



Name of work: Construction of Core Store Shed including Electrical work at GMDC Copper Project, Ambaji, Dist. Banaskantha Gujarat

PRICE BID

Sr. No.	Item Description	Qty	Unit	Rate	Amount
A	Part-1				
1	Earthwork in excavation by mechanical means (All type of soil, hard murrum, hard rock etc.) for foundation, footings, walls, retaining walls, rafts, trenches, drains, lift pits, underground sumps, tank, septic tanks, soak well, Box cutting etc. including dewatering the sub-soil water from any source and rain water to keep the excavation dry, removal of slush, dressing of sides and ramming of bottoms, planking, shoring & strutting, removal & disposal of surplus excavated material with all lead & lift. including compaction by using mechanical plate compactor / vibro roller, finished to desire levels all as per excavation plan and foundation drawings to get Modified Proctor Density test (MPD) of 95%., work including mechanical transport inclusive of royalty, statutory fees all permissions & any other incidental expenses etc. complete. i) Up to 1.5 Mtr Depth	405.00	Cu.mt.	0.00	0.00
2	Earthwork in excavation by mechanical means (All type of soil) for foundation, footings, walls, retaining walls, rafts, trenches, drains, lift pits, underground sumps, tank, septic tanks, soak well, Box cutting etc. including dewatering the sub-soil water from any source and rain water to keep the excavation dry, removal of slush, dressing of sides and ramming of bottoms, planking, shoring & strutting, removal & disposal of surplus excavated material with all lead & lift. including compaction by using mechanical plate compactor / vibro roller, finished to desire levels all as per excavation plan and foundation drawings to get Modified Proctor Density test (MPD) of 95%., work including mechanical transport inclusive of royalty, statutory fees all permissions & any other incidental expenses etc. complete. ii) 1.5 to 3.0 Mtr Depth	57.00	Cu.mt.	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
3	Filling available excavated earth in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering. Rate to include cost of compaction to achieve at least 95% Proctor Density of refilled excavated earth. Work shall complete as per the instruction of EIC. work complete including all type of tools, tackles, scaffolding, safety measures, loading, unloading, transportation, at all floors, all heights, all levels etc complete as per instruction of Architect/EIC.	264.00	Cu.mt.	0.00	0.00
4	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete. work complete including all type of tools, tackles, scaffolding, safety measures, loading, unloading, transportation, at all floors, all heights, all levels etc complete as per instruction of Architect/EIC.	295.00	Cu.mt.	0.00	0.00
5	Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete. work complete including all type of tools, tackles, scaffolding, safety measures, loading, unloading, transportation, at all floors, all heights, all levels etc. All complete as per instruction of Architect/EIC.	50.00	Cu.mt	0.00	0.00
6	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete. including mixing laying, vibrating, consolidating, leveling and curing etc. complete with all labours and materials with formwork. The item includes finishing the top surface with trowel. Work complete including all type of tools, tackles, labours, formwork, safety measures, loading, unloading, transportation, at all floors, all heights, all levels etc complete as per instruction of Architect/EIC. (A) Foundation and Plinth	67.00	Cu.mt.	0.00	0.00
7	Providing and laying cement concrete 1:3:6 (1- Cement : 3- coarse sand : 6- hand broken stone aggregates 40 mm nominal size) and curing complete including mixing laying, vibrating, consolidating, leveling and curing etc. complete with all labours and materials with formwork. The item includes finishing the top surface with trowel. Work complete including all type of tools, tackles, labours, formwork, safety measures, loading, unloading, transportation, at all floors, all heights, all levels etc complete as per instruction of Architect/EIC. (A) Foundation and Plinth	45.00	Cu.mt	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
8	Providing and laying controlled cement concrete M.250 and curing complete. including mixing laying, vibrating, consolidating, leveling and curing etc. complete with all labours and materials with formwork. The item includes finishing the top surface with trowel, necessary admixtures etc. Work complete including all type of tools, tackles, labours, formwork, safety measures, loading, unloading, transportation, at all floors, all heights, all levels, all leads and lifts etc complete as per instruction of Architect/EIC. (excluding the cost of reinforcement) (A) Foundations, footings, Base of columns and Mass concrete.	44.00	Cu.mt	0.00	0.00
9	Providing and laying controlled cement concrete M.250 and curing complete. including mixing laying, vibrating, consolidating, leveling and curing etc. complete with all labours and materials with formwork. The item includes finishing the top surface with trowel, necessary admixtures etc. Work complete including all type of tools, tackles, labours, formwork, safety measures, loading, unloading, transportation, at all floors, all heights, all levels, all leads and lifts etc complete as per instruction of Architect/EIC. (excluding the cost of reinforcement) (C) Slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level.	117.00	Cu.mt	0.00	0.00
10	Providing and laying controlled cement concrete M.250 and curing complete. including mixing laying, vibrating, consolidating, leveling and curing etc. complete with all labours and materials with formwork. The item includes finishing the top surface with trowel, necessary admixtures etc. Work complete including all type of tools, tackles, labours, formwork, safety measures, loading, unloading, transportation, at all floors, all heights, all levels, all leads and lifts etc complete as per instruction of Architect/EIC. (excluding the cost of reinforcement) (D) Columns, Pillars posts and struts, upto floor two level.	9.00	Cu.mt	0.00	0.00
11	TMT Bars: Providing, straightening, cutting, bending, binding and laying in position of TMT FE 500/500D grade steel reinforcement confirming to IS 1786 : 1990 or latest code, to correct all shape and size as per detailed drawings, specifications for all RCC work etc, at all levels and all heights with necessary chairs and laps; with correct size PVC cover blocks or approved quality concrete cover blocks of same grade of concrete and binding wire of 18 gauge etc. complete with test certificate of the steel bars from manufactures as well as approved laboratory test certificates directed by Engineer in charge, etc. complete. Rate shall be inclusive of binding wire, cover, lap, chair etc. Work shall complete up to any levels, all floor & as per the instruction of EIC.	15193.00	Kg	0.00	0.00

PRICE BID					
Sr. No.	Item Description	Qty	Unit	Rate	Amount
12	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./sq.cm. in foundation and plinth in cement mortar 1:5 (1-cement : 5-fine sand)., including brick work in superstructure above plinth level up to floor two level (A) Conventional	97.00	Cu.mt.	0.00	0.00
13	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) including finishing with a floating coat of neat cement slurry.	5.00	Sq.mt	0.00	0.00
14	20 mm thick Sand Faced Plaster: Providing and applying 20mm thick sand faced plaster (Using Wooden Gutka/Float) to all external surfaces at all levels and in any shape, in two coats, 12 mm thick average base coat in cement mortar 1:5 and 8mm thick finish coat in cement mortar 1:2 using fine sand for finish coat, including preparation of surface to uniform texture, staging, double scaffolding, curing, chicken mesh at the junction of masonry & RCC work using screw / dhoba nails, making moulded, grooves, drip moulds, tapak etc., complete as per specification and as directed by the EIC. including all type of material, labour, tools, tackles, scaffolding, safety measures, loading, unloading, transportation, at all floors, all heights, all levels, all leads and lifts etc complete as per instruction of Architect/EIC.	59.00	Sq.mt	0.00	0.00
15	Exterior Paint : Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete. including all type of material, labour, tools, tackles, scaffolding, safety measures, loading, unloading, transportation, at all floors, all heights, all levels, all leads and lifts etc complete as per instruction of Architect/EIC.	54.00	Sq.mt	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
16	<p>Carring out plinth treatment to post construction / existing structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131_paret-II Consentrarion Weight one percent is recommended i.e one litre 20 EC chemical emulsion with 19 liter give 1 % concnentrarion inclusive of one litre chemical emulsion appication at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S.</p> <p>The whole work is to be executed through specialized agency with a guarantee of 5 (Five) years given on a prescribed proforma duly stamped. The termite control treatment work 10% will be retained from the billing amount for 5 years (without interest). The amount shall be refunded after Five years without interest. work complete including all type of tools , tackles, scaffolding, safety measures etc complete at any level and height. work complete as per the instnuction of EIC/Architect. Including cost of all type of tools, tackles, all labour, materials, scaffolding, safety measures, loading, unloading, transportation, cleaning, at all floor, all level, all depth, all Height, all lead and lift etc. complete as per instruction of Architect/EIC. work complete as per the detailed drawing, approved sample, specifications and instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.</p>	650.00	Sq.mt	0.00	0.00
17	<p>Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. Work complete including all type of tools, tackles, scaffolding, safety measures, loading, unloading, transportation, at all floors, all heights, all levels etc complete as per instruction of Architect/EIC. (A) 25mm thick.</p>	664.00	Sq.mt.	0.00	0.00
18	<p>Providing and laying polished kota stone slab 25mm thick in risers of steps, skirting Dado, pillars, Shelves laid on 10mm thick cement mortar 1:3 (1-Cement : 3 coarse sand) and jointed with gray cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. Work complete including all type of tools, tackles, scaffolding, safety measures, loading, unloading, transportation, at all floors, all heights, all levels etc complete as per instruction of Architect/EIC.</p>	3.00	Sq.mt.	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
19	Ventilation : Providing and fixing standard extruded of alluminium section of size 63 mm x 38.10 mm x 1.2 mm (jindal section : 2434 @ wt. 0.643 kg per mt with powder coated alluminium frame for ventilation with 5 mm thick frosted glass as details & provision of exhaust fan. work completed including mock up sample, all materials, loading, unloading, transportation, placing at all floors and for all leads, at all floors, all levels, all heights and all shapes, all accessorie, protection sheet etc. work complete as per the detailed drawing, approved sample and instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.	11.00	Sq.mt.	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
20	<p>Shed : Design, supply, erection and Installation of GI roofing & vertical sheeting as per approved shop drawing by Architect.</p> <p>1. Frame Type : TCMS-1 2. Width (O/O of Steel Line) : @42.85 Mtr 3. Length (O/O of Steel Line) :17.46 Mtr 4. Clear Heights: 4.038 Mtr</p> <p>5. Width Module :1@20.525m O/C + 1@20.525m C/O 6. Slope of Roof :1:10 7. Sidewall Bay Spacing :1@7.830m O/C + 1@7.830m C/O 8. End wall column spacing :1@6.841m O/C + 4@6.842m C/C + 1@6.841m C/O 9. Type of End Frames :Non-Expandable light End frames</p> <p>10. Bracing Type :X-Rod Bracing 11. Roof Sheeting :Profile Sheet- 0.50 mm PPGL 12. Wall Cladding :Profile Sheet- 0.50 mm PPGL 13. Right Sidewall :Full height Sheeted 14. Left Sidewall :Full height Sheeted 15. Front Endwall :Full height Sheeted 16. Back Endwall :Full height Sheeted 17. Type of Gutter & Downspout Material same as wall sheeting colour & Downspout 18. Building Condition Enclosed 19. Building Base Pinned Base .</p> <p>ROOF ACCESSORIES • Skylight (Roof) : 2 mm Thick Polycarbonate Sheet Translucent as per drawing • Insulation (Roof+ Wall) : NA</p> <p>WALL ACCESSORIES 1. Canopy (with Soffit) 0.90 Mtr Projection 2. Framed Openings : 1 No's RS= 1.5 mt x 2.1 mt , 2 Nos-D= 1.5 mt x 2.1 mt , 8 Nos V = 1.2 mt x 0.6 mt 3. Cage Ladders :1 No's Consider 4. Wall light : NA CRANE DETAILS : Only Crane Bracket Consider</p> <p>Surface Preparation : Primary Members :Sand Blasting Factory Applied One Coat of Epoxy Paint of 90–100-micron DFT (Touch up at site as required) Secondary Members (Purlins & Girts) 120 GSM Pre – Galvanized (C & Z Purlin) Anchor Bolts - Black Steel</p> <p>B. DESIGN LOAD & DEFLECTION CRITERIA DESIGN LOADS</p> <p>1 Live Load (KN / m2) 0.57 kn/sqm 2. Wind Speed (m / s) 47 m/s 3. Dead Load 0.10 kn/sqm 4. Seismic Zone III 5. Roof Collateral load NA 6. Minimum Thickness Criteria Primary = 5 mm Secondary = 1.5 mm 7. Building Condition Enclosed</p> <p>B.1 Applicable Design Codes Loads are applied in accordance with: Wind Load application as per IS 875 Part III-2015, Design According to AISC -360-2010(ASD) and Serviceability according to MBMA 2012. Seismic design as per IS 1893 (Part-1):2002 & IS 1893 (Part-4):2005</p> <p>Hot rolled and Built up sections are designed in accordance with: Manual of Steel Construction, 9th Edition American Institute of Steel Construction (AISC) Built-up tapered solid web sections are designed in accordance with: Manual of Steel Construction, 9th Edition American Institute of Steel Construction (AISC) Cold-formed members are designed in accordance with: IS 801-1975 Welding is applied in accordance with: American Welding Society (AWS D1.1.10) Structural Welding Code– Steel</p> <p>SPECIAL NOTES AND INCLUSIONS : 1. Rigid frame structural for columns, rafters with endplates, purlins, girts, Bracing. 2. All necessary flashing, trims, Eave Gutter and down take pipe. 3. Structural Hardware, End lap sealant. 4. Anchor bolts and templates .</p> <p>Work including Ridege cover, valleys, gutter, overlapping, jointing, riveting, bolting, clamping, Anchor Fasteners with hot dipped galvanized, high strength bolts, EPDM washer, necessary tools, tackles, Scaffolding, Hydra, any type of Machinery & Equipments, fittings, fixtures, Adhesive, sealant,grouting,labour, drilling, gutter, corner profile, including all accessories etc. completed as per approved drawing. The contractor shall submit works stability certificate after execution of work. Contractor shall submit shop drawing & load calculation for approval of Architect. Roof plan Area shall be measured for payment.</p>	750.00	Sq.mt.	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
21	<p>Turbo Ventilator with PC Base : Providing and fixing 610 mm dia Automatic grade Turbo Air Ventilator as per approved material by Architect/Client. Thickness minimum 0.5mm thick, Material: Aluminium. The Connecting assembly shall have high quality permanently lubricated and sealed ZZ- steel ball bearings. The bearings shall not be exposed to dust etc. It shall be ensured that the ventilator head is perpendicular to the ground. Including cost of all type of tools, tackles, scaffolding, all labour, materials, transportation, Finishing, all type of fabrication & steel work with paint, accessories , silicon sealent ,. Work complete for at all floor, all level, all depth, all Height, all lead and lift etc. work complete as per the Detailed specification, shop drawing , approved sample, instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.</p>	8.00	Nos	0.00	0.00
22	<p>Storage rack (500 mm depth) : Providing & laying of interlocking cement block of size 0.23 m x 0.23 m x 0.10 m thick or brick masonry work (0.23 m thickness) in CM1:6 having strength not less than 35kg/cm2 including materials & labour, line, level & proper jointing with plastering for a finished surface look using cement mortar. Providing & laying of RCC slab (50mm thick) OR polished Bansipurpahar stone (30mm thick) of size 1.5mx0.5m including finishing with cement mortar complete. including 15mm thick cement plaster in single coat in Cement mortar 1:4 (1-cement :4-sand) including finishing with a floating coat of neat cement slurry. including painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth. including lintel, top beam/sill etc. work completed including mock up sample, all materials, loading, unloading, transportation, placing at all floors and for all leads, at all floors, all levels, all heights and all shapes, all accessorie, protection sheet etc. work complete as per the detailed drawing, approved sample and instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.</p>	1656.00	Sq.mt	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
23	<p>G.I. Rolling Shutter Gear Type: Providing and fixing flat rolling shutters of approved make made of 80 mm wide M.S. laths inter-locked together through their entire length and jointed together at the ends by end locks mounted on specially designed pipe shaft with bracket plates, guide channels and arrangements for inside and outside locking with push-pull operation including the cost of hood cover and spring etc. complete. including Bearing Gear set system Operating, The suspension shaft in Bearing Bush, etc. complete. work completed including mock up sample, all materials, loading, unloading, transportation, placing at all floors and for all leads, at all floors, all levels, all heights and all shapes, all accessorie etc. work complete as per the detailed drawing, approved sample and instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.</p>	8.00	Sq.mt	0.00	0.00
24	<p>MS Fabricated Door: Providing Fabrication & erection 3 mm thick M.S. sheet/plate door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces. including CNC cutting/Engraving as per reference image given by Architect. The work includig necessary fabrication work, fittings, fixtures, accessories, pivot, door, handle, lock etc complete. finish with Anti corrosive paint with primer as per approved shade by Architect. The scope includes loading, transportation, unloading and delivery and erection site of all fabricated structures, alignment and welding of all structures true to line, level, plumb and dimension. sample mock shall be approved from Architect/EIC. Shop drawing shall be provided by Contractor. work completed including mock up sample, all materials, loading, unloading, transportation, placing at all floors and for all leads, at all floors, all levels, all heights and all shapes, all accessorie, protection sheet etc. work complete as per the detailed drawing, approved sample and instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.</p>	4.00	Sq.mt	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
25	Fabricated work: Providing Fabrication & erection of steel structure as per drawings including materials, consisting of plates, rolled steel joists, channels, angles, chequered plates etc and also rectangular / square hollow steel sections, insert plates in RCC/Brickwork, anchor bolts for steel structure, sleeve pipes, anchor nuts, washers etc, straightening of raw steel if required, fabrication of steel structures with primer and minimum two coats of anti corrosive matt finish paint including preparation of supplementary sketches and detailed bill of materials supply of bolts, nuts, washers, shims, packs, putty. gas, welding electrodes and all other consumables, as required and carrying out surface preparation all complete. The scope includes loading, transportation ,unloading and delivery and erection site of all fabricated structures,, alignment and welding of all structures true to line, level, plumb and dimension, including rectification if any, splicing, site assembly all as per technical specifications and drawings, all complete.Contactork shall provide stability certificate for the fabrication structure. Rate inclusive of shop drawing.	119.00	KG	0.00	0.00

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26	<p>PANELS: Providing & erecting weather proof, dust & vermin proof, floor mounted front operated outdoor type double door cubical panel board necessary IP-54 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S. sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory. Supply, Installation, Testing & Commissioning of Lighting & Power Panel as per SLD & Specification</p> <p>Incomer : 80A FP MCCB, 15KA with Indication Lamp, Ammeter, CT., Busbar : 80A FP Aluminium Busbar, 15KA., Outgoing : 40A FP MCB, 10KA - 8 nos. 40A DP MCB, 10KA - 4 nos</p>	1.00	Ea	0.00	0.00
27	<p>Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories. CAT III</p>	15.00	Nos	0.00	0.00

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28	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. For 6A Plug with 2-1.5 sq.mm Cu. Wire with medium class Rigid PVC pipe and accessories CAT III	15.00	Pt	0.00	0.00
29	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[III] For 16A Plug with 2-2.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories.CAT-III	2.00	Pt	0.00	0.00
30	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm (green) earthing wire from mcb d b board. (a) with medium class Rigid PVC pipe and accessories.CAT-III	8.00	Pt	0.00	0.00
31	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (B) 2 wire 2.5 sq. mm	6000.00	Mtr	0.00	0.00
32	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. (a) with medium class Rigid PVC pipe and accessories (A) 2 wire 4 sq. mm	500.00	Mtr	0.00	0.00

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Sr. No.	Item Description	Qty	Unit	Rate	Amount
33	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI). (b) sheet steel double door. (iii)8 way	3.00	Ea	0.00	0.00
34	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III	54.00	EA	0.00	0.00
35	Providing & erecting 415V MCB Four Pole Switch for Lighting Load (B curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp. Cat.III	3.00	Ea	0.00	0.00
36	Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on single phase 240 V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 40 Amps.DP Cat. III	9.00	Ea	0.00	0.00
37	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. (D) 3 1/2 core 70 Sq. mm (35 Sq. mm 1/2 core)	100.00	Mtr	0.00	0.00
38	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. (A) 4 core 16 Sq. mm	100.00	Mtr.	0.00	0.00
39	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand / Solid Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables. (B) 4 core 4 Sq. mm	200.00	Mtr.	0.00	0.00
40	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (A) 2 to 4 core 2.5 / 4 Sq. mm	10.00	Ea.	0.00	0.00
41	(D) 2 to 4 core 16 Sq. mm	6.00	Ea.	0.00	0.00

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42	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (C) 3 & 1/2 core 70 Sq. mm	2.00	Ea.	0.00	0.00
43	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/ 2.5/4/6 Sq.mm	40.00	Ea.	0.00	0.00
44	(C) 16/25 Sq.mm.	24.00	Ea.	0.00	0.00
45	(E) 70 Sq.mm.	8.00	Ea.	0.00	0.00
46	Providing and fixing approved make Ladder type cable tray. Made from M.S sheet. The cable tray should be bended as per IS 2062/1079 shall be fabricated of double bended channel section longitudinal members with single bended Channel section. Rungs of members welded to the base of the longitudinal members at 250 mm c/c spacing . as per IS and shall be coated with hot dip galvanizing as per IS 2629/4759. with coupler plate / Fish plate and GI hardware like nut - bolt and washers etc. erected on existing support as per Specification and as per instruction of engineer in charge. (10) 300 X 100 X 2.0 mm Thick	50.00	Mtr.	0.00	0.00
47	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	1200.00	Mtr.	0.00	0.00
48	Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 SWG.	50.00	KG	0.00	0.00
49	Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp.	30.00	KG	0.00	0.00

PRICE BID					
Sr. No.	Item Description	Qty	Unit	Rate	Amount
50	<p>Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate including value of earth resistane of installation. [B] For Electrical installation up to 11 KV located in other than normal soil i.e. Soft Rock, Marshy Soil etc.</p> <p>-Length of Pipe : 2 mtr -Back filling Compound :1 no. Bag of 25 Kg.</p>	2.00	Ea	0.00	0.00
Total Amount					0.00
B	Part-2				
51	<p>Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V,Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K,Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (B) Flood Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (iii) Above 60 to 90 watts Cat-III</p>	64.00	NOS	0.00	0.00

PRICE BID					
Sr. No.	Item Description	Qty	Unit	Rate	Amount
52	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V,Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K,Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (B) Flood Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection.(v) above 120 to 160 watts Cat-III	6.00	NOS	0.00	0.00
53	Supplying and erecting approved make oscillating type medium duty bracket fan with Aluminium Blades A.C. 230V. 50cy/s, with thermal overload protection wall mounted with height adjustment and rotary tilting device complete with guard, pull cord for speed and oscillation flexible Core plug top complete erected with lead wires as directed. (a) 450mm	2.00	NOS	0.00	0.00
54	4 Megapixel Bullet Camera PS CMOS Image Sensor (0.9407 centimeters), Max. 25fps@1080P, Ultra 265, H.265, H.264 Dual-stream encoding, WDR(120dB), Day/Night (ICR), 2D/3D-DNR, Digital Defog, 9:16 Corridor Mode, ROI, AWB, AGC, BLC, 2.8~12mm Motorized lens, IR Range of 40 Mtrs, Smart IR, Micro SD Card, IP67, IK10, PoE, Support Instastream technology, save disk space and bandwidth upto 70%, Mobile Software: Android, iOS, CMS Software: IVMS. Make : CP Plus or equivalent.	12.00	Ea.	0.00	0.00
55	Supports HDCVI/AHD/TVI/CVBS/IP video inputs, AI Instastream/ Instastream/ H.265 dual-stream video compression, Max 16 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth, Up to 4 channels video stream (analog channel) Perimeter Protection, Up to 8 channels video stream (analog channel) SMD Plus, Up to 2 channels video stream (analog channel) human face recognition, Support 8 SATA HDDs up to 16TB Each, 4 USB Ports 2 HDMI / 1 VGA / 1 TV simultaneous video output., Mobile Software: iCMOB, gCMOB, CMS Software: KVMS Pro. Make : CP Plus or equivalent.	1.00	Ea.	0.00	0.00

PRICE BID					
Sr. No.	Item Description	Qty	Unit	Rate	Amount
56	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [D] CAT - 6e (For LAN, Telephone & Camera).	1200.00	Mtr	0.00	0.00
57	SITC of company fabricated patch cords shall conform to Cat- 6 & conductor shall be stranded for better flexibility Shall support network line speeds up to 1 Gbps Shall have RJ-45 jacks. (C) 3 Mtr	24.00	Ea.	0.00	0.00
58	SITC of Jack Panel, fully loaded with 24 nos. UTP ports for PCB based IO Jacks (RJ45, TIA-568C Category-6, Installation and Termination of all 24 nos. Category-6 UTP , unloaded with individually replaceable 24 nos. Category-6 I/O Jacks complying with TIA-568.C.2, as per given jack specification Shall be suitable for loading unshielded & shielded jacks for different category systems (CAT 6 & CAT 6A)	1.00	Ea.	0.00	0.00
59	SITC of 24 x 10/100/1000BASE-T PoE ports 4 x Gigabit RJ45/SFP Combo ports Advanced L2 switching and security features L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface 193 W PoE budget	1.00	Ea.	0.00	0.00
60	Providing & Erecting Network rack with following capacity with Necessary cooling fan,Cable manager,6A PDU,equipment rack with necessary mounting accessories. (C) 4U	1.00	Ea.	0.00	0.00
61	Providing & Fixing of fire extinguishers with necessary accessories, stand, trolley, etc., ISI Marked portable fire extinguisher, 4.5 kg CO2 type fire extinguishers complete in all respect including initial fill and wall suspension brackets & shall conform to IS 2878	6.00	Each	0.00	0.00
62	Providing & Fixing of fire extinguishers with necessary accessories, stand, trolley, etc., ISI marked Fire Extinguisher, Dry Chemical powder type capacity 6 kgs conforming to IS : 2171 including first fill & wall suspension bracket.	6.00	Each	0.00	0.00
Total Amount					0.00

Sr. no.	Summary Sheet				Amount
A	Sub Total : Part - 1				0.00
B	Sub Total : Part - 2				0.00
Grand Total Amount (Rs.)					0.00

GST Extra as per Govt. Norms