



AN ISO 9001 & 14001 COMPANY

**TENDER DOCUMENT**

**NIT No: PCO/BBSR/951/223**

**FOR**

Tender for Construction of IPHL Building (G+1) Building at Cuttack in Cuttack District, Odisha including Architectural Consultancy Services (2<sup>nd</sup> Call).

**VOLUME – III**

Price Bid

Validate

Print

Help

**Percentage BoQ**

Tender Inviting Authority: Engineering Projects (India) Ltd., New Delhi

Name of Work: Tender For Construction of IPHL Building (G+1) Building at Cuttack, Odisha including Architectural Consultancy Services. (2nd Call)

Contract No: PCO/BBSR/951/223 Date-15.04.2025

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|--|--|
| Name of the Bidder/<br>Bidding Firm /<br>Company : |  |
|--|--|

**PRICE SCHEDULE**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )

| NUMBER #                      | TEXT #  | NUMBER #             | TEXT # | NUMBER                     | NUMBER #                                  | TEXT #   |
|-------------------------------|---|----------------------|--------|----------------------------|---|--|
| SI. No.                       | Item Description  | Quantity             | Units  | Estimated Rate in<br>Rs. P | TOTAL AMOUNT<br>EXCLUDING GST in<br>Rs. P | TOTAL AMOUNT<br>In Words   |
| 1                             | 2   | 3                    | 4      | 5                          | 6   | 8  |
| 1                             | Tender For Construction of IPHL Building (G+1) Building at Cuttack, Odisha including Architectural Consultancy Services. (2nd Call) | 1.000                | LS     | 16666762.00                | <b>16666762.00</b>                        | INR One Crore Sixty Six Lakh Sixty Six Thousand Seven Hundred & Sixty Two Only                       |
| 2                             | GST   | 1.000                | LS     | 3000017.16                 | <b>3000017.16</b>                         |  |
| <b>Total in Figures</b>       |   |                      |        |                            | <b>19666779.16</b>                        | INR One Crore Ninety Six Lakh Sixty Six Thousand Seven Hundred & Seventy Nine and Paise Sixteen Only |
| <b>Quoted Rate in Figures</b> |   |                      | Select |                            | <b>0.00</b>                               | INR Zero Only  |
| <b>Quoted Rate in Words</b>   |   | <b>INR Zero Only</b> |        |                            |   |  |

**Tender For Construction of IPHL Building (G+1) Building at Cuttack, Odisha including Architectural Consultancy Services. (2nd Call)**

**NIT No: PCO/BBSR/951/223 Date-15.04.2025**

| <b>Sl. No.</b> | <b>Description of Works</b>               | <b>Amount in Rs.</b>  |
|----------------|---|-----------------------|
| <b>A.</b>      | <b>ARCHITECTURAL CONSULTANCY SERVICES</b> | <b>1,65,017.00</b>    |
| <b>B.</b>      | <b>CIVIL WORK</b>                         | <b>1,27,24,725.00</b> |
| <b>C.</b>      | <b>ELECTRICAL WORK</b>                    | <b>22,92,057.00</b>   |
| <b>D.</b>      | <b>PH SYSTEM</b>                          | <b>14,84,963.00</b>   |
|                | <b>TOTAL</b>                              | <b>1,66,66,762.00</b> |

**One Crore Sixty Six Lakh Sixty Six Thousand Seven Hundred & Sixty Two Only**

**Tender For Construction of IPHL Building (G+1) Building at Cuttack, Odisha including Architectural Consultancy Services. (2nd Call)**

**NIT No: PCO/BBSR/951/223 Date-15.04.2025**

| Sl. No.   | Description of items.   | Unit | Qty     | Rate        | Amount<br>in Rs.   |
|---|---|------|---------|-------------|--------------------|
| 1   | <b>ARCHITECTURAL CONSULTANCY SERVICES</b>   | Lot  | 1.00    | 1,65,017.45 | <b>1,65,017.45</b> |
| <b>Sub Total (Architectural Consultancy Services)</b> |   |      |         |             | <b>1,65,017.00</b> |
| <b>A.</b>   | <b>Civil Works :-</b>   |      |         |             |                    |
| 1   | Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.  |      |         |             |                    |
| c)  | Hard Rock   | Cum  | 534.722 | 270.90      | 144856.19          |
| 2   | Filling in foundation trenches and plinth, with excavated earth including laying the earth in layers not exceeding 23.5 cm thick ramming & watering with all leads & lifts including cost of all labour,T&P completed as directed by the Engineer-in-charge.  |      |         |             |                    |
|   | Ground Floor  | Cum  | 358.260 | 150.50      | 53918.13           |
| 3   | Supplying of filling sand in foundation and plinth including watering,ramming, consolidating and dressing, labours, tools, taxes etc., all complete as per the specification and direction of E.I.C.  |      |         |             |                    |
|   | Ground Floor  | Cum  | 125.684 | 664.90      | 83567.29           |
| 4   | Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for PRE CONSTRUCTIONAL Anti-termite treatment and creating a continuous chemical barrier under and all-round the column pits, wall trenches, basement excavation, top perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surroundings of pipes and conduits etc. complete as per specifications (plinth area of the building at ground floor only shall be measured for payment).   |      |         |             |                    |
|   | Ground Floor  | Sqm  | 324.000 | 138.00      | 44712.00           |
| 5   | Providing and laying plain cement concrete 1:4:8 (1 cement : 4 sand : 8 stone aggregate 40mm nominal size) as levelling course in floor and plinth including tempering, curring, shuttering etc. complete all depth and height.   |      |         |             |                    |
|   | Ground Floor  | Cum  | 30.030  | 5883.00     | 176666.49          |
| 6   | Fly Ash. brick masonry of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per Sqr. Cm. in cement mortar of mix (1:6) with approved grade cement and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use <b>in foundation &amp; plinth</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge |      |         |             |                    |
|   | Ground Floor  | Cum  | 21.005  | 5503.10     | 115592.62          |
| 7   | Fly Ash. brick masonry of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per Sqr. Cm. in cement mortar of mix (1:6) with approved grade cement and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use <b>in Superstructure</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge          |      |         |             |                    |
|   | Gr. Floor   | Cum  | 100.730 | 5541.50     | 558195.30          |
|   | 1st Floor   | Cum  | 84.210  | 5912.30     | 497874.78          |
|   | Terrace Floor   | Cum  | 23.310  | 6338.70     | 147755.10          |
| 8   | Half brick work with Fly Ash brick masonry in cement mortar (1:4) in super structure having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance ± 2% including splays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties and taxes of all materials with all labour,labour cess and T & P required for the work complete in all respect as per direction of Engineer-in-Charge.  |      |         |             |                    |
|   | Gr. Floor   | Sqmt | 10.820  | 5766.10     | 62389.20           |
|   | 1st Floor   | Sqmt | 8.880   | 6136.90     | 54495.67           |

| Sl. No. | Description of items.  | Unit | Qty     | Rate     | Amount<br>in Rs |
|---------|--|------|---------|----------|-----------------|
| 9       | RCC work M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 25 N. / Square mm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 456 and I.S. 516 using 12 mm. to 20 mm. size black hard crusher broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20 mm. size chips not to exceed 25 % ) to be mixed in concrete mixture with approved grade cement including hoisting, lowering, laying and compacting concrete by using vibrators, watering and curing for 28 days, centring and shuttering and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T&P, required for the work etc. complete in all respect but excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or Tor steel tying the grills and placing in proper position as per direction of the Engineer in charge |      |         |          |                 |
|         | <b>Ground Floor</b>  |      |         |          |                 |
| a)      | Footing :-   | Cum  | 77.803  | 7167.70  | 557668.56       |
| b)      | Column up to pl lvl :-   | Cum  | 9.720   | 16310.60 | 158539.03       |
| d)      | Plinth Beam  | Cum  | 17.436  | 8033.90  | 140079.08       |
| e)      | Column up to Roof Beam Lvl. :-   | Cum  | 14.764  | 16310.60 | 240809.70       |
| f)      | Lintel :-  | Cum  | 6.921   | 14780.70 | 102297.22       |
| g)      | Roof Beam :-   | Cum  | 15.691  | 16310.60 | 255929.62       |
| h)      | Roof Slab :-   | Cum  | 39.246  | 14346.40 | 563038.81       |
| i)      | Chajja :-  | sqmt | 17.033  | 1272.30  | 21670.45        |
| j)      | Staircase :-   | Cum  | 2.447   | 16186.20 | 39607.63        |
|         | <b>First Floor</b>   |      |         |          |                 |
| f)      | Lintel :-  | Cum  | 5.857   | 16497.20 | 96624.10        |
| g)      | Roof Beam :-   | Cum  | 17.020  | 18333.20 | 312031.06       |
| h)      | Roof Slab :-   | Cum  | 39.246  | 15976.00 | 626994.10       |
| i)      | Chajja :-  | sqmt | 13.950  | 1446.10  | 20173.10        |
| j)      | Staircase :-   | Cum  | 2.447   | 18183.80 | 44495.76        |
|         | <b>Terrace Floor</b>   |      |         |          |                 |
| e)      | Column up to Roof Beam Lvl. :-   | Cum  | 6.165   | 20754.20 | 127949.64       |
| g)      | Roof Beam :-   | Cum  | 1.199   | 20754.20 | 24884.29        |
| h)      | Roof Slab :-   | Cum  | 2.050   | 17925.60 | 36747.48        |
| i)      | Chajja :-  | sqmt | 0.338   | 1654.40  | 558.36          |
| 10      | Cutting, straightening coiled or bent up M.S. Rod or tor steel of SAIL/ TATA / RINL (VIZAG) make including bending, binding, welding and joining if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances, taxes of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors (Linear measurement will be taken and quantity will be calculated basing on the standard weight of B.I.S. for M.S. Rods or tor steel only. Wastage if any, including weight of binding wire will not be considered for measurement) etc. complete as per specification & direction of Engineer-in-charge.  |      |         |          |                 |
|         | Gr. Floor  | Qntl | 225.140 | 8808.70  | 1983190.72      |
|         | 1st Floor  | Qntl | 108.240 | 8841.50  | 957003.96       |
|         | Terrace Floor  | Qntl | 13.628  | 8875.90  | 120960.77       |
| 11      | Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing,rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P, and scaffolding required for the work etc. as directed by the Engineer-in-charge.  |      |         |          |                 |
|         | Gr. Floor  | Sqm  | 283.950 | 186.40   | 52928.28        |
|         | 1st Floor  | Sqm  | 249.090 | 194.00   | 48323.46        |
|         | Terrace Floor  | Sqm  | 196.270 | 202.10   | 39666.17        |
| 12      | Providing 16 mm thick cement plaster with cement mortar of mix (1:6) with screened and washed sharp sand for mortar and finished smooth to the rough surface of walls in all heights after racking out joints including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance, royalties and taxes of all materials with cost of all labour, labour cess, T&P, and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.  |      |         |          |                 |
|         | Gr. Floor  | Sqm  | 977.180 | 268.90   | 262763.70       |
|         | 1st Floor  | Sqm  | 755.710 | 275.80   | 208424.82       |
|         | Terrace Floor  | Sqm  | 28.663  | 282.90   | 8108.62         |

| Sl. No. | Description of items.   | Unit | Qty     | Rate    | Amount<br>in Rs |
|---------|---|------|---------|---------|-----------------|
| 13      | Providing 6 mm thick cement plaster with cement mortar of mix (1:4) with screened and washed sharp sand for mortar and finished smooth to R.C.C. work after closed deep chipping & slurry treatment including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance, royalties and taxes of all materials with cost of all labour, T&P, and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.  |      |         |         |                 |
|         | Gr. Floor   | Sqm  | 287.310 | 209.10  | 60076.52        |
|         | 1st Floor   | Sqm  | 284.160 | 214.40  | 60923.90        |
|         | Terrace Floor   | Sqm  | 16.400  | 220.00  | 3608.00         |
| 14      | Supplying, fitting & fixing of <b>10 mm thick &amp; size of 600x600 mm Glazed Vitrified floor tiles (GVT) of matt finish(WOODEN FINISH/RUSTIC FINISH) with veilcraft (VC ) shield( Scratch free/stain free) with water absorption limit between 0.08% to 3% and conforming to IS : 15622:2006 (Group B lb)</b> . laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with white cement of approved quality including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge (for New Work only )  |      |         |         |                 |
|         | Gr. Floor   | Sqm  | 257.660 | 1186.50 | 305713.59       |
|         | 1st Floor   | Sqm  | 261.890 | 1199.80 | 314215.62       |
| 15      | Supplying, fitting & fixing of <b>Verified tiles</b> in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge  |      |         |         |                 |
|         | Gr. Floor   | Sqm  | 52.683  | 1319.00 | 69488.88        |
|         | 1st Floor   | Sqm  | 34.292  | 1338.90 | 45913.56        |
| 16      | Supplying, fitting & fixing of Granite Tiles of minimum Above 0.40 sqm. (20mm thick) of approved make in floors laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge.   |      |         |         |                 |
|         | Gr. Floor   | Sqm  | 29.650  | 2795.50 | 82886.58        |
|         | 1st Floor   | Sqm  | 9.480   | 2808.70 | 26626.48        |
| 17      | Supplying, fitting & fixing of Granite Tiles of minimum Above 0.1sqm up to 0.4 sqm(10mm. thick) of approved make in dadoes laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge.  |      |         |         |                 |
|         | Gr. Floor   | Sqm  | 7.420   | 2053.40 | 15236.23        |
|         | 1st Floor   | Sqm  | 5.510   | 2073.30 | 11423.88        |
| 18      | Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceasetory window s & other Frames/Chowkhat including 2 coats of Enamel paint and one coat of wood primer fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge) , minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with m.s hold fast/ lugs/ SS dash fastner of required dia & length complete as per the direction of engineer-in-charge. . |      |         |         |                 |
|         | Gr. Floor   | Rmt  | 84.100  | 1050.00 | 88305.00        |
|         | 1st Floor   | Rmt  | 68.350  | 1050.00 | 71767.50        |
| 19      | Factory made 30mm/32mm flush door shutter (Laminates both side of frame) with all labour, iron fittings, and wooden hinged cleats etc fitted and fixed complete in all respect  |      |         |         |                 |
|         | Gr. Floor   | Sqm  | 35.280  | 4432.60 | 156382.13       |
|         | 1st Floor   | Sqm  | 28.665  | 4432.60 | 127060.48       |

| Sl. No. | Description of items.   | Unit | Qty      | Rate    | Amount<br>in Rs |
|---------|---|------|----------|---------|-----------------|
| 20      | Providing and fixing factory made 2 track 2 panel KOMMERLING uPVC white colour sliding window comprising of uPVC multi-chambered frame having section Frame 58mm x 49mm, Window sash: 37mm x 61mm, made out of lead free green profiles with corners fusion welded, fully reinforced with Galvanized steel 1.5/2.0 mm. The windows profile should fulfill the requirements of Viny 2010. The physical properties of the profiles like Vicat softening temperature, density, tensile strength, hardness, weatherability, impact strength and Modulus of Elasticity should be tested in accordance with ASTM/DIN-ISO standards and the thermal conductivity as per IS standards. The window comprising of 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. 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. The sash will be fitted with 5mm clear glass ( float ).complete in all respect as per specification and direction of the Engineer in Charge. etc. complete |      |          |         |                 |
|         | Gr. Floor   | Sqm  | 34.920   | 8070.00 | 281804.40       |
|         | 1st Floor   | Sqm  | 34.110   | 8070.00 | 275267.70       |
|         | Terrace Floor   | Sqm  | 1.620    | 8070.00 | 13073.40        |
| 21      | Supplying and Fixing of <b>M.S. Grills</b> etc including cost,conveyance of all materials,priming,and labour for fitting fixing etc.complete as per the instruction of Engineer-in-Charge   |      |          |         |                 |
|         | Gr. Floor   | Kg.  | 922.320  | 120.00  | 110678.40       |
|         | 1st Floor   | Kg.  | 716.310  | 120.00  | 85957.20        |
|         | Terrace Floor   | Kg.  | 100.170  | 120.00  | 12020.40        |
| 22      | Priming one coat with wall cement primer (water bound) to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, taxes of all materials, cost of all labour,labour cess T&P etc. complete as per the direction of the Engineer-in-charge.  |      |          |         |                 |
|         | Gr. Floor   | Sqm  | 1548.440 | 81.30   | 125888.17       |
|         | 1st Floor   | Sqm  | 1288.960 | 83.30   | 107370.37       |
|         | Terrace Floor   | Sqm  | 241.330  | 85.30   | 20585.45        |
| 23      | Painting two coats with approved anti-fungal weather seal paints (ISI) of approved colour, shade on wall surface over a coat of wall primer(ISI) water bound including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour,labour cess with T&P etc, complete as per specification & direction of Engineer-in-charge.   |      |          |         |                 |
|         | Gr. Floor   | Sqm  | 283.950  | 99.60   | 28281.42        |
|         | 1st Floor   | Sqm  | 249.090  | 103.20  | 25706.09        |
|         | Terrace Floor   | Sqm  | 196.270  | 107.00  | 21000.89        |
| 24      | Finishing plastered surfaces of walls with cement based wall putty (Water based) of approved make and finishing the surface smooth and even by sand papering to receive painting in walls, at all heights with staging wherever necessary with cost, conveyance, taxes of all materials, cost of all labour,labourcess, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.  |      |          |         |                 |
|         | Gr. Floor   | Sqm  | 1548.440 | 83.90   | 129914.12       |
|         | 1st Floor   | Sqm  | 1288.960 | 83.90   | 108143.74       |
|         | Terrace Floor   | Sqm  | 241.330  | 83.90   | 20247.59        |
| 25      | Painting two coats with plastic emulsion paint "Royale Shyne" over a coat of water bond cement primer to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance of all materials, cost of all labour,labour cess, T&P etc. complete as per the direction of the Engineer-in-charge.   |      |          |         |                 |
|         | Gr. Floor   | Sqm  | 1264.490 | 107.60  | 136059.12       |
|         | 1st Floor   | Sqm  | 1039.870 | 109.70  | 114073.74       |
|         | Terrace Floor   | Sqm  | 45.060   | 111.90  | 5042.21         |
| 26      | Painting <b>two coats</b> with approved <b>Enamel Paint on wood work over a coat of Wood Primer in Ground Floor</b>   |      |          |         |                 |
|         | Gr. Floor   | Sqm  | 21.025   | 264.90  | 5569.52         |
|         | 1st Floor   | Sqm  | 17.088   | 271.60  | 4641.10         |
| 27      | Painting <b>two coats</b> with approved <b>Enamel Paint on Steel work in Ground Floor</b>   |      |          |         |                 |
|         | Ground floor  | Sqm  | 89.210   | 185.60  | 16557.38        |
|         | 1st Floor   | Sqm  | 71.630   | 190.20  | 13624.03        |
|         | 2nd Floor   | Sqm  | 4.210    | 195.10  | 821.37          |

| Sl. No.                   | Description of items.   | Unit | Qty     | Rate     | Amount<br>in Rs    |
|---------------------------|---|------|---------|----------|--------------------|
| 28                        | Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).   |      |         |          |                    |
|                           | Gr. Floor   | Kg   | 83.760  | 297.80   | 24943.73           |
|                           | 1st Floor   | Kg   | 83.760  | 297.80   | 24943.73           |
| 29                        | Providing average 25mm thick grading Concrete with (1:2:2) using 6mm hard granite chips using 2% water proofing cement compound of approved quality over top of Roof, Terrace, including cost of scaffolding, scraping and cleaning the roof surface, plastering and finishing smooth to proper slope and gradient including cost of all materials, conveyance, taxes and sundries, T&P etc. All complete in all respect as per direction of the Engineer -in-charge.   |      |         |          |                    |
|                           | Terrace Floor   | Sqm  | 324.000 | 472.20   | 152992.80          |
| 30                        | Providing and fixing of Swing Door of approved make to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 mm thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with total coated thickness of 0.55 mm. Slide guide section should be made of 0.5 mm stainless steel of 430 grade. with paint specification being with primer of 5-7 microns thick and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns along with the alkyd backer at the back of 5-7 microns and the Sections for external frame bottom and top should be of 79 x 45 mm. external frame sides should be of 69 x 24 mm, guide for top and bottom should be of 69 x 26mm (Stainless Steel).  |      |         |          |                    |
|                           | Section for shutter should be of 26 x 30 mm, Sash bar should be of 23 x 57mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like gasket will be made of EPDM. All corner brackets for internal and external are to be made of glass filled nylon. The sections are to be cut to length, joined and assembled by means of corner bracket and frames are fixed to the concrete/masonry walls by means of self expanding screws and glass to be used of 5 mm reflective with cost, conveyance and taxes of all materials, cost of all labour, T&P etc. complete as per the direction of the Engineer-in-charge.  |      |         |          |                    |
|                           | Gr. Floor   | Sqm  | 10.080  | 10500.00 | 105840.00          |
|                           | 1st Floor   | Sqm  | 9.450   | 10500.00 | 99225.00           |
| 31                        | Making <b>plinth protection</b> 50mm thick of cement concrete 1:3:6 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) over 100mm bed of dry brick ballast 40 mm nominal size well rammed, consolidated and grouted and fine sand and finishing the top smooth in proper slop including all complete   | Sqm  | 49.200  | 657.80   | 32363.76           |
| 32                        | Structural Glazing:<br>Providing & Fixing thermetically sealed insulating Heat reflective transoms & sub frame conforming to Griha guidelines ( No aluminium section to be exposed to outside and only glass panels with silicon joint to be visible from outside ) made of specially designed extruded aluminium section of Jindal / Hindalco/ OEL(Alom) make conforming to 6063 T5 or T6 as per B.S.1474, duly anodized / powder coated in approved colour & shade with mullions fixed to RCC beams/columns through adequately designed MS back up materials and Anchor fasteners of Hilti / Fischer make, having toughened glass on outer face plus 12mm air gap with perforated aluminium spacer bar and 6mm clear float toughened glass on inner face (DGU) of Saint Gobain / AIS make (thickness and specification of glass should satisfy the detail design of the HVAC requirement with specific LT and SHGC with approved shade/tint) including providing EPDM gasket, silicon sealants etc. Glass to be fixed with structural silicone of Dow Corning/GE /JL/Alstone make & Norton tape, with weather sealant in silicone of Dow Corning/GE /JL/Alstone make & Norton tape, with weather sealant in between the joint to make leak proof glazing etc complete as per the approved drawing and direction of Engineer-in- charge. | Sqm  | 19.720  | 9684.00  | 190968.48          |
| <b>Total Civil Works=</b> |   |      |         |          | <b>12724725.00</b> |
| <b>ELECTRICAL WORKS</b>   |   |      |         |          |                    |
| <b>A</b>                  | <b>Sub-Head I (modular Wiring Items)</b>  |      |         |          |                    |



| Sl. No. | Description of items.  | Unit | Qty | Rate     | Amount in Rupee |
|---------|--|------|-----|----------|-----------------|
| 1       | Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLSH/LSZH PVC insulated copper conductor of ISI marked <b>Make-Finolex/Anchor/Polycab/HAVELLS/RR KABLE/KEI or equivalent reputed make A category ISI marked as approved</b> with 20 mm dia PVC flexible non metallic conduit FRLS type ISI marked <b>Make-AKG/Anchor/Havells or equivalent reputed make A category ISI marked as approved</b> 6A modular type (anti bacterial & flame retardant type) switch ISI marked <b>Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision) or equivalent reputed make &amp; model A category ISI marked as approved</b> , and ceiling rose ISI marked <b>Make- Anchor/Havells</b> of modular type G.I box with metallic cover plate (both side) (anti bacterial & flame retardant type) <b>Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision) or equivalent reputed make &amp; model A category ISI marked as approved</b> of suitable size, modular box with 1.5 sq. Mm FRLSH PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. <b>CATAGORY AS FOLLOWS ,complete suitable for IPH standard hospital. All the switches &amp; sockets should be warrantied for a replacement period of 2 years against defects with necessary test report &amp; Warrnaty certificate to be submitted to the department for genuinity of product &amp; to avail free after sales service within warranty period for acceptance of materials.</b>  |      |     |          |                 |
| a)      | <b>GROUP-A</b>   | Nos  | 121 | 612.00   | 74052.00        |
| a-1)    | <b>GROUP-B</b>   | Nos  | 72  | 905.00   | 65160.00        |
| a-2)    | <b>GROUP-C</b>   | Nos  | 100 | 1278.00  | 127800.00       |
| b)      | Group control of point in Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLSH/LSZH PVC insulated copper conductor of ISI marked <b>Make- Make-Finolex/Anchor/Polycab/HAVELLS or equivalent reputed make A category ISI marked as approved as approved</b> 20 mm dia PVC flexible non metallic conduit FRLS type ISI marked <b>Make-AKG/Anchor/Kinjal or equivalent reputed make A category ISI marked as approved</b> with 6A modular type((anti bacterial & flame retardant type)) switch ISI marked <b>Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision) or equivalent reputed make &amp; model A category ISI marked as approved</b> , and ceiling rose ISI marked <b>Make-Schneider(Zencelo)/legrand( myrius) /Panasonic (Equivalent model) or equivalent reputed make &amp; model A category ISI marked as approved</b> of modular type G.I box with metallic cover plate (both side)(anti bacterial & flame retardant type) <b>Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision) or equivalent reputed make &amp; model A category ISI marked as approved</b> , of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. <b>CATAGORY AS FOLLOWS ,complete suitable for IPH standard hospital.(Maximum 02 nos point in one circuit).All the switches &amp; sockets should be warrantied for a replacement period of 10 years against defects with necessary test report &amp; Warrnaty certificate to be submitted to the department for genuinity of product &amp; to avail free aftersales service within warranty period for acceptance of materials.</b> | Nos  | 15  | 1,217.07 | 18256.05        |
| c)      | Supplying ,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket ( <b>modular type</b> )( <b>anti bacterial &amp; flame retardant type</b> ) & other required accessories of ISI marked as approved as per direction of Engg. -in -Charge. <b>Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision) or equivalent reputed make &amp; model A category ISI marked as approved</b> , complete suitable for IPH standard hospital.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.  | Nos  | 25  | 196.00   | 4900.00         |

| Sl. No. | Description of items.   | Unit | Qty | Rate     | Amount<br>in Ru |
|---------|---|------|-----|----------|-----------------|
| d)      | Supplying,fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type)( anti bacterial & flame retradant type) with suitable size modular box & cover(anti bacterial & falme retradant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge..Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision) or equievalant make & model ISI marked as approved , complete suitable for IPH standard hospital.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a period of 10 years against manufacturing defects against which necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.  | Nos  | 50  | 547.00   | 27350.00        |
| e)      | Supplying,fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket(modular type)((anti bacterial & flame retradant type)) with suitable size modular box & cover(anti bacterial & falme retradant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.. Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision)or equievalant reputed make A catagory ISI marked as approved, (For equipement power)All the switches & sockets should be warrantied for a replacement period of 10 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.  | Nos  | 40  | 684.00   | 27360.00        |
| f)      | Supplying,fixing of 2x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+2 no 6A switch & socket(modular type) ( anti bacterial & falme retradant type) with suitable size modular box & metallic cover plate (both side)(anti bacterial & falme retradant type)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge..Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision)or equievalant reputed make & model A catagory ISI marked as approved, (For equipement power)complete suitable for IPH standard hospital.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 10 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.   | Nos  | 10  | 1,493.00 | 14930.00        |
| g)      | Supplying,fixing of 3x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+3 nos 6A switch & socket(modular type) ( anti bacterial & falme retradant type) with suitable size modular box & metallic cover plate (both side)(anti bacterial & falme retradant type)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge..Make-Schneider(Zencelo)/legrand( Arteor) /Panasonic (vision)or equievalant reputed make & model A catagory ISI marked as approved, (For equipement power)complete suitable for IPH standard hospital.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 10 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials. | Nos  | 2   | 2,344.00 | 4688.00         |
| 2       | Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLSH/LSZH insulated, copper conductor, single core cable (Finolex/Anchor/Polycab/ HAVELLS/RR KEBLE) or equievalant reputed make A catagory ISI marked as approved, in recessed PVC conduit Heavy duty FRLS of mentioned size (AKG/Anchor/Kinjal or equievalant ISI marked as approved) as required as per direction of Engg.-in-Charge. Ncessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials   |      |     |          |                 |
| a)      | 2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty flexible conduit (LDB to LSB/LIGHT CKT)(2X1.5+1X1.5)  | Mtr  | 211 | 157.00   | 33127.00        |
| b)      | 2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty flexible conduit.(BDB to LSB/LIGHT CKT/5A PLUG/INVERTER POINT TO EACH QTR) (2X2.5+1X1.5)   | Mtr  | 278 | 171.00   | 47538.00        |

| Sl. No. | Description of items.  | Unit | Qty | Rate     | Amount in Ru |
|---------|--|------|-----|----------|--------------|
| c)      | <b>4 nos single core 2.5 sq. mm copper wire</b> for phase and neutral and 02 nos of single core 2.5 sq. mm copper wire for earth continuity conductor .in 25 mm dia non metallic heavy duty flexible conduit(LDB to LSB/5A SOCKET) <b>(4X2.5+2X2.5)</b>  | Mtr  | 445 | 288.00   | 128160.00    |
| d)      | <b>2 nos single core 4 sq. mm copper wire</b> for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty flexible conduit .(PDB to PSB/ GAYSER POINT/AC POINT/ROOM LIGHT CONTROL TO CORRIDOOR POINT/DG PANEL ESSENTIAL LOAD) <b>(2X4+1X1.5)</b>   | Mtr  | 112 | 188.00   | 21056.00     |
| e)      | <b>4 nos single core 4 sq. mm copper wire</b> for phase and neutral and 02 nos of single core 2.5 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit.(PDB to PSB/GAYSER. POINT/AC POINT/DG PANEL ACCL TO EACH QTR ESSENTIAL LOAD) <b>(4X4+2X2.5)</b>  | Mtr  | 111 | 271.00   | 30081.00     |
| f)      | <b>2 nos single core 6 sq. mm copper wire</b> for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty flexible conduit .(LFDB TO LBDB) <b>(2X6+1X2.5)</b>  | Mtr  | 78  | 220.00   | 17160.00     |
| g)      | <b>4 nos single core 6 sq. mm copper wire</b> for phase and neutral and 02 nos of single core 2.5 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit.(LFDB TO LBDB/power unit/point) <b>(4X6+2X2.5)</b>   | Mtr  | 40  | 317.00   | 12680.00     |
| h)      | <b>4 nos single core 10 sq. mm copper wire</b> for phase and neutral and 02 nos of single core 4 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit .(LFDB TO FLOOR PANEL TO TPN BDB light ) <b>(4X10+2X4)</b>  | Mtr  | 40  | 444.00   | 17760.00     |
| i)      | <b>4 nos single core 16 sq. mm copper wire</b> for phase and neutral and 02 nos of single core 10 sq. mm copper wire for earth continuity conductor in 40 mm dia non metallic heavy duty flexible conduit.(FLOOR PANEL TO TPN BDB power) <b>(4X16+2X10)</b>  | Mtr  | 66  | 660.00   | 43560.00     |
| 3       | Supplying and fixing 20 amps, 240 volts, SPN, industrial type socket outlet, with 2 pole and earth metal enclosed plug top along with 32 amps. C-series, SP MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge.. <b>Make-Legrand/Schneider/Siemens/panasonic or equievalant reputed make &amp; model A catagory ISI marked as approved,All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report &amp; Warrnaty certificate to be submitted to the department for genuinity of product &amp; to avail free aftersales service within warranty period for acceptance of materials.</b>                          | Nos  | 14  | 673.00   | 9422.00      |
| 4       | Supplying and fixing 32 amps, 415 volts, TPN, industrial type socket outlet, with 4 pole and earth metal enclosed plug top along with 32 amps. C-series, TP MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge.. <b>Equievalant higher model of Make-Legrand/Schneider/Siemens/panasonic equievalant reputed make &amp; model A catagory ISI marked as approved.All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report &amp; Warrnaty certificate to be submitted to the department for genuinity of product &amp; to avail free aftersales service within warranty period for acceptance of materials.</b> | Nos  | 2   | 4,346.00 | 8692.00      |
| 5       | Supplying and fixing following size/ modules, GI box along with modular base & metallic cover plate (both side)(anti bacterial type) plate for modular switches in recess etc as required as per direction of Engg.-in-Charge. <b>MAKE-Legrand/Siemens/Anchor/Panasonic/ Schneider or equievalant reputed make &amp; model A catagory ISI marked as approved .All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report &amp; Warrnaty certificate to be submitted to the department for genuinity of product &amp; to avail free aftersales service within warranty period for acceptance of materials.</b>  |      |     |          |              |
| a)      | 4 moudle(125mmx75mm)   | Nos  | 10  | 295.00   | 2950.00      |
| b)      | 1 moudle(75mmx75mm)  | Nos  | 10  | 248.00   | 2480.00      |
| c)      | 12 moudle(200mmx150mm)   | Nos  | 6   | 510.00   | 3060.00      |
| 6       | Supplying and fixing of following sizes of medium class PVC FRLS conduit ISI marked along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required as per direction of Engg.-in-Charge . <b>MAKE KINJAL/ AKG/Anchor or equievalant reputed make A catagory ISI marked as approved</b>  |      |     |          |              |
| a)      | 20 MM  | mtrs | 33  | 124.00   | 4092.00      |
| b)      | 25 MM  | mtrs | 33  | 126.00   | 4158.00      |

| Sl. No.       | Description of items.  | Unit     | Qty | Rate     | Amount<br>in Rs  |
|---------------|--|----------|-----|----------|------------------|
| 7             | Supply and fixing modular type indicator on the existing switch box/cover .<br>Equieivalent higher model of <b>Schneider/Hager/Siemens/Anchor/Panasonic</b> make or equieivalent reputed make & model A catagory ISI marked as approved as required as per direction of Engg.-in-Charge.All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.  | Nos      | 21  | 115.00   | 2415.00          |
| 8             | Supplying and installation of AC starter Modular type, <b>Equieivalent higher model of Schneider/Hager/Siemens/Anchor/Panasonic</b> make or equieivalent reputed make & model A catagory ISI marked as approved coil voltage-415 Volt A.C. & O/L range of 9-14A range on mod Box of suitable size including modular coveras required as per direction of Engg.-in-Charge .All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.                              | Nos      | 14  | 631.00   | 8834.00          |
| 9             | Supply and fixing CALL bell (Ding dong type) /Buzzer on the existing switch box/cover. <b>Equieivalent higher model of Schneider/Hager/Siemens/Anchor/Panasonic</b> make or equieivalent reputed make & model A catagory ISI marked as approved .as required as per direction of Engg.-in-Charge.All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.   | Nos      | 4   | 213.00   | 852.00           |
| 15            | S/F of <b>Bakelite angle holder/batten holder</b> (make- <b>Anchor/Havells/Panasonic</b> or equieivalent reputed make A catagory ISI marked as approved )of ISI marked conforming to IS-1258/1987 in place of ceiling rose as per direction of Engg.-in-Charge .All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.  | EACH     | 16  | 75.00    | 1200.00          |
| 16            | Supplying,fixing of Blanking plate(modular type)( <b>anti bacterial &amp; flame retradant type</b> ) in existing switch box(anti bacterial & flame retradant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.. <b>Make-Schneider(Zencelo)/legrand( Arteur) /Panasonic (vision), complete suitable for IPH standard hospital.It should be warrantied for a period of 10 years against manufacturing defects against which necessary test report &amp; Warrnaty certificate to be submitted to the department for genuinity of product &amp; to avail free aftersales service within warranty period for acceptance of materials.</b> | Nos      | 16  | 45.00    | 720.00           |
| <b>Total=</b> |  | <b>A</b> |     |          | <b>764493.05</b> |
| <b>B</b>      | <b>Sub-Head II (Light fitting Fixture &amp; Fan)</b>   |          |     |          |                  |
| 1             | Supplying, installation, of exhaust fan of heavy duty 300 mm sweep ( <b>Make-Equieivalent higher model with 5 star rated of Havells/almonard/Anchor/Panasonic/Usha</b> or equieivalent reputed make & model A catagory ISI marked as approved ) of exhaust fan in the existing wall, including fixing & conntection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 5 years.   | Nos      | 5   | 3,347.00 | 16735.00         |
| 2             | Supplying, installation, of exhaust fan of heavy duty 380 mm sweep 1400 rpm with louvers <b>Make-Equieivalent higher model with 5 star rated of Havells/almonard/Anchor/Panasonic/Usha</b> or equieivalent reputed make & model A catagory ISI marked as approved ) of exhaust fan in the existing wall, including fixing & conntection .as required as per direction of Engg.-in-Charge. Replacement Warranty will be 5 years.  | Nos      | 3   | 3,673.00 | 11019.00         |
| 3             | Supplying, installation, testing and commssioning of 1200 mm sweep white/milky colour BLDC ceiling fan with aluminium blades having wattage not more than 28W and air delivery ≥215m3/min <b>Make-Crompton Energion Groove /Havells Efficiencia Neo/Usha Technix</b> ) including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required as per direction of Engg.-in-Charge,Replacement Warranty will be 4 years.. (With fan Regulator)  | Nos      | 42  | 3,724.00 | 156408.00        |

| Sl. No. | Description of items.  | Unit | Qty | Rate    | Amount    |
|---------|--|------|-----|---------|-----------|
| 4       | Supplying and fixing of Energy efficient Recess mounted LED luminaire made up of CRCA powder coated sheet steel housing of 595 X 595 mm x 70 mm size with of not more than 25W and system lumens output not less than 3250 lumens (130 lm/wt) with diffusers for better light transmission and pure effect with High luminous flux LEDs for better light output. CRI not less than 80, CCT of 5700-6500 degree K, THD less than 10%, internal surge protection of 3 KV, complete with Non integrated isolated electronic driver (protects the output /secondary side from any disturbance on the input / primary side ensuring safe operation)and all other accessories suitable for operation on 140- 270 V, 50 Hz ,L70 @50,000 burning hrs (5 years warranty)supply .as required as per direction of Engg.-in-Charge (Make: Panasonic/LT/Trilux /Philips/Wipro or equievalant reputed make & model A catagory ISI marked as approved.) . The luminaire must be Replacement Warranty will be 5 years. | No   | 40  | 2867.00 | 114680.00 |
| 5       | Supplying and fixing of Energy efficient recessed mounted LED luminaire made up of CRCA powder coated housing, Top opening clean room LED luminaire of 600 X 600 x 65 mm size with of 45 W and system lumens output not less than 4500 lumens , IP65 ,dust free & zero maintenance , anti glare high transmittance PMMA diffuser , operating volatge range 150-265 V, high performance potentiometric electronic driver for zero maintenance , 2.5 KV internal urge protection, L70 B 50: 50,000 hrs., CRI not less than 80, CCT of 5700-6500 degree K, THD less than 10%,,IP 65 protection complete with all other accessories suitable for operation on 230 V, 50 Hz supply as required as per direction of Engg.-in-Charge. (Make:Panasonic /PHILIPS/ Wipro or equievalant reputed make & model A catagory ISI marked as approved.) .The luminaire should be Replacement Warranty will be 5 years. .Each <b>CLEAN ROOM FITTING FOR OT ICU MRI CT.</b>   | Nos  | 12  | 5612.00 | 67344.00  |
| 6       | Supplying and fixing of Energy efficient surface mounted square shape 20 W LED luminaire of dimension of 225x 225 x 35 mm consists of white powder coated , die-cast Alluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 20 watt and lumen output of 1500 lumens , , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 2.5 KV , L70 B50: 30000 hrs (2 yrs warranty) and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge. ( Make : Panasonic /Trilux/Osram/PHILIPS/Wipro or equievalant reputed make & model A catagory ISI marked as approved).The luminaire should be Replacement Warranty will be 5 years  | Nos  | 80  | 1540.00 | 123200.00 |
| 7       | Supplying and fixing of Energy efficient recess mounted LED luminaire with white powder coated ,pressure die-cast Al housing ,with high transmittivity,non-yellowing PMMA diffuser, with wattage not more than 20 watt and lumen output not less than 2600 Lumen ( 130 lumens/watt ) of size 595 x595 x 70 mm , ,CRI not less than 80,CCT of 5700-6500 degree K,THD less than 10%, with Non integrated isolated driver (protects the output /secondary side from any disturbance on the input / primary side ensuring safe operation), all other accessories , life : 50,000 burning hours (5 years warranty) , Internal surge protection of 3 KV suitable for operation on 230 V, 50 Hz supply as required as per direction of Engg.-in-Charge. ( Make : Panasonic / LT /Wipro/PHILIPS or equievalant reputed make & model A catagory ISI marked as approved.) The luminaire should be Replacement Warranty will be 5 years.  | Nos  | 12  | 1540.00 | 18480.00  |
| 8       | SITC of energy efficient LED tube light fittings with decorative alluminium batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having 5 years warranty i/c connection etc as required as per direction of Engg.-in-Charge. (Similar to Panasonic/ <b>PHILIPS/LT/wipro or equievalant reputed make &amp; model A catagory ISI marked as approved.</b> ). The luminaire should be Replacement Warranty will be 5 years .  | Nos  | 12  | 832.00  | 9984.00   |
| 9       | SITC of Sleek LED 10 watt mirror light fitting with extruded polycarbonate housing.High optically efficient diffuser, <b>above wash basin</b> complete with all accessoriesetc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required as per direction of Engg.-in-Charge. ( Make : <b>WIPRO / PHILIPS/Panasonic or equievalant reputed make &amp; model A catagory ISI marked as approved.</b> )The luminaire should be Replacement Warranty will be 5 years   | Nos  | 6   | 768.00  | 4608.00   |
| 10      | SITC of IP 20 Non-integral flexible LED strip light,High optically efficient diffuser,, 4000K with 12 w/mtr @ 5Mtr pool with Driver extra as required as per direction of Engg.-in-Charge ( Make : Panasonic <b>PHILIPS/Wipro or equievalant reputed make &amp; model A catagory ISI marked as approved.</b> )The luminaire should be Replacement Warranty will be 5 years   | Nos  | 2   | 1522.00 | 3044.00   |

| Sl. No. | Description of items.  | Unit     | Qty | Rate     | Amount           |
|---------|--|----------|-----|----------|------------------|
| 11      | Supplying and fixing of small focus light for small monuments as 30W , 5700 K required as per direction of Engg.-in-Charge Make : Panasonic/PHILIPS/LT/WIPRO or equievalant reputed make & model A catagory ISI marked as approved.)The luminaire should be Replacement Warranty will be 5 years   | Nos      | 4   | 2988.00  | 11952.00         |
| 12      | Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required as per direction of Engg.-in-Charge .<br>(Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)of ISI mark as approved.   | Nos      | 100 | 39.00    | 3900.00          |
|         | <b>TOTAL=</b>  | <b>B</b> |     |          | <b>541354.00</b> |
| c)      | <b>BDBS,DB,AC DB,FLOOR PANELS,MCBS</b>   |          |     |          |                  |
| 1       | Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel,double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3,integrated door earthing system offering additional safety to the user.High quality polyurethane Gasket,the box and cover shall be fabricated to withstand IK09,the DB should be properly pre-treated with 7 tank process and duly powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks,with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar. <b>Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/Panasonic(Equivalent model) /ABB(Equivalent model)</b> or equievalant reputed make & model A catagory ISI marked as approved. as per direction of Engg.-in-Charge. The Distribution boards should be Replacement Warranty will be 5 years |          |     |          |                  |
| a)      | 4 Way(8+12) Way TPN MCB DD DB Horizontal Type as per IEC 61439-3 suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door( <b>FOR LIGHT,POWER INDOOR,3-PH,POWER LOAD</b> ) Warranty on DB is 2 years.   | Nos      | 4   | 4,700.00 | 18800.00         |
| b)      | Supply and fixing of 12 way DD single pole and neutral sheet steel MCB distribution board 250V on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required (but with out MCB/ RCCB/ Isolator) ( <b>ALL LIGHT WITH CORRIDOR/COMMON AREA,EM LIGHT,UPS LOAD, EM LOAD LIGHT LOAD,POWER LOAD</b> )  | Nos      | 4   | 1,962.00 | 7848.00          |
| c)      | 2+4 way MCB Enclosure DB (GLAZED door)(only each EM. CONNECTION UPS LOAD)  | Nos      | 4   | 1,690.00 | 6760.00          |
| d)      | 8 Way(8+24) Way TPN MCB DD DB Horizontal Type as per IEC 61439-3 suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door( <b>FOR LIGHT,POWER INDOOR,3-PH,POWER LOAD</b> )  | Nos      | 1   | 6,577.00 | 6577.00          |
| 2       | Supplying and fixing 20 amps rating, 240 volts, C series, Double poles MCB of <b>Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/L&amp;T (Equivalent model)/Panasonic(Equivalent model) /ABB(Equivalent model)</b> or equievalant reputed make & model A catagory ISI marked as approved in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The MCB should be Replacement Warranty will be 5 years .MCB should have the fault indication system in different colour for ON, OFF & TRIP condition or Mid trip position for Trip conditions for easier identification of fault.Warranty on MCB is 5 years.  | Nos      | 2   | 963.00   | 1926.00          |
| 3       | Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series, single poles MCB of <b>Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/L&amp;T (Equivalent model)/Panasonic(Equivalent model) /ABB(Equivalent model)</b> or equievalant reputed make & model A catagory ISI marked as approved. the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The MCB should be Replacement Warranty will be 5 years.MCB should have the fault indication system in different colour for ON, OFF & TRIP condition or Mid trip position for Trip conditions for easier identification of fault.Warranty on MCB is 5 years.   | Nos      | 200 | 321.00   | 64200.00         |
| 4       | Supplying and fixing 40 Amps rating, TPN, 415 volts, RCCB,300mA .Make-Equievalant higher model of <b>Legrand/Snheider/Siemens / L&amp;T/Panasonic /ABB or equievalant reputed make &amp; model A catagory ISI marked as approved</b> in the existing MCB DB complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge. .(4W TPN BDB IC)AC ODU CONTROLLER). The RCCB should be Replacement Warranty will be 5 years   | Nos      | 4   | 5,299.00 | 21196.00         |

| Sl. No. | Description of items.  | Unit     | Qty | Rate      | Amount           |
|---------|--|----------|-----|-----------|------------------|
| 5       | Supplying and fixing 25Amps DP 240 volts, RCCB,300mA <b>Make-Equivalent higher model of Legrand/Snheider/Siemens / L&amp;T/Panasonic /ABB or equivalent reputed make &amp; model A category ISI marked as approved in the existing MCB DB</b> in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The RCCB should be Replacement Warranty will be 5 years  | Nos      | 4   | 2,966.00  | 11864.00         |
| 6       | Supplying and fixing 40Amps DP 240 volts, RCCB,300mA <b>Make-Equivalent higher model of Legrand/Snheider/Siemens / L&amp;T/Panasonic /ABB or equivalent reputed make &amp; model A category ISI marked as approved in the existing MCB DB</b> in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The RCCB should be Replacement Warranty will be 5 years  | Nos      | 2   | 2,966.00  | 5932.00          |
| 7       | Supplying and fixing 63Amps DP 240 volts, RCCB,300mA <b>Make-Equivalent higher model of Legrand/Snheider/Siemens / L&amp;T/Panasonic /ABB or equivalent reputed make &amp; model A category ISI marked as approved in the existing MCB DB</b> in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.The RCCB should be Replacement Warranty will be 5 years   | Nos      | 2   | 3,211.00  | 6422.00          |
| 8       | Supplying and fixing 63Amps TPN 415 volts, RCCB,300mA <b>Make-Equivalent higher model of Legrand/Snheider/Siemens / L&amp;T/Panasonic /ABB or equivalent reputed make &amp; model A category ISI marked as approved in the existing MCB DB</b> in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.(for power BDB & AC ODU, 8 way TPN BDB IC).The RCCB should be Replacement Warranty will be 5 years   | Nos      | 5   | 5,299.00  | 26495.00         |
|         | <b>TOTAL=</b>  | <b>C</b> |     |           | <b>178020.00</b> |
| d)      | <b>(Earthing) INSTALLATION</b>   |          |     |           |                  |
| 1       | S/IT/C Of Earthing with copper earth plate 600 mm x 600mm x 6 mm thick ISI marked  | Nos      | 2   | 18,021.00 | 36042.00         |
| 2       | S/IT/C of materials and installation of pipe earth electrode made out of 50mm dia class B G.I. pipe of 3.0 metre long with arrangements for fitting/ termination of G.I. flat / wire with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge.The entire earthing system should be Replacement Warranty will be 5 years | Nos      | 2   | 2,787.00  | 5574.00          |
| 3       | Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required.as per direction of Engg.-in-Charge.   | Mtr      | 122 | 109.00    | 13298.00         |
| 4       | Providing and fixing 25mm x 5 mm copper strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.  | Mtr      | 15  | 1,118.00  | 16770.00         |
| 5       | Supplying and making brick massonary pedastal with extra super structure including ce  | Mtr      | 1   | 2,710.00  | 2710.00          |
|         | <b>TOTAL=</b>  | <b>D</b> |     |           | <b>74394.00</b>  |
| e)      | <b>CABLING AND END TERMINATION MAIN AREA</b>   |          |     |           |                  |
| 1       | Supplying of one number PVC insulated armoured and PVC sheathed XLPE property <b>AL. conductor</b> power cable of 1.1 KV grade <b>POLYCAB/HAVELLS/Finolex or equivalent reputed make ISI marked as approved</b> of following size cables as per direction of Engg.-in-Charge. Necessary test report & Warnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials  |          |     |           |                  |
| a)      | 3.5core x 240 sq mm ( TO MAIN PANEL )  | Mtr      | 88  | 1,104.60  | 97204.80         |
| b)      | 3.5core x 120 sq mm ( DG PANEL1 RUNS )   | Mtr      | 88  | 595.82    | 52432.16         |
| 1.1     | Supplying of one number PVC insulated armoured and PVC sheathed XLPE property <b>AL. conductor</b> power cable of 1.1 KV grade <b>POLYCAB/HAVELLS/Finolex or equivalent reputed make ISI marked as approved</b> of following size cables as per direction of Engg.-in-Charge. Necessary test report & Warnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials  |          |     |           |                  |
| a)      | 3.5core x 95 sq mm ( FOR FDB 1F,2F, POWER )  | Mtr      | 21  | 475.31    | 9981.51          |
| b)      | 4core x 16 sq mm (FDB LIGHT 1 RUN UPTO 1F )  | Mtr      | 15  | 145.61    | 2184.15          |
| c)      | 4 core x 4 sq mm (for small power)   | Mtr      | 19  | 87.87     | 1669.53          |
| d)      | 3.5core x 35 sq mm (To FDB LIGHT / power BDB/UPS PANEL,separate panel for OT Complex,MCU)  | Mtr      | 20  | 218.41    | 4368.20          |
| 2       | <b>LAYING OF CABLE</b>   |          |     |           |                  |
| 2.1     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand coushing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.  | Mtr      | 12  | 155.00    | 1860.00          |

| Sl. No. | Description of items.  | Unit     | Qty | Rate        | Amount<br>in Ru  |
|---------|--|----------|-----|-------------|------------------|
| 2.2     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 120 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand cousing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.  | Mtr      | 51  | 176.00      | 8976.00          |
| 2.3     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 120 SQ. MM but not exceeding 400 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand cousing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge. | Mtr      | 45  | 197.00      | 8865.00          |
| 2.4     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.  | Mtr      | 25  | 56.00       | 1400.00          |
| 2.5     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.   | Mtr      | 22  | 77.00       | 1694.00          |
| 2.6     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in open duct etc as required as per direction of Engg.-in -charge.   | Mtr      | 22  | 45.00       | 990.00           |
| 2.7     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM in open duct 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.  | Mtr      | 20  | 61.00       | 1220.00          |
| 2.8     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.  | Mtr      | 26  | 103.00      | 2678.00          |
| 2.9     | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 120 SQ. MM From 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.  | Mtr      | 20  | 158.00      | 3160.00          |
| 2.10    | Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 400 SQ. MM From 120 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.   | Mtr      | 8   | 161.00      | 1288.00          |
| 3       | Supplying and making end termination with brass compression gland and aluminium lugs for following mentioned size cable.as per direction of Engg.-in-Charge.   |          |     |             |                  |
| a)      | 3.5 core x240 sq mm  | Nos      | 2   | 725.00      | 1450.00          |
| b)      | 4 core x16sq mm  | Nos      | 4   | 230.00      | 920.00           |
| c)      | 3.5 core x35 sq mm   | Nos      | 4   | 400.00      | 1600.00          |
| d)      | 3.5 core x95 sq mm   | Nos      | 4   | 473.00      | 1892.00          |
| e)      | 3.5 core x120 sq mm  | Nos      | 2   | 522.00      | 1044.00          |
| 4       | Providing,fixing and laying of following dia G.I. pipe (medium class) in ground complete with G.I fitting incl. trenching(75 mm depth)and refilling as per direction of Engg.-in-Charge.   |          |     |             |                  |
| a)      | 50 mm dia  | mtrs     | 10  | 447.00      | 4470.00          |
| 5       | Providing,fixing and laying of fallowing dia HDPE pipe (medium class) in ground complete with fitting incl. trenching(75 mm depth)and refilling as per direction of Engg.-in-Charge.   |          |     |             |                  |
| a)      | 200 mm dia   | mtrs     | 33  | 866.00      | 28578.00         |
|         | <b>TOTAL=</b>  | <b>E</b> |     |             | <b>239925.35</b> |
| f)      | <b>PANELS</b>  |          |     |             |                  |
|         | <b>MAIN CONTROL PANEL AT GF</b>  |          |     |             |                  |
| 1       | S/I/T&Commissioning of LT indoor floor mounted cubical type electrical main panel (for   | Set      | 1   | 2,69,933.00 | 269933.00        |
|         | <b>In commer-1-01 number of 400A 4P Icu=100%lcs,0, LSIG MCCB with micro processor based release Electrical locking for normal &amp; DG (make-ABB/Siemens/SCHNEIDER/L&amp;T/Legrand, ISI marked)(HVAC &amp; MEDICAL EQUIPEMENT)(200 KVA TRANSFORMER)</b>  |          |     |             |                  |
|         | <b>In commer-2-01 number of 250A 4P Icu=100%lcs, 0 LSIG MCCB with micro processor based release with adjustable overload from 36%-100% &amp; Electrical locking for normal &amp; DG (make-ABB/Siemens/SCHNEIDER/L&amp;T/Legrand, ISI marked) along with 01 no of 200A 4P onload changeover switch (125 KVA DG 01 NO)</b>     |          |     |             |                  |
|         | <b>Busbar-1&amp;2</b> 04 numbers of 500Amps Aluminium busbar with 1A/SQ.MM current carrying capacity. busbar duly sleeved by color coated PVC sleeve & supported by suitable size DMC insulator. (for outgoing)  |          |     |             |                  |
|         | <b>Out going-</b> 08 numbers of 63A 4P MCB (make- Legrand or equivalent reputed make ISI marked)BDB P/AC,(timer panel & water supply management,,FIRE,WTP,STP & GF POWER)  |          |     |             |                  |
|         | <b>Out going-</b> 5 numbers of 125A 4P Icu=50%lcs, LSIG MCCB withTMR based release with adjustable overload (make- LEGRAND/Schneider/ABB/Siemens, ISI marked)(FLOOR RAW POWER PANEL ,SPARE,DG PANEL OF OT COMPLEX & CT,AC )  |          |     |             |                  |
|         | <b>Out going-</b> 6 numbers of 32A 4P MCB ((make- ABB/Siemens/SCHNEIDER/L&T/Legrand, ISI marked)(LIGHT SUPPLY)   |          |     |             |                  |
|         | <b>Instrument-</b> (i) 03 numbers phase indicating lamp with toggle switch & HRC fuse.   |          |     |             |                  |



| Sl. No.  | Description of items.   | Unit     | Qty | Rate      | Amount in Rs     |
|----------|---|----------|-----|-----------|------------------|
|          | (ii) 02 set of digital type multifunction meter with CT for voltage,current,frequency,PF,THD indication with RS 485 COMPACTIVITY FOR bms data.  |          |     |           |                  |
|          | (iii) 4 nos of 65kA SP VSD WITH 32A SP MCB  |          |     |           |                  |
|          | <b>FDB LIGHT AT 1F</b>  |          |     |           |                  |
| 2        | S//T&Commissioning of LT indoor floor mounted cubical type electrical main panel (for   | Set      | 1   | 25,024.00 | 25024.00         |
|          | <b>In commer- 01 no 63A 4P MCB 10kA,C series with on/off trip indication Light load for each floor. ( Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/L&amp;T (Equievalant model)/Panasonic(Equivalent model) /ABB(Equivalent model)or equievalant make with proper model ISI marked)</b>   |          |     |           |                  |
|          | <b>Busbar- 04 numbers of 63Amps,50kA Electrolytic copper busbar duly sleeved by color coded PVC sleeve &amp; supported by suitable size DMC insulator.</b>  |          |     |           |                  |
|          | <b>Out going- 06 nos 32A 2P MCB 10kA,C series UPS Light load for each area UBDB. ( Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/L&amp;T (Equievalant model)/Panasonic(Equivalent model) /ABB(Equivalent model)or equievalant make with proper model ISI marked)</b>  |          |     |           |                  |
|          | <b>Instrument- (i) 03 numbers phase indicating lamp with toggle switch &amp; HRC fuse.</b>  |          |     |           |                  |
|          | (ii) 01 set of 0-60Amps Ammeter with CTS.(DIGITAL)(Sicure/L&T,CT-KAPPA or equievalant make & model)   |          |     |           |                  |
|          | (iii) 01 set of 0-500 voltmeter .(DIGITAL)(Sicure/L&T or equievalant make & model)  |          |     |           |                  |
|          | <b>FDB RAW POWER AT 1F,2F , OT COMPLEX AREA ALONG WITH DOCTORS ROOM WITH DG SUPPLY</b>  |          |     |           |                  |
| 3        | S//T&Commissioning of LT indoor floor mounted cubical type electrical main panel (for   | Set      | 1   | 86,256.00 | 86256.00         |
|          | <b>In commer- 01 no 125A 4P MCCB 25kA, with ROM &amp; S. Link. (make- ABB/Siemens/SCHNEIDER/L&amp;T/Legrand, ISI marked)(Icu=100%Ics)with shunt trip.with axulary for BMS or equievalant make.</b>  |          |     |           |                  |
|          | <b>Busbar- 04 numbers of 125Amps,50kA Electrolytic copper busbar duly sleeved by color coded PVC sleeve &amp; supported by suitable size DMC insulator.</b>   |          |     |           |                  |
|          | <b>Out going- 04 nos 63A 4P MCB 10kA,C series for power BDB. ( Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/L&amp;T (Equievalant model)/Panasonic(Equivalent model) /ABB(Equivalent model)or equievalant make with proper model ISI marked)</b>  |          |     |           |                  |
|          | <b>Out going- 02 nos 32A 4P MCB 10kA,C series forExtra power BDB. ( Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/L&amp;T (Equievalant model)/Panasonic(Equivalent model) /ABB(Equivalent model)or equievalant make with proper model ISI marked)</b>   |          |     |           |                  |
|          | <b>Instrument- (i) 03 numbers phase indicating lamp with toggle switch &amp; HRC fuse.</b>  |          |     |           |                  |
|          | (ii) 01 set of MFM with CTS.(DIGITAL)(Sicure/L&T,CT-KAPPA or equievalant make & model)  |          |     |           |                  |
|          | <b>UPS PANEL FOR EMERGENCY(COMMON &amp; CRITICAL)</b>   |          |     |           |                  |
| 4        | S//T&Commissioning of LT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & painted by simens grey powder cote paint is designed as G.A drawing. (FOR ALL MAIN CONNECTED LOAD) BUILDING EMERGENCY LIGHT)as per direction of Engg.-in-Charge. <b>Warrentee period of replacement of panel &amp; accessories must be 5 years &amp; compelete test certificate must be submitted along with panel board including component list.</b> | Set      | 1   | 56,269.00 | 56269.00         |
|          | <b>In commer- 01 numbers of 63 Amps 4P MCB.(make- ABB/Siemens/SCHNEIDER/L&amp;T/Legrand, ISI marked)(Icu=50% Isc) with shunt trip &amp; axulary for BMS &amp; mechanical inter locking for one incommer source to other.</b>  |          |     |           |                  |
|          | <b>Busbar- 04 numbers of 100Amps Electrolytic copper busbar duly sleeved by color coded PVC sleeve &amp; supported by suitable size DMC insulator.</b>  |          |     |           |                  |
|          | <b>Out going- 04 nos 32A 2P MCB UPS Light load for each floor.</b>  |          |     |           |                  |
|          | <b>Out going- 03 nos 32A 4P MCB OT/ICU POWER/OT MACHINE OR Bed head panel</b>   |          |     |           |                  |
|          | <b>Instrument- (i) 03 numbers phase indicating lamp with toggle switch &amp; HRC fuse.</b>  |          |     |           |                  |
|          | (ii) 01 set of 0-100Amps Ammeter Digital type & CTS.(DIGITAL)   |          |     |           |                  |
|          | (iii) 01 set of 0-500 voltmeter Digital type.(DIGITAL)  |          |     |           |                  |
|          | <b>NB- This panel should have proper earth by suitable rated copper flat.</b>   |          |     |           |                  |
|          | <b>TOTAL=</b>   | <b>F</b> |     |           | <b>437482.00</b> |
| <b>G</b> | <b>CABLE TRAY /RACE WAY FOR DISTRIBUTION OF POWER</b>   |          |     |           |                  |

| Sl. No.                        | Description of items.  | Unit     | Qty   | Rate     | Amount            |
|--------------------------------|--|----------|-------|----------|-------------------|
| 1                              | HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 , CARBON STEEL WIRE MESH CABLE TRAYS with internal dimensions of size 54mm(H) x 200mm(W), of <b>Legrand</b> - Cablofil make or equievalant reputed make & model A catogory, ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories,bend,cover,supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge. Warrentee period oftray must be 5 years & compelete test certificate must be submitted . | mtrs     | 12    | 605.00   | 7260.00           |
| 2                              | HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 , CARBON STEEL WIRE MESH CABLE TRAYS with internal dimensions of size 54mm(H) x 300mm(W), of <b>Legrand</b> - Cablofil make or equievalant reputed make & model A catogory, ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories,bend,cover,supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge. Warrentee period oftray must be 5 years & compelete test certificate must be submitted . | mtrs     | 14    | 690.00   | 9660.00           |
| 3                              | HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 , CARBON STEEL WIRE MESH CABLE TRAYS with internal dimensions of size 54mm(H) x 400mm(W), of <b>Legrand</b> - Cablofil make or equievalant reputed make & model A catogory, ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories,bend,cover,supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge. Warrentee period oftray must be 5 years & compelete test certificate must be submitted . | mtrs     | 12    | 913.00   | 10956.00          |
| 4                              | GALVANIZED(GC) AS PER EN-ISO-1461 , FLOOR RACE WAY WITH JUNCTION with internal dimensions of size 38mm(H) x 225mm(W), of reputed make ISI marked as approved .(With all accessories,bend,cover,supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge.(3 COMPARTMENT TOTAL 54 MM HEIGHT,COST WITHOUT GST,WITH LESS DISCOUNT(REPUTED FACTORY MADE ISI MARKED)  | mtrs     | 16    | 1,782.00 | 28512.00          |
| <b>TOTAL=</b>                  |  | <b>G</b> |       |          | <b>56388.00</b>   |
| <b>SUM TOTAL (ELECTRICAL)=</b> |  |          |       |          | <b>2292057.00</b> |
| <b>PH &amp; SANITARY WORKS</b> |  |          |       |          |                   |
| 1                              | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 20mm dia C - PVC pipe Ground Floor   | Mtrs.    | 20.00 | 276.90   | 5538.00           |
| 2                              | First Floor  | Mtrs.    | 20.00 | 285.60   | 5712.00           |
| 3                              | 25mm dia C - PVC pipe Ground Floor   | Mtrs.    | 30.00 | 378.40   | 11352.00          |
| 4                              | First Floor  | Mtrs.    | 30.00 | 387.10   | 11613.00          |
| 5                              | Supplying all materials, labour, T&P and providing and fixing to wall or ceiling and floor GI/PVC pipes, class-IV (10 k.g. F/cm) on firming I.S.4985 of the following nominal bore, tube fittings and clamps including making good the wall, ceiling and floor, testing all complete as per specification and direction of the Engineer in charge.32mm dia PVC ASTM pipe (sch-80) top  | Mtrs.    | 40.00 | 315.20   | 12608.00          |
| 6                              | 40mm dia PVC ASTM pipe (sch-80) top  | Mtrs.    | 60.00 | 414.70   | 24882.00          |
| 7                              | Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials including cost & conveyance of all materials to worksite, payment of taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge.15mm dia CP angle stop cock (Con-CHR-053KN Jaquar make)   | Each     | 13.00 | 861.30   | 11196.90          |
| 8                              | 15mm dia CP two in one bib cock (Con-CHR-041KN Jaquar make)  | Each     | 1.00  | 1,255.00 | 1255.00           |
| 9                              | 15 mm dia CP S.B. Bib cock(CON-CHR-037KN)  | Each     | 3.00  | 1,082.80 | 3248.40           |
| 10                             | 15mm dia CP Long Body Bib cock (Con-CHR-107KN Jaquar make)   | Each     | 4.00  | 1,451.90 | 5807.60           |
| 11                             | Pillar cock(Jaquar-Madi series)FLR-CHR-5031N   | Each     | 9.00  | 2,140.90 | 19268.10          |
| 12                             | 25mm dia brass full way valve (Shakti make)  | Each     | 4.00  | 1,198.30 | 4793.20           |
| 13                             | 32mm dia brass full way valve (Shakti make)  | Each     | 4.00  | 1,753.90 | 7015.60           |
| 14                             | 40mm dia brass full way valve (Shakti make)  | Each     | 2.00  | 2,232.10 | 4464.20           |
| 15                             | 15mm dia CP Health faucet (Con-ALD-MCH-573 Jaquar make)  | Each     | 1.00  | 1,648.70 | 1648.70           |
| 16                             | 15mm CP Extension piece  | Each     | 30.00 | 52.60    | 1578.00           |
| 17                             | 125mm CP grating   | Each     | 22.00 | 78.60    | 1729.20           |
| 18                             | 15mm size C.P. flange  | Each     | 30.00 | 77.40    | 2322.00           |

| Sl. No. | Description of items.  | Unit | Qty   | Rate      | Amount<br>in Rs |
|---------|--|------|-------|-----------|-----------------|
| 19      | Supplying all materials , labour, T&P and fixing rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701/1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc. including hoisting upto a height of 5 metres above ground level and placing the tank to the required position and providing 5.40 mtr. lengthx0.25 mtr width KB brickwork in cement mortar (1:6) of 0.46m height in staging and 0.13mtr thick circular protection wall of 0.46mtr height to support the tank,12mm thick cement plaster in cement mortar (1:6) over brick work, RCC slab of size 1.60mX1.60m and 0.10m thick ,RCC beam of 0.25mx0.30m and 3.40m average length in cement concrete (1:2:4) using 12mm size crusher broken hard black granite chips and required steel reinforcement including centering and shuttering,watering,curing ,cost of all materials,conveyance of all materials to worksite , payment of royalty, all taxes etc.all complete as per approved drawing , P.H. specification and direction of Engineer-in-charge 2000 liters capacity PVC water storage tank roof of F.F. | Each | 2.00  | 44,455.20 | 88910.40        |
| 20      | supplying all materials, labour, T&P and cutting holes through existing brick work including making good the damages in cement mortar (1:4) for taking G.I. Pipes and fittings/ P.V.C. pipes and fittings including watering, curing, cost & conveyance of all materials to worksite, payment of royalty, taxes etc. all complete as per direction of Engineer-in-charge.Ground Floor  | Each | 8.00  | 50.90     | 407.20          |
| 21      | First Floor  | Each | 6.00  | 51.80     | 310.80          |
| 22      | Supplying all materials , labour, T&P and cutting holes in RCC floors and roofs upto 19cm thick for passing P.V.C pipes and G.I fittings etc. , and repairing the holes after insertion of pipe etc. with cement concrete (1:2:4) including finishing complete so as to make it leak-proof as per P.H. specification and direction of Engineer-in-chargeGround Floor   | Each | 4.00  | 169.80    | 679.20          |
| 23      | First Floor  | Each | 3.00  | 170.60    | 511.80          |
| 24      | Supplying all materials, labour, T&P and cutting grooves in pucca floors and walls for taking G.I./P.V.C. pipes and making good the damages including watering , curing , cost & conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per direction of the Engineer-in-charge.Ground Floor   | Mtr  | 30.00 | 200.60    | 6018.00         |
| 25      | First Floor  | Mtr  | 30.00 | 205.90    | 6177.00         |
| 26      | Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches , cost & conveyance of all materials to worksite, payment of taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge. 110mm U-PVC SWR Pipe (Supreme /Ashirvad)  | Mtr. | 75.00 | 483.60    | 36270.00        |
| 27      | 110mm U-PVC 'P' Trap(Ori Plast/Finolex/Supreme Make)   | Each | 8.00  | 497.30    | 3978.40         |
| 28      | 110mm U-PVC door bend(Ori Plast/Finolex/Supreme Make)  | Each | 10.00 | 293.60    | 2936.00         |
| 29      | 110mm U-PVC Plain bend(Ori Plast/Finolex/Supreme Make)   | Each | 10.00 | 232.00    | 2320.00         |
| 30      | 110mm U-PVC offset without ear(Ori Plast/Finolex/Supreme Make)   | Each | 8.00  | 407.40    | 3259.20         |
| 31      | 110mm U-PVC Cowl(Ori Plast/Finolex/Supreme Make)   | Each | 4.00  | 58.20     | 232.80          |
| 32      | 110mm U-PVC S/Jn door(Ori Plast/Finolex/Supreme Make)  | Each | 10.00 | 457.10    | 4571.00         |
| 33      | 110mm U-PVC Plain tee(Ori Plast/Finolex/Supreme Make)  | Each | 20.00 | 322.70    | 6454.00         |
| 34      | 110mm U-PVC D/Jn door(Ori Plast/Finolex/Supreme Make)  | Each | 10.00 | 551.20    | 5512.00         |
| 35      | 110mm U-PVC Door tee(Ori Plast/Finolex/Supreme Make)   | Each | 20.00 | 386.00    | 7720.00         |
| 36      | 110mm U-PVC Socket(Ori Plast/Finolex/Supreme Make)   | Each | 30.00 | 160.10    | 4803.00         |
| 37      | Supplying all materials, labour, T&P and fixing vitreous china water closet, squatting pan (Indian type W.C pan/Orissa pattern squatting pan) duly embedded in cement concrete (1:5:10) using 4cm size hard granite metal including fixing a pair of vitreous china 250mm x 130mm x30mm footrest, fixing 100mm dia HCl 'p' or 's' trap (with/without 50mm dia horn) for water colset squatting pan including jointing the trap with pan in cement mortar (1:1) cutting the floor and mending good the damages , cost & conveyance of all materials to worksite, payment of royalty , taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge.580mm size Orissa pan (Hindware/Parryware/Neycer make)   | Each | 3.00  | 3,692.20  | 11076.60        |

| Sl. No. | Description of items.  | Unit | Qty   | Rate     | Amount<br>in Rs |
|---------|--|------|-------|----------|-----------------|
| 38      | Supplying all materials, labour T&P and and fixing 12.50 liters/10 liters capacity low level flushing cistern with a pair of cast iron or M.S. brackets complete with fittings such as siphonic arrangements 15mm nominal size brass/pvc ball valve with polythene float CP brass handle, unions and couplings for connection with inlet, outlet and overflow pipes, 32mm dia CP long flush bend, 15mm dia pvc inlet connection pipe including cutting holes and making good the same and connecting the flush bend with cistern and closet and connecting the inlet pipe with supply main , cost & conveyance of all materials to worksite, payment of taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge 10 ltr. Capacity pvc L.L. cistern with 32mm. Dia CP long flush bend ( Slimline-white-Parryware make )   | Each | 4.00  | 2,246.40 | 8985.60         |
| 39      | Supplying all materials, labour, T&P and fixing Flat back lipped wall (Mini stall urinal - 630mmx180mm) urinal of the following sizes including connecting the urinal with 32mm. dia pvc waste pipe 910mm. long by means of white lead mixed with chopped hemp, fixing 32mm. dia CP dome waste, 15mm. dia CP spreader including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc. all complete as per specification and direction of the Engineer in charge Half stall urinal   | Each | 3.00  | 5,803.70 | 17411.10        |
| 40      | Supplying all materials, labour, T&P and fixing the following vitreous china Wash Down Water Closet (European type W.C. pan) with integral 'p' or 's' trap to the floor with wooden plug and chromium plated pedestal screws including jointing the trap with soil pipe in cement mortar (1:1) fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers including polishing , cost & conveyance of all materials to worksite, payment of royalty, taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge European water closet with 'p' trap plain (Hindware/Parryware/Neycer make)   | Each | 1.00  | 3,096.50 | 3096.50         |
| 41      | Supplying all materials, labour T&P and fixing wash basins with hole for pillar taps with cast iron or M.S. brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc, fixing pedestal for wash basin recessed at the back for the reception of pipes and fittings, fixing PVC waste pipe of 32mm nominal diameter for wash basin including brass check nut complete, fixing pillar taps capstan head screw down high pressure lettered 'Hot' and 'Cold' with long screws, shanks and back nuts of 15mm dia nominal bore, fixing 15mm dia PVC inlet connection pipe and making connection with pillar cocks and supply mains for wash basin, fixing 32mm dia CP brass waste, cost & conveyance of all materials to worksite, payment of taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge Under Counter basin (560x450) Hindware-No. 10095 | Each | 6.00  | 5,273.20 | 31639.20        |
| 42      | Supplying all materials, labour, T&P for fitting & fixing plain edge kitchen/wall sink of all standard sizes with a pair of bracket, C.P. waste, trap & P.V.C. waste pipe & painting brackets including supply of cement concrete & mortar etc. all complete. 24" x 18" x 10" sink   | Each | 9.00  | 5,769.90 | 51929.10        |
| 43      | Supplying all materials, labour, T&P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge 25mmx600mm long CP towel rail   | Each | 6.00  | 860.40   | 5162.40         |
| 44      | Towel ring   | Each | 12.00 | 607.50   | 7290.00         |
| 45      | Supplying all materials, labour, T&P and fixing standard sized glass-shelf with CP brass brackets and guard rail complete fixed to wooden plugs with CP screws as per specification and direction of Engineer in charge. 600mmx125mm plate glass shelf with CP/NP guard rails.   | Each | 6.00  | 634.80   | 3808.80         |
| 46      | Supplying all materials, labour, T&P and fixing mirror of superior glass mounted on 6mm.thick A.C. sheet or ply wood sheet and fixed to wooden plugs with CP screws and washers complete as per specification and direction of Engineer in charge. 600mmx450mm size B.E mirror (swivelled type)  | Each | 6.00  | 724.50   | 4347.00         |
| 47      | Supplying all materials, labour, T&P and fixing CP soap holder complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge CP soap holder  | Each | 19.00 | 250.90   | 4767.10         |
| 48      | Supplying all materials , labour, T&P and cutting holes through existing brick or laterite masonry wall for taking U-PVC pipes and fittings including making good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge  | Each | 22.00 | 202.80   | 4461.60         |
| 49      | Supplying all materials , labour, T&P and cutting of RCC chajja for taking HCl or U-PVC pipe and fittings including making good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge  | Each | 10.00 | 119.20   | 1192.00         |

| Sl. No. | Description of items.  | Unit | Qty   | Rate      | Amount   |
|---------|--|------|-------|-----------|----------|
| 50      | Supplying all materials ,labour ,T&P and constructing Inspection Chamber of inside size 760mmx760mmx460mm with cement concrete (1:3:6) using 40mm size crusher broken hard black granite metal on bed , KB brick work in cement mortar (1:6) in foundation and plinth, moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size crusher broken hard black granite chips, 12mm thick cement plaster (1:3) with cement punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab (1:2:4) using 12mm size crusher broken hard black granite chips with R.C.C man hole cover, earth work in excavation in all kinds of soil and refilling the cavity around the chamber including watering,curing, cost of all materials, conveyance of all materials to worksite, payment of royalty,all taxes etc.all complete as per approved drawing, P.H specification and direction of Engineer-in-chargeInside size 76cmx76cmx46cm with 18" dia RCC MH cover | Each | 3.00  | 10,124.80 | 30374.40 |
| 51      | Supplying all materials ,labour ,T&P and constructing gully trap chamber of inside size 250mmx250mm with 8cm thick RCC precast cover slab in cement concrete (1:2:4) mix using 12mm size crusher broken HG chips, foundation concrete (1:4:8) using 40mm size crusher broken HG metal on bed and around trap, KB brick work in cement mortar (1:6) in foundation and plinth and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmX150mm size CI grating etc.all complete as per drawing, specification and direction of Engineer-in-charge  | Each | 3.00  | 1,647.00  | 4941.00  |
| 52      | Supplying all materials labour T&P filling sand in lavatories well watered and rammed including lead of materials to work site.  | Cum  | 3.50  | 592.60    | 2074.10  |
| 53      | Supplying all materials, labour, T&P and providing cement concrete ( 1:4:8 ) with 4cm size crusher broken hard granite metal including watering, curing, cost of all materials,conveyance of all materials to work site with payment of royalty, all taxes etc all complete as per P.W.D specification and direction of Engineer-in-charge   | Cum  | 2.28  | 5,469.70  | 12470.92 |
| 54      | Supplying all materials, labour, T&P and providing cement concrete ( 1:2:4 ) with 12mm size crusher broken hard black granite chips including watering, curing, cost of all materials, conveyance of all materials to work site with payment of royalty, all taxes etc all complete as per P.W.D specification and direction of Engineer-in-chargeGround Floor   | Cum  | 2.28  | 7,507.10  | 17116.19 |
| 55      | First Floor  | Cum  | 2.10  | 7,835.20  | 16453.92 |
| 56      | Supplying all materials, labour, T&P and providing and fixing ceramic tiles in floors, treads or steps and landing on 25mm thick bed of cement mortar (1:1) ( 1 cement : 1 sand ) jointed with neat cement slurry mixed with pigment to match the shades of the tiles including watering, curing, cost of all materials, conveyance of all materials to work site , payment of royalty, all taxes etc all complete as per P.W.D specification and direction of Engineer-in-charge ( ceramic floor tiles of premium grade having thickness 7mm to 8mm conforming to IS 13755 of size Kajaria/Somany/Johnson tile 60cmx60cm special printed series to be pre-approved by the Engineer-in-charge )Kajaria/Somany/Johnson tile 60cmx60cm   |      |       |           |          |
|         | Ground floor   | Sqm  | 22.80 | 1,252.50  | 28557.00 |
| 57      | First Floor  | Sqm  | 21.05 | 1,263.00  | 26586.15 |
| 58      | Supplying all materials,labour,T&P and providing 12mm thick cement plaster(1:4) on brick work including watering,curing, cost of all materials, conveyance of all materials to worksite,payment of royalty,all taxes etc.all complete as per PWD specification and direction of the Engineer-in-charge.Ground Floor  | Sqm  | 71.36 | 172.20    | 12288.19 |
| 59      | First Floor  | Sqm  | 67.31 | 175.80    | 11833.10 |
| 60      | Supplying all materials, labour, T&P and providing and fixing porcelain glazed tiles in dado skirting on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigment to match the shades of the tiles including watering, curing, cost of all materials, conveyance of all materials to work site , payment of royalty, all taxes etc all complete as per P.W.D specification and direction of Engineer-in-charge( ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm conforming to IS 13753 of size Kajaria/Somany/Johnson tile 60cmx30cm special plain / printed series to be pre-approved by the Engineer-in-charge )Kajaria/Somany/Johnson tile 60cmx30cmGround Floor  | Sqm  | 71.36 | 1,159.60  | 82749.06 |
| 61      | First Floor  | Sqm  | 67.31 | 1,175.40  | 79116.17 |

| Sl. No. | Description of items.   | Unit | Qty   | Rate        | Amount    |
|---------|---|------|-------|-------------|-----------|
| 62      | Factory made single leaf Solid WPC (Wood polymer) composite door shutter of 25mm thick compacted with wood grain finish structural foam panel of 29mm thickness and a density of 20kg/cu.mtr shall be used as core material for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with (EPS) foam shall be used for bending the core material. The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters Conforming to relevant I.S.specification. The finish of door shutter will be plain colour white/ Ivory/ Beige/ Light grey/ Mahogany/ Teak wood or any other colour using high quality pigments. Three heavy whight mild steel butt hinges type-I(ISI marked) size 100mm are to be fitted on one side of shutter. | sqm  | 14.57 | 3,430.60    | 49983.84  |
| 63      | Factory made Solid WPC door frame of size 95mmx55mm fabricated .The door frame consist of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relavent I.S.specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/ Teak wood/sand stone/Champagne/Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge  | Rmt  | 45.18 | 1,114.30    | 50344.07  |
| 64      | Supplying all materials, labour, T&P and providing fitting and fixing (Aqua guard) pure chill 120 PSS UV of size 750 x 570 x 1350mm hight with water storage capacity 120 liter's along with 3 noa of faucets 2 for cold water and 1 for normal water including a flow of 1.5 ltr per munite etc all complete as per approved drawing , specification and direction of the Engineer in charge Aqua guard pure Chill 120 PSS UV  | Each | 1.00  | 1,31,266.00 | 131266.00 |
| 65      | Supplying all materials, labour, T&P and laying in trenches (to level or slope) unplasticized P.V.C. pipe conforming to IS 4985/2000 of the following out side dia for class- 3 (0.60mpa ) including jointing with supply of approved solvent cement by non-heat application method/as per manufacture's specification, provoding and laying in trench cement concrete (1:4:8) with 40mm size hard granite metal in the type C-1 standard bedding surrounding or encasing including concrete for bedding and curing etc all complete as per P.H. specification and direction of the Engineer in charge 100mm dia P.V.C. pipe  | Mtr. | 15.00 | 1,281.90    | 19228.50  |
| 66      | 150mm dia P.V.C. pipe   | Mtr. | 15.00 | 2,081.90    | 31228.50  |
| 67      | Supplying all materials labor T&P and constructing MH chamber of sizes earth work in excavation in all kinds of soil CC(1:1:8) with black granite chips size 46mm brick work with K.B. brick having crossing strength not less than 75 Kg /CM2 to 90 Kg/CM2s in CM(1:6)12mm C.P(1:8) inside MH chamber over benching with cement slush pointing (1:3)outside the MH chamber providing painting MS or CI step iron RCC(roof of slab with CC(1:2:4)with black granite chips size 12mm bending binding tying the grills placing of the reinforcement providing RCC color of required size refilling the cavity around the MH chamber with excavated earth including channeling the bed of MH etc all complete as per PH specification. MH size 0.91m x 0.91 m with 0.45 m (18" dia RCC Cover )   | Each | 2.00  | 19,604.10   | 39208.20  |
| 68      | Supplying all materials labour T&P and constructing 1.40m dia x 2.00 m deep soak way pit with dry brick having crossing strength not less than 75Kg/CM2 to 99Kg/CM2 in CM(1:6) for the remaining 0.4572mm height of wall at top CC(1:3)inside and outside inside fill with dry brick khoa size 38mm ,CM thick RCC perforated slab to a height of 1.9012m from bottom covered by means of 50mmthick RCC wall cover in pieces filled with iron plugs including earth work in excavation refilling of cavity around the pit and painting the iron works complete as per PHD design and specification including carriage of all materials to site.  | Each | 1.00  | 23,095.00   | 23095.00  |
| 69      | 1 no 30 Users Septic tank Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing & breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.30m in depth and as per direction of the Engineer-in-Charge.   | cum  | 12.82 | 223.67      | 2867.45   |
| 70      | Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.  | cum  | 5.39  | 240.10      | 1294.14   |
| 71      | Supplying all materials, labour, T&P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge  | cum  | 0.68  | 5,942.10    | 4040.63   |
| 72      | Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge   | cum  | 1.56  | 7,507.10    | 11711.08  |

| Sl. No. | Description of items.  | Unit | Qty    | Rate     | Amount in Rs |
|---------|--|------|--------|----------|--------------|
| 73      | Supplying all materials, labour, T&P and providing cement concrete (1:1½:3) with 12mm size crusher broken hard black granite chips for RCC works including hoisting, laying, watering, curing, cost of all materials, conveyance of all materials to worksite, payment of royalty, all taxes etc. all complete as per PWD specification and direction of the Engineer in charge.   | cum  | 0.61   | 8,385.70 | 5115.28      |
| 74      | Supplying all materials, labour, T&P and providing steel reinforcement of Fe-415 /Fe-500 grade for RCC work including cutting, bending, binding and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, cost of steel, conveyance of all materials to worksite, payment of royalty, all taxes etc all complete as per PWD specification and direction of the Engineer-in-charge.   | Qntl | 0.49   | 9,413.80 | 4612.76      |
| 75      | Supplying all materials, labour, T&P and providing rigid & smooth centering and shuttering for RCC works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc. all complete as per specification and direction of the Engineer-in-charge RCC floor, roof slab chhaja up to 4.430 m height  | sqm  | 4.47   | 672.00   | 3003.84      |
| 76      | Supplying all materials, labour, T&P and providing brick work in foundation and plinth with KB bricks having crushing strength not less than 75 kg/sqcm with dimensional tolerance ± 8% in cement mortar ( 1:3 ) including watering, curing, cost of all materials, conveyance of all materials to worksite, payment of royalty, all taxes etc. all complete as per PWD specification and direction of the Engineer in charge.   | cum  | 5.76   | 5,639.00 | 32480.64     |
| 77      | Supplying all materials, labour, T&P and providing 12mm thick cement plaster (1:3) on brick work including watering, curing, cost of all materials, conveyance of all materials to worksite, payment of royalty, all taxes etc. all complete as per PWD specification and direction of the Engineer-in-charge.   | sqm  | 39.30  | 186.40   | 7325.52      |
| 78      | Supplying all materials, labour, T&P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge   | sqm  | 16.17  | 35.90    | 580.50       |
| 79      | Supplying all materials labour T&P and fitting and fixing 12mm dia MS/CI step iron including supply of necessary CC(1:2:4) for fixing etc. complete as per PH specification.   | Each | 5.00   | 286.30   | 1431.50      |
| 80      | Supplying all materials, labour T&P for providing fitting & fixing 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:2:4) with 12mm size HG chips all complete including watering curing conveyance of all materials to work site payment of royalty all complete as per specification and direction of Engineer in charge.  | Each | 2.00   | 425.80   | 851.60       |
| 81      | Supplying all materials labor T&P filling sand in foundation and plinth with well watered and rammed etc all complete as per direction of Engineer-in-charge.  | cum  | 4.00   | 592.60   | 2370.40      |
| 82      | <b>Construction of 1nos production wells including scientific source finding through consolidated and unconsolidated rock with down the hammer drilling rig or combination rig with PVC pipe and installation of submersible pump set with all accessories</b>   |      |        |          |              |
| 83      | Construction of 1nos production wells including scientific source finding through consolidated and unconsolidated rock with down the hammer drilling rig or combination rig with PVC pipe and installation of submersible pump set with all accessories Labour for drilling a perfectly vertical bore hole of specified dia for a specified depth below ground level through consolidated and unconsolidated rock with down the hole hammer drilling rig or combination rig as required to suit the site condition as per the direction of the Engineer in charge including use of own rig with its accessories, tools and plant and consumables etc for lowering of 200mm/150mm dia G.I/P.V.C/M.S casing pipes for housing fitted with socket and with or without well screen as per the necessity for soft, medium, hard and boulder formation (G.I/ P.V.C/ M.S casing pipes if required to prevent collapse of overburden is to be provided by the contractor including lowering and withdrawing after completion of the tube well), 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only Drilling of 200mm dia bore |      |        |          |              |
|         | 00 mtr to 30mtr  | mtr  | 30.00  | 755.48   | 22664.40     |
| 84      | 30 mtr to 45mtr  | mtr  | 15.00  | 836.28   | 12544.20     |
| 85      | Drilling of 150mm dia bore 45 mtr to 215.00mtr   | mtr  | 170.00 | 554.49   | 94263.30     |
| 86      | Lowering the following size of G.I/P.V.C/M.S housing pipes with or without slotted pipes as per the necessity from ground level up to 45.00m depth and fitted and fixed up in perfectly vertical position including cutting and threading of pipes and slotted pipes and supplying and fixing all jointing materials, tools and plant etc all complete and keeping the top of casing pipe threaded including plugging tube wells to prevent entry of foreign materials. Lowering of 200mm dia P.V.C casing pipes   |      |        |          |              |
|         | 00 mtr to 30 mtrs  | mtr  | 30.00  | 138.20   | 4146.00      |
| 87      | 30 mtr to 60mtr  | mtr  | 15.00  | 138.20   | 2073.00      |

| Sl. No. | Description of items.  | Unit      | Qty           | Rate      | Amount in Rs          |
|---------|--|-----------|---------------|-----------|-----------------------|
| 88      | Supplying polyvinyl chloride pipes as per ASTM-D-1785-89 having threads in accordance with DIN 2999 part-1/DIN-42225 part-II specification length of pipe (laying length) will be 3 mtrs. The pipes shall be supplied with both external and threaded with free socket. The pipe having external thread at one end i.e female and or belled end. The female end having internal thread is to be belled in order to accept the male end while jointing pipes with a bore threading shall be provided with a greave at the roof of the male thread accomodate flexible PVC/Rubber 'O' ring to make the joint water tight colour of the pipe shall be blue. The name of the manufacture along with batch No class of pipe shall be stranded legibly of each pipe length.200mm dia PVC (sch-80) pipe | mtr       | 45.00         | 1,633.80  | 73521.00              |
| 89      | Supplying all materials, labour, T&P and providing and providing sanitary sealing by cement concrete grouting of annular space around GI/PVC/MS housing pipe upto 5m below ground level (as per drawing) to plug the bore hole excluding cost of cement all complete as per direction of the Engineer in charge. Minimum one metre of casing pipe to be inserted in the bore into the rock at the bottom to ensure sanitary sealing (excluding cost of cement which will be supplied directly by the department)   | Each      | 1.00          | 789.80    | 789.80                |
| 90      | Cleaning and developing the tube well with supply of compressor worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of the Engineer in chargeBy DTH Rig  | Each      | 1.00          | 4,994.80  | 4994.80               |
| 91      | Supplying all materials, equipment, labour & conducting reconnaissance survey, integrated Hydrological and Geophysical (Electrical Resistivity Method) survey & selection of potential source for exploration of Ground Water including selection and recommendation of site for drilling wells in selected locations in any part of Orissa under the following Geological formation:Rocky terrain with boulder formation for 300m depth   | Each site | 2.00          | 1,122.11  | 2244.22               |
| 92      | Supplying all materials, labour, T&P and providing, fitting and fixing submersible pump with squirrel cage induction type submersible type submersible electric motor to run on 3 phase/1 phase line voltage ranging from 320 volt to 450 volt conforming to IS: 8034/89 with following specifications with suitable control panel, jointing with GI/PVC/HDPE pipes, electrification, testing, commissioning, trial running, conveyance of all materials to worksite, payment of taxes etc all complete as per specification and direction of the Engineer in charge (Texmo/Crompton Greaves/Kirloskar make)   |           |               |           |                       |
|         | 1 H.P. Single phase/ three phase 3 stage head range of 20 to 35 mtr with discharge capacity 145 to 110 L.P.M With outlet dia 25 mm (keeping 100% standby)  | Each      | 1.00          | 16,737.20 | 16737.20              |
| 93      | DOL Control panel  | Each      | 1.00          | 3,805.50  | 3805.50               |
| 94      | 40mm dia steel short piece   | Each      | 1.00          | 152.30    | 152.30                |
| 95      | Well cap   | Each      | 1.00          | 152.30    | 152.30                |
| 96      | 50mm size CI bracket   | Pair      | 1.00          | 91.30     | 91.30                 |
| 97      | 2.50sqmm flat cable  | Mtr       | 120.00        | 128.50    | 15420.00              |
| 98      | 20mm dia rigid UPVC pipes  | Mtr       | 45.00         | 6.90      | 310.50                |
| 99      | Steel rope with cover  | Mtr       | 45.00         | 26.70     | 1201.50               |
| 100     | Labour charges for lowering including transportation   | Each      | 1.00          | 2,000.00  | 2000.00               |
| 101     | Supplying all materials, labour, T&P and providing and fixing to wall or ceiling and floor HDPE pipes and pipe fittings conforming to IS: 4984/2000 (10kgf/sqcm) of the following nominal bore with clamps and jointing by Fusion welding method including testing, making good the wall, ceiling and floor all complete as per specification and direction of the Engineer in charge32mm HDPE pipes (Finolex/Supreme make)  | mtr       | 90.00         | 99.80     | 8982.00               |
|         | <b>Total PH &amp; Sanitary works=</b>  |           |               |           | <b>1484963.00</b>     |
|         | <b>Gross Total (Civil+ Elect+ PH) works=</b>   |           | <b>Total:</b> |           | <b>1,65,01,745.00</b> |