTTA(IEC 61439) type panels are considered.																
	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 parameters for																

						Rate										
10	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital Total Quantity	Figures only)	Figures only)	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 Figur
Ι	NCOMER:							.,	· · · · · · · · · · · · · · · · · · ·				- /			
	NO. INCOMER AND EACH INCOMER BREAKER FEEDER SHALL IAVE FOLLOWING FOR EACH BREAKER: (FOR 500 KVA D.G. SET)-															
E	000 Amp TP Electrically operated horizontal drawout type Air Circuit treaker microprocessor based releases for O/C, S/C & earth fault protection with instantaneous including 300 Amps TP Neutral Contactor. (50 KA)															
A	one set of Generator control relay for Each D.G. Set with accessories for MF, Synchronizing.															
1 s	No. digital ammeter, ammeter selector switch, digital voltmeter, Voltmeter elector switch.															
	No. Load Manager EM 6400 with RS 485 port Suitable for BMS ompatible															
1	no. REF relay															
	nnounciation window to cover LLOP, HWT, OIL Pressure, U/V, O/V, U/F,															
S	N/F, O/C, E/F, REF relay faults shall be provided. 2 nos phase reversal relay nall be provided.															
tı	ngine should trip on LLOP, HWT, oil temp, O/V, O/F and breaker should ip on other faults.															
I I	nitially U/V & U/F will be bye passed till oil pressure is picked up.															
o	ndicating lights for ACB ON / OFF, ACB trip, neutral contactor ON, D.G. n mains, D.G. fails to start.															
	senerator start /stop facility through push button from panel, necessary ranking relay shall be provided.															
S	uitable battery charger for 24V 360 AH with d.c voltmeter & d.c ammeter. OC voltmeter and ammeter will be analouge type.															
V	Whenever D.G. stop through PB, load shall be disconnected first.															
	NO. INCOMER AND EACH INCOMER BREAKER FEEDER															
2	HALL HAVE FOLLOWING: (FOR 1000 KVA TRANSFORMER)- 000 Amp FP Electrically operated horizontal drawout type Air Circuit treaker microprocessor based releases for O/C, S/C & earth fault protection															
	rith instantaneous. (50 KA)															
	No. Indicating lamps to show the incoming power along with 2A SP MCB.															
S	No. digital ammeter, ammeter selector switch, digital voltmeter, Voltmeter elector switch.															
c	No. Load Manager EM 6400 with RS 485 port Suitable for BMS ompatible No. REF relay faults shall be provided. 2 nos phase reversal relay shall be															
	rovided.															
Г	NSTRUMENTS															
4 S	Nos. Digital Multifunction Meter with inbuilt Selector Switch & Protective P MCB (96mm square) (one for each Incoming Breaker) Suitable for BMS															
iı	Sets of phase indicating lights (RYB) with 2A MCB (one set for each acoming breaker). Sets breaker 'ON' & 'OFF' indicating lamp (one set for each incoming															
b	reaker).															
b	Sets trip circuit healthy indicating lamp (one set for each incoming reaker).															
	Sets auto trip indicating lamp (one set for each incoming breaker). Set of CT's one of 2000/ 5Amp ratio for APFC relay.															
4	Nos. over & under frequency relay															
	Nos of Undervoltage & Overvoltage Protection. Nos Reverse power relay.															
	Nos 6 window announciator with complete accessories. Nos TVSS (Type I + II) with required earthing.															
4	Nos's,phase sequence relay															
2	set of 2Amps MCB															
Е	USCOUPLER No. 2000Amp FP Electrically operated horizontal drawout type Air Circuit															

							Rate									
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
	Description of from	Cint	District Hospital		Total Quantity		Figures only)	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 of
BUSBARS																
	bars of aluminium 0.7 Amp/Sqmm															
	I - I															
OUTGOING																
EACH OUTGOING	FEEDER SHALL HAVE DIGITAL ENERGY Metre															
03Nos. 800 Amp FI	Moulded Case Circuit Breaker.															
02Nos. 800 Amp TI	PN Moulded Case Circuit Breaker.															
03 Nos. 400 Amp F	P Moulded Case Circuit Breaker.															
07 Nos. 250 Amp F	P Moulded Case Circuit Breaker.															
03 Nos. 200 Amp F	P Moulded Case Circuit Breaker.															
10 Nos. 125 Amp F	P Moulded Case Circuit Breaker.															
Notes: (PTTA Type	panels are considered)															
	s shall have suitable range Digital Multi Function Metre															
	ch, CTs and phase indicating light protected by 2															
All breakers shall be diagram(Lagic Tabe	e electrically/ mechanically interlocked as per schematic el).															
All outgoing shall b	e suitable for provision of shunt trip coil in future.															
All outgoing/incom	ing feeder shall have the provision for internal lighting.															
CT's on R/Y phase	for PFCR for each I/C feeder.															
	AFM Metre (modbus output protocol to BAS for energy tial free contacts or remote indication).shall be provided as outgoing feeder															
All incoming as we BAS system.	ll as outgoing air circuit breaker shall be compatible with															
	's shall be 25 KA breaking capacity & above 200A KA breaking capacity.															
Space heater with the	nermostate shall be provided in the above panel.	set	0	0	0.00				-	-	-	-	-	-	-	-
Main LT PANEL																
floor mounted, free vermin proof, from manufactured exact complete with the terminals, earth bus joint shall be protect use all draw out 3 p. phase, 50 Hz, 4 wire required as per consispecifications and temperature of LT I necessary exhaust considering temperature.	esting & Commissioning of Main LT panel. this will be standing, compartmentalized, indoor duty, dust proof, ont operated, electrical panel fabricated, painted and ally as per specifications laid in this document and will be main and auxiliary bus bars, interconnection, earth and will be powdered coated finished. All the busbar eted by clip on type sleeve. The DG control panel shall cosition withdrawn type breakers suitable for 415 V AC, 3 are supply system and will have fault level of 50 KA or as sultant approval. The panel will be made as per detailed drawings forming part of this document. (Under no case Panel shall be more at any point of the panel, otherwise fan shall be have to provided) Bus bar calculations atture derating, enclosure derating, sleeving derating must mitted for checking. All panels should be PTTA(IEC are considered.															
adjustable over coinstantaneous as me	utgoing breaker shall have microprocessor release with urrent, short circuit & earth fault protection with entioned in specification. The Panel will be made as per ns & drawings forming part of this document. Fault level KA.															

						Rate									
. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
	•		District Hospital	District Total Quantity Hospital	Figures only)	Figures only)	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 on
	to 250 Amp shall have thermal release with adustable														
	ircuit & earth fault protection and above shall have ease with adjustable overload, short circuit & earthfau														
protection. The pa	nel 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 Managemen	t,													
Electrically Interlo	cking and synchronizing through synchronizing relay. PL Monitor, required software to monitoring the all parameter	C													
	Panel & Main L.T. Panel.	15													
INCOMER:															
INCOMER.															
	AND EACH INCOMER BREAKER FEEDER SHALL														
HAVE FOLLOWI	NG FOR EACH BREAKER: (FOR 500 KVA D.G. SET)	•													
2000 Amp TP E	ectrically operated horizontal drawout type Air Circu	it													
	essor based releases for O/C, S/C & earth fault protection	on													
with instantaneous	including 300 Amps TP Neutral Contactor. (50 KA)														
One set of Genera AMF, Logic.	tor control relay for Each D.G. Set with accessories for	or													
	eter, ammeter selector switch, digital voltmeter, Voltmeter	er													
1 No. Load Mar	nager EM 6400 with RS 485 port Suitable for BM	S													
compatible 1 no. REF relay															
	adow to cover LLOP, HWT, OIL Pressure, U/V, O/V, U/I	F													
	F relay faults shall be provided. 2 nos phase reversal rela														
Engine should trip trip on other faults	on LLOP, HWT, oil temp, O/V, O/F and breaker should	d													
	F will be bye passed till oil pressure is picked up.														
Indicating lights for mains, D.G. fail	or ACB ON / OFF, ACB trip, neutral contactor ON, D.C	3 .													
	s to start. top facility through push button from panel, necessar	y													
cranking relay shal	l be provided.														
	arger for 24V 360 AH with d.c voltmeter & d.c ammete ammeter will be analouge type.	r.													
	p through PB, load shall be disconnected first.														
	AND EACH INCOMER BREAKER FEEDER SHAL NG: (FOR 1000 KVA TRANSFORMER)-	L													
2000 Amp FP E	ectrically operated horizontal drawout type Air Circu	it													
	essor based releases for O/C, S/C & earth fault protection														
3 No. Indicating la	mps to show the incoming power along with 2A SP MCB eter, ammeter selector switch, digital voltmeter, Voltmeter														
selector switch.	nager EM 6400 with RS 485 port Suitable for BM														
compatible	aults shall be provided. 2 nos phase reversal relay shall be														
provided.	and some of provided. 2 nos phase reversar relay share														
INSTRUMENTS															
	tifunction Meter with inbuilt Selector Switch & Protectiv quare) (one for each Incoming Breaker) Suitable for BM														
4 Sets of phase in incoming breaker).	ndicating lights (RYB) with 2A MCB (one set for each	h													
	N' & 'OFF' indicating lamp (one set for each incomin	ıg													

							Rate									
										Silchar DH			Udolove DU			Total
SL. no	Description of Item	Unit		Udalguri	Total Ossastitus	INR (in	JPY (in	USD (in		Shenar DH			Udalguri DH			Total
			District Hospital	Hospital	Total Quantity	Figures only)	Figures only)	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 CT's o	one of 2000/ 5Amp ratio for APFC relay.								,							
	t under frequency relay															
4 Nos of Unde	ervoltage & Overvoltage Protection.															
4 Nos Reverse	e power relay.															
	ow announciator with complete accessories.															
	(Type I + II) with required earthing.															
	sequence relay															
2 set of 2Amps	ss MCB															
BUSCOUPLE	ER															
1 No. 2000 Ar	mp FP Electrically operated horizontal drawout type Air Circuit scoupler with interlocking arrangement with incomers. (50 KA)															
1 Sets of indic	cating lamps for ON & OFF for bus coupler.															
BUSBARS																
2000 Amp TP	PN busbars of aluminium 0.7 Amp/Sqmm															
OUTGOING																
	GOING FEEDER SHALL HAVE DIGITAL ENERGY Metre															
03Nos. 800 Ai	mp FP Moulded Case Circuit Breaker.															
02 Nos. 800 A	Amp TPN Moulded Case Circuit Breaker.															
03 Nos. 400 A	Amp FP Moulded Case Circuit Breaker.															
07 Nos. 250 A	Amp FP Moulded Case Circuit Breaker.															
06 Nos. 200 A	Amp FP Moulded Case Circuit Breaker.															
08 Nos. 125 A	Amp FP Moulded Case Circuit Breaker.															
Notes: (PTTA	Type panels are considered)															
with selector	feeders shall have suitable range Digital Multi Function Metre switch, CTs and phase indicating light protected by 2 except capacitor feeders.															
diagram(Lagic																
All outgoing s	shall be suitable for provision of shunt trip coil in future.															
All outgoing/in	incoming feeder shall have the provision for internal lighting.															
CT's on R/Y p	phase for PFCR for each I/C feeder.															
management (onic MFM Metre (modbus output protocol to BAS for energy (Potential free contacts or remote indication).shall be provided as well as outgoing feeder															
	as well as outgoing air circuit breaker shall be compatible with															
BAS system. upto 200A M MCCB's shall	MCCB's shall be 25 KA breaking capacity & above 200A be 36KA breaking capacity.															
Space heater w	with thermostate shall be provided in the above panel.															
817		set	0	0	0.00				-	-	-	-	-	-	-	-
Main LT PAN	JEI															
IVIAIII LI PAIN	NDD															

L. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
L. IIO	Description of Item	Cint	District Hospital	District Hospital Total Quantity	Figures only)	Figures only)	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
	Supply, Erection, Testing & Commissioning of Main LT panel. 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.														
	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 parameters for Synchronizing Panel & Main L.T. Panel.														
	INCOMER:														
	2 NO. INCOMER AND EACH INCOMER BREAKER FEEDER SHALL HAVE FOLLOWING FOR EACH BREAKER: (FOR 625 KVA D.G. SET)-														
	2500 Amp TP Electrically operated horizontal drawout type Air Circuit Breaker microprocessor based releases for O/C, S/C & earth fault protection with instantaneous including 400 Amps TP Neutral Contactor. (50 KA)														
	One set of Generator control relay for Each D.G. Set with accessories for AMF, Synchronizing.														
	No. digital ammeter, ammeter selector switch, digital voltmeter, Voltmeter selector switch. No. Load Manager EM 6400 with RS 485 port Suitable for BMS compatible														
	1 no. REF relay Announciation 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. 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 analouge type.														

							Silchar DH			Udalguri DH			Total	
Description of Item	Unit Silchar District	_	INR (in Figures	JPY (in Figures	USD (in Figures								- Jui	
	Hospital		only)	only)	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 NO. INCOMER AND EACH INCOMER BREAKER FEEDER SHALL HAVE FOLLOWING: (FOR 1250 KVA TRANSFORMER)-														
2500 Amp FP Electrically operated horizontal drawout type Air Circuit Breaker microprocessor based releases for O/C, S/C & earth fault protection with instantaneous. (50 KA)														
3 No. Indicating lamps to show the incoming power along with 2A SP MCB.														
1 No. digital ammeter, ammeter selector switch, digital voltmeter, Voltmeter selector switch.														
1 No. Load Manager EM 6400 with RS 485 port Suitable for BMS														
compatible 1 No. REF relay faults shall be provided. 2 nos phase reversal relay shall be provided.														
INSTRUMENTS														
4 Nos. Digital Multifunction Meter with inbuilt Selector Switch & Protective SP MCB (96mm square) (one for each Incoming Breaker) Suitable for BMS compatible.														
4 Sets of phase indicating lights (RYB) with 2A MCB (one set for each incoming breaker).														
4 Sets breaker 'ON' & 'OFF' indicating lamp (one set for each incoming breaker).														
4 Sets trip circuit healthy indicating lamp (one set for each incoming breaker).														
4 Sets auto trip indicating lamp (one set for each incoming breaker).														
2 Set of CT's one of 2500/ 5Amp ratio for APFC relay.4 Nos. over & under frequency relay														
4 Nos of Undervoltage & Overvoltage Protection.														
4 Nos Reverse power relay.														
4 Nos 6 window announciator with complete accessories.														
4 Nos TVSS (Type I + II) with required earthing.														
4 Nos's,phase sequence relay														
2 set of 2Amps MCB														
BUSCOUPLER														
1 No. 2500Amp FP Electrically operated horizontal drawout type Air Circuit Breaker as buscoupler with interlocking arrangement with incomers. (50 KA)														
1 Sets of indicating lamps for ON & OFF for bus coupler.														
BUSBARS														
2500 Amp TPN busbars of aluminium 0.7 Amp/Sqmm														
OUTGOING														
EACH OUTGOING FEEDER SHALL HAVE DIGITAL ENERGY Metre														
02Nos. 1250 Amp FP Air Circuit Breaker.														
02Nos. 1000 Amp TPN Air Circuit Breaker.														
07 Nos. 400 Amp FP Moulded Case Circuit Breaker.														
09 Nos. 250 Amp FP Moulded Case Circuit Breaker.02 Nos. 200 Amp FP Moulded Case Circuit Breaker.														
08 Nos. 125 Amp FP Moulded Case Circuit Breaker.														
Notes: (PTTA Type panels are considered)														
All outgoing feeders shall have suitable range Digital Multi Function Metre with selector switch, CTs and phase indicating light protected by 2														
amps MCBs except capacitor feeders.														

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
5L, 110	Description of Item	Omt	District Hospital		Total Quantity	Figures only)	Figures only)	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 on	ly) USD (in Figures of
	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	L															
	BAS system. upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
818	Space heater with thermostate shall be provided in the above panel.	set	0	0	0.00				_	_	_	-	_	_	_		-
			-														
	Main LT PANEL																
	Supply, Erection, Testing & Commissioning of Main LT panel. 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.																
	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 parameters for Synchronizing Panel & Main L.T. Panel.	;															
	INCOMER:																
	2 NO. INCOMER AND EACH INCOMER BREAKER FEEDER SHALL HAVE FOLLOWING FOR EACH BREAKER: (FOR 625 KVA D.G. SET)-																
	2500 Amp TP Electrically operated horizontal drawout type Air Circuit Breaker microprocessor based releases for O/C, S/C & earth fault protection with instantaneous including 400 Amps TP Neutral Contactor. (50 KA)	i.															
	One set of Generator control relay for Each D.G. Set with accessories for AMF, Synchronizing.																
	1 No. digital ammeter, ammeter selector switch, digital voltmeter, Voltmeter selector switch.																
	1 No. Load Manager EM 6400 with RS 485 port Suitable for BMS																

					Rate										
no	Description of Item	Unit Silcha	r Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	Description of Item	Distric Hospit	t District Total Quantity		Figures only)	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 Fig
	over LLOP, HWT, OIL Pressure, U/V, O/V, U/F, oults shall be provided. 2 nos phase reversal relay						,				,				
Engine should trip on LLO trip on other faults.	P, HWT, oil temp, O/V, O/F and breaker should														
Initially U/V & U/F will be	bye passed till oil pressure is picked up.														
on mains, D.G. fails to start.	ON / OFF, ACB trip, neutral contactor ON, D.G.														
Generator start /stop facili cranking relay shall be provi	ty through push button from panel, necessary ded.														
D.C voltmeter and ammeter	24V 360 AH with d.c voltmeter & d.c ammeter. will be analouge type. a PB, load shall be disconnected first.														
	ACH INCOMER BREAKER FEEDER SHALL R 1250 KVA TRANSFORMER)-														
2500 Amp FP Electrically Breaker microprocessor base with instantaneous. (50 KA)	operated horizontal drawout type Air Circuit ed releases for O/C, S/C & earth fault protection														
3 No. Indicating lamps to sh	ow the incoming power along with 2A SP MCB.														
selector switch.	neter selector switch, digital voltmeter, Voltmeter														
1 No. Load Manager EM compatible	I 6400 with RS 485 port Suitable for BMS														
1 No. REF relay faults shall provided.	be provided. 2 nos phase reversal relay shall be														
SP MCB (96mm square) (or	n Meter with inbuilt Selector Switch & Protective ne for each Incoming Breaker) Suitable for BMS														
	lights (RYB) with 2A MCB (one set for each														
incoming breaker). 4 Sets breaker 'ON' & 'OF breaker).	F' indicating lamp (one set for each incoming														
4 Sets trip circuit healthy breaker).	indicating lamp (one set for each incoming														
4 Sets auto trip indicating la 2 Set of CT's one of 2500/5.	mp (one set for each incoming breaker).														
4 Nos. over & under frequen	ncy relay														
4 Nos of Undervoltage & Ov 4 Nos Reverse power relay.	-														
4 Nos 6 window announciate 4 Nos TVSS (Type I + II) w	ith required earthing.														
4 Nos's,phase sequence relay 2 set of 2Amps MCB															
BUSCOUPLER															
	ally operated horizontal drawout type Air Circuit nterlocking arrangement with incomers. (50 KA)														
	r ON & OFF for bus coupler.														
BUSBARS 2500 Amp TPN busbars of a	uluminium 0.7 Amp/Sqmm														
OUTGOING EACH OUTGOING FEEDE	ER SHALL HAVE DIGITAL ENERGY Metre														
02Nos. 1600 Amp FP Air C	Circuit Breaker.														
07 Nos. 400 Amp FP Mould															

										Silchar DH			Udalguri DH			Total	
L. no	Description of Item	Unit	Silchar District	Udalguri District	Total Quantity	INR (in Figures	JPY (in Figures	USD (in Figures								Total	
			Hospital	Hospital	Total Quality	only)	only)	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 on
	Notes: (PTTA Type panels are considered)																
	All outgoing feeders shall have suitable range Digital Multi Function Metre																
	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(Lagic Tabel). 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.																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
	Space heater with thermostate shall be provided in the above panel.																
319		set	1	1	2.00				-	-	-	-	-	-	-	-	
	APFC Panel (325 KVAR)-2SET-(EACH CAPACITOR PANEL SHALL HAVE FOLLOWING)-																
	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 encloser) 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.																
	out at ODM's plant only.																
	INCOMING 800 amps TPN MCCB with following accessories.																
	1 Nos. 0 to 500 Volt digital voltMetre with VoltMetre 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. 8 Step Automatic Power Factor Correction relay (APFC relay).																
	BUSBARS																
	800 Amp TPN busbars of aluminium alloy 0.8 Amp/Sqmm																
	OUTGOING																
	5 Nos. 125 Amp TP MCCB. 3 Nos. 63 Amp TP MCCB.																
			The second secon	1	1												i i

					Rate									
								Silchar DH			Udalguri DH			Total
SL. no Description of Item	Γ	Silchar Udalg District Distr Iospital Hosp	ict Total Quantity	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
3 Nos. capacitor duty contactor (one for each 25KVAR capacitor unit).								V.	,	.,	<u> </u>			
1 Nos. capacitor for Transformer compansation (one for each 20KVAR capacitor unit).														
5 Nos. 480V 50 KVAR Capacitor Bank with 7% Copper Winding reactor.														
3 Nos. 480V 25 KVAR Capacitor Bank with 7% Copper Winding 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 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														
upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.														
APFC Panel describe as above (PTTA Type panels are considered)	set	0 0	0.00				-	-	-	-	-	-	-	
APFC Panel (350 KVAR+40KVAR)-2SET-(EACH CAPACITOR PANEL SHALL HAVE FOLLOWING)-														

SL. no	Description of Item	Unit Silchar Udalg		INR (in	JPY (in	USD (in	· · · · · · · · · · · · · · · · · · ·	Silchar DH			Udalguri DH			Total	I
		District Distri Hospital Hospi	ict Total Quantity	Figures only)	Figures only)	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 Fi
	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 encloser) 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														
	1000 amps TPN ACB with following accessories.														
	1 Nos. 0 to 500 Volt digital voltMetre with VoltMetre Selector Switch &														
	Protective SP MCB (96mm square). 1 No. 0 to 1000 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.														
	8 Step Automatic Power Factor Correction relay (APFC relay).														
	BUSBARS														
	800 Amp TPN busbars of aluminium alloy 0.8 Amp/Sqmm														
	OUTGOING														
	1 Nos. 200 Amp TP MCCB.														
	4 Nos. 125 Amp TP MCCB.														
	3 Nos. 63 Amp TP MCCB.														
	2 Nos. 32 Amp TP MCCB.														
	1 Nos. capacitor duty contactor (one for each 100KVAR capacitor unit).														
	4 Nos. capacitor duty contactor (one for each 50KVAR capacitor unit).														
	1 Nos. capacitor duty contactor (one for each 25KVAR capacitor unit).														
	1 Nos. capacitor duty contactor (one for each 15KVAR capacitor unit).														
	, , , , , , , , , , , , , , , , , , ,														
	1 Nos. capacitor duty contactor (one for each 10KVAR capacitor unit).														
	1 1103. capacitor daty contactor (one for each 10K v AK capacitor unit).														
	2 Nos. capacitor for Transformer compansation (one for each 20KVAR capacitor unit).														
	capacitor unity.														
	1 Nos. 480V 100 KVAR Capacitor Bank with 7% Copper Winding reactor.														
	,														
	4 Nos. 480V 50 KVAR Capacitor Bank with 7% Copper Winding reactor.														
	4 INOS. 400 V 30 K V AK Capacitor Bank with /% Copper Winding reactor.														
	1 Nos. 480V 25 KVAR Capacitor Bank with 7% Copper Winding reactor.														
											A CONTRACTOR OF THE CONTRACTOR				

						Rate										
L. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
v	Description of reem		District Hospital	District Hospital Total Quantity		Figures only)	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
	1 Nos. 480V 10 KVAR Capacitor Bank with 7% Copper Winding reactor.															
	2 Nos. 480V 20 KVAR Capacitor Bank with 7% Copper Winding reactor.															
	10 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 100/50 / 25/15/10 /20 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															
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.															
821	APFC Panel describe as above (PTTA Type panels are considered)	set	2	2 4.00				-	-	-	-	-	-	-	-	
	BUSDUCT															
	Supply and erection of Busbar Trunking-3 Ph., 4-wire, 415V_, 50-Hz. Air Insulated Busduct shall be fabricated out of 14 SWG CRCA Sheet with															
	adequate sizing, double earthing and ventilation grills, vermin proof Degree															
822	of protection IP-55 Busbar Rating - Electrolytic grade Aluminium 2000A.TPN (From TRANSFORMER & DG to MV panel)	Metre	0	0 0.00				-	-	-	-	-	-	-	-	
	BUSDUCT															
	Supply and erection of Busbar Trunking-3 Ph., 4-wire, 415V_, 50-Hz. Air															
922	Insulated 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)		74	158 232.00				-	-	-	-	-	-	-	-	
										I .		I .				

							Rate									
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
			District Hospital		Total Quantity		Figures only)	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 on
	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.															
824	4 core, 1.5 sqmm	metre	800	950	1750.00				-	-	-	-	-	-	-	-
825	8 core, 1.5 sqmm	metre	750	845	1595.00				-	-	-	-	-	-	-	-
826	12 core, 1.5 sqmm	metre	500	685	1185.00				-	-	-	-	-	-	-	-
	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.															
827	3C x 300 sqmm, 11 KV XLPE	metre	95	158	253.00				-	-	-	-	-	-	-	-
828	3C x 240 sqmm, 11 KV XLPE	metre	121	105	226.00				-	-	-	-	-	-	-	-
	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.															
829	300 sq. mm	each	8	10	18.00				-	-	_	-	-	-	_	-
830	240 sq. mm	each	8	8	16.00				-	-	-	-	-	-	-	-
	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.															
831	Above 120 sq. mm and upto 400 sq. mm	metre	210	189	399.00				-	-	-	-	-	-	-	-
	Laying of one number XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.															
832	Above 120 sq. mm and upto 400 sq. mm	metre	32	32	64.00				-	-	-	-	-	-	-	-
	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.															
833	Above 120 sq. mm and upto 400 sq. mm	metre	48	42	90.00				-	-	-	-	-	-	-	-
834	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.	each	8	8	16.00				-	-	-	-	-	-	-	-
	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	35	36	71.00				-	-	-	-	-	-	-	-
836	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	59	75	134.00				-	-	-	-	-	-	-	-
	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. 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.	each	59	75	134.00				-	-	-	-	-	-	-	-
	150 mm dia P.C.C. nina			0	420											
	150 mm dia. R.C.C. pipe 250 mm dia. R.C.C. pipe	metre	535	850 75	1385.00				-	-		-	-	-	-	-
	300 mm dia. R.C.C. pipe	metre metre	75 80	75 285	150.00 365.00				-	-	-	-	-	-	-	-
				1								+			+	

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	•		District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.													· ·			
840	200 mm dia (OD-200 mm & ID-175 mm nominal)	metre	50	70	120.00				-	-	-	-	-	-	-	-	-
841 842	160 mm dia (OD-160 mm & ID-135 mm nominal) 90 mm dia (OD-90 mm & ID-76 mm nominal)	metre metre	45 50	55 65	100.00 115.00				-	-		-	-	-		-	-
	60 mm dia (OD-90 mm & ID-76 mm nominal)	metre	74	153	227.00				-	-		-	-	-	-	-	-
844	Preparation of necessary drawings getting approval arranging rule - 63 inspection and obtaining safety certificate for from CEIG	LS	1	1	2.00				-	-	-	-	-	-	-	-	-
845	Any other government approval and certificate / clearance if required	LS	1	1	2.00				-	-	-	-	-	-	-	-	-
	External Lighting Work																
846	Bollard LED 8-10 Watt Architectural bollard LED 3000K 230-240Vac 50-60Hz CRI > 80 Input power: 8W Height 800mm, Electronic driver ON/OFF CE and RoHS compliance TYPE: Bollard, IP rating IP65, impact resistance IK10. MATERIAL CHARACTERISTICS: Extruded aluminium bottom pipe Ø100 x H800mm with polycarbonate diffuser and integral base plate Ø180 with PG gland. Luminaire contains built in LED modules. Operating ambient temperature range is from -20°C to +40°C. Lumen output 300 lm, light source 96 power LEDs. Resistance to heat and fore for plasticpart should be 850 degree celcius. Housing Color Dark grey RAL 7043. CCE, CE and RoHS compliance. LM 79 and LM80 reports need to be submitted.	each	33	30	63.00				-	-	-	-	-	-	-	-	-
	Gate Light shall havevcircular 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		2	4	6.00				-	-	-	_	-	_	_	_	_
	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. 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.																
848	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.		7	6	13.00				-	-	-	-	-	-	-	-	-
	12 Mtrs MINI MAST Supply and erection of "GI COATS", High Mast Lighting, 12 Mtrs., 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. LED flood light with associate control gear boxes and lamps. iii) Raising / Lowering mechanism of lantern carriage assembly both 																

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
~2. HO	2 ost pron or rem		District Hospital		Total Quantity		Figures only)	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)
	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 mainten																
	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 electrics 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 LED light 06Nos (included).																
	xiii)TwinAviation light with GLS lamp (included).																
	AVIATION OBSTRUCTION LIGHT Supply and fixing of AVIATION OBSTRUCTION LED TYPE LIGHT																
849	FITTING	each	0	1	1.00				-	-	-	-	-	-	-	-	-
	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, madeof 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 andall complete job as required.																
850	Single arm, 1500mm	each	32	25	57.00				-	-	-	-	-	-	-	-	-
851	Double arm, 1500mm	each	0	4	4.00				-	-	-	-	-	-	-	-	-
852	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 loa4, 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	each	32	33	65.00				-	-	-	_		_	-	_	-
	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 parametres																
	FEEDER PILLAR (OUTDOOR TYPE)-																
853	Design, Manufacturing, Supply, Receiving, Unloading, Shifting, installation, testing & commissioning of cubicle type totally enclosed free standing type moisture, dust, vemetrein & 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 voltmetre with inbuilt voltmetre selector switch, indicating lamps, CT's, internal wiring with suitable size wires /	each	2	2	4.00				-	-	-	-	-	-	-	-	-
	cable, MS Angle stand for installation, RCC foundation, interconnection, painting complete as per specification & drawing.																
	Glatt a high-performance floodlight(200watts) with pressure die cast IP66 housing secondary lens with 120 lm/W efficacy and superior aesthetics		8	6	14.00				-	-	-	-	-	-	-	-	-

							Rate										
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			District Hospital		Total Quantity	Figures only)	Figures only)	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)
Sub	Head 44 : Earthing & Lightning Protection																
oss acce	thing with G.I. earth pipe 4.5 metre long, 40 mm dia including essories, and providing masonry enclosure with cover plate having locking angement and watering pipe etc. with charcoal/ coke and salt as required.	set	38	42	80.00				-	-	-	-	-	-	-	-	-
856 acce	thing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including essories, and providing masonry enclosure with cover plate having locking angement and watering pipe of 2.7 metre long etc. with charcoal/coke and as required.	set	22	22	44.00				-	-	-	-	-	-	-	-	-
857 acce	thing with copper earth plate 600 mm X 600 mm X 3 mm thick including essories, and providing masonry enclosure with cover plate having locking angement and watering pipe of 2.7 metre long etc. with charcoal/coke and as required.	set	42	48	90.00				-		-	-	-	-	-	-	-
858 cond	plying and laying 6 SWG G.l. wire at 0.50 metre below ground level for ductor earth electrode, including connection/ termination with Gl thimble as required.	metre	40	48	88.00				-	-	-	-	-	-	-	-	-
	viding and fixing 25 mm x 5 mm copper strip on surface or in recess for nections etc. as required.	metre	1487	1817	3304.00				-	-	-	-	-	-	-	-	-
	viding and fixing earth bus of 50 mm x 5 mm copper strip on surface for nections etc. as required.	metre	126	143	269.00				-	-	-	-	-	-	-	-	-
	viding and fixing 25 mm X 5 mm G.I. strip on surface or in recess for nections etc. as required	metre	1255	1617	2872.00				-	-	-	-	-	-	-	-	-
	viding and fixing 50 mm X 5 mm G.I. strip on surface or in recess for nections etc. as required	metre	258	394	652.00				-	-	-	-	-	-	-	-	-
863 eartl	viding and fixing 6 SWG dia G.I. wire on surface or in recess for loop hing along with existing surface/ recessed conduit/ submain wiring/ cable equired.	metre	315	714	1029.00				-	-	-	-	-	-	-	-	-
864 Proveartl	viding and fixing 6 SWG dia G.I. wire on surface or in recess for loop hing etc. as required.	metre	733	950	1683.00				-	-	-	-	-	-	-	-	-
	viding and fixing 4.00 mm dia copper wire on surface or in recess for loop hing as required.	metre	308	276	584.00				-	-	-	-	-	-	-	-	-
866 mm	viding and fixing of lightning conductor finial, made of 25 mm dia 300 long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick base plate including holes etc. complete as required.	each	6	6	12.00				-	-	-	-	-	-	-	-	-
867 Prov	viding and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of 1 for lightning conductor complete as required. (For horizontal run)	metre	1575	1575	3150.00				-	-	-	-	-	-	-	-	-
	viding and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of l for lightning conductor complete as required. (For Vertical run)	metre	189	189	378.00				-	-	-	-	-	-	-	-	-
869 125	viding and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers complete as required.	each	171	221	392.00				-	-	-	-	-	-	-	-	-
	viding and laying G.I. tape 32 mm X 6 mm from earth electrode directly ground as required.	metre	567	567	1134.00				-	-	-	-	-	-	-	-	-
871 any	nting copper / G.I. tape (with another copper/ G I tape, base of the finial or other metallic object) by riveting / nut bolting/ sweating and soldering etc equired.	set	21	32	53.00				-	-	-	-	-	-	-	-	-
	viding and fixing 6.00 mm dia copper wire on surface or in recess for loop hing as required.	set	68	95	163.00				-	-	-	-	-	-	-	-	-
873 Proviloop	viding and fixing 10.00 mm dia copper wire on surface or in recess for p earthing as required.	set	34	54	88.00				-	-	-	-	-	-	-	-	-
- 40 874 tank	oply, Installation, Testing & Commissioning of Earthing Junction Box size 00mm x 300mm x 80mm made out of 16 SWG CRCA sheet with seven a process & powder coating, earthing link (32mm x 6mm copper strip with able knockout holes) front door with glass as complete as required.	set	2	2	4.00				-	-	-	-	-	-	-	-	-

		-				Rate]		
L. no	Description of Item	Unit	Silchar	Udalguri	INR (in		SD (in		Silchar DH			Udalguri DH	T		Total	
			District Hospital	District Total Quantity Hospital	Figures only)		igures 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
375	Supply, Installation, Testing and Commissioning of ongrid Solar Photovoltaic Power Plant confometreing 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, confometreing 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 hametreonic 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. 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	KWp	90	60 150.00				only)	only)	only)	oniy)	only)	only)	-	-	
	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 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.															
	Sub Head 46: Internal Electrification															
	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.															
376	Group C	Point	1629	1359 2988.00				-	-	-	-	-	-	-	-	
877	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.		44	48 92.00				-	-	-	-	-	-	-	-	
	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.															
878	Group C	Point	1143	1359 2502.00				-	-	-	-	-	-	-	-	
- 0	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	158	112 270.00				-	-	-	-	-	-	-	-	
80	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 nosn residential buildings).	each	235	221 456.00				-	-	-	-	-	-	-	-	
81	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	739	863 1602.00				-	-	-	-	-	-	-	-	

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	District Hospital		Total Quantity		Figures only)	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)
882	2x1.5 sq mm + 1x1.5 sq mm earth wire	metre	2128	2412	4540.00				-	-	-	-	-	-	-	-	-
	2x2.5 sq mm + 1x2.5 sq mm earth wire	metre	12320	13794	26114.00				-	-	-	-	-	-	-	-	-
	2x4 sq mm + 1x4 sq mm earth wire	metre	22953	23274	46227.00				-	-	-	-	-	-	-	-	-
	2x6 sq mm + 1x6 sq mm earth wire	metre	0	899	899.00				-	-	-	-	-	-	-	-	-
	2x16 sq mm + 1x6 sq mm earth wire	metre	0	0	0.00				-	-	-	-	-	-	-	-	-
	4x2.5 sq mm + 2x2.5 sq mm earth wire 4 X 4 sq. mm + 2 X 4 sq. mm earth wire	metre	0	0	0.00				-	-		-	-		-	-	-
	$4 \times 6 \text{ sq. mm} + 2 \times 6 \text{ sq. mm}$ earth wire	metre	0 875	915 1397	915.00 2272.00				-	-		-	-	-	-	-	-
	4x10 sq mm + 2x6 sq mm earth wire.	metre metre	570	1507	2077.00				-	-	-	-	-	-	-	-	
	4x16 sq mm + 2x6 sq mm earth wire.	metre	2513	3840	6353.00					-	-	_			_		_
031		metre	2313	2010	0333.00												
	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.																
	5/6 A switch	each	284	216	500.00				-	-	-	-	-	-	-	-	-
	2 way 5/6 A switch	each	113	102	215.00				-	-		-	-	-		-	-
	15/16 A switch 3 pin 5/6 A socket outlet	each each	382 284	681 216	1063.00 500.00				-	-		-	-	-	-	-	-
	6 pin 15/16 A socket outlet	each	384	408	792.00				<u> </u>	-							-
	Telephone socket outlet	each	119	108	227.00				-	-	-	-	-	-	-	-	-
	TV anteena Socket Outlet	each	4	13	17.00				-	-	-	-	-	-	-	-	-
899	Bell push	each	14	24	38.00				-	-	-	-	-	-	-	-	-
	Supplying and fixing following size/ modules, GI box along with modular base and cover plate for modular switches in recess etc as required.																
900	1 or 2 Module (75mmX75mm)	each	121	120	241.00				-	-	-	-	-	-	-	-	-
901	3 Module (100mmX75mm)	each	375	404	779.00				-	-	-	-	-	-	-	-	-
902	4 Module (125mmX75mm)	each	295	265	560.00				-	-	-	-	-	-	-	-	-
903	6 Module (200mmX75mm)	each	192	204	396.00				-	-	-	-	-	-	-	-	-
904	8 Module (125mmX125mm)	each	284	216	500.00				-	-	-	-	-	-	-	-	-
905	12 Module (200mmX150mm)	each	148	37	185.00				-	-	-	-	-	-	-	-	-
906	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.		43	47	90.00				-	-	-	-	-	-	-	-	-
907	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.	matra	1135	1160	2295.00				-	-	-	-	-	-	-	-	-
	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.																
908	20 mm dia	metre	4985 8250	5480 9075	10465.00 17325.00				-	-	-	-	-	-	-	-	-
909	25 mm dia 32 mm dia	metre metre	8250 1780	2050	3830.00				-	-	-	-	-	-	-	-	-
911	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	eacn	14	24	38.00				-	-	-	-	-	-	-	-	-
912	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	each	474	419	893.00				-	-	-	-	-	-	-	-	-
	Supplying and fixing of following sizes of STEEL conduit alonwith 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.				107.00												
	20mm dia	metre	45	60	105.00				-	-			-	-			
914	25mm dia 32mm dia	metre metre	32 38	75 80	107.00 118.00				-	-		-	-	-	-	-	-
	Sub Head 47 : Distribution Board MCB DB																

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SL. no	Description of Item	Unit	Silchar	Udalguri	T . 10	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 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																
916	MCB/RCCB/Isolator) 8 way Double Door	each	12	12	24.00				_		_		_	_	_	-	
	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, Seven Segmant MCB Double door 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)	cach	12	12	21100												
917	6 Way, Double Door	each	11	1	12.00				-		_	-	_	_	_	_	
918	8 Way , Double Door	each	49	49	98.00				-	-	-	-	-	-	-	-	
919	12 way , Double door	each	8	10	18.00				-	-	-	-	-	-	-	-	
	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.																
	Single pole	each	1698	1754	3452.00				-	-	-	-	-	-	-		
	Triple pole and neutral Double pole	each each	26 264	29 264	55.00 528.00				-	<u>-</u>	-	<u> </u>	-	-	-	-	
	Triple pole	each	0	0	0.00				-	-	-	-	-	-	-		
	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.																
727	40 Amp Double Pole	each	2	2	4.00				-	-	-	-	-	-	-		
925	63 Amp Double Pole	each	1	1	2.00				-	-	-	-	-	-	-	-	
	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A																
720		each	2	2	4.00				-	-	-	-	-	-	-	-	
927	03 A	each	72	72	144.00				-	-	-	-	-	-	-	-	
	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. 25 Amps																
,20	40 Amps	each	207	8	16.00				-	-	-	-	-	-	-	-	
	63 Amps	each each	0	216 35	423.00 35.00				-	-	-	-	-	-	-	-	
730	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.	cacii	U	33	33.00				-		-		_	-			
,,,,	25 Amps	each	4	16	20.00				-	-	-	-	-	-	-	-	
752	40 Amps	each	2	36	38.00				-	-	-	-	-	-	-	-	
933	63 Amps	each	4	4	8.00				-	-	-	-	-	-	-	-	
	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 incomming and outgoing MCCB upto 200A shall have 25 KA Ics and above 200A Shall have 36 KA Ics. All the MCCB up to 250 Amp shall have thermal release with adustable overload and short circuit protection and above shall have microprocessor release with adjustable overload, short circuit & earthfault protection.																
	D + AUU DANIEI																
	P + AHU PANEL																

							Rate									
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
			District Hospital	District T Hospital	Total Quantity	Figures only)	Figures only)	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 on
2 Set of phase indicating la SP MCB's.	amps (R, Y & B) and shall be protected by 2 amps															
2 Set of ON / OFF indicate	ating lamps and shall be protected by 2 amps SP															
MCB's. 1 No. Of Digital MFM M	etre with CT's Metre with RS 485 port and should															
	RTU with 3 Nos.200/5 amps 15 VA, CL 1															
1 Nos Fixed type Automat with live to live transfer. with zero position having	ic transfer switch 200 Amp rating in open frame. The ATS should have complete switching neutral positive isolation and on load manual operation and IEC 60947-6-1. The control unit shall be															
BUS BAR																
	n bus bar 0.8 Amp/Sqmm with heat shrinkable															
OUTGOING																
04 Nos 63 Amp TPN Moul	ded Case Circuit Breaker															
08 Nos 32 Amp TPN Moul																
1 Lot of control / power wi	ring.															
	be 25 KA breaking capacity & above 200A															
MCCB's shall be 36KA broad P + AHU Panel described a	aking capacity.															
934 F + AHO Fahel described a	is above	set	0	0	0.00				-	-	-	-	-	-	-	-
P + AHU PANEL																
INCOMING																
1 No 200 Amp FP Moulde	d Case Circuit Breaker															
	umps (R, Y & B) and shall be protected by 2 amps															
SP MCB's.																
MCB's.	ating lamps and shall be protected by 2 amps SP															
1 No. Of Digital MFM M	etre with CT's Metre with RS 485 port and should RTU with 3 Nos.200/5 amps 15 VA, CL 1 and display.															
with live to live transfer. with zero position having	ic transfer switch 200 Amp rating in open frame The ATS should have complete switching neutral positive isolation and on load manual operation 3 and IEC 60947-6-1. The control unit shall be															
BUS BAR 200 Amp TPN aluminium insulation sleeve	m bus bar 0.8 Amp/Sqmm with heat shrinkable															
OUTGOING																
04 Nos 63 Amp TPN Moul	ded Case Circuit Breaker															
06 Nos 32 Amp TPN Moul	ded Case Circuit Breaker															
1 Lot of control / power wi	ring.															
(PTTA Type panels are cor	sidered)															
upto 200A MCCB's shal MCCB's shall be 36KA bro	be 25 KA breaking capacity & above 200A aking capacity.															
935 P + AHU Panel described a		set	0	0	0.00				-	-	-	-	-	-	-	-
P + AHU PANEL																
INCOMING																
1 No 200 Amp FP Moulde	l Case Circuit Breaker															
	imps (R, Y & B) and shall be protected by 2 amps															
SP MCB's.	ating lamps and shall be protected by 2 amps SP															
MCB's.																
1 No. Of Digital MFM M	etre with CT's Metre with RS 485 port and should RTII with 3 Nos 200/5 amps 15 VA CL 1															

							Rate			C			****				
SL. no	Description of Item	Unit	Silchar	Udalguri	T.4.10	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	Hospital	Total Quantity	Figures only)	Figures only)	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 onl
with live to live t with zero position	Automatic transfer switch 200 Amp rating in open frame ransfer. The ATS should have complete switching neutral having positive isolation and on load manual operation 6 60947-3 and IEC 60947-6-1. The control unit shall be ATS.	ıl n								•		· ·	· ·				
BUS BAR																	
200 Amp TPN a insulation sleeve	aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable	е															
OUTGOING																	
08 Nos 63 Amp T	PN Moulded Case Circuit Breaker																
1 Lot of control / p	power wiring.																
(PTTA Type pane																	
upto 200A MCC MCCB's shall be 3	B's shall be 25 KA breaking capacity & above 200A 66KA breaking capacity.	A															
936 P + AHU Panel de	escribed as above	set	4	1	5.00				-	-	-	-	-	-	-	-	
P + AHU PANEL																	
INCOMING																	
	Moulded Case Circuit Breaker																
	icating lamps (R, Y & B) and shall be protected by 2 amps	s															
	FF indicating lamps and shall be protected by 2 amps SF	Р															
1 No. Of Digital communicate on	MFM Metre with CT's Metre with RS 485 port and should Modbus RTU with 3 Nos.200/5 amps 15 VA, CL 1 measure and display.																
with live to live t with zero position	Automatic transfer switch 200 Amp rating in open frame ransfer. The ATS should have complete switching neutral having positive isolation and on load manual operation c 60947-3 and IEC 60947-6-1. The control unit shall be ATS.	ıl n															
BUS BAR																	
200 Amp TPN a insulation sleeve	aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable	е															
OUTGOING																	
	PN Moulded Case Circuit Breaker																
1 Lot of control / I	power wiring.																
(PTTA Type pane	ls are considered)																
MCCB's shall be 3	B's shall be 25 KA breaking capacity & above 200A 66KA breaking capacity.	A															
937 P + AHU Panel de	escribed as above	set	1	3	4.00				-	-	-	-	-	-	-	-	
P + AHU PANEL																	
INCOMING																	
	Moulded Case Circuit Breaker																
2 Set of phase ind SP MCB's.	icating lamps (R, Y & B) and shall be protected by 2 amps	S															
2 Set of ON / OF MCB's.	FF indicating lamps and shall be protected by 2 amps SF																
communicate on	FM Metre with CT's Metre with RS 485 port and should Modbus RTU with 3 Nos. 125/5 amps 15 VA, CL 1 measure and display.																

							Rate										
SL. no	Description of Itom	Unit	Silchar	Udalgur		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Ont	District Hospital	District	Total Quantity		Figures only)	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 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve	;															
	OUTGOING																
	06 Nos 63 Amp TPN Moulded Case Circuit Breaker																
	1 Lot of control / power wiring.																
	(PTTA Type panels are considered)																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
938	P + AHU Panel described as above .	set	0	0	0.00				-	-	-	-	-	-	-	-	-
	P + AHU 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. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 125/5 amps 15 VA, CL 1																
	secondary CTs to measure and display. 1 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve																
	OUTGOING																
	10 Nos 32 Amp TPN Moulded Case Circuit Breaker																
	1 Lot of control / power wiring.																
	(PTTA Type panels are considered)																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
939	P + AHU Panel described as above	set	1	1	2.00				-	-	-	-	-	-	-	-	-
	P + AHU 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. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 125/5 amps 15 VA, CL 1 secondary CTs to measure and display.																

						Rate										
SL. no	Description of Item U	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District	District Hospital Total Quantity		Figures only)	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 on
	1 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve															
	OUTGOING 08 Nos 63 Amp TPN Moulded Case Circuit Breaker															
	1 Lot of control / power wiring.															
	(PTTA Type panels are considered)															
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.															
940	P + AHU Panel described as above	set	0	0.00				-	-	-	-	-	-	-	-	
	P + AHU 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. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 200/5 amps 15 VA, CL 1 secondary CTs to measure and display.															
	1 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve															
	OUTGOING															
	06 Nos 63 Amp TPN Moulded Case Circuit Breaker															
	1 Lot of control / power wiring.															
	(PTTA Type panels are considered)															
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A															
	MCCB's shall be 36KA breaking capacity. P + AHU Panel described as above	set	0	0 0.00				-	-	-	-	-	-	-	-	
	P + AHU 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. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 200/5 amps 15 VA, CL 1 secondary CTs to measure and display.															
	1 Nos 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															

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Rem		District Hospital	District Total Hospital	Quantity		Figures only)	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																
	200 Amp TPN aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable	:															
	insulation sleeve																
	OUTGOING																
	05 Nos 63 Amp TPN Moulded Case Circuit Breaker																
	05 Nos 32 Amp TPN Moulded Case Circuit Breaker																
	1 Lot of control / power wiring.																
	(PTTA Type panels are considered)																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
942	P + AHU Panel described as above	set	1	0	1.00				-	-	-	-	-	-	-	-	-
	P + AHU 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	s															
	SP MCB's. 2 Set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																
	1 No. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 125/5 amps 15 VA, CL 1 secondary CTs to measure and display.	1															
	1 Nos 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.	1															
	DUG DAD																
	BUS BAR 125 Amp TPN aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable	<u>,</u>															
	insulation sleeve																
	OUTGOING																
	05 Nos 63 Amp TPN Moulded Case Circuit Breaker																
	05 Nos 32 Amp TPN Moulded Case Circuit Breaker																
	1 Lot of control / power wiring.																
	(PTTA Type panels are considered)																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
	P + AHU Panel described as above	set	0	0	0.00				-	-	-	-	-	-	-	-	-
	P + AHU 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	3															
	SP MCB's.																
	2 Set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																
	1 No. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 125/5 amps 15 VA, CL 1 secondary CTs to measure and display.																
	1 Nos 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.	1															
<u> </u>																	

							Rate									
SL. no	Description of Item Unit	it Sil	ilchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
		Di	istrict		Total Quantity		Figures only)	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
	OUTGOING															
	04 Nos 63 Amp TPN Moulded Case Circuit Breaker															
	02 Nos 32 Amp TPN Moulded Case Circuit Breaker															
	1 Lot of control / power wiring.															
	(PTTA Type panels are considered)															
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A															
	MCCB's shall be 36KA breaking capacity.															
944	P + AHU Panel described as above set	;	0	0	0.00				-	-	-	-	-	-	-	-
	P + AHU PANEL															
	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. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 250/5 amps 15 VA, CL 1															
	secondary CTs to measure and display.															
	1 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve															
	OUTGOING 06 Nos 63 Amp TPN Moulded Case Circuit Breaker															
	06 Nos 32 Amp TPN Moulded Case Circuit Breaker															
	1 Lot of control / power wiring.															
	(PTTA Type panels are considered)															
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.															
)45	P + AHU Panel described as above set		0	1	1.00				-	-	-	-	-	-	-	•
	LIFT & LIFT WELL PANEL															
	INCOMING 1 No 125 Arm EP Moulded Cose Ginerit Breeken															
	1 No 125 Amp FP Moulded Case Circuit Breaker2 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.															
	NICD 8.															
	1 No. Digital MFM Metre with CT's Metre with RS 485 port and should															
	communicate on Modbus RTU with 3 Nos. 125/5 amps 15 VA, CL 1															
	secondary CTs to measure and display. 1 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve															
	OUTGOING 05 Nos 63 Amp TPN Moulded Case Circuit Breaker															
	05 Nos 32 Amp TPN Moulded Case Circuit Breaker 1 Lot of control / power wiring.															
	(PTTA Type panels are considered)															

SL. no	Description of Item	TI24	Silchar	Udalguri	1	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	District Hospital		Total Quantity		Figures only)	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 o
	LIFT & LIFT WELL PANEL-TF																
	INCOMING																
	1 No 250 Amp FP Moulded Case Circuit Breaker2 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. Digital MFM Metre with CT's Metre with RS 485 port and should																
	communicate on Modbus RTU with 3 Nos. 250/5 amps 15 VA, CL 1 secondary CTs to measure and display.																
	1 Nos 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.																
	DVG D L D																
	BUS BAR 250 Amp TPN aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable																
	insulation sleeve																
	OUTGOING																
	05 Nos 63 Amp TPN Moulded Case Circuit Breaker 09 Nos 32 Amp TPN Moulded Case Circuit Breaker																
	1 Lot of control / power wiring.																
	(PTTA Type panels are considered)																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
	Lift Panel described as above	set	1	1	2.00				-	-	-	-	-	-	-	-	
	LIGHTING PANEL																
	INCOMING																
	1 No 125 Amp FP Moulded Case Circuit Breaker2 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. Digital MFM Metre with CT's Metre with RS 485 port and should																
	communicate on Modbus RTU with 3 Nos. 150/5 amps 15 VA, CL 1																
	secondary CTs to measure and display. 1 Nos 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.																
	DIVI DAD																
	BUS BAR 125 Amp TPN aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable																
	insulation sleeve																
	OUTGOING																
	06 Nos 63 Amp FP Moulded Case Circuit Breaker																
	1 Lot of control / power wiring. (PTTA Type panels are considered)																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A																
0.49	MCCB's shall be 36KA breaking capacity.	set	6	5	11.00												
948	Lighting Panel described as above	set	0	3	11.00				-	-	-	-	-	-	-	-	
	UPS 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. Digital MFM Metre with CT's Metre with RS 485 port and should																
	communicate on Modbus RTU with 3 Nos. 125/5 amps 15 VA, CL 1 secondary CTs to measure and display.																
	1 Nos 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.								1								

						Rate										
SL. no Descriptio	on of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
See 10			District Hospital	District Total Quantity Hospital		Figures only)	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								.,		.,		.,				
125 Amp TPN aluminium bus bar insulation sleeve	0.8 Amp/Sqmm with heat shrinkable															
OUTGOING 08 Nos 63 Amp TPN Moulded Case Ci	movit Danalesa															
1 Lot of control / power wiring.	icuit bicakci															
(PTTA Type panels are considered)	A 11-i 200 A															
upto 200A MCCB's shall be 25 KA MCCB's shall be 36KA breaking capac				0.00												
949 UPS Panel described as above		set	0	0 0.00				-	-	-	-	-	-	-	-	
UPS PANEL INCOMING																
1 No 200 Amp FP Moulded Case Circu																
2 Set of phase indicating lamps (R, Y of SP MCB's.	& B) and shall be protected by 2 amps															
2 Set of ON / OFF indicating lamps	and shall be protected by 2 amps SP															
MCB's. 1 No. Digital MFM Metre with CT's	Metre with RS 485 port and should															
communicate on Modbus RTU with secondary CTs to measure and display.	3 Nos. 200/5 amps 15 VA, CL 1															
1 Nos Fixed type Automatic transfer s	witch 200 Amp rating in open frame															
with live to live transfer. The ATS sh with zero position having positive iso																
complying to IEC 60947-3 and IEC																
integral part of the ATS.																
BUS BAR 200 Amp TPN aluminium bus bar	0.8. Amn/Samm with heat shrinkable															
insulation sleeve	0.6 Amp/Sqniiii with heat siiriiikable															
OUTGOING																
08 Nos 63 Amp FP Moulded Case Circ	uit Breaker															
1 Lot of control / power wiring. (PTTA Type panels are considered)																
upto 200A MCCB's shall be 25 KA																
MCCB's shall be 36KA breaking capace 950 UPS Panel described as above	ity.	set	1	0 1.00				-		-	-	-	-	-	-	
UPS PANEL																
INCOMING																
1 No 200 Amp FP Moulded Case Circu																
2 Set of phase indicating lamps (R, Y of SP MCB's.	& B) and shall be protected by 2 amps															
2 Set of ON / OFF indicating lamps MCB's.	and shall be protected by 2 amps SP															
1 No. Digital MFM Metre with CT's																
communicate on Modbus RTU with secondary CTs to measure and display.																
1 Nos Fixed type Automatic transfer s																
with live to live transfer. The ATS sh with zero position having positive iso																
complying to IEC 60947-3 and IEC																
integral part of the ATS.																
BUS BAR 200 Amp TPN aluminium bus bar	0.8 Amn/Samm with heat shrinkable															
insulation sleeve	oto rimprogram with near simmikaote															
OUTGOING																
06 Nos 63 Amp TPN Moulded Case Ci	rcuit Breaker															
1 Lot of control / power wiring. (PTTA Type panels are considered)																
upto 200A MCCB's shall be 25 KA																
MCCB's shall be 36KA breaking capace 951 UPS Panel described as above		set	5	2 7.00				-	-	-	-	-	_	-	-	
UPS PANEL																
INCOMING																
1 No 250 Amp FP Moulded Case Circu 2 Set of phase indicating lamps (R, Y of																
SP MCB's.																
2 Set of ON / OFF indicating lamps MCB's.	and shall be protected by 2 amps SP															
1 No. Digital MFM Metre with CT's	Metre with RS 485 port and should															
	2 3T 250/5 15 374 OF 1		I .	I I				I		I	I		I	I		I

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve																
	OUTGOING 08 Nos 63 Amp TPN Moulded Case Circuit Breaker 1 Lot of control / power wiring.																
952	(PTTA Type panels are considered) upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity. UPS Panel described as above	set	0	1	1.00				-	_	_	_	_	_	_		-
,,,	UPS PANEL 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. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 250/5 amps 15 VA, CL 1 secondary CTs to measure and display.																
	1 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve																
	OUTGOING 06 Nos 63 Amp TPN Moulded Case Circuit Breaker 1 Lot of control / power wiring.																
0.52	(PTTA Type panels are considered) upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.		0	1	1.00												
953	UPS Panel described as above UPS PANEL INCOMING	set	0	1	1.00				-	-	-	-	-	-	-	-	-
	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. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 250/5 amps 15 VA, CL 1 secondary CTs to measure and display.																
	1 Nos 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 0.8 Amp/Sqmm 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)																
954	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity. UPS Panel described as above	set	0	1	1.00				-		-	-	-	-	-		-

						Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Total Quantity Hospital	Figures only)	Figures only)	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 Figure
	ng lamps (R, Y & B) and shall be protected by 2 amps															
SP MCB's. 2 Set of ON / OFF ir MCB's.	dicating lamps and shall be protected by 2 amps SP															
1 No. Digital MFM N	Metre with CT's Metre with RS 485 port and should bus RTU with 3 Nos. 400/5 amps 15 VA, CL 1 ure and display.															
with live to live transf with zero position hav	matic transfer switch 400 Amp rating in open frame er. The ATS should have complete switching neutral ing positive isolation and on load manual operation 47-3 and IEC 60947-6-1. The control unit shall be 3.															
	ium bus bar 0.8 Amp/Sqmm with heat shrinkable															
insulation sleeve																
	ulded Case Circuit Breaker															
1 Lot of control / powe (PTTA Type panels are	considered)															
MCCB's shall be 36KA				0.00												
955 UPS Panel described as		set	0	0 0.00				-	-	-	-	-	-	-	-	
INCOMING	PANEL- (MAIN BLOCK) ded case Circuit Breaker															
	ag lamps (R, Y & B) and shall be protected by 2 amps															
	dicating lamps and shall be protected by 2 amps SP															
1 No. MFM Metre	with CT's Metre with RS 485 port and should bus RTU with 3 Nos. 63/5 amps 15 VA, CL 1 ure and display.															
BUS BAR 63 Amp FP copper by sleeve.	usbar 0.8 Amp/Sqmm with heat shrinkable insulation															
OUTGOING																
1 Lot of control / powe	A Miniature Circuit Breaker r wiring.															
	16 KA breaking capacity.															
956 Emergency Light Panel		set	0	0 0.00				-	-	-	-	-	-	-	-	
INCOMING	PANEL- (MAIN BLOCK)															
	ded case Circuit Breaker ag lamps (R, Y & B) and shall be protected by 2 amps	,														
	dicating lamps and shall be protected by 2 amps SP															
1 No. MFM Metre	with CT's Metre with RS 485 port and should bus RTU with 3 Nos. 63/5 amps 15 VA, CL 1 ure and display.															
BUS BAR																
63 Amp FP copper by sleeve.	sbar 0.8 Amp/Sqmm with heat shrinkable insulation															
OUTGOING	A Minister Cincil Poster															
18 No. 25 Amp DP 10F 1 Lot of control / powe (PTTA Type panels are																
	` 16 KA breaking capacity.	set	1	1 2.00				-	-	_	_	-	_	_	-	
	2 x 60 KVA) - MAIN BLOCK	501	1	2.00				-	-	-	-	-	-	-	-	
INCOMING	oulded Case Circuit Breaker															
2 Set of phase indicating SP MCB's.	ng lamps (R, Y & B) and shall be protected by 2 amps															
2 Set of ON / OFF ir MCB's.	dicating lamps and shall be protected by 2 amps SP															
2 No. Digital MFM N	Metre with CT's Metre with RS 485 port and should															

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital		Total Quantity		Figures only)	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)
BUSC	OUPLER									**		• ,					
	250Amp FP Moulded Case Circuit Breaker as buscoupler wit cking arrangement with incomers.	th															
	of indicating lamps for ON & OFF for bus coupler.																
BUS E	BAR																
	mp TPN Copper bus bar $0.8~\mathrm{Amp/Sqmm}$ with heat shrinkable ion sleeve.	le															
OUTG																	
	s 250 Amp FP Moulded Case Circuit Breaker s 63 Amp FP Moulded Case Circuit Breaker																
1 Lot o	of control / power wiring.																
	Type panels are considered) 200A MCCB's shall be 25 KA breaking capacity & above 200.	A															
MCCE	3's shall be 36KA breaking capacity.				0.00												
958 Main C	JPS Panel described as above	set	0	0	0.00				-	-	-	-	-	-	-	-	-
MAIN INCO	UPS PANEL- (2 x 80 KVA) - MAIN BLOCK																
02 No.	200Amp FP Moulded Case Circuit Breaker of phase indicating lamps (R, Y & B) and shall be protected by 2 amp	os															
SP MO																	
MCB's	3.																
	Digital MFM Metre with CT's Metre with RS 485 port and shoul unicate on Modbus RTU with 3 Nos. 200/5 amps 15 VA, CL																
	lary CTs to measure and display.	1															
BUS E	BAR																
400 A	mp TPN Copper bus bar with heat shrinkable insulation sleeve.																
OUTG	OING																
04 No:	s 400 Amp FP Moulded Case Circuit Breaker																
	s 63 Amp FP Moulded Case Circuit Breaker of control / power wiring.																
(PTTA	Type panels are considered)																
MCCE	200A MCCB's shall be 25 KA breaking capacity & above 200. B's shall be 36KA breaking capacity.	A															
959 Main U	JPS Panel described as above	set	0	0	0.00				-	-	-	-	-	-	-	-	-
	UPS PANEL- (2 x 120 KVA) - MAIN BLOCK																
	400Amp FP Moulded Case Circuit Breaker of phase indicating lamps (R, Y & B) and shall be protected by 2 amp	ns.															
SP MO																	
MCB's	3.																
	Digital MFM Metre with CT's Metre with RS 485 port and shoul unicate on Modbus RTU with 3 Nos. 400/5 amps 15 VA, CL																
	lary CTs to measure and display.																
	OUPLER																
	800Amp FP Moulded Case Circuit Breaker as buscoupler wit cking arrangement with incomers.	tn															
	of indicating lamps for ON & OFF for bus coupler.																
BUS F	3AR																
800 A	type TPN Copper bus bar 0.8 Amp/Sqmm with heat shrinkable ion sleeve.	le															
OUTG	OING																
04 No:	s 800 Amp FP Moulded Case Circuit Breaker																
	s 63 Amp FP Moulded Case Circuit Breaker of control / power wiring.																
(PTTA	Type panels are considered)	Δ															
MCCE	200A MCCB's shall be 25 KA breaking capacity & above 200. B's shall be 36KA breaking capacity.	A															
	JPS Panel described as above	set	1	1	2.00				-	-	-	-	-	-	-	-	-
	OLOGIST PANEL																
INCO	MING 250 Amp FP Moulded Case Circuit Breaker.																
2 Set o	of phase indicating lamps (R, Y & B) and shall be protected by 2 amp	os															
SP MC	CB's. of ON / OFF indicating lamps and shall be protected by 2 amps S	P															
MCB's																	

					Rate										
SL. no Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SE. no Description of Item		District Hospital	District Hospital Total Quantity		Figures only)	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 o
1 Nos 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.							omy	omy	omy	only	Unity	omy,			
BUS BAR 250 Amp TPN aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable insulation sleeve.															
OUTGOING															
02 Nos 160 Amp FP Moulded Case Circuit Breaker 02 Nos 125 Amp FP Moulded Case Circuit Breaker															
1 Lot of control / power wiring. (PTTA Type panels are considered) upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity. 961 RADIOLOGIST PANEL described as above	set	1	1 2.00				-	-	-	-		-	-	-	
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 63 Amp TPN aluminium busbar 0.8 Amp/Sqmm.															
OUTGOING															
08 No. 40 Amp FP MCB. External Lighting Panel described as above	set	1	1 2.00				-	-	-	-	-	-	-	-	
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. Digital MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 125/5 amps 15 VA, CL 1															
secondary CTs to measure and display. 1 Nos 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 0.8 Amp/Sqmm with heat shrinkable insulation sleeve.															
OUTGOING															
06 Nos 25 Amp 10kA TPN MCBs 04 Nos 32 Amp 10kA TPN MCBs															
10 Nos 25 Amps DOL Starter with ON OFF Push Bottan 1 No. 25 Amp digital Ammeter with inbuilt selector switch and CT's.															
10 Nos of ON OFF indicating lamps. 1 Lot of control / power wiring.															
All MCCB's shall be of 15 KA breaking capacity. 963 PHE Panel described as above	set	1	1 2.00				-	-	-	-	-	-	-	-	
HVAC PANEL 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															

						Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	Description of rem		District Hospital	District Hospital		Figures only)	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
communicate on Mod	Metre with CT's Metre with RS 485 port and should lbus RTU with 3 Nos. 250/5 amps 15 VA, CL 1											· · · · · · · · · · · · · · · · · · ·				
secondary CTs to meas 1 Nos Fixed type Auto	ure and display. Display: omatic transfer switch 250 Amp rating in open frame	;														
with live to live trans with zero position has	fer. The ATS should have complete switching neutral ring positive isolation and on load manual operation 047-3 and IEC 60947-6-1. The control unit shall be	l L														
BUS BAR																
insulation sleeve.	nium bus bar 0.8 Amp/Sqmm with heat shrinkable	;														
OUTGOING 03 Nos 100 Amp TPN	Moulded Case Circuit Breaker															
	Moulded Case Circuit Breaker															
(PTTA Type panels are 964 HVAC Panel described	considered)	set	0	0 0.00				-	-	-	-	-	-	-	-	-
HVAC PANEL																
INCOMING 1 No. 250 Amp FP Mo	ulded Case Circuit Breaker.															
2 Set of phase indicati SP MCB's.	ng lamps (R, Y & B) and shall be protected by 2 amps andicating lamps and shall be protected by 2 amps SP															
1 No. Digital MFM N communicate on Moc secondary CTs to meas																
with live to live trans with zero position has	omatic transfer switch 250 Amp rating in open frame fer. The ATS should have complete switching neutral ring positive isolation and on load manual operation 247-3 and IEC 60947-6-1. The control unit shall be 3.	1														
	inium bus bar 0.8 Amp/Sqmm with heat shrinkable	,														
insulation sleeve.																
OUTGOING 12 Nos 63 Amp TPN N 1 Lot of control / power	Moulded Case Circuit Breaker r wiring.															
MCCB's shall be 36KA																
965 HVAC Panel described	l as above	set	0	0 0.00				-	-	-	-	-	-	-	-	-
HVAC PANEL INCOMING																
2 Set of phase indicati SP MCB's.	ulded Case Circuit Breaker. ng lamps (R, Y & B) and shall be protected by 2 amps ndicating lamps and shall be protected by 2 amps SP															
MCB's.	Metre with CT's Metre with RS 485 port and should															
communicate on Mod secondary CTs to meas	bus RTU with 3 Nos. 400/5 amps 15 VA, CL 1 ure and display.															
with live to live trans with zero position has	omatic transfer switch 400 Amp rating in open frame fer. The ATS should have complete switching neutral ring positive isolation and on load manual operation 047-3 and IEC 60947-6-1. The control unit shall be 3.															
BUS BAR																
400 Amp TPN alum insulation sleeve.	inium bus bar 0.8 Amp/Sqmm with heat shrinkable	;														
OUTGOING	W 11 10 6 1 7 1															
	Moulded Case Circuit Breaker Moulded Case Circuit Breaker r wiring															
(PTTA Type panels are	considered)		0	0 0.00												
966 HVAC Panel described	i as above	set	U	0 0.00				-	-	-	-	-	-	-	-	-
HVAC PANEL INCOMING																

				,		Rate									
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
22.10	Description of term		District Hospital	District Hospital Total Quantity		Figures only)	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 on
2 Set of ON / O MCB's.	FF indicating lamps and shall be protected by 2 amps SP														
1 No. Digital M	FM Metre with CT's Metre with RS 485 port and should														
	Modbus RTU with 3 Nos. $200/5$ amps 15 VA, CL 1 measure and display.														
1 Nos Fixed type	e Automatic transfer switch 200 Amp rating in open frame														
with zero position	transfer. The ATS should have complete switching neutral on having positive isolation and on load manual operation C 60947-3 and IEC 60947-6-1. The control unit shall be e ATS.														
BUS BAR															
200 Amp TPN	aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable														
insulation sleeve.															
OUTGOING	EDNIM II IC C' 'A D. I														
	FPN Moulded Case Circuit Breaker PN Moulded Case Circuit Breaker														
1 Lot of control /															
upto 200A MCC	CB's shall be 25 KA breaking capacity & above 200A														
MCCB's shall be	36KA breaking capacity.														
967 HVAC Panel des	scribed as above	set	0	0 0.00				-	-	-	-	-	-	-	-
HVAC PANEL															
INCOMING	P Moulded Case Circuit Breaker.														
2 Set of phase in	dicating lamps (R, Y & B) and shall be protected by 2 amps														
SP MCB's.	FF indicating lamps and shall be protected by 2 amps SP														
MCB's.															
	FM Metre with CT's Metre with RS 485 port and should Modbus RTU with 3 Nos. 400/5 amps 15 VA, CL 1														
	measure and display.														
	e Automatic transfer switch 400 Amp rating in open frame transfer. The ATS should have complete switching neutral														
with zero position	on having positive isolation and on load manual operation														
integral part of th	C 60947-3 and IEC 60947-6-1. The control unit shall be e ATS.														
DI IC DA D															
BUS BAR 400 Amp TPN insulation sleeve.	aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable														
OUTGOING															
10 N (2 A 7	EDNIM and a Constitution of the Constitution o														
2 Nos 100 Amp 7	FPN Moulded Case Circuit Breaker FPN Moulded Case Circuit Breaker														
1 Lot of control /															
968 HVAC Panel des	els are considered) cribed as above	set	2	1 3.00				-	-	-	-	-	-	-	-
HVAC PANEL															
INCOMING															
	P Moulded Case Circuit Breaker. dicating lamps (R, Y & B) and shall be protected by 2 amps														
SP MCB's.															
2 Set of ON / O MCB's.	FF indicating lamps and shall be protected by 2 amps SP														
1 No. Digital M communicate on	FM Metre with CT's Metre with RS 485 port and should Modbus RTU with 3 Nos. 200/5 amps 15 VA, CL 1 measure and display.														
1 Nos Fixed type	e Automatic transfer switch 200 Amp rating in open frame														
	transfer. The ATS should have complete switching neutral on having positive isolation and on load manual operation														
	C 60947-3 and IEC 60947-6-1. The control unit shall be														
BUS BAR															
200 Amp TPN insulation sleeve.	aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable														
OUTGOING															
10 Nos 63 Amp 7	TPN Moulded Case Circuit Breaker														
	power wiring.														

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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)
	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.																
	630 Amp FP MCCB	set	12	12	24.00				-	-	-	-	-	-	-	-	-
	400 Amp FP MCCB 250 Amp FP MCCB	set set	21	21	42.00 18.00				-			-	-	-			
	200 Amp FP MCCB	set	1	1	2.00				-					-			
974	160 Amp FP MCCB	set	4	14	18.00				-					-			-
	125 Amp FP MCCB 100 Amp FP MCCB	set set		20	24.00 17.00				-			-	-	-			
	63 Amp FP MCCB	set	6	12	18.00				-		-	-	-	-			
978	50 Amp FP MCCB	set	1	1	2.00				-	-	-	-	-	-	-	-	-
	SAFETY EQUIPMENT																
	Supply of First aid box	Nos.	2	2	4.00				-	-	-	-	-	-	-	-	-
980	Supply of Shock treatment chart duly mounted on a wooden frame with glass on, as required in 2 languages (Hindi & English).	Nos.	6	6	12.00				-	-	-	-	-	-	-	-	-
981	Supply of Rubber mat 1000 mm. Wide to withstand 1.1 KV dielectric strength as per latest IS 15652-2006.	Metre	28	31	59.00				-	-	-	-	-	-	-	-	-
	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. Whereever 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)																
982	400 A, lsc= 25kA for 1 sec	metre	0	0	0.00				_	_	_	_	_	_	-	_	_
983	630 A, lsc= 50kA for 1 sec	metre	56	48	104.00				-	-	-	-	-	-	-	-	-
	800 A, lsc= 50kA for 1 sec 1000 A, lsc= 50kA for 1 sec	metre metre	0	48	0.00 48.00				-			-	-	-			
983	1250 A, lsc= 50kA for 1 sec	metre	56	0	56.00				-			-	-	-			
	END FEED UNIT- Supplying, installation, testing & commisioning 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.																
	400 A, lsc= 30kA for 1 sec 630 A, lsc= 50kA for 1 sec	set	0	0 2	0.00 4.00				<u>-</u>			-	-	-			
	800 A, Isc= 50kA for 1 sec 800 A, Isc= 50kA for 1 sec	set set	0	0	0.00				-		-	-	-	-			
989	1000 A, Isc= 50kA for 1 sec	set	0	2	2.00				-					-			
	1250 A, Isc= 50kA for 1 sec TAP OFF UNIT	set	2	0	2.00				-	-	-	-	-	-	-	-	-
990	011 01.11																
991	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 125 A, lsc= 15kA for 1 sec		20 24	16 26	36.00 50.00							-	-	- -			
991 992 993	Supplying, installation, testing & commisioning 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	each								-	-	-	-	-	-	-	-

							Rate									
GL	Day to the conflict	TT .*4	Silchar	IIdalauri		IND (:	JPY (in	LICD (:-		Silchar DH			Udalguri DH			Total
SL. no	Description of Item	Unit	District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	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)
995 100 A, 16 KA,FP MC		each	15	16	31.00				-	-	-	-	-	-	-	
996 125 A, 16 KA,FP MCC 997 150 A, 16 KA,TPMCC		each each	6	3	10.00 6.00				-	-	-		-	-	-	
998 200 A.36KA.FPMCCI		each	0	0	0.00				-					-	-	
999 250 A.36KA.FPMCCI		each	5	7	12.00				-	-	-	-	-	-	-	
1000 250 A.50KA.FPMCCI		each	9	14	23.00				-	-	-	-	-	-	-	
1001 400 A.50KA.FPMCCI 1002 630 A.50KA.FPMCCI		each each	21 12	21 12	42.00 24.00				-	<u> </u>	-		-	-	-	
Sub Head 48 : Light F		Cacii	12	12	24.00				-	<u>-</u>	-	-	-	-	-	-
Supplying and fixing required.	orass batten/ angle holder including connection etc. as	each	29	67	96.00				-	-	-	-	-	-	-	
down rods of standar insulated, copper cond	d commissioning of ceiling fan, including wiring the d length (upto 30 cm) with 1.5 sq. mm FRLS PVC uctor, single core cable, including providing and fixing set cover on the fan box etc as required.	each	49	47	96.00				-	-	-	-	-	-	-	
Extra for fixing the local all sizes.	evers/ shutters complete with frame for a exhaust fan of	each	83	74	157.00				-	-	-	-	-	-	-	
1006 existing opening include commissioning etc as a		nos	30	36	66.00				-	-	-	-	-	-	-	
	nmissioning of 150 mm, 230 v A.C. exhaust fan in the ading making good the damage, connection testing, equired.		82	43	125.00				-	-	-	-	-	-	-	
star rated, ceiling fan v insulation: B, 3 no. bla safety rope, copper w (CMM/W) minimum (tolerance as per IS: regulator unit for spee pin, nut bolts, washe resistance more than 2	esting and Commissioning of 1200 mm sweep, BEE 5 with Brush Less Direct Current (BLDC) Motor, class of ides, 30 cm long down rod, 2 no. canopies, shackle kit, nding, Power Factor not less than 0.9, Service Value 6.85, Air delivery minimum 215 CMM, 350 RPM 374-2019), THD less than 10%, remote or electronic d control and all remaining accessories including safety rs, temperature rise=75 degree C (max.), insulation mega ohm, suitable for 230 V, 50 Hz, single phase AC															
Supply, earthing etc. c 1008 1200 mm	omplete as required.	nos	43	47	90.00				-	-	-	-	-	-	-	
	Testing & Commissioning of 400 mm, 230 v cluding fixing the bracket, making connection etc as		338	308	646.00				-	-	-	-	-	-	-	
Downlighter made of have minimum efficace with Minimum system Life of fixture (Include maintenance, CCT of 1010 >0.95, working temp r of 240 VAC. It should Electronic Switchable EMI compliance all	esting & Commissioning of IP20 Recessed 10W LED pressure die cast aluminum housing, Fixture should y at System level (not Chip Level) >=110 lumens/watt Lumens 1000 with maximum system wattage of 9W. ing Driver): 50000 burning Hrs. @ L70B50 Lumen 300K/4000K/5700K/6500K (SDCM<5), CRI >80, PF ange - 0°C < Ta < 45°C, and operating Voltage Range I has a Minimum Internal Surge Protection of 2.5KV. ballast. The fixture design should comply with EMC / ong with BIS certification for LED Driver &		127	117	244.00				-	-	-	-	-	-	-	
Supply Installation, telluminaire made of CR type). The luminaire sl CRI ≥ 80 and CCT designed to emit at less of at-least 120 lumen/s(±5%). The Life of fix	manufacture shall provide LM79report from NABL preport issued by LED manufacturer. Sting & comissioning of Integral Mirror light LED 2 ft CA housing and PC diffuser (Diffuser-non yellowing would have a LEDs with colour consistency SDCM ≤ 5, of 3000K/400K/5700K/6500K. Luminaire shall be ust minimum 2000 system lumens at a system efficacy watt. Power consumption should not be more than 12W ture (Including Driver):50000 burning Hrs. @ L70B50 design ambient temp 45 deg C. The electronic driver															
used shall have a pooperating voltage rang protection should be Class I & driver shou IP20 & IK02 complis shall be 44mm(±5mi manufacturer must have	were factor ≥ 0.95 and THD $\leq 10\%$, suitable for an e of 140-270V AC, Current Ripple $\leq 5\%$, Internal surge minimum 4KV, electrical insulation class should be d be of Class B serviceability. The luminaire shall be ant. The minimum dimensions (± 5 mm) of the batten in X 51mm (± 5 mm)X 585mm(± 5 mm). Luminaire in NABL accredited lab to conduct LM79, Type test as before dispatch as per IS 10322. The the successful	nos	65	39	104.00				-	-	-	-	-	-	-	

SL. no	Description of Item	Unit	Silchar	Udalgur	i	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
3L. 110	Description of Item	Omt	District Hospital		Total Quantity	Figures only)	Figures only)	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
1012	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) >=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°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	459	343	802.00				-	-	-	-	-	-	-	-	
1013	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 ≤ 5, CRI ≥ 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≥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 ≥0.95 @ full load and THD ≤10% @ full load and suitable for an operationg voltage range of 140-270V AC. Ripple ≤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)	each	369	425	794.00				-	-	-	-	-	-	-	-	
1014	Supply, Installation, Testing & Commissioning of 36W to 40W 2X2 LED flat panel for surface mounting which provides soft-light and glare free symmetrical illuminationCRCA 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 pararms as per IS10322. Similar to SM367 LED42S-6500 G6 L54W54 PSU OD	each	327	423	750.00				-	-	-	-	-	-	-	-	
1015	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/4000K57000K/6500K and CRI > 75. The luminaire shall meet IP67 rating with THD < 20% and PF > 0.9. The luminaire shall have polycarbonate diffuser.	each	3	7	10.00				-	-	-	-	-	-	-	-	
1016	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	218	205	423.00				-	-	-	-	-	-	-	-	

							Rate										
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			District Hospital		Total Quantity	Figures only)	Figures only)	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)
1017	Supply, Installation, Testing & Commissioning of 20W 2X2 Recess LED flat panel for which provides soft-light and glare free symmetrical illuminationCRCA 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	481	511	992.00				-	-	_	-	-	-	-	-	-
1018	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 Polyster 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:1S 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	59	73	132.00				-	-	-	-	-	-	-	-	-
1019	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/57000K/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	84	60	144.00				-	-	-	-	-	-	-	-	-
1020	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	13	22	35.00				-	-	-	-	-	-	-	-	-
1021	Supply, Installation, Testing & Commissioning of Aviation obstruction light with Light Emitting Diods (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.	anah	5	6	11.00				-	-	-	-	-		-	-	-
	Sub Head 49: Cable, Cable Tray & Termination 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.																
1022	1C x 6 sq.mm PVC Insulated cu wire including termination etc.	metre	27	32	59.00				-	-	-	-	-	_	-	-	_
1023	1C x 10 sq.mm PVC Insulated cu wire including termination etc.	metre	426	473	899.00				-	-	-	-	-	_	-	-	-
	1C x 16 sq.mm PVC Insulated cu wire including termination etc.	metre	53	63	116.00				-	-	-	-	-	-	-	-	-
1025	1C x 25 sq.mm PVC Insulated cu wire including termination etc.	metre	53	74	127.00				-	-	-	-	-	-	-	-	-
1026	1C x 50 sq.mm PVC Insulated cu wire including termination etc.	metre	294	357	651.00				-	-	-	-	-	-	-	-	-
1027	1C x 95 sq.mm PVC Insulated cu wire including termination etc.	metre	0	0	0.00				-	-	-	-	-	-	-	-	-
1028	1C x 120 sq.mm PVC Insulated cu wire including termination etc.	metre	420	504	924.00				-	-	-	-	-	-	-	-	-
	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 /																

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	_	Total Quantity	Figures only)	Figures only)	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 o
1031	4 core, 6 sq. mm. Cu. Armoured Cable	metre	328	349	677.00				-	-	-	-	-	-	-	-	
	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).																
	4C x 2.5 Sq.mm. 4C x 4 Sq.mm.	metre metre	542 1102	618 1614	1160.00 2716.00				-	-	-					-	
	4C x 6 Sq.mm	metre	1318	1919	3237.00				-	-							
1035	3.5C x 25 Sq.mm	metre	891	2176	3067.00				-	-	-	-	-	-	-	-	
	3.5C x 35 Sq.mm	metre	554	1057	1611.00 179.00				-	-							
	3.5C x 50 Sq.mm. 3.5C x 70 Sq.mm	metre	105 145	74 331	476.00				-	-							
1039	3.5C x 95 Sq.mm.	metre	42	42	84.00				-	-	-	-	-	-	-	-	
	3.5C x 120 Sq.mm.	metre	363	253	616.00				-	-	-					-	
	3.5C x 150 Sq.mm. 3.5C x 185 Sq.mm.	metre	84 1612	168 2121	252.00 3733.00				-	-						-	
	3.5C x 240 Sq.mm.	metre	315	609	924.00				-	-	-	-				-	
1044	3.5C x 300 Sq.mm.	metre	2934	5628	8562.00				-	-	-	-	-	-	-	-	
	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. 2 X 6 sq. mm (19mm) For copper armoured cable	set	0	0	0.00				-	-	-	_	_	_	_	_	
1046	4 X 6 sq. mm (25mm) For copper armoured cable	set	30	10	40.00				-	-						-	
	4 X 10 sq. mm (25mm) For copper armoured cable	set	68	2	70.00				-	-						-	
	4 X 16 sq. mm (28mm) For copper armoured cable 4 X 25 sq. mm (28mm) For aluminium armoured cable	set	112 116	50	120.00 166.00				-	-							
	3.5 X 35 sqmm (32 mm) For aluminium armoured cable	set	22	38	60.00				-	-						-	
	3.5 X 50 sqmm (35 mm) For aluminium armoured cable	set	46	4	50.00				-	-				-	-	-	
	3½ X 70 sq. mm (38mm) For aluminium armoured cable 3½ X 95 sq. mm (45mm) For aluminium armoured cable	set	20	6 4	14.00 24.00				-	-				-	-	-	
1054	3½ X 120 sq. mm (45mm) For aluminium armoured cable	set	10	12	22.00				-	-						-	
1055	3.5 X 150 sqmm (50 mm) For aluminium armoured cable	set	6	16	22.00				-	-	-	-	-	-	-	-	
	3½ X 185 sq. mm (57mm) For aluminium armoured cable	set	8	24	32.00				-	-						-	
	3½ X 240 sq. mm (63mm) For aluminium armoured cable 3½ X 300 sq. mm (70mm) For aluminium armoured cable	set set	20 52	12 72	32.00 124.00				-	-							
	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. Upto 35 sq. mm (clamped with 1mm thick saddle)	metre	3733	4588	8321.00				-	-	-	-	-	-	-	-	
1060	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	metre	504	620	1123.50				-	-	-	-	-	-	-	-	
1061	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	metre	390	566	956.00				-	-	-	-	-	-	-	-	
1062	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	metre	895	1481	2376.00				-	-	-	-	-	-	-	-	
	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. Upto 35 sq. mm	metre	54	105	159.00				-	-	-	-	-	-	-	-	
	Above 35 sq. mm and upto 95 sq. mm	metre	0	0	0.00				-	-			-	-	-	-	
	Above 95 sq. mm and upto 185 sq. mm Above 185 sq. mm and upto 400 sq. mm	metre	84	210	0.00 294.00				-	-	-			-	-	-	
	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.																
	Upto 35 sq. mm	metre	1119	4409	5528.00				-	-	-					-	
	Above 35 sq. mm and upto 95 sq. mm Above 95 sq. mm and upto 185 sq. mm	metre metre	63 74	63 74	126.00 148.00				-	-							
	Above 185 sq. mm and upto 400 sq. mm	metre	662	725	1387.00				-	-	-	-			-	-	
	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.																
1071	Upto 35 sq. mm	metre	343	255	598.00 348.00				-	-	-					-	
	Above 35 sq. mm and upto 95 sq. mm Above 95 sq. mm and upto 185 sq. mm	metre metre	174 168	174 168	348.00				-	-	-	-	-	-	-	-	
	Above 185 sq. mm and upto 400 sq. mm	metre	1628	1827	3455.00				-	-	-	-	-	-	-	-	
	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.	matra	158	158	316.00												
	Upto 35 sq. mm Above 35 sq. mm and upto 95 sq. mm	metre metre	51	51	102.00				-	-						-	
1077	Above 95 sq. mm and upto 185 sq. mm	metre	231	231	462.00				-	-	-	-	-	-	-	-	
1078	Above 185 sq. mm and upto 400 sq. mm	metre	1570	1717	3287.00				-	-	-	-	-	-	-	-	

										Silchar DH			Udalguri DH			Total	
SL. no	Description of Item		ilchar istrict	Udalguri District	Total Quantity	INR (in Figures	JPY (in Figures	USD (in Figures									
			ospital	Hospital	Total Quantity	only)	only)	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
1079 Upto	35 sq. mm	metre	226	226	452.00				-	-	-	-	-	-	-	-	
1080 Abov	ve 35 sq. mm and upto 95 sq. mm	metre	0	0	0.00				-	-	-	-	-	-	-	-	
	ve 95 sq. mm and upto 185 sq. mm	metre	0	0	0.00				-	-				-	-		
	re 185 sq. mm and upto 400 sq. mm		21	21	42.00				-	-	-	-	-	-	-	-	
Iron perfo	lying and installing following size of perforated Hot Dipped Galvanise cable tray (Galvanisation thickness not less than 50 microns) wit ration not more than 17.5%, in convenient sections, joined wit ectors, suspended from the ceiling with G.I. suspenders including G.	h h															
	& nuts, etc. as required.	1.															
	mm wide x 50 mm depth x 1.6 mm thickness.	metre	330	20	350.00				-	-	-	-	-	-	-	-	
1084 150 1	nm wide x 50 mm depth x 1.6 mm thickness.	metre	0	243	243.00				-	-	-	-	-	-	-	-	
	nm wide x 50 mm depth x 1.6 mm thickness.	metre	0	991	991.00				-	-	-	-	-	-	-	-	
	mm wide x 50 mm depth x 1.6 mm thickness.		152	335	487.00				-	-	-	-	-	-	-	-	
	mm wide x 50 mm depth x 2.0 mm thickness.	metre	560	348	908.00				-	-	-	-	-	-	-	-	
	mm wide x 50 mm depth x 2.0 mm thickness.	metre	208	375	583.00				-	-	-	-	-	-	-	-	
1089 750 1	nm wide x 62.5 mm depth x 2.0 mm thickness.	metre	0	84	84.00				-	-	-	-	-	-	-	-	
Iron perfo conn bolts	lying and installing following size of perforated Hot Dipped Galvanise cable tray "bends" (galvanisation not less than 50 microns) wit ration not more than 17.5%, in convenient sections, joined wite ectors, suspended from the ceiling with G.I. suspenders including G. & nuts, etc. as required.	h h															
	mm wide x 50 mm depth x 1.6 mm thickness.	nos	42	0	42.00				-	-	-	-	-	-	-	-	
	mm wide x 50 mm depth x 1.6 mm thickness.	nos	0	12	12.00				-	-	-	-	-	-	-	-	
1092 225 1	nm wide x 50 mm depth x 1.6 mm thickness.	nos	0	30	30.00				-	-	-	-	-	-	-	-	
1093 300 1	nm wide x 50 mm depth x 1.6 mm thickness.	nos	0	24	24.00				-	-	-	-	-	-	-	-	
	mm wide x 50 mm depth x 2.0 mm thickness.	nos	0	22	22.00				-	-	-	-	-	-	-	-	
	mm wide x 50 mm depth x 2.0 mm thickness.	nos	22	27	49.00				-	-	-	-	-	-	-	-	
1096 750 1	nm wide x 62.5 mm depth x 2.0 mm thickness.	nos	35	5	40.00				-	-	-	-	-	-	-	-	
1097 150 i 1098 225 i 1099 300 i	ectors, suspended from the ceiling with G.I. suspenders including G. & nuts, etc. as required. mm wide x 50 mm depth x 1.6 mm thickness. mm wide x 50 mm depth x 1.6 mm thickness. mm wide x 50 mm depth x 1.6 mm thickness.	nos nos nos	0 18 0	0 23 12	0.00 41.00 12.00				- - -		-	-		-	-	-	
	nm wide x 50 mm depth x 2.0 mm thickness.	nos	0	4	4.00				-	-							
	nm wide x 50 mm depth x 2.0 mm thickness. nm wide x 62.5 mm depth x 2.0 mm thickness.	nos nos	3	21	34.00 6.00				-	-							
Iron perfo conn bolts	lying and installing following size of perforated Hot Dipped Galvanise cable tray "Cross member"(galvanisation not less than 50 microns) wit ration not more than 17.5%, in convenient sections, joined wit ectors, suspended from the ceiling with G.I. suspenders including G. & nuts, etc as required. mm wide x 50 mm depth x 1.6 mm thickness.	h h	0	0	0.00				-	_	_	_	-	-	-	_	
1104 225 1	nm wide x 50 mm depth x 1.6 mm thickness.	nos	5	11	16.00				-	-	-	-	-	-	-	-	
1105 300 ı	nm wide x 50 mm depth x 1.6 mm thickness.	nos	3	14	17.00				-	-	-	-	-	-	-	-	
	nm wide x 50 mm depth x 2.0 mm thickness.	nos	4	8	12.00				-	-	-	-	-	-	-	-	
	nm wide x 50 mm depth x 2.0 mm thickness.	nos	11	12	23.00				-	-	-	-	-	-	-	-	
1108 750 1	nm wide x 62.5 mm depth x 2.0 mm thickness.	nos	3	5	8.00				-	-	-	-	-	-	-	-	
Iron perfo conn bolts	lying and installing following size of perforated Hot Dipped Galvanise cable tray "Reducer"(galvanisation not less than 50 microns) wit ration not more than 17.5%, in convenient sections, joined wite ectors, suspended from the ceiling with G.I. suspenders including G. & nuts, etc as required. mm wide x 50 mm depth x 1.6 mm thickness.	h h	11	9	20.00				_		_		_	_	_	-	
	nm wide x 50 mm depth x 1.6 mm thickness.	nos	14	11	25.00				-		-						
	mm wide x 50 mm depth x 2.0 mm thickness.	nos	19	19	38.00				-	-							
	mm wide x 50 mm depth x 2.0 mm thickness.	nos	0	15	15.00				-	-	-						
	mm wide x 62.5 mm depth x 2.0 mm thickness.	nos	2	3	5.00				-	-	-						
Sub	Head 50 : Raceway & Junction Board																
	ly & fixing of following size underfloor/ceiling suspended	1.															
comp for e floor appro	or following size underfloor/ceiling suspended sustementalized (GP RACEWAY- Fabricated from GP Sheet) race way lectrical & LV wiring including neoprene gasket in joints, cutting the & jaming the race way / hanging in ceiling, supporting arrangement aboved by consultant / architect with all necssary hard ware (including cive) as per site requirement. The thickness of raceway & cover shall be abechnical specification.	/s ne ns il															
per to	mm wide x 40 mm deep x 2 mm thick.		215	410	625.00				-	-							
per to 1114 100 r 1115 150 r	nm wide x 40 mm deep x 2 mm thick. nm wide x 40 mm deep x 2 mm thick. nm wide x 40 mm deep x 2 mm thick.	metre	215 201 176	410 470 430	625.00 671.00 606.00					- -	-	-	-	-	-	-	

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	•		District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 or
mm thick GP Sheet v	ollowing size of Raceway Junction Box made out of 2 with 3 mm thick stainless steel cover for electrical & LV																
ceiling, supporting are necssary hard ware (in	ting the floor & jaming the junction box / hanging in rangement as approved by consultant / architect with all acluding civil work).(Junction box to be provided as per																
	requirement & as per specification). The thickness of a as per thechnical specification.																
119 150 mm wide x 50 mr 120 200 mm wide x 50 mr		set set	18 10	17 19	35.00 29.00				-	-		-					
121 250 mm wide x 50 mr		set	13	23	36.00				-	-	-	-					
122 300 mm wide x 50 mm		set	27	17	44.00				-	-		-					
350 mm wide x 50 mm	n deep.	set	17	19	36.00				-	-	-	-	-	-	-	-	
Sub Head 51 : UPS S	ystem																
mode at 0.99 input p with external/inbilt is	Cesting & Commission of 60 KVA UPS in paralleling ower factor from 25% to 100% load with SNMP card solation transformer before static switch with bypass ecification given in the document with following broad																
features. THD(i) shall be less the	nan 3%.																
Input power factor sha	all be more than 0.99. from 25% to 100% load.																
UPS shall carry design Shall have soft start as	n output at 40 deg. and hold of for incoming supply.																
Invertor capability to	supply 150% load for 1 minute.																
_	nd Three Phase Output. (Input - 340V - 470V, Three et - 400-415 Volt, Three Phase, 4 Wire.)																
Shall not allow deep case of 12 volt cells.	discharge of the battery and shall not go to 10.5 volts in																
100% load.	nal type with rack and suitable for 30 minute backup on																
with fuse protection.	es between battery bank and UPS and battery breaker																
	tible for minimum 4 nos unit in parallel operation. el operation kit shall be supplied with UPS.																
Input phase sequence 123 UPS described as abo	correction to be builtin in the system.	set	0	0	0.00				-	-	-	-	-	-	-	-	
	Cesting & Commissioning of 80 KVA UPS in paralleling																
with external/inbilt is	ower factor from 25% to 100% load with SNMP card solation transformer before static switch with bypass ecification given in the document with following broad																
features. THD(i) shall be less the																	
Input power factor sha	all be more than 0.99. from 25% to 100% load.																
UPS shall carry design Shall have soft start as	n output at 40 deg. and hold of for incoming supply.																
Invertor capability to	supply 150% load for 1 minute.																
	nd Three Phase Output. (Input - 340V - 470V, Three tt - 400-415 Volt, Three Phase, 4 Wire.)																
	discharge of the battery and shall not go to 10.5 volts in																
	nal type with rack and suitable for 30 minute backup on																
	es between battery bank and UPS and battery breaker																
UPS shall be compa	tible for minimum 4 nos unit in parallel operation.																
	correction to be builtin in the system.	set	0	0	0.00				-	-	-	-	-	-	-	-	
	Cesting & Commissioning of 10 KVA UPS in paralleling																
with external/inbuilt	ower factor from 25% to 100% load with SNMP card isolation transformer before static switch as per the document with following broad features.																
THD(i) shall be less the																	
UPS shall carry design	n output at 40 deg.																
Invertor capability to	nd hold of for incoming supply. o supply 150% load for 1 minute.																
	ad Three Phase Output. (Input - 340V - 470V, Three t - 400-415 Volt, Three Phase, 4 Wire.)																
	discharge of the battery and shall not go to 10.5 volts																

							Rate										
SL. no Description of Item		Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District To Hospital	tal Quantity	Figures only)	Figures only)	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 Size of Cables between battery bank and with fuse protection.	l UPS and battery breaker																
UPS shall be compatible for minimum 4 nos (Synchronize). Parallel operation kit shall be suppl	ied with UPS.																
Input phase sequence correction to be builtin in the UPS described as above	system.	set	1.00	1.00	2.00				-	-	-	-	-	_	-	-	
Supply, Installation, Testing & Commissions paralleling mode at 0.99 input power factor from SNMP card with external/inbilt isolation transforwith bypass arrangement as per specification gifollowing broad features.	n 25% to 100% load with ormer before static switch																
THD(i) shall be less than 3%.																	
Input power factor shall be more than 0.99. from 2:	5% to 100% load.																
UPS shall carry design output at 40 deg. Shall have soft start and hold of for incoming supp	ly.																
Invertor capability to supply 150% load for 1 minu	te.																
Three Phase Input and Three Phase Output. (In Phase, 4 wire. / Output - 400-415 Volt, Three Ph																	
Shall not allow deep discharge of the battery and s case of 12 volt cells.	hall not go to 10.5 volts in																
Battery shall be external type with rack and backup on 100% load. Suitable Size of Cables between battery bank and with fuse protection.																	
UPS shall be compatible for minimum 4 nos (Synchronize). Parallel operation kit shall be suppl																	
Input phase sequence correction to be builtin in UPS described as above	the system.	set	2.00	2.00	4.00				-	-	-	-	-	-	-	-	
PA SYSTEM																	
PUBLIC ADDRESS SYSTEM																	
Supply,Installation, Testing & Commissioning of Based Digital Public Address & Voice Alarm sy devices like controllers and Paging Microphone technologies and build on the standard netwexpandability. The individual systems should be a audio messages and also be able to be networked or	stem. The selected system s, should use the TCP/IP work platform to ensure able to play 4 simutaneous																
Supply,Installation, Testing & Commissioning of Voice Alarm controller expandable upto 128 controller should be able to connect directly ove functions like the audio playing, zone controller controller should also have the following functions . 255 Priorities	zones. The voice alarm r Ethernet. It should have ol, fault monitoring, log hover. The Voice alarm		5	6	11.00				-	-	-	-	-	-	-	-	
. Z55 Priorities . Time schedule broadcasts . Its own PTT microphone . Capable of amplifier redundancy . 8 trigger inputs/outputs																	
Supply,Installation, Testing & Commissioning touch screen paging station for selection of zon status, setting of scheduled broadcasts with the foll . Built-in monitoring loudspeaker 1128 Detachable goose-neck microphone . LCD touchscreen display . Audio input	es, supervision of system		5	6	11.00				-	-	-	-	-	-	-	-	
Supply,Installation, Testing & Commissioning of nearest higher level Class-D Amplifier with 4 ind	ependent channels and can																

						Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital		Figures only)	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)
1130	Supply, Installation, Testing & Commissioning of minimum 1x500W or nearest higher level Class-D Amplifier with 4 independent channels and can provide automatic re-settable overcurrent, overload, overheating, overvoltage, under-voltage and DC protection		1	1 2.00				-	-	-	-	-	-	-	-	-
1131	Supply, Installation, Testing & Commissioning of Network Resource Interface, 4 channels network audio source, 32 dry contacts in and 8 try contacts out for Fire Alarm Interface		3	3 6.00				-	-	-	-	-	-	-	-	-
1132	Supplying, installation, testing & commissioning of 1.5/3/6W ceiling speaker complete as required.	each	114	104 218.00				-	-	-	-	-	-	-	-	-
1133	Supplying, installation, testing & commissioning of 1.5/3/6W metal box ceiling/wall speakers complete as required.	each	87	84 171.00				-	-	-	-	-	-	-	-	-
1134	Supplying, installation, testing & commissioning of ceiling/wall mounted loud speaker, 3/1.5 Watt in ABS enclosure complete as required.	each	15	20 35.00				-	-	-	-	-	-	-	-	-
1135	Supply, Installation, Testing and Commissioning of 12 Watt volume controller with G.I. Box, modular plate etc as complete as required.	set	7	12 19.00				-	-	-	-	-	-	-	-	-
	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.	5														
1136	speaker cable Single pair, 2-core, 1.5 sqmm	metre	2700	2885 5585.00				-	-	-	-	-	-	-	-	-
1137	Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.	each	2285	2435 4720.00				-	-	-	-	-	-	-	-	-
1138	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.		6	5 11.00				-	-	-	-	-	-	-	-	-
	ELV AND ICT SYSTEM															
	Sub Head 52: PASSIVE (DATA, WI-FI & NETWORKING SYSTEM)															
1139	Supply, Installation, Testing and Commissioning of Category 6A U/UTP 4 Pair Cable PVC	Box 305mtrs	32	20 52.00				-	-	-	-	-	-	-	-	-
1140	Supply, Installation, Testing and Commissioning of Category 6A UTP Patch Panel Blank Tool Less 24 Port	Nos	5	14 19.00				-	-	-	-	-	-	-	-	-
1141	Supply, Installation, Testing and Commissioning of Category 6A UTP Keystone Jack Tool Less 180D	Nos	98	141 239.00				-	-	-	-	-	-	-	-	-
1142	Supply, Installation, Testing and Commissioning of Category 6A U/UTP Patch Cord LSZH 01M	Nos	98	141 239.00				-	-	-	-	-	-	-	-	-
1143	Supply, Installation, Testing and Commissioning of Category 6A U/UTP Patch Cord LSZH 02M	Nos	98	141 239.00				-	-	-	-	-	-	-	-	-
1144	Supply, Installation, Testing and Commissioning of Face Plate Plain 01 Port	Nos	98	141 239.00				-	-	-	-	-	-	-	-	-
1145	Supply, Installation, Testing and Commissioning of Category 6A UTP Keystone Jack Tool Less 180D	Nos	98	141 239.00				-	-	-	-	-	-	-	-	-
1146	Supply, Installation, Testing and Commissioning of 6 Core Singlemode OS2 Central Loose Tube Armoured External Cable	Mtrs	1179	970 2149.10				-	-	-	-	-	-	-	-	-

						Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	•		District Hospital	District Total Quantit	y Figures only)	Figures only)	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)
1148	Supply, Installation, Testing and Commissioning of Blank Adaptor Plate	Nos	5	14 19.00				-	-	-	-	-	-	-	-	-
	Supply, Installation, Testing and Commissioning of SC 3 Port Duplex Adaptor Plate	Nos	11	14 25.00				-	-	-	-	-	-	-	-	-
	Supply, Installation, Testing and Commissioning of SC Singlemode Duplex Adaptor	Nos	11	14 25.00				-	-	-	-	-	-	-	-	-
1151	Supply, Installation, Testing and Commissioning of SC/PC Singlemode OS2 1.5m LSZH Pigtail	Nos	11	14 25.00				-	-	-	-	-	-	-	-	-
	Supply, Installation, Testing and Commissioning of SC/PC-LC/PC Singlemode OS2 3m Duplex LSZH Patch Cord	Nos	10	14 24.00				-	-	-	-	-	-	-	-	-
1153	Supply, Installation, Testing and Commissioning of 42U 800W x 1000D Front Glass & Rear Perforated Metal Door Floor Standing Cabinet as per ANSI/EIA-RS-310-D, IEC 297-2, DIN 41494, GB/T3047.2-92, ISO 9001:2015, 14001:2015 & 45001:2018 standards. Loaded with all Accessories like PDU ,Sliding Shelf, Cable Manager, Mounting Kits, Castor set.	Nos	1	1 2.00				-	-	-	-	-	-	-	-	-
1154	Supply, Installation, Testing and Commissioning of 12U 550 x 550 Single section W/M cabinet, IP20 Rated, 45Kg Loading Capacity.Comply with ANSI/EIA RS- 310-D, DIN41494. IEC 297-2, GB/T3047. 2-92.	Nos	5	14 19.00				-	-	-	-	-	-	-	-	-
1155	Supply, Installation, Testing and Commissioning of Supply, Installation, Testing and Commissioning of 40mm PVC Conduit Pipe	Nos	1448	1829.94 3277.94				-	-	-	-	-	-	-	-	-
1156	Supply, Installation, Testing and Commissioning of Supply, Installation, Testing and Commissioning of 40mm PVC Flexible Pipe	Nos	69	80 149.00				-	-	-	-	-	-	-	-	-
1157	Supply, Installation, Testing and Commissioning of Supply, Installation, Testing and Commissioning of HDPE Pipe 32mm	Nos	100	150 250.00				-	-	-	-	-	-	-	-	-
	Total PASSIVE (DATA, WI-FI & NETWORKING SYSTEM) Carried over to Summary															
	Sub Head 53 :ACTIVE ICT (ACCESS CONTROL, DISPLAY, IP BASED CCTV CAMERA & TELEPHONE)															
1158	Supply, Installation, Testing and Commissioning of The WLAN solution shall propose an indoor 802.11ax Wifi 6 MU-MIMO indoor dual radio AP Access Point (2.4, 5G)		3	10 13.00				-	-	-	-	-	-	-	-	-
1159	Supply, Installation, Testing and Commissioning of 24 X 1G RJ-45 PoE+Ports with 370 W power budget 2 x 1G/10G SFP+Ports and 2 x 1G SFP/Base-T Combo Ports upgradable to 2 x 10G SFP+Ports with 3 year warranty and support. (Make: Dell/hp/cisco/Alcatel/RUKUS/D Link/Extremee)	Nos	3	10 13.00				-	-	-	-	-	-	-	-	-
1160	Supply, Installation, Testing and Commissioning of 24 X 1/10G SFP+ Ports 2 x 20G SFP stacking Ports RAM - 2GB, Flash 2 GB with 3 year warranty and support. (Make:	Nos	3	8 11.00				-	-	-	-	-	-	-	-	-
1161	Supply, Installation, Testing and Commissioning of Firewall appliance should have at least 6x10/100/1000 RJ45 Mbps, 4 x10/100/1000/10G SFP plus Mbps 1x10/100/1000 Mbps Console port, 2 x USB/LTE Dongle,Site to Site Tunnels (SSL, IPSec, and XAUTH) – 1000 from day 1 and minimum concurrent client to site VPN connections (IPSEC,SSL VPN) - Minimum 2000 from day 1,Concurrent sessions – Min 800K and minimum New Layer 7 HTTP connections per second - 30,000, Minimum capaity of 1000 user to be connected conccurrently with 3 year warranty and support. (Make: Fortinet/check point/Palo alto/Forcepoint/Cisco/Sophos)	Nos	1	1 2.00				-	-	-	-	-	-	-	-	-
	Supply, Installation, Testing and Commissioning of On Premisess Controller, AAA server/DHCP server with 3 year warranty and support. (1	2 3.00				-	-	-	-	-	-	-	-	-

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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)
display , Minimum aud (UHD): 3840x2160 or	resting and Commissioning of 43 Inch Commercial lio power 10W*2, Maximum resolution 4K Ultra HD latest with 3 year warranty and support. (Make: A/PANASONIC/SONY/)		2	56	58.00				-	-	-	-	-	-	-	-	-
Core™ i5 processor, V GB DDR4 RAM,512 Keyboard, 1 VGA; 1 H	esting and Commissioning of 13th Generation Intel® Vindows 11 Professional, Intel® UHD Graphics 730,8 GB SSD Solid State Drive, 125 USB Black Wired DMI-out 1.4b, 21.5 Inch display with 3 year Warranty IP/ACER/DELL/LENOVO/Equivalent)	N	61	89	150.00				-	-	-	-	-	-	-	-	-
office printer with 3 yes perminute, processor s & wireline, usb port wi	esting and Commissioning of Laser Jet/Ink jet colour car warranty and support. Minimum print speed 40 peed 600 MHZ and more., network interface, wireless th redundant tray with 3 year warranty and support. (her/kyocera/EPSON/Lexmark)	Nos	3	30	33.00				-	-	-	-	-	-	-	-	-
profile S / G , 1/1.8" p Dom/Bulled fixed Let Analytics: periMetre i object, face detection, c auto switch, Shutter S Effective Range, 100I Compression, PoE, Va	Testing and Commissioning of UL Listed, ONVIF rogressive CMOS, IP Bullet Camera, Full, HD 4 MP, as, 30 FPS @4MP, Triple Stream with Edge Based ntrusion detection, line crossing detection, stationary ross counting. True Day/Night with IR Cut Filter with peed 1/5s ~ 1/10,000 s, IR Illuminator 30 Metre Min DB Wide Dynamic Range, Alarm 1/1, H.265, H264 and Proof IK10 etc with 3 year Warranty and suuport. Matrix/Aviglon/Hanwa/Dahua/Axis/Wavesys)	Nos	49	71	120.00				-	-	-	-	-	-	-	-	-
512 Mbps, Ultra HD (Storage for Better F) Capacity, Proactive Ac Expands to 64TB,Win 64 Cameras,64-Chann	esting and Commissioning of Higher Throughput of (4K) Decoding and Smooth Streaming, Huge Inbuild Recording Retention, 12 MP Resolution Recording tions Based on Various Events, 16 TB HDD Included, dows App for Live View & Playback, Connect Up to lel 2 RU NVR with 3 year Warranty and support. (atrix/Aviglon/Hanwa/Dahua/Axis/Wavesys/HP/DELL	Nos	1	2	3.00				-	-	-	-	-	-	-	-	-
Communication Syster ,4 PRI Trunk lines (30 Nos. Conference facil ring difference ,Call 1	Testing and Comissioning of IP Based voice in with 04 Port Voicemail ,04 Port FXS ,04 Port FXO (x4 Ch) Circuit with CLIP Facility, 200 IP users , 01 ity ,Speed Dial, Music on Hold , Internal/ External Barring, Call Pickup, - Redundant server in Active-lby mode with 3 Year Warranty and support. (Make: Accord/Equivalent)	Nos	1	2	3.00				-	-	-	-	-	-	-	-	-
2.3 Inch screen with 2	esting and Commissioning of IP Phone with 128X64, line Keys, 4 menu keys, 2 SIP accounts, supporting to 45 C With 3 year Warranty and support. (Make : 'Accord/Equivalent)		10	52	62.00				-	-	-	-	-	-	-	-	-
Total Bill no-6 Electrical	system								-	-	-	-	-	-			
Sub Head 54: Lift Works Bill no-7 Lift works																	
Bed Lift with Machine at the site. The Size of (1600xx2400mm),Pit of Lift & Car ceiling at entrance production is with stainless steel (Stainless Steel(hairling 2000mm.The control collective control with WITH VOLTAGE VARIATION & 220 V 1 PF rate shall include No complete, including co	k, testing & commissioning of 26 Passenger lift cum. Room having speed of 1 MPS in the existing lift shaft of Lift Well (2550 X 3050 mm). Lift Car Inside Size lepth 1800mm with Stainless steel -Hairline finish for and floor. The type of the car entrance and Landing power operated two panel centre opening sliding door hairline finish). The type of Landing door frame is a finish). The clear opening of door is 1200mm x system are Microprocessor based simplex selectives. Without attendent of AC 415 V 3 PHASE 50 Hz ARIATION OF $+ 5 \sim -10$ % of Power supply for the ASE 50 Hz OF $+ 5 \sim -10$ % for Cabin lighting The excessary Labour, fiitings, annual maintanance, etc to set and conveyance of all material, accessories, labour, lead & lift, tax, erection at site complete for finished																

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
	•		District Hospital	District T Hospital	Total Quantity	Figures only)	Figures only)	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
	26 Passenger cum Bed Lift Gearless with Machine Room having speed of 1 MPS - (G+2)	Each	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
	26 Passenger cum Bed Lift Gearless with Machine Room having speed of 1 MPS - (G+4)	Each	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
	26 Passenger cum Bed Lift Gearless with Machine Room having speed of 1 MPS - (G+5)	Each	2.00	0.00	2.00				-	-	-	-	-	-	-	-	-
1173	26 Passenger cum Bed Lift Gearless with Machine Room having speed of 1 MPS - (G+3)	Each	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
	26 Passenger cum Bed Lift Gearless with Machine Room having speed of 1 MPS - (G+4)	Each	0.00	3.00	3.00				-	-	-	-	-	-	-	-	-
	Supplying, installation, testing & commissioning of Service lift 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 (1600xx2400mm),Pit depth 1800mm 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 attendent of AC 415 V 3 PHASE 50 Hz WITH VOLTAGE VARIATION OF + 5 \sim - 10 % of Power supply for traction & 220 V 1 PHASE 50 Hz OF + 5 \sim - 10 % for Cabin lighting The rate shall include Necessary Labour, fiitings, annual maintanance ,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.																
	Service Lift Gearless with Machine Room having speed of 1.5 MPS - (G+2) - 1 Ton (26 Pass)	Each	0.00	0.00	0.00				-	-	-	-	-	-	-	-	
	Service Lift Gearless with Machine Room having speed of 1.5 MPS - (G+3) - 1 Ton (26 Pass)	Each	0.00	0.00	0.00				-	-	-	-	-	-	-	-	
	Service Lift Gearless with Machine Room having speed of 1.5 MPS - (G+4) - 1 Ton (16 Pass)	Each	0.00	1.00	1.00				-	-	-	-	-	-	-	-	
	Supplying, installation, testing & commissioning of Service lift Gearless without Machine Room having speed of 1.5 MPS in the existing lift shaft at the site. The Size of Lift Well (2500 X 3000 mm) Lift Car Inside Size (1600x2400mm),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 1200mmX2000mm.The control system are Microprocessor based simplex selective collective control with /without attendent 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,fiitings, annual maintanance ,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.																
1178	Service Lift Gearless without Machine Room having speed of 1.5 MPS - (G+5) - 1 Ton (26 Pass)	Each	2.00	0.00	2.00				-	-	-	-	-	-	-	-	
	Supplying, installation, testing & commissioning of Service lift Gearless without Machine Room having speed of 1.5 MPS in the existing lift shaft at the site. The Size of Lift Well (2100 X 2270 mm) Lift Car Inside Size (1600xx1400mm),Pit depth 1800mm 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 attendent of AC 415 V 3 PHASE 50 Hz WITH VOLTAGE VARIATION OF + 5 \sim - 10 % of Power supply for traction & 220 V 1 PHASE 50 Hz OF + 5 \sim - 10 % for Cabin lighting The rate shall include Necessary Labour,fiitings, annual maintanance ,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.																
1179	Service Lift Gearless without Machine Room having speed of 1.5 MPS - (G+4) - 1 Ton (Pass)	Each	0.00	0.00	0.00												

		-					Rate									
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
3 L. 110	Description of Item		District Hospital		Total Quantity	Figures only)	Figures only)	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 Fig
	Supplying, installation, testing & commissioning of Service lift Gearless without Machine Room having speed of 1.5 MPS in the existing lift shaft at the site. The Size of Lift Well (2320x2120 mm) Lift Car Inside Size (1300x1350mm),Pit depth 1800mm 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 attendent 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, flitings, annual maintanance ,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.															
1180	Service Lift Gearless without Machine Room having speed of 1.5 MPS - (G+2) - 1 Ton (10Pass)	Each	0.00	0.00	0.00				-	-	-	-	-	-	-	-
	Total Bill no-7 Lift works Bill no-8 Allied works								-	-	-	-	-	-		
	Sub Head 55 : Medical Gas Pipeline System															
1181	OXYGEN SYSTEM 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		1.00	1.00	2.00				-	-	-	-	-	-	-	-
1182	Supplying, installation and commissioning of 2 x 5 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			0.00				-	-	-	-	-	-	-	-
1183	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. Supplying, installation and commissioning of 3 Sources of Fully automatic	set			0.00				-	-	-	-	-	-	-	-
1101	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	1.00	1.00	2.00				-	-	-	-	-	-	-	-
	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	1.00	1.00	2.00				-	-	-	-	-	-	-	-
	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.	203.00	211.00	414.00				-	-	-	-	-	-	-	-
1187	Supplying, installation and commissioning of Oxygen flow metres (metal body) with reusable humidifier with Pr relief valve 0-15 LPM (Indigenous)	nos.	185.00	187.00	372.00				-	-	-	-	-	-	-	-
1188	Supplying, installation and commissioning of Oxygen Conversion Kit with Hose Assembly	nos.	6.00	5.00	11.00				-	-	-	-	-	-	-	-
1189	NITROUS OXIDE SYSTEM 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	1.00	1.00	2.00				-	-	-	-	-	-	-	-
1190	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	1.00	1.00	2.00				-	-	-	-	-	-	-	-
1191	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	1.00	1.00	2.00				-	-	-	-	-	-	-	-
1192	Supplying, installation and commissioning of Surface mounted Gas Outlets-Front loading complying to HTM- 02-01 / NFPA 99/ DIN standard with matching in Probe		4.00	5.00	9.00				-	-	-	-	-	-	-	-
1193	Supplying, installation and commissioning of H.P. tubing having anti static core as per ISO	metre.	30.00	40.00	70.00				-	-	-	-	-	-	-	-
1194	Supplying, installation and commissioning of N2O Conversion Kit with Hose Assembly CARBON DI OXIDE SYSTEM	nos.	5.00	5.00	10.00				-	-	-	-	-	-	-	-
1195	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	1.00	1.00	2.00				-	-	-	-	-	-	-	-
	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	1.00	1.00	2.00				-	-	-	-	-	-	-	-

							Rate										
SI no	Description of Itam	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	District Hospital		Total Quantity	Figures only)	Figures only)	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 and commissioning of Surface mounted Gas Outlets-Front loading complying to HTM- 02-01 / NFPA 99/ DIN standard with matching probe.		5.00	4.00	9.00				-	-	-	-	-	-	-	-	-
1199	Supplying, installation and commissioning of CO2 Conversion Kit with Hose Assembly	nos.	3.00	2.00	5.00				-	-	-	-	-	-	-	-	-
	VACUUM SYSTEM Supplying, Installaing 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	got	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
1201	liters capacity. Supplying, Installaing 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 2000 liters capacity.	set	0.00	0.00	0.00				-	-	-		-	-	-	-	-
	Supplying, Installaing and commissioning of Surface mounted Gas Outlet Complying to HTM- 2022/ NFPA 99/ DIN standard with matching probe for vacuum.		199.00	206.00	405.00				-	-	-	-	-	-	-	-	-
1203	Supplying, Installaing and commissioning of Ward Vacuum Unit with Regulator, Collection Jar of 600 ml with Bracket (Indigenous).	nos.	185.00	187.00	372.00				-	-	-	-	-	-	-	-	-
1204	Supplying, Installaing and commissioning of Theatre Suction Unit, trolley mounted with 2 no 2000 ml Collection Jars (Indigenous)	nos.	4.00	5.00	9.00				-	-	-	-	-	-	-	-	-
1205	Supplying, Installaing and commissioning of High Pressure color coded yellow Tube	metre	400.00	200.00	600.00				-	-	-	-	-	-	-	-	-
1206	Supplying, Installaing and commissioning of Low Pressure Tube (Transparent)	metre	300.00	150.00	450.00				-	-	-	-	-	-	-	-	-
1207	COMPRESSED MEDICAL AIR SYSTEM Supplying, Installaing 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 nost exceeding 67vpm (volume parts per million—equivalent to a dew point -46*C at atmospheric pressure). So, it should incorporate suitable Dessicant 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	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
1208	Supplying, Installaing and commissioning of Duplex 56.5CFM 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 nost exceeding 67vpm (volume parts per million—equivalent to a dew point -46*C at atmospheric pressure). So, it should incorporate suitable Dessicant 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	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
1209	Supplying, Installaing and commissioning of Surface mounted Gas Outlet Complying to HTM- 02-01/ NFPA 99 standard with probe for MA 4.	nos.	81.00	57.00	138.00				-	-	-	-	-	-	-	-	-
1210	Supplying, Installaing and commissioning of Surface mounted Gas Outlet Complying to HTM- 02-01/ NFPA 99 standard with probe for SA 7.	nos.	5.00	7.00	12.00				-	-	-	-	-	-	-	-	-
	Supplying, Installaing and commissioning of HP colour coded black Tubing Supplying, installation and commissioning of Compressored Air Conversion		400.00	100.00	500.00				-	-		-	-	-		-	-
1212	Kit with Hose Assembly AGSS (SCAVANGING) SYSTEM	nos.	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
	AGSS Outlet Venturi type COPPER PIPELINES Supplying, Installaing and commissioning of Medical Grade Copper Pipes conforming to BS: EN13348:2014 duly certified by third party Lloyds		3.00	4.00	7.00				-	-	-	-	-	-	-	-	-
	Register with Test Certificates. 76*1.0mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	100.00	100.00	200.00				-	-	-	-	-	-	-	-	-
1215 1216	54*1.2mm OD Lloyds Certified Copper pipes BS: EN13348:2014 42*1.2mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre metre	100.00 250.00	0.00 320.00	100.00 570.00				-	-	-	-	-	-		-	-
1217	35*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014 28*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	350.00 720.00	560.00 700.00	910.00 1420.00				-	-		-	-	-			
1219	22*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre metre	2100.00	2550.00	4650.00				<u>-</u>	-		-	-	-			
1220	15*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	200.00 480.00	2360.00 450.00	2560.00 930.00				-	-		-	-	-		-	-
1221	12*1.0mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	480.00	430.00	950.00				-	-	-	-	-	-	-	<u>-</u>	-
	MISCELLANEOUS ITEMS																

							Rate										
L. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital	Total Quantity	Figures only)	Figures only)	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 o
222	Supplying, Installaing and commissioning of Master Electrical Control Panel Supplying, Installaing and commissioning of A dedicated electrical control panel for Air Compressors and Vacuum pumps & Air Dryers, Auto Drain Valves, starter, MCB, amrm, 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 Cabable of cummunicating Master Alarm. Along with automtic sequencing and cascading facility	nos.	1.00	1.00	2.00				-	-	-	_	-	-	-	-	
	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 neat 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. Dutlet 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 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																
	The Hospital Bed Head Panel - 1200mm	nos.	69.00	38.00	107.00				-	-	-	-	-	-	-	-	
	The Hospital Bed Head Panel - 1500mm Anaesthetic Rigid Pendant	nos.	3.00	14.00 4.00	24.00 7.00				-	-	-	-	-	-		-	
6 5	Surgeon Pendant - Doubel Arm	nos.	4.00	5.00	9.00				-	-	-	-	-	-		-	
2 6 8 1 ()	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 Temprature, Humidity Monitoring enabled, System complaining with HTM 02-02 & NFPS 99		7.00	0.00	16.00												
	2 Gases Alarm 3 Gases Alarm	nos.	7.00 6.00	9.00 5.00	16.00 11.00				-	-	-	-	-	-		-	
	4 Gases Alarm	nos.	1.00	0.00	1.00				-	-	-		-	-			
	5 Gases Alarm (Rate Only) 6 Gases Alarm	nos.	0.00 3.00	0.00 4.00	0.00 7.00				-	-			-				
1 t t t t t t t t t t t t t t t t t t t	Master Alarm with BMS Compatibility The master alarms shall be capable to monitor minimum 40 Point. each point represents an alarm condition that the source equipment might have. When an alarm condition exists, a red light clashes and the audible alarm sounds. If several alarm conditions occur simultaneously, the most recent alarm light shall flash, while the other alarm rights shall remain lit. When an alarm condition is created, an audible alarm+shall be actuated. The master alarm must be able to monitor the following source alarm conditions. Oxygen Source Empty/Fault Oxygen Cylinder Bank Empty/Fault (could be compatible supplied manufacturer of oxygen control panel)Oxygen Emergency Bank Empty/Fault - (could be compatible supplied manufacturer of oxygen control panel) Air Compressor Faulty/Operation - (could be compatible supplied manufacturer of electrical control panel) Vacuum Pump Faulty/Operational - (could be compatible supplied manufacturer of electrical control panel) Vacuum Deficiency Vacuum Reservoir And Other MGPS Signals & Alarms Master alarm shall be integrated with BMS/HIS	nos.	1.00	1.00	2.00				-	-	-	_	-	-	-	-	
() () () () () () () () () ()	Supplying, Installaing and commissioning of Area Valve Service Unit (AVSU) - The Area Valve Service Unit (AVSU) shall conform to BS EN 739:1998, HTM 02-01 and BS EN ISO 7396-1:2007. The AVSU shall provide a zone isolation facility, for use either in an emergency or for maintenance purposes. The valves shall be operated by a quarter turn handle with over-travel prevention in both directions. A door shall lock in the closed position and AVSU's installed adjacent to each other shall be operated by different key/lock combinations. A blank zone identification label shall be provided with each AVSU fix assembly.																
	2 Gases AVSU		10.00	10.00	20.00												

							Rate										
SL. no	Description of Item	Unit	Silchar	Udalguri	T-4-1 O	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	Hospital	Total Quantity	Figures only)	Figures only)	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)
	Isolation Valves																
	For 76 mm For 54 mm	nos.	5.00	5.00 0.00	10.00 5.00				-								
	For 42 mm	nos.	9.00	8.00	17.00				-			<u>-</u>					
	For 28 mm	nos.	14.00	15.00	29.00				-	-		-					-
	For 22 mm For 15 mm	nos.	13.00 39.00	33.00 106.00	46.00 145.00				-	-		-					
	For 12 mm	nos.	107.00	0.00	107.00				-	-		-	-				
	CAMC (Comprehensive Annual Maintenance Contract) Comprehensive Maintenance of the complete Medical Gas Pipeline System installation for 2 years after completion of Defect Liability Perios / Warranty Period of Five Years as per tersm and conditions of comprehensive maintenance described in the NITas per following. The Comprehensive Maintenance of MGPS Installations includes complete MGPS Installations, Labour, Spares, all consumables etc. as required including the following. a.All MGPS Equipments in the NIT. b.Preventive Maintenance Including Testing & Calibration as per Technical / Service / Operational Manual of the Manufacturer. c.MGPS Installation inside the MGPS Plant Room																
	1st Year	nos.	1.00	1.00	2.00				-	-		-					
1246	2nd Year	nos.	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
	Sub Head 56 : Nurse Call System																
	Controller Supply and Installation of VDE 0834 compliant/Zone Controller																
	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.																
1247	Zone Controller has 2 communication ports which support chains of up to 24 call initiation devices each, and up to as many over door lights as the number of call initiation devices, for a total maximum support of 48 call devices. The Zone Controller shall have 1 uplink data port which is connected to the hospital network switch. Its connection shall be made with Cat 6 cable. Make:- ZKR, ASCOM, ROLAND, HAMPTON		6.00	8.00	14.00				-	-	-	-	-	-	-	-	-
	Nurse station display																
1248	Nurse Station display 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.	5.00	13.00	18.00				-	-	-	-	-	-	-	-	-
1249	Nurse station display 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	nos.	4.00	2.00	6.00				-	-	-	-	-	-	-	-	-
	Sketches & as per the approval of the Engineer-In-Charge. The rate including all material, labour, taxes, transportation etc to complete. ROOM CONTROL UNIT																

							Rate									
SL. no	Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total
		C	District Hospital		Total Quantity	Figures only)	Figures only)	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)
1250	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 BlueCardiac 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.	6.00	3.00	9.00				-	-	-	-	-	-	-	-
1251	Bed side Unit and patient handset 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.	152.00	164.00	316.00				-	-	-	-	-	-	-	-
1252	Supply and Installation of VDE 0834 certified/ approved connection module for Patient Terminal 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.	152.00	164.00	316.00				-	-	-	-	-	-	-	-
	Toilet Units VDE 0924 contified/companyed Bull Conductith consel Button For WC															
1253	VDE 0834 certified/ approved Pull Cord with cancel Button - For WC 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.	nos.	45.00	52.00	97.00				-	_	-	_	-	-	-	-
	- 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.															
1254	Door Indicator with I/O Supply of VDE 0834 certified/ approved Loop Powered Lamp Module 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.	33.00	34.00	67.00				-	-	-	-	-	-	-	
	Door Indicator															

SL. no	Description of Itom	I Init	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
SL. 110	Description of Item	Unit	District Hospital		Total Quantity		Figures only)	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 or
	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								omy	omy	omy	uniy	only	omy			
1255	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.	5.00	1.00	6.00				-	-	-	-	-	-	-	-	
	Networking & Integration Supply and Installation of Management center - Nurse Call Server																
1256	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.	1.00	1.00	2.00				-	-	-	-	-	-	-	-	
	Mifare card smart cards to verify the permissions of hospital personel who wish to initiate																
1257	or terminate various calls. This allows custom permissions to be set for different type of card user, nurse, code blue team, Doctors etc 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.	30.00	25.00	55.00				-	-	-	-	-	-	-	-	
	Sub Head 57: Hospital Cubical Curtain Track System Supply and installation of Optitrac® Cubicle Curtain Track System" heavy																
	Duty Aluminium cubicle track made of Aluminum alloy (6063-T5) having minimum size 35mm wide x 19mm high x 1.52mm thick, made of aluminium Extruded with white powder coating having properties like Tensile Strength 195 MPa, Shear Strength 150 MPa, Corrosion resistance properties with 50-60 micron Standard white powder coating with seven stage processes, Tracks to have drill guide on the top. Runners shall be of Wheel Type Roller and made from Nylon, Deralin with SS 304 Hook. Roof suspender, wall support, bridge clamp all shall me made from Aluminum Powder coated. Shall Provide factory bent track sections with one-foot radius. End Cap: Provide thermoplastic end caps in a colour matching the track. End cap shall have a removable inner cap that allows carriers to be removed. Provide track	Rm	425.00	485.00	910.00				_			_	_	_		_	
	aluminium splice to fit track section, with finish matching that of the track. Provide support sets, designed to receive attachment from track support. Provide brackets to mount to angle ceilings and receive attachment from track support. Unit includes durable hinge, latch and standard length. Acetal ipc ball and chain carriers with nonbinding nylon rollers accurately fit to track. Carriers to be fitted to curtain to prevent accidental curtain removal.		25.00	.00.00	<i>3</i> 1000												
	CUBICLE / PRIVACY CURTAIN :																
1259	Supply and installation of 100% polyester cubical curtains. Fabric is to be opaque, water repellant, wrinkle free, shrink proof, Anti-odor, Anti-microbial, Anti-fungal with high strength 18" oval net nylon mesh on top and Fabric 7'6" (H) x 4' (W). Curtain Fabric shall be of 230GSM.	Sq.m	678.00	697.00	1375.00				-	-	-	-	-	-	-	-	
1260		Per No.	1.00	1.00	2.00				-	-	-	-	-	-	-	-	
	Size 1350x600x850mm Top & undershelf of s.s.sheet on m.s.anlge frame work & s.s.tubular legs, with adjustable feet. Top to have sound deadning material lining as required. EXHAUST HOOD (Without Ducting Fixing & Extraction fan) FOR TWO																
	EXHAUST HOOD (Without Ducting, Fixing & Extraction fan) FOR TWO BURNER RANGE Size 1950x750x600mm	Per No.	1.00	1.00	2.00				-	-	-	-	-	-	-	-	

							Rate										
SL. no	Description of Item	Unit	Silchar District	Udalguri District	Total Quantity	INR (in Figures	JPY (in Figures	USD (in Figures		Silchar DH			Udalguri DH			Total	
			Hospital	Hospital	Quantity	only)	only)	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
i	Cast Aluminum/CI body, duly polished / painted, with worm & perforated insert. Top feeding tray. Worm easily cleanable fitted with 1/2HP elect. motor.																
1263		Per No.	1.00	1.00	2.00				-	-	-	-	-	-	-	-	
S	S.S.Sheet body, having s.s.sheet conveyor belt. App.225mm wide. The unit will have heating elements on top & lower portion of conveyor belt with variable heat & speed control switch. (MADE IN ITALY)																
		Per No.	1.00	1.00	2.00				-	-	-	-	-	-	-	-	
7	Size 1500X600X850mm Top & undershelf of s.s.sheet on m.s.anlge frame work & s.s.tubular legs, with adjustable feet. Top to have sound deadning material lining as required.																
1265 F	FOOD TROLLEY WITH 4 ROUND PANS, 1 RICE TRAY & STORAGE beneath	Per No.	6.00	6.00	12.00				-	-	-	-	-	-	-	-	
S r 4	O/S 1350X750X900mm S.S.Sheet insulated body, Frame work of m.s.anlge of size 38x38x5mm, mounted on 4 castors (2 with brakes) of size 150mm top to have cutout for 4nos. Round pans for Dal, Subzi etc. with 1 rice tray & storage below. Three side covered with s.s.sheet with s.																
	TRAY CARRIER TROLLEY Size 1200X600X1200mm	Per No.	6.00	6.00	12.00				-	-	-	-	-	-	-	-	
5 V	S.S.Bottom base shelf mount at 150mm with all four sides turned down 50mm in 12mm and secured to welded s.s.anlge frame work & PROVIDED WITH THREE NOS. OF DETACHABLE TRAYS CUM SHELFS UNIT WILL BE MOUNTED ON 4" PILLAR TYPE CASTORS WHEELS (2 NOS. WITH BRAKE & 2 NOS. WITHOUT BRAKE)																
1267 S		Per No.	1.00	2.00	3.00				-	-	-	-	-	-	-	-	
3 p	Top of 16G s.s.sheet, Bain Marie water tank of 18G s.s.sheet, fitted with 3.0kw heating element with automatic temperature controller. Water outlet provision with drain valve, 3 sides covered with 20G s.s.sheet, Top to accommodate s.s.sheet Food Pans with GN pan 1x2x4" depth with lid 5 sets.																
S	Size 900X450X1800	Per No.	3.00	5.00	8.00				-	-	-	-	-	-	-	-	
S	Vertical of 32 mm dia stainless steel pipe with adjustable feet 4 no of 18 S.S Sheet at equaly distance. SS MAKE CANTEEN DINING TABLE (SIX SEATER)	Per No.	6.00	5.00	11.00					_	_		_	_	_	_	
s t t t t t (T	SS MAKE CANTEEN DINING TABLE (SIX SEATER): Overall size of the Dining Table 6' L x 3' W x 30" H total stainless steel (S.S) structure & body. Table top height is 30" from floor level and round type sitting stool height is 18" from floor level: all structures using 16 gauge S.S square frame (2" x 1") and S.S sheet of 18 guage with necessary bending and molding: Total 6 nos. round sitting top (S.S) attached design in both side. All S.S sheet will be SS 304 grade and 18 gauge (totally rust and moisture proof), pipe for sitting stool OD is 2" round S.S tube and table to tool pipe OD is 1 ½" (one and half inch) round S.S tube (16 gauge). Main Table Top thickness is 1"																
S	Sub Head 59 : Solid Waste Management																
1270 b	Supply of pvc 60 Lit capacity Waste bins Rectangular types. The Size of the bin is height -850mm and Top Dia - 350X350mm and Bottm dia -250X250mm and handle with cover including tax or its equivalent of ISI make with Green, Blue, Red, Black, Yellow, colours as directed by the Engineer in -charge.	Nos	232.00	237.00	469.00				-	-	-	-	-	-	-	-	
1271 3	Supply of pvc 90 Lit capacity Waste bins Rectangular types. The Size of the bin is height -850mm and Top Dia - 510X510mm and Bottm dia -380X400mm and handle with cover including tax or its equivalent of ISI make with Green, Blue, Red, Black, Yellow, colours as directed by the Engineer in -charge.	Nos	78.00	89.00	167.00				-	-	-	-	-	-	-	-	
b	Supply of pvc 21 Lit capacity Waste bin Rectangular types. The Size of the bin is height -420mm and handle with cover including tax or its equivalent of ISI make with directed by the Engineer - in -charge.																
1272 S	Sanitary Napkin Waste Bin.	Nos	65.00	73.00	138.00				-	-	-	-	-	-	-	-	
1273 li	Supply of pvc 240 Lit capacity Two Wheeled Waste bin .The Size of the bin is height -1065 mm and Top Length 740mm and Top width 580mm and handle with cover including tax or its equivalent of ISI make with Green.Blue.Red.Black.Yellow. colours as directed by the Engineer - in -	Nos	2.00	3.00	5.00				-	-	-	-	-	-	-	-	

										Silchar DH			Udalguri DH			Total	
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures	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 or
1275	Supply of pvc 120 Lit capacity Waste bin with Permanent structure .The Size of the bin is height -915 mm and width 410mm and handle with cover including tax or its equivalent of ISI make with Green,Blue colours as directed by the Engineer - in -charge.	Nos	5.00	6.00	11.00				-	-	-	-	-		-	-	
1276	Supply of pvc 660 Lit capacity Waste bin with Permanent structure .The Size of the bin is height -915 mm and width 410mm and handle with cover including tax or its equivalent of ISI make with Green,Blue colours as directed by the Engineer - in -charge.	Nos	2.00	3.00	5.00				-	-	-	-	-	-	-	-	
	Sub Head 60 : Hospital & Annex Block Furniture																
1277	Supplying and fixing of Matrix Lounge Chair as per the following specifications. DIVANO LITE/TANDEM PUBLIC 4 SEATER/TANDEM SEATING/2290L X 720W X 800H, Seat Perfo - 1.2 mm thk, Seat Bracket - 1.2 mm, Back Perfo - 1.2 mm, Back Bracket - 1.2 mm, Seat Clamp & Back Clamp - 4.0 mm, Solid Center beam - 2.0 mm, Handle - 1.2 mm, Handle Bracket - 2.0 mm, Leg - 1.2 mm, Leg Plate - 4.0 mm, Leg Bush - 2.0 mm, Leveller Cup - 0.6 mm. 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.		103.00	81.00	184.00				-	-	-	-	-	-	-	-	
1278	Supplying and fixing of Chair as per the following specifications. Nexa Chair with foam seating, pushback mechanism, fixed armrest and 50mm twin-wheel Nylon castors mounted on 600 dia Nylon base. Chair back is ergonomically designed, made of Hot pressed Plywood and PU foam of density 50-55 kg/m³and upholstered with 100% Polyester Fabric. 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.		110.00	135.00	245.00				-	-	-	-	-	-	-	-	
1279	Supplying and fixing of Table as per the following specifications. Main Table 1200Lx6000Dx750H, Pedestal - 400W x 450D x 675H, 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. Pedestal - TOP: 18mm 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. 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.		53.00	57.00	110.00				-	-	-	-	-	-	-	-	
1280	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.		11.00	18.00	29.00				-	-	-	-	-	-	-	-	
1281	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.		21.00	22.00	43.00				-	-	-	-	-	-	-		

							Rate										
SL. no	o Description of Item	Unit	Silchar	Udalguri		INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH			Total	
			District Hospital	District Hospital			Figures only)	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)
1282	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. 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.		31.00	44.00	75.00				-	-	-	-	-	-	-	-	-
1283	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 (+0/-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.		21.00	65.00	86.00				-	-	-	-	-	-	-	-	-
1284	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 grade-chemical 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.		10.00	10.00	20.00				-	-	-	-	-	-	-	-	-

							Rate								
SL.	no Description of Item	Unit	Silchar District	Udalguri District	Total Quantity	INR (in Figures	JPY (in Figures	USD (in Figures		Silchar DH		Uda	ılguri DH	Total	
			Hospital	Hospital	Total Qualitity	only)	only)	only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)		(in Figures USD (in Figures only)	INR (in Figures only) JPY (in Figures on	uly) USD (in Figures only)
128	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. 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.		14.00	25.00	39.00				-	-	-	-			-
128	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.		58.00	54.00	112.00				-	-	-	-		-	-
128	Supplying and fixing of Meeting Table 15seater 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 made of 18mm thick Prelaminated particle board with machine pressed PVC edge band on all sides. WIRE MANAGEMENT The Vertical (snake) & Horizontal(Switch mounting box) wire carriers are placed below worktop, made up of CRCA with Powder Coating & Fixed to the understructure with specially designed brackets. Provision of placing switch plates in the cable tray which is easily accessible through a Access Flap (450L). 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.		1.00	2.00	3.00				-	-	-	-	-	-	-
128	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.		2.00	34.00	36.00				-	-	-	-	-	-	-

							Rate								
CI.	Description (CIV.)	TI .*4	Cilobou	Udalawi		IND (in	IDV (in	LICD (:		Silchar DH			Udalguri DH		Total
SL. no	Description of Item	Unit	Silchar District Hospital	Udalguri District Hospital	Total Quantity	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 USD (in Figures only) only)	res INR (in Figures only)	JPY (in Figures only) USD (in Figures only)
1289	PISA TABLE 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 rateincluding all material, labour, taxes, transportation etc to complete		11.00	10.00	21.00				-	-	-	-	-	-	
	BILL OF QUANTITY (MEDICINE STORE)														
1290	Supply and Fixing of L Angular Rack Size: 2130 (H) X 1080 (W) X 380 (D) mm Rack with 5 Compartments of 6 nos. of shelves. Distance between each shelf will be 410 mm. These 6 shelves should be hanging arrangement (adjustable). 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 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.		21.00	21.00	42.00				-	-	-	-	-	-	-
1291	Supply and Fixing of ALMIRAH SS 1 Internal Size of Almirah: 1850 (H) X 900 (W) X 450 (D) mm 2 Leg Size of Almirah: 150 (H) X 120 (W) X 450 (D) mm 3 Rack with 5 Compartments. 4 Distance between each shelf will be 360 mm. 5 These 4 shelves should be hanging arrangement (adjustable). 6 One shelf should have internal door and lock 7 Standard lock and 2 sets of keys. 8 The thickness of the Almirah sheet shall be 18 SWG. 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 The quality of used M.S sheet for making Almirah shall be free from any pitting and corrosion etc.		14.00	14.00	28.00				-	-	-	-	-	-	-
1292	10 H/D Rubber bushes shall be provided to the bottom of legs of Almirah. Certificates: ISO 9001 and BIS/Notified 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. Supply and Fixing of Almirah with glass door Steel almirah with Toughened Glass Size: Height 1980mm, Width 915mm, Depth 480mm Mmanufactured from CRCA sheet conforming to IS 513-1994 grade D material. 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. The almirah shall be equipped with four fixed shelves, manufactured from 22 gauge CRCA sheet, thereby making five compartments in the Almirah. The steel shelf shall be capable of carrying a uniformly distributed load of 70kgms. Certification: Manufacturer should have ISO: 9001, BIS/ CE		7.00	12.00	19.00				-	-	-	-	-	-	
	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.														

						Rate								
SL. no	Description of Item	Unit	Silchar	Udalguri	INR (in	JPY (in	USD (in		Silchar DH			Udalguri DH	Total	
		<i>-</i>	District Hospital	District Hospital		Figures only)	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)
1293	Supply and Fixing of Table for clerk WORKTOP - Made of 25 mm thick Prelaminated particle board with machine pressed PVC edge band on all sides. UNDERSTRUCTURE- C LEG constructed of Vertical of 50X50X1.6 mm & Horizontal of 40mm X 40mm X 1.6mm thick MS Pipe with caps & levellers. Cross member is made of 40mm X 40mm X 1.6mm MS pipes powder coated finish of 50 to 60 Microns DFT. 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.		6.00	14.00 20.00				-	-	-	-	-	-	-
1294	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.		26.00	30.00 56.00				-	-	-	-		-	-
1295	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.		100.00	86.00 186.00				-	-	-	-	-	-	-
	BILL OF QUANTITY (NURSE STATION)													
1296	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 1050mm level is 600mm deep. below 750mm to be provided with openable storages Counter top to be formed out of 19mm thick ply finished with		70.00	86.00 156.00				-	-	-	-	-	-	-
	Total Bill no-8 Allied works													