

Project Name : Assam Health System Strengthening Project supported by JICA
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
<p>1. The Bill of Quantities shall be read in conjunction with the General and Particular Conditions of Contract, Specification, and Drawings.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>8. No Contractor's overhead charges or profit shall be included or payable on the Provisional Sum for the cost of the DB.</p> <p>9. The method of measurement of completed work for payment shall be in accordance with IS 1200 (All parts) and CPWD specifications as applicable.</p> <p>10. Any unit rates and/or prices quoted in the Bill of Quantities in:</p> <p>(a) Indian Rupees (INR), there shall be no decimal places below zero.</p> <p>(b) Japanese Yen (JPY), there shall be no decimal places below zero.</p> <p>(c) United States Dollar (USD), there shall be two decimal places below zero.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>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.</p> <p>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.</p>

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IFB No:				
GRAND SUMMARY				
Description		Amount		
		INR	JPY	USD
Facility No-1 Silchar - District Hospital		-	-	-
Facility No-2 Udalguri - District Hospital		-	-	-
(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			

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IFB No:				
Specified Provisional Sums				
SI No	Description	Amount		
		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

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

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

IFB No:

SUMMARY OF BILLS							
SI No	Description	Silchar District Hospital			Udalguri District Hospital		
		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	-	-	-	-	-	-
6	Bill no-6 Electrical system	-	-	-	-	-	-
7	Bill no-7 Lift works	-	-	-	-	-	-
8	Bill no-8 Allied works	-	-	-	-	-	-
	TOTAL	-	-	-	-	-	-

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[illegible]

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SL. no	Description of Item	Unit				Rate														
						Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total		
												INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
	20 mm cement plaster of mix ;																			
152	1:6(1 cement: 6 Fine sand)	sqm	10.00	10.00	20.00				-	-	-	-	-	-	-	-	-	-		
	6 mm cement plaster of mix :																			
153	1:3 (1 cement : 3 fine sand)	sqm	17522.29	17322.10	34844.40				-	-	-	-	-	-	-	-	-	-		
	White washing with lime to give an even shade :																			
154	New work (three or more coats)	sqm	6553.00	17014.10	23567.10				-	-	-	-	-	-	-	-	-	-		
	Colour washing such as green, blue or buff to give an even shade.New work (two or more coats) with a base coat of white washing with lime	sqm	810.00	0.00	810.00				-	-	-	-	-	-	-	-	-	-		
	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :																			
155	New work (two or more coats) over and including water thinnable priming coat with cement primer	sqm	2246.00	9883.10	12129.10				-	-	-	-	-	-	-	-	-	-		
	Finishing walls with water proofing cement paint of required shade :																			
156	New work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	12618.37	3139.52	15757.90				-	-	-	-	-	-	-	-	-	-		
157	Applying priming coat With 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	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	sqm	810.00	91.00	901.00				-	-	-	-	-	-	-	-	-	-		
159	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	sqm	100.00	121.00	221.00				-	-	-	-	-	-	-	-	-	-		
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :																			
160	Two or more coats on new work	sqm	3150.00	1431.00	4581.00				-	-	-	-	-	-	-	-	-	-		
	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :																			
161	Two or more coats on new work	sqm	278.81	239.81	518.63				-	-	-	-	-	-	-	-	-	-		
162	Providing and applying white cement based putty of average thickness1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	12444.00	12317.64	24761.64				-	-	-	-	-	-	-	-	-	-		
	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.																			
163	Two Coat	sqm	73.74	88.00	161.74				-	-	-	-	-	-	-	-	-	-		
	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.																			
164	a) Two coats	sqm	10992.00	11298.00	22290.00				-	-	-	-	-	-	-	-	-	-		
165	Polyurethane Paint	sqm	1120.00	1609.00	2729.00				-	-	-	-	-	-	-	-	-	-		
166	ANTIBACTERIAL ACRYLIC EMULSION PAINT	sqm	279.00	217.64	496.64				-	-	-	-	-	-	-	-	-	-		
	External Finishes																			
167	18 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 (1 cement : 3 coarse sand) in addition cement compound fibre has to be added in the cement plaster finished rough with sponge	sqm	12931.74	11064.25	23995.99				-	-	-	-	-	-	-	-	-	-		
168	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	sqm	33430.00	16180.00	49610.00				-	-	-	-	-	-	-	-	-	-		

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SL. no	Description of Item	Unit				Rate											
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total		
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
231	<u>Stone Sand Blanket</u> 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				-	-	-	-	-	-	-	-	-
	<u>Initial Load Test (Single and Group Column Test)</u>																
232	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.																
233	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.																
	<u>Routine Load Test (Single and Group Column Test)</u>																
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.																
Confirmation of Liquefaction mitigation by field test																	

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									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
260	KEEP SILENCE/PL SWITCH OFF MOBILE 200X200	each	15.00	24.00	39.00				-	-	-	-	-	-	-	-	-
	Providing and fixing prohibition signage,made of casted acrylic, duly laser cutand all text and pictograms as 3M vinyl electrocut,all fixing arrangements in 304 grade stainless steel,as per design .																
261	CEILLING DRIECTION SIGN BOARD 300x1200	each	17.00	45.00	62.00				-	-	-	-	-	-	-	-	-
262	DIRECTION ARROWS 300x400	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				-	-	-	-	-	-	-	-	-
268	Informative Sign Board	each	4.00	4.00	8.00				-	-	-	-	-	-	-	-	-
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 Grass Areas																
272	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	cum	1004.00	1000.00	2004.00				-	-	-	-	-	-	-	-	-
273	Flooding the ground with water including making kiaries and dismantling the same.	sqm	2510.00	2500.00	5010.00				-	-	-	-	-	-	-	-	-
274	Fine dressing the ground	sqm	2510.00	2500.00	5010.00				-	-	-	-	-	-	-	-	-
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).																
276	Holes 1.2 m dia and 1.2 m deep	each	42.00	40.00	82.00				-	-	-	-	-	-	-	-	-
277	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	Royal palm	nos	33.00	33.00	66.00				-	-	-	-	-	-	-	-	-
279	Plumeria alba	nos	4.00	4.00	8.00				-	-	-	-	-	-	-	-	-
280	Heterophragma adenophyllum	nos	2.00	2.00	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.																

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									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
381	50 mm nominal bore (PN 1.6)	each	12.00	16.00	28.00				-	-	-	-	-	-	-	-	-
382	65 mm nominal bore (PN 1.6)	each	15.00	18.00	33.00				-	-	-	-	-	-	-	-	-
383	80mm nominal bore (PN 1.6)	each	5.00	12.00	17.00				-	-	-	-	-	-	-	-	-
	Providing and fixing gun metal non- return valve of approved quality (screwed end) :																
	40 mm nominal bore																
384	Horizontal	each	5.00	4.00	9.00				-	-	-	-	-	-	-	-	-
385	Vertical	each	10.00	8.00	18.00				-	-	-	-	-	-	-	-	-
	50 mm nominal bore																
386	Horizontal	each	10.00	10.00	20.00				-	-	-	-	-	-	-	-	-
387	Vertical	each	10.00	10.00	20.00				-	-	-	-	-	-	-	-	-
	65 mm nominal bore																
	Providing and fixing uplasticised PVC connection pipe with brass unions :																
	30 cm length																
388	20 mm nominal bore	each	186.00	160.00	346.00				-	-	-	-	-	-	-	-	-
	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :																
	100 mm diameter																
389	Class II	each	10.00	3.00	13.00				-	-	-	-	-	-	-	-	-
	150 mm diameter																
390	Class II	each	4.00	3.00	7.00				-	-	-	-	-	-	-	-	-
	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 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/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 :																
391	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	22.00	15.00	37.00				-	-	-	-	-	-	-	-	-
	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 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	12.00	5.00	17.00				-	-	-	-	-	-	-	-	-
	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	metre	90.00	75.00	165.00				-	-	-	-	-	-	-	-	-
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	metre	65.00	80.00	145.00				-	-	-	-	-	-	-	-	-
398	50 mm diameter pipe	metre	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-
	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality																
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	metre	195.00	10.00	205.00				-	-	-	-	-	-	-	-	-
402	65 mm diameter pipe	metre	45.00	55.00	100.00				-	-	-	-	-	-	-	-	-
403	80 mm diameter pipe	metre	280.00	325.00	605.00				-	-	-	-	-	-	-	-	-
	Providing and filling sand of grading zone V or coarser grade, all round the																

SL. no	Description of Item	Unit				Rate											
						INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total		
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
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) :																
409	32 mm nominal bore	each	4.00	5.00	9.00				-	-	-	-	-	-	-	-	-
410	40 mm nominal bore	each	21.00	20.00	41.00				-	-	-	-	-	-	-	-	-
411	50 mm nominal bore	each	15.00	15.00	30.00				-	-	-	-	-	-	-	-	-
412	65 mm nominal bore	each	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces,tapers etc if required will be paid separately.																
413	50 mm nominal bore	each	4.00	8.00	12.00				-	-	-	-	-	-	-	-	-
414	80 mm nominal bore	each	10.00	6.00	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.																
415	15 mm nominal bore	each	5.00	12.00	17.00				-	-	-	-	-	-	-	-	-
416	20 mm nominal bore	each	10.00	15.00	25.00				-	-	-	-	-	-	-	-	-
417	25 mm nominal bore	each	15.00	10.00	25.00				-	-	-	-	-	-	-	-	-
418	32 mm nominal bore	each	10.00	12.00	22.00				-	-	-	-	-	-	-	-	-
419	40 mm nominal bore	each	10.00	15.00	25.00				-	-	-	-	-	-	-	-	-
420	50 mm nominal bore	each	5.00	8.00	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.																
421	65 mm nominal bore	each	14.00	12.00	26.00				-	-	-	-	-	-	-	-	-
422	80 mm nominal bore	each	14.00	12.00	26.00				-	-	-	-	-	-	-	-	-
423	100 mm nominal bore	each	0.00	0.00	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.																
424	20 mm nominal bore	each	2.00	4.00	6.00				-	-	-	-	-	-	-	-	-
425	25 mm nominal bore	each	5.00	4.00	9.00				-	-	-	-	-	-	-	-	-
	Supply and fixing in position the following Solenoid Valves with Brass body, SS-304 spring, pressure limit of 12 Kg / Cm2 and assembled with NBR seal, Include power cable, control cable, level probe/sensor/ elcetrode, including fittings, connectors, adopters etc. & accessories complete set																
426	40 mm nominal bore	each	2.00	6.00	8.00				-	-	-	-	-	-	-	-	-
427	50 mm nominal bore	each	2.00	6.00	8.00				-	-	-	-	-	-	-	-	-
	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)																
428	80 mm nominal bore	each	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
429	100 mm nominal bore	each	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
430	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.	per litre	10000.00	10000.00	20000.00				-	-	-	-	-	-	-	-	-
	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :																
431	15 mm nominal bore	each	21.00	15.00	36.00				-	-	-	-	-	-	-	-	-

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SL. no	Description of Item	Unit				Rate												
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total			
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
	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	Cum	231.00	200.00	431.00				-	-	-	-	-	-	-	-	-	-
484	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	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 size).	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.																	
489	1620 lpm at 56 m Head	Set	0.00	0.00	0.00				-	-	-	-	-	-	-	-	-	-
490	2280 lpm at 70 m Head	Set	1.00	1.00	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				-	-	-	-	-	-	-	-	-	-
492	2280 lpm at 70m Head	Set	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-	-

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SL. no	Description of Item	Unit				Rate											
						INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total		
			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)
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				-	-	-	-	-	-	-	-	-
775	Cabinet Inline Exhaust Fan -1900CFM @ 15 mm STP	Nos	1	0	1.00				-	-	-	-	-	-	-	-	-
	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																
776	Cabinet Inline Exhaust Fan - 600 CFM @ 20 mm STP	Nos	1	0	1.00				-	-	-	-	-	-	-	-	-
777	Cabinet Inline Exhaust Fan - 300 CFM @ 15 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	-
778	Cabinet Inline Exhaust Fan - 350 CFM @ 15 mm STP	Nos	0	2	2.00				-	-	-	-	-	-	-	-	-
779	Cabinet Inline Exhaust Fan - 350 CFM @ 20 mm STP	Nos	0	0	0.00				-	-	-	-	-	-	-	-	-
780	Cabinet Inline Fresht Fan - 350 CFM @ 10 mm STP	Nos	1	0	1.00				-	-	-	-	-	-	-	-	-
781	Cabinet Inline Fresht Fan - 450 CFM @ 10 mm STP	Nos	1	0	1.00				-	-	-	-	-	-	-	-	-
782	Cabinet Inline Exhaust Fan - 750 CFM @ 20 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	-
783	Cabinet Inline Exhaust Fan - 900 CFM @ 20 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	-
784	Cabinet Inline Exhaust Fan - 950 CFM @ 20 mm STP	Nos	0	1	1.00				-	-	-	-	-	-	-	-	-
785	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																
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				-	-	-	-	-	-	-	-	-

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SL. no	Description of Item	Unit				Rate														
						Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total		
												INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
882	2x1.5 sq mm + 1x1.5 sq mm earth wire	metre	2128	2412	4540.00				-	-	-	-	-	-	-	-	-			
883	2x2.5 sq mm + 1x2.5 sq mm earth wire	metre	12320	13794	26114.00				-	-	-	-	-	-	-	-	-			
884	2x4 sq mm + 1x4 sq mm earth wire	metre	22953	23274	46227.00				-	-	-	-	-	-	-	-	-			
885	2x6 sq mm + 1x6 sq mm earth wire	metre	0	899	899.00				-	-	-	-	-	-	-	-	-			
886	2x16 sq mm + 1x6 sq mm earth wire	metre	0	0	0.00				-	-	-	-	-	-	-	-	-			
887	4x2.5 sq mm + 2x2.5 sq mm earth wire	metre	0	0	0.00				-	-	-	-	-	-	-	-	-			
888	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	metre	0	915	915.00				-	-	-	-	-	-	-	-	-			
889	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	metre	875	1397	2272.00				-	-	-	-	-	-	-	-	-			
890	4x10 sq mm + 2x6 sq mm earth wire.	metre	570	1507	2077.00				-	-	-	-	-	-	-	-	-			
891	4x16 sq mm + 2x6 sq mm earth wire.	metre	2513	3840	6353.00				-	-	-	-	-	-	-	-	-			
	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.																			
892	5/6 A switch	each	284	216	500.00				-	-	-	-	-	-	-	-	-			
893	2 way 5/6 A switch	each	113	102	215.00				-	-	-	-	-	-	-	-	-			
894	15/16 A switch	each	382	681	1063.00				-	-	-	-	-	-	-	-	-			
895	3 pin 5/6 A socket outlet	each	284	216	500.00				-	-	-	-	-	-	-	-	-			
896	6 pin 15/16 A socket outlet	each	384	408	792.00				-	-	-	-	-	-	-	-	-			
897	Telephone socket outlet	each	119	108	227.00				-	-	-	-	-	-	-	-	-			
898	TV antena 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.	each	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.	metre	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	5480	10465.00				-	-	-	-	-	-	-	-	-			
909	25 mm dia	metre	8250	9075	17325.00				-	-	-	-	-	-	-	-	-			
910	32 mm dia	metre	1780	2050	3830.00				-	-	-	-	-	-	-	-	-			
911	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	each	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.																			
913	20mm dia	metre	45	60	105.00				-	-	-	-	-	-	-	-	-			
914	25mm dia	metre	32	75	107.00				-	-	-	-	-	-	-	-	-			
915	32mm dia	metre	38	80	118.00				-	-	-	-	-	-	-	-	-			
	Sub Head 47 : Distribution Board																			
	MCB DB																			

SL. no	Description of Item	Unit				Rate									Total		
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH					
									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 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. Of 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																
	04 Nos 63 Amp TPN Moulded Case Circuit Breaker																
	08 Nos 32 Amp TPN Moulded Case Circuit Breaker																
	1 Lot of control / power wiring.																
	(PTTA Type panels are considered)																
934	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. Of 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																
	04 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.																
935	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. Of 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																

SL. no	Description of Item	Unit				Rate									Total			
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH						
									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 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.																	
949	UPS Panel described as above	set	0	0	0.00				-	-	-	-	-	-	-	-	-	-
	UPS 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																	
	08 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 MCCB's shall be 36KA breaking capacity.																	
950	UPS Panel described as above	set	1	0	1.00				-	-	-	-	-	-	-	-	-	-
	UPS 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.																	
951	UPS Panel described as above	set	5	2	7.00				-	-	-	-	-	-	-	-	-	-
	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																	

SL. no	Description of Item	Unit				Rate											
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total		
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
	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.																
	(PTTA Type panels are considered)																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
952	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.																
	(PTTA Type panels are considered)																
	upto 200A MCCB's shall be 25 KA breaking capacity & above 200A MCCB's shall be 36KA breaking capacity.																
953	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																
	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				-	-	-	-	-	-	-	-	-

SL. no	Description of Item	Unit				Rate												
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total			
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
	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. 400/5 amps 15 VA, CL 1 secondary CTs to measure and display.																	
	1 Nos Fixed type Automatic transfer switch 400 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																	
	400Amp TPN aluminium bus bar 0.8 Amp/Sqmm with heat shrinkable insulation sleeve..																	
	OUTGOING																	
	08 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 MCCB's shall be 36KA breaking capacity.																	
955	UPS Panel described as above	set	0	0	0.00				-	-	-	-	-	-	-	-	-	-
	EMERGENCY LIGHT PANEL- (MAIN BLOCK)																	
	INCOMING																	
	1 No 63 Amp FP Moulded case Circuit Breaker																	
	1 Set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																	
	1 Set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																	
	1 No. MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 63/5 amps 15 VA, CL 1 secondary CTs to measure and display.																	
	BUS BAR																	
	63 Amp FP copper busbar 0.8 Amp/Sqmm with heat shrinkable insulation sleeve.																	
	OUTGOING																	
	12 No. 25 Amp DP 10kA Miniature Circuit Breaker																	
	1 Lot of control / power wiring.																	
	(PTTA Type panels are considered)																	
	All MCCB's shall be of 16 KA breaking capacity.																	
956	Emergency Light Panel described as above	set	0	0	0.00				-	-	-	-	-	-	-	-	-	-
	EMERGENCY LIGHT PANEL- (MAIN BLOCK)																	
	INCOMING																	
	1 No 63 Amp FP Moulded case Circuit Breaker																	
	1 Set of phase indicating lamps (R, Y & B) and shall be protected by 2 amps SP MCB's.																	
	1 Set of ON / OFF indicating lamps and shall be protected by 2 amps SP MCB's.																	
	1 No. MFM Metre with CT's Metre with RS 485 port and should communicate on Modbus RTU with 3 Nos. 63/5 amps 15 VA, CL 1 secondary CTs to measure and display.																	
	BUS BAR																	
	63 Amp FP copper busbar 0.8 Amp/Sqmm with heat shrinkable insulation sleeve.																	
	OUTGOING																	
	18 No. 25 Amp DP 10kA Miniature Circuit Breaker																	
	1 Lot of control / power wiring.																	
	(PTTA Type panels are considered)																	
	All MCCB's shall be of 16 KA breaking capacity.																	
957	Emergency Light Panel described as above	set	1	1	2.00				-	-	-	-	-	-	-	-	-	-
	MAIN UPS PANEL- (2 x 60 KVA) - MAIN BLOCK																	
	INCOMING																	
	02 No. 125Amp 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.																	
	2 No. Digital MFM Metre with CT's Metre with RS 485 port and should																	

SL. no	Description of Item	Unit				Rate												
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total			
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
	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																	
	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																	
962	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																	

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SL. no	Description of Item	Unit				Rate												
			Silchar District Hospital	Udaalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udaalguri DH			Total			
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	
	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.																	
970	630 Amp FP MCCB	set	12	12	24.00				-	-	-	-	-	-	-	-	-	-
971	400 Amp FP MCCB	set	21	21	42.00				-	-	-	-	-	-	-	-	-	-
972	250 Amp FP MCCB	set	9	9	18.00				-	-	-	-	-	-	-	-	-	-
973	200 Amp FP MCCB	set	1	1	2.00				-	-	-	-	-	-	-	-	-	-
974	160 Amp FP MCCB	set	4	14	18.00				-	-	-	-	-	-	-	-	-	-
975	125 Amp FP MCCB	set	4	20	24.00				-	-	-	-	-	-	-	-	-	-
976	100 Amp FP MCCB	set	8	9	17.00				-	-	-	-	-	-	-	-	-	-
977	63 Amp FP MCCB	set	6	12	18.00				-	-	-	-	-	-	-	-	-	-
978	50 Amp FP MCCB	set	1	1	2.00				-	-	-	-	-	-	-	-	-	-
	SAFETY EQUIPMENT																	
979	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				-	-	-	-	-	-	-	-	-	-
	RISING MAIN-																	
	Supplying, installing by suspension on ceiling, testing and commissioning of following capacity Sandwich Type Rising Mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 no aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every rm, adopter box and copper flexible for joints, continuous earthing with 2 no aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required. 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				-	-	-	-	-	-	-	-	-	-
984	800 A, lsc= 50kA for 1 sec	metre	0	0	0.00				-	-	-	-	-	-	-	-	-	-
985	1000 A, lsc= 50kA for 1 sec	metre	0	48	48.00				-	-	-	-	-	-	-	-	-	-
	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.																	
986	400 A, lsc= 30kA for 1 sec	set	0	0	0.00				-	-	-	-	-	-	-	-	-	-
987	630 A, lsc= 50kA for 1 sec	set	2	2	4.00				-	-	-	-	-	-	-	-	-	-
988	800 A, lsc= 50kA for 1 sec	set	0	0	0.00				-	-	-	-	-	-	-	-	-	-
989	1000 A, lsc= 50kA for 1 sec	set	0	2	2.00				-	-	-	-	-	-	-	-	-	-
990	1250 A, lsc= 50kA for 1 sec	set	2	0	2.00				-	-	-	-	-	-	-	-	-	-
	TAP OFF UNIT																	
	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																	
991	125 A, lsc= 15kA for 1 sec	each	20	16	36.00				-	-	-	-	-	-	-	-	-	-
992	200 A, lsc= 25kA for 1 sec	each	24	26	50.00				-	-	-	-	-	-	-	-	-	-
993	250 A, lsc= 30kA for 1 sec	each	4	16	20.00				-	-	-	-	-	-	-	-	-	-
994	400 A, lsc= 35kA for 1 sec	each	0	8	8.00				-	-	-	-	-	-	-	-	-	-
	Providing and fixing following rating and breaking capacity and pole MCCB																	

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SL. no	Description of Item	Unit				Rate									Total		
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH					
									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)
1079	Upto 35 sq. mm	metre	226	226	452.00				-	-	-	-	-	-	-	-	-
1080	Above 35 sq. mm and upto 95 sq. mm	metre	0	0	0.00				-	-	-	-	-	-	-	-	-
1081	Above 95 sq. mm and upto 185 sq. mm	metre	0	0	0.00				-	-	-	-	-	-	-	-	-
1082	Above 185 sq. mm and upto 400 sq. mm	metre	21	21	42.00				-	-	-	-	-	-	-	-	-
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.																
1083	100 mm wide x 50 mm depth x 1.6 mm thickness.	metre	330	20	350.00				-	-	-	-	-	-	-	-	-
1084	150 mm wide x 50 mm depth x 1.6 mm thickness.	metre	0	243	243.00				-	-	-	-	-	-	-	-	-
1085	225 mm wide x 50 mm depth x 1.6 mm thickness.	metre	0	991	991.00				-	-	-	-	-	-	-	-	-
1086	300 mm wide x 50 mm depth x 1.6 mm thickness.	metre	152	335	487.00				-	-	-	-	-	-	-	-	-
1087	450 mm wide x 50 mm depth x 2.0 mm thickness.	metre	560	348	908.00				-	-	-	-	-	-	-	-	-
1088	600 mm wide x 50 mm depth x 2.0 mm thickness.	metre	208	375	583.00				-	-	-	-	-	-	-	-	-
1089	750 mm wide x 62.5 mm depth x 2.0 mm thickness.	metre	0	84	84.00				-	-	-	-	-	-	-	-	-
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.																
1090	100 mm wide x 50 mm depth x 1.6 mm thickness.	nos	42	0	42.00				-	-	-	-	-	-	-	-	-
1091	150 mm wide x 50 mm depth x 1.6 mm thickness.	nos	0	12	12.00				-	-	-	-	-	-	-	-	-
1092	225 mm wide x 50 mm depth x 1.6 mm thickness.	nos	0	30	30.00				-	-	-	-	-	-	-	-	-
1093	300 mm wide x 50 mm depth x 1.6 mm thickness.	nos	0	24	24.00				-	-	-	-	-	-	-	-	-
1094	450 mm wide x 50 mm depth x 2.0 mm thickness.	nos	0	22	22.00				-	-	-	-	-	-	-	-	-
1095	600 mm wide x 50 mm depth x 2.0 mm thickness.	nos	22	27	49.00				-	-	-	-	-	-	-	-	-
1096	750 mm wide x 62.5 mm depth x 2.0 mm thickness.	nos	35	5	40.00				-	-	-	-	-	-	-	-	-
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.																
1097	150 mm wide x 50 mm depth x 1.6 mm thickness.	nos	0	0	0.00				-	-	-	-	-	-	-	-	-
1098	225 mm wide x 50 mm depth x 1.6 mm thickness.	nos	18	23	41.00				-	-	-	-	-	-	-	-	-
1099	300 mm wide x 50 mm depth x 1.6 mm thickness.	nos	0	12	12.00				-	-	-	-	-	-	-	-	-
1100	450 mm wide x 50 mm depth x 2.0 mm thickness.	nos	0	4	4.00				-	-	-	-	-	-	-	-	-
1101	600 mm wide x 50 mm depth x 2.0 mm thickness.	nos	13	21	34.00				-	-	-	-	-	-	-	-	-
1102	750 mm wide x 62.5 mm depth x 2.0 mm thickness.	nos	3	3	6.00				-	-	-	-	-	-	-	-	-
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Cross member"(galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.																
1103	150 mm wide x 50 mm depth x 1.6 mm thickness.	nos	0	0	0.00				-	-	-	-	-	-	-	-	-
1104	225 mm wide x 50 mm depth x 1.6 mm thickness.	nos	5	11	16.00				-	-	-	-	-	-	-	-	-
1105	300 mm wide x 50 mm depth x 1.6 mm thickness.	nos	3	14	17.00				-	-	-	-	-	-	-	-	-
1106	450 mm wide x 50 mm depth x 2.0 mm thickness.	nos	4	8	12.00				-	-	-	-	-	-	-	-	-
1107	600 mm wide x 50 mm depth x 2.0 mm thickness.	nos	11	12	23.00				-	-	-	-	-	-	-	-	-
1108	750 mm wide x 62.5 mm depth x 2.0 mm thickness.	nos	3	5	8.00				-	-	-	-	-	-	-	-	-
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer"(galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.																
1109	225 mm wide x 50 mm depth x 1.6 mm thickness.	nos	11	9	20.00				-	-	-	-	-	-	-	-	-
1110	300 mm wide x 50 mm depth x 1.6 mm thickness.	nos	14	11	25.00				-	-	-	-	-	-	-	-	-
1111	450 mm wide x 50 mm depth x 2.0 mm thickness.	nos	19	19	38.00				-	-	-	-	-	-	-	-	-
1112	600 mm wide x 50 mm depth x 2.0 mm thickness.	nos	0	15	15.00				-	-	-	-	-	-	-	-	-
1113	750 mm wide x 62.5 mm depth x 2.0 mm thickness.	nos	2	3	5.00				-	-	-	-	-	-	-	-	-
	Sub Head 50 : Raceway & Junction Board																
	Supply & fixing of following size underfloor/ceiling suspended, compartmentalized (GP RACEWAY- Fabricated from GP Sheet) race ways for electrical & LV wiring including neoprene gasket in joints, cutting the floor & jaming the race way / hanging in ceiling, supporting arrangement as approved by consultant / architect with all necessary hard ware (including civil work) as per site requirement. The thickness of raceway & cover shall be as per technical specification.																
1114	100 mm wide x 40 mm deep x 2 mm thick.	metre	215	410	625.00				-	-	-	-	-	-	-	-	-
1115	150 mm wide x 40 mm deep x 2 mm thick.	metre	201	470	671.00				-	-	-	-	-	-	-	-	-
1116	200 mm wide x 40 mm deep x 2 mm thick.	metre	176	430	606.00				-	-	-	-	-	-	-	-	-

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SL. no	Description of Item	Unit				Rate											
						INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)									
						Silchar District Hospital	Udalguri District Hospital	Total Quantity	Silchar DH			Udalguri DH			Total		
						INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)			
1148	Supply, Installation, Testing and Commissioning of Blank Adaptor Plate	Nos	5	14	19.00				-	-	-	-	-	-	-	-	-
1149	Supply, Installation, Testing and Commissioning of SC 3 Port Duplex Adaptor Plate	Nos	11	14	25.00				-	-	-	-	-	-	-	-	-
1150	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				-	-	-	-	-	-	-	-	-
1152	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)	Nos	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 : Dell/hp/cisco/Alcatel/RUKUS/D Link/Extremee)	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 conneccted concurrently with 3 year warranty and support. (Make : Fortinet/check point/Palo alto /Forcepoint/Cisco/Sophos)	Nos	1	1	2.00				-	-	-	-	-	-	-	-	-
1162	Supply, Installation, Testing and Commissioning of On Premisess Controller,AAA server/DHCP server with 3 year warranty and support. (Make : Dell/hp/cisco/Alcatel/RUKUS/D Link/Extremee)	Nos	1	2	3.00				-	-	-	-	-	-	-	-	-

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SL. no	Description of Item	Unit				Rate											
			Silchar District Hospital	Udalguri District Hospital	Total Quantity	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	Silchar DH			Udalguri DH			Total		
									INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)	INR (in Figures only)	JPY (in Figures only)	USD (in Figures only)
1198	Supplying, installation and commissioning of Surface mounted Gas Outlets- Front loading complying to HTM- 02-01 / NFPA 99/ DIN standard with matching probe.	nos.	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																
1200	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 liters capacity.	set	1.00	1.00	2.00				-	-	-	-	-	-	-	-	-
1201	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				-	-	-	-	-	-	-	-	-
1202	Supplying, Installaing and commissioning of Surface mounted Gas Outlet Complying to HTM- 2022/ NFPA 99/ DIN standard with matching probe for vacuum.	nos.	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				-	-	-	-	-	-	-	-	-
	COMPRESSED MEDICAL AIR SYSTEM																
1207	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 Dessiccant Dryers of requisite capacity with Dew Point Hygrometre and CO Monitor to display with a minimum accuracy of +_3°C in a range from -20°C to -60°C atmospheric dew point with a set point of -46°C along with 4 stage filters particle content removal up to 0.5mg/cum & 0.01mg/cum, 0.003mg/cum	set	1.00	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 Dessiccant Dryers of requisite capacity with Dew Point Hygrometre and CO Monitor to display with a minimum accuracy of +_3°C in a range from -20°C to -60°C atmospheric dew point with a set point of -46°C along with 4 stage filters particle content removal up to 0.5mg/cum & 0.01mg/cum, 0.003mg/cum	set	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				-	-	-	-	-	-	-	-	-
1211	Supplying, Installaing and commissioning of HP colour coded black Tubing	metre	400.00	100.00	500.00				-	-	-	-	-	-	-	-	-
1212	Supplying, installation and commissioning of Compressored Air Conversion Kit with Hose Assembly	nos.	5.00	5.00	10.00				-	-	-	-	-	-	-	-	-
	AGSS (SCAVANGING) SYSTEM																
1213	AGSS Outlet Venturi type	set	3.00	4.00	7.00				-	-	-	-	-	-	-	-	-
	COPPER PIPELINES																
1214	Supplying, Installaing and commissioning of Medical Grade Copper Pipes conforming to BS: EN13348:2014 duly certified by third party Lloyds Register with Test Certificates.																
1214	76*1.0mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	100.00	100.00	200.00				-	-	-	-	-	-	-	-	-
1215	54*1.2mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	100.00	0.00	100.00				-	-	-	-	-	-	-	-	-
1216	42*1.2mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	250.00	320.00	570.00				-	-	-	-	-	-	-	-	-
1217	35*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	350.00	560.00	910.00				-	-	-	-	-	-	-	-	-
1218	28*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	720.00	700.00	1420.00				-	-	-	-	-	-	-	-	-
1219	22*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	2100.00	2550.00	4650.00				-	-	-	-	-	-	-	-	-
1220	15*0.9mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	200.00	2360.00	2560.00				-	-	-	-	-	-	-	-	-
1221	12*1.0mm OD Lloyds Certified Copper pipes BS: EN13348:2014	metre	480.00	450.00	930.00				-	-	-	-	-	-	-	-	-
	MISCELLANEOUS ITEMS																

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