



Renovation of External Façade work with Curtain glazing (SGU) , Dry wall cladding , Alluminium fins , Monorail cleaning system , Facade lighting & Minor finishing work for Existing Corporate Office Building (G+8th floor) Of GMDC, Vastrapur, Ahmedabad, Gujarat

PRICE BID

Sr. No.	Item Description	QTY	Unit	Rate	Amount
A	Part - 1				
1	<p>Dry wall cladding 1 : Supply , Installation, Testing & Commissioning of Dry wall cladding system as per approved make & sample approved by Architect/ Client. Tile Size: 600mm x 1200mm x 9 mm thick of royal ferrous copper finish Sunheart, Motto or equivalent make as per approved sample by Architect/Client. Framing details : Vertical aluminum L clamp 6063 T6 50mmX50mmX3mm Vertical aluminum T channel 6063 T6 profile 62mmX50mmX 2-3mm fixed with SS 316 nut bolt & washer, Revet & self screw, Silicon,High pressure tap SS 316 Anchor fasteners : Hilti, Fischer,& Wuerth brand or equivalent. Tile fixed on T channel with approved adhesive & 1.2mm thick 2 sides adhesive tape & necessary groove filled with silicon sealent. All work as per wind pressure IS 875 (part - 3 Code) and as per seismic zone 3. All structural calculations & reports regarding substructure would be furnished with shop drawings, considering with stand wind pressure as per IS 875 (part - 3 Code) and as per seismic zone 3. Work including all necessary hardware & Labour etc. work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client. Basic rate of tiles is Rs. 60/Sq.ft</p>	1260.00	Sq.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
2	<p>Dry wall cladding 2 : Supply , Installation, Testing & Commissioning of Dry wall cladding system as per approved make & sample approved by Architect/ Client.</p> <p>Tile Size: 600mm x 1200mm x 9 mm thick of Britistone light (Rustic finish) Somany or equivalent make as per approved sample by Architect/Client.</p> <p>Framing details :</p> <p>Vertical aluminum L clamp 6063 T6 50mmX50mmX3mm</p> <p>Vertical aluminum T channel 6063 T6 profile 62mmX50mmX 2-3mm</p> <p>fixed with SS 316 nut bolt & washer, Revet & self screw, Silicon,High pressure tap</p> <p>SS 316 Anchor fasteners : Hilti, Fischer,& Wuerth brand or equivalent.</p> <p>Tile fixed on T channel with approved adhesive & 1.2mm thick 2 sides adhesive tape & necessary groove filled with silicon sealent.</p> <p>All work as per wind pressure IS 875 (part - 3 Code) and as per seismic zone 3.</p> <p>All structural calculations & reports regarding substructure would be furnished with shop drawings, considering with stand wind pressure as per IS 875 (part - 3 Code) and as per seismic zone 3.</p> <p>Work including all necessary hardware & Labour etc.</p> <p>work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client. Basic rate of tiles is Rs. 44/ Sq.ft</p>	6603.00	Sq.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
3	<p>Cap Curtain Glazing : Designing the Curtain wall as per design intent, preparation of shop drawings for approval, supply, fabricate, erect as per approved shop drawings at all floor levels and all floor heights including conducting field test as per the test criteria set out in the Particular specification.</p> <p>Design, Fabrication, Supply, Installation & Handover of cap curtain wall full glazing system. Design Curtain wall full glazing system to any shape and profile to with stand a design wind pressure of 150 Kg/sqm (Test pressure shall be 1.5 times of the design wind pressure) conforming to IS 875 - Part-3 and Lateral forces as per IS 1893 (Latest Revision).The minimum mullion section 57 x 115 x 2.10mm, transom section 57 x 115 x 1.6mm, pressure plate section 53.50 x 10 x 2mm thick, cover cap section 57x 18.50 x 1.30mm, box tube-19x19 x 1.30mm, connector 38 x 38 x 3mm, sleeve 38 x 38 x 3mm with powder coating finish of 50-70 micron thickness as per approved shade by architect/client. EPDM gaskets, weather sealants of GE / Dow Corning make, baker rod,G.I. 0.8mm flushing two side (125mm wide). Bracketing system with MS hot dip galvanized brackets designed to accommodate three dimensional movements with pvc packing shims, hard pvc adopter, Anchor fastener, screw, washer nut & bolts. Including all necessary hardware & Labour etc. (System cost only). All aluminium extrusions shall be of 6063 TS 6 alloy confirming to ASTN B 221 of Aluka / Jindal / Gujarat Alluminium Extrusion as per approved make by Client / Architect.</p> <p>Work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.</p>	1903.00	Sq.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
4	<p>Curtain Glazing - Openable Shutters : (Width: 900mm x Height: 1200mm) Extra over on above item (3). Providing and fixing top hung open out (operable) vent accessories with heavy duty self balancing stainless steel friction hinges heavy duty with provision to hold open at 250 mm. Alu-6063-T6 alloy alu. outer section-59.95x41.20x1.70mm thick, shutter section-59.80x46.20x1.70mm thick & side box tube with powder coating finish of 50-70 micron thickness as per approved shade by architect/client.Cremone lock and handle with two point locking mechanism to keep the vent weather tight. With necessary screws and weather sealant applied at outside and inside of profile.Including all necessary hardware & Labour etc. (System Cost Only). All aluminium extrusions shall be of 6063 TS 6 alloy confirming to ASTN B 221 of Aluka / Jindal /Gujarat Alluminium Extrusion as per approved make by Client/ Architect. work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.</p>	118.00	Sq.mt	0.00	0.00
5	<p>SGU Glass : SITC of 6mm Thick SGU Toughened Glass of Saint Gobain ET125 6mm FT: Neutral shade as per approved sample by Architect/ Client. work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.</p>	1903.00	Sq.mt	0.00	0.00
6	<p>Elevation fins with light provision cover : Size : 100 x 300 : Design, Fabrication, supply, installation of Aluminium vertical fin with lighting provision cover section made out of 56.50x200 x 2.00 mm deep fixed to the Alum pressure plate section-53.43 x 11.30 x 2mm. The fin shall be made out of extruded Aluminium Alloy 6063-T5 grade & All the visible surfaces shall have Powder coating finish of 50-70 micron thickness as per approved shade by architect/client. Including all necessary hardware & Labour etc. All aluminium extrusions shall be of 6063 TS 6 alloy confirming to ASTN B 221 of Aluka / Jindal / Gujarat Alluminium Extrusion as per approved make by Client / Architect. work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.</p>	294.00	Rmt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
7	<p>Elevation fins without light provision: Size : 75 x 300 mm Design, Fabrication, supply, installation of Aluminium vertical fin with cover section made out of 56.50 x 200 x 2 mm deep fixed to the Alum pressure plate section-53.43x11.30x2mm. The fin shall be made out of extruded Aluminium Alloy 6063-T5 grade & All the visible surfaces shall have Powder coating finish of 50-70 micron thickness as per approved shade by architect/client. Including all necessary hardware & Labour etc. All aluminium extrusions shall be of 6063 TS 6 alloy confirming to ASTN B 221 of Aluka / Jindal / as per approved make by Client /Gujarat Alluminium Extrusion Architect.</p> <p>work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.</p>	930.00	Rmt	0.00	0.00
8	<p>Remove of existing glazing : Dismantling aluminium fixed glass glazing including framing as per instructed by Client / Architect. work including disposal of unserviceable material and stacking of serviceable material with in any lead as directed by Engineer-in-charge.</p> <p>work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.</p>	660.00	Sq.mt	0.00	0.00
9	<p>Scaffolding : Providing and fixing double scaffolding system (cup lock type) on the exterior side comprising with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin-charge .The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.</p> <p>work complete including all type of fittings, fixtures, all type of scaffolding, safety measures, all floor, all levels etc. complete as per drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.</p>	7500.00	Sq.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
10	<p>Scaffolding net : Providing and fixing Scaffolding net of required width made of high density Polyethylene UV stabilized knitted on warp knitting machines having density 100grams/sqm and shading coefficient minimum 75% around the construction site/ for vertical extension as per requirement including fastening/tying with building/scaffolding pipes or with any other fixtures etc. complete as per direction of Engineer-in-Charge.</p> <p>(One time payment shall be made for providing Scaffolding net from start of work till completion of work including shifting if any. The Scaffolding net shall be the property of the contractor on completion of the work)</p> <p>work complete including all type of fittings, fixtures, all type of scaffolding, safety measures, all floor, all levels etc. complete as per drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.</p>	7500.00	Sq.mt	0.00	0.00
11	<p>Fabricated work: Providing Fabrication & erection of steel (Steel grade yst 210) 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 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.Contactror shall provide stability certificate for the fabrication structure. Rate inclusive of shop drawing.</p>	3823.00	KG	0.00	0.00
12	<p>Demolition of brick work & stone masonry with any type of plaster, paint, skirting, dedo etc. including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. 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. (III) In cement mortar.</p>	9.00	Cu.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
13	Demolition of any type of R.C.C work with TMT bars, any type of plaster, paint, skirting, dedo etc. including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. 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. (I) R.C.C work.	4.00	Cu.mt	0.00	0.00
14	Dismantling all type of tiles flooring, or stone flooring laid in mortar, any type of flooring with mortar, waterproofing, including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. 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.	6.00	Sq.mt	0.00	0.00
15	Dismantling all type of wall tiles, dedo and any type of (stone/ tiles) clading laid in mortar, any type of flooring with mortar, waterproofing, including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. 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.	24.00	Sq.mt	0.00	0.00
16	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials. 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.	15.00	Sq.mt	0.00	0.00
17	Remove of existing Fabrication and steel structure including plates, rolled steel joists, channels, angles and all type of accessories etc. including stacking of the materials with all lead and lift. 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. work completed as per existing site conditions work complete as per the instruction of EIC.	500.00	Kg	0.00	0.00
18	Dismantling any type of doors, windows, ventilators etc. (wood of steel) shutters with chowkhats, architraves, holdfasts, any type of frame and other attachments etc complete and stacking them within all lead and lift. 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. (i) Not exceeding 3 Sq.M in area	4.00	Each	0.00	0.00

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19	Removal of existing Male toilet block sanitary fittings like wash basin w.c. pan, Indian and European type flushing tank, Urinal, all type of cock, accessories, basin counter etc. including stacking of the materials with all lead and lift. As per existing site conditions work complete as per the instruction of EIC. (Male Toilet)	1.00	Per toilet	0.00	0.00
20	Providing & laying any thick Brick Masonry work using common burnt clay building bricks having crushing strength not less than 35 Kg/Sq. Cm. at all levels in cement mortar 1:6 (1 cement :6 fine sand) - including proper filling of all masonry joints, curing 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. (II) Conventional brick work	12.00	Cu.mt	0.00	0.00
21	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.	142.00	Sq.mt	0.00	0.00
22	Providing and laying controlled cement concrete M.250 and curing complete including finishing smooth with, curing, safety measures etc. complete including the cost of form work but excluding the cost of reinforcement. 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. in (C) Slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever etc.	5.00	Cu.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
23	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.	578.00	Kg	0.00	0.00
24	Artificial Stone sill on External wall (up to 250 mm width) : Providing & laying approved quality 15 mm thick Artificial stone work of approved shade (selected and sorted for its uniform colour and thickness)., in window sill etc. in required sizes and shapes, set with cement slurry (minimum 4.4 kg cement/sqm) including 35mm to 70 mm thick (Average thickness 50 mm) cement mortar bedding (thickness of mortar bedding to be decided as per requirement and as directed by EIC or his representative) in 1:6 laid and jointed with white cement and matching pigment including rubbing, re-polishing after fixing to remove any undulation between the joints (if required) with different grades of Emery, refilling of open joints, curing, daily cleaning and mopping, shall be done up to the satisfaction of the EIC (Only finished work will be measured.) etc. all complete as per approved sample by Architect, drawings and instruction of EIC. including 4 mm deep groove, at all floors, all levels, all heights and all shapes. The rate includes machine cut edges of uniform thickness and beveling and polishing of edges. The rate shall be inclusive of protecting the flooring by plaster of Paris applying and after completion of work remove or 4 mm thick protection sheet of Supreme make EPE+HM Blue .Basic rate of Artificial stone is Rs. 150/ Sqft.	4.00	Sqm	0.00	0.00
25	Fixed Glass Aluminium Window: Domal section : R40 mm series Supply & Fixing Fixed glass window Comprising from Domal section series R40 mm series with powder coated as per approved make & sample by Architect/EIC. Frame section: 40 x 39.4 x 1.25 mm Glass : 6mm Thick Toughened Glass of Saint Gobain ET125 6mm FT Neutral shade approved make list. including EPDM Gasket and All Necessary Hardware etc. complete as per detailed drawings, mock sample and specifications.	8.00	Sqm	0.00	0.00

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26	<p>Openable window: 40 mm Openable series Supply & Fixing of Aluminium openable window with powder coated as per by approved make & sample by architect/EIC. Frame section: 38.5 x 40 x 1.5 mm, (Banco - ART 1007929) Shutter section : 40 x 25 x 1.7 mm (Banco - ART 1007928) Glass: 6mm Thick Toughened Glass of Saint Gobain ET125 6mm FT Neutral shade Work including EPDM Gasket, Woolen In Shutter, Concealed Lock, Anti Rattling Guide, Lock Guide, handle Antilifting, Corner Clit, Shutter wing Connector, Interlock EPDM Gasket, Interlock Guide, Anti Capillary Pad, Bush Bottom silicon all side & All Necessary Hardware etc. complete as per detailed drawings, mock sample and specifications.</p>	8.00	Sqm	0.00	0.00
27	<p>ACP Roofing: Providing and fixing 4 mm thick ACP sheet (PVDF coating - 0.5 mm top layer) with necessary framing work, Colour/shade as approved by architect, Acp Section : 50mm x 25mm x 0.9mm@1.0kg. Spacer Tape : Spacer Tape 6mm x 6.4mm Screw : R.K (6x38),(8x13),(4x13), (75x10) wood screw, silicone sealant, including all type of fittings, accessories etc complete. Including cost of all type of tools, tackles, all labour, scaffolding etc. Including cost of all type of materials, transportation. Including cost of cleaning etc. Work complete for at all floor, all level, all depth, all Height, all lead and lift etc. work complete as per the shop drawing, approved sample, specifications and instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.</p>	13.00	Sq.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
28	<p>Metal wooden finish ceiling 84C : Providing and fixing wooden metal ceiling as per approved sample by Architect.</p> <p>Panel (Galvanized Steel): Metalium make 84C Panels are roll formed using state of the art roll forming lines to 84mm / 184wide, 12.5 mm deep & 0.5 mm TCT Galvanized Steel as per IS-513 with recessed flange of 24 mm. Panel length is up to approximate 4 mtr. Panel shall be Wooden Powder coated on external surface only. When two panels are to be joined, they shall be joined together by means of panel coupler suitable for 84C.Paint Detail:Wooden Powder coated panel shall be chromitized for maximum bond between metal and paint, enamelled twice under high temperature, one side with full primer and finish coat, the other side (Inner side) with a primer coating and skin coat on continuous paint line or Wooden Powder coated panel shall be 50 microns thick on exposed surface.Installation detail: The carrier shall be suspended from slab / truss by 4mm dia galvanized rod & height adjustment powder coated spring steel clips at maximum 1.2 to 1.5 meter centre to centre. The 4mm dia galvanized rod shall be fixed to slab by forming one end "J" shape with roll inserts.Carrier 84-C: Carrier shall be 20mm wide at bottom and 39 mm deep with cutouts to hold the panel in a module of 100mm / 200mm, carrier shall be roll formed out of 0.45 mm GI coil and cut to a standard length of the 2.4 mtr. When two or more carriers are to be joined, they shall be joined together by means of carrier coupler which will clip on to the holes in the sides of the cut carrier and hold them firmly in place while maintaining the module of 100mm / 200mmcentre to centre.Edge Profile: Edge profile shall be L-shaped, roll formed out of 0.5mm Galvanized steel strips with wooden powder Coating in standard colors.Rate shall be inclusive of all materials, loading, unloading, transportation, placing at all floors and for all leads, polishing and all accessories as described in item description.Rate shall inclusive cost of making of all cutouts for light fixtures, gadgets, gizmo, pelmets, grooves, beads and also provide support/template where ever required.The rate shall be in sq.mt for all floors and at all heights including all costs material and fittings, scaffolding.</p>	13.00	Sq.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
29	<p>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 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.Contactor shall provide stability certificate for the fabrication structure. Rate inclusive of shop drawing.</p>	408.00	KG	0.00	0.00
30	<p>Design, Fabrication, installation & commissioning Facade access system - Monorail façade cleaning systems</p> <p>Supply, installation, testing & commissioning of Aluminium Monorail System with cradel with all type of fittings , fixtures , loading , unloading , Hoisting, Assembly of Monorail Bracket , Alignment of Monorail etc complete as per approved sample by Architect/Client.</p> <p>Monorail System:</p> <ol style="list-style-type: none"> 1. Aluminium mill finish With Bending 2. Monorail Bracket AS PER DRAWING confirming to IS 2062 E250 Fe410 Hot dip galvanized - As per IS 2629 , approx 88 microns coating. 3.Anchor Bolt , 4. trolley for 2m cradle, WLL 2x 350 kg <p>CRADLE : 2 METER ROTATING CRADLE (SWL 240 Kg) : Height of lift: 40 m</p> <p>Unloading, Hoisting, Assembly of Monorail Bracket on roof Level , Unloading, Hoisting, Alignment of Monorail , Testing and Commissioning of Monorail System ,Design & Engineering cost for Acess System Work complete for at all floor, all level, all depth, all Height, all lead and lift etc.</p> <p>work complete as per the detailed drawing, approved sample, specifications and instruction of Architect/EIC.</p> <p>Sample mock shall be approved from Architect/EIC.</p>	1.00	Job	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
31	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	5.00	Pt	0.00	0.00
32	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	5.00	Pt	0.00	0.00
33	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 (a) 2 wire 1.5 sq. mm	100.00	Mtr	0.00	0.00
34	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	2500.00	Mtr	0.00	0.00
35	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	300.00	Mtr	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
36	<p>Supply, Installation, Testing & Commissioning of Anodized Aluminium Profile with Cutout width 50-55mm by Depth 35-40mm profile with Diffused PS/PMMA cover for Recess Mounting suitable for placing 2 parallel homogeneous Outdoor flexible SMD LED strip light with wattage not more than 15W/mtr per strip, LED Density should be equal to or more than 120 LED 5 Meter Reel, CCT 2700K, Efficacy should be more than 90 LPW, LED Strips should be Resin coated for additional protection and Thermo conductive adhesive 3M for safe installation on flat surface. Compatible with Non Integral Electrically isolated IP67 High efficiency electronic remote Constant Voltage 12/24VDC driver with rated input voltage of 240V, Power factor > 0.95 and THD < 10%, CRI 80, SDCM 3, Driver should have Inbuilt surge protection of more than 4KV, Miswiring Protection, Over voltage protection & Short circuit protection. LED Strip Should be IP66. Life should be 50000 B. hrs & Lumen maintenance as per L70. Diffuser should be of continuous length of minimum 50 metres..Dimension of Aluminium profile should be 50mmx35mm Suitable to parallel installation of LED Strips.</p> <p>Ref. Model - Lighting Technologies(LT) Make MAZE OUTDOOR STRIP & PROFILE or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	700.00	Mtr	0.00	0.00
37	<p>Supply, Installation, Testing & Commissioning of Anodized Aluminium Profile with Cutout width 50-55mm by Depth 35-40mm profile with Diffused PS/PMMA cover for Recess Mounting suitable for placing 2 parallel homogeneous Outdoor flexible SMD LED strip light with wattage not more than 15W/mtr per strip, LED Density should be equal to or more than 120 LED 5 Meter Reel, CCT 2700K, Efficacy should be more than 90 LPW, LED Strips should be Resin coated for additional protection and Thermo conductive adhesive 3M for safe installation on flat surface. Compatible with Non Integral Electrically isolated IP67 High efficiency electronic remote Constant Voltage 12/24VDC driver with rated input voltage of 240V, Power factor > 0.95 and THD < 10%, CRI 80, SDCM 3, Driver should have Inbuilt surge protection of more than 4KV, Miswiring Protection, Over voltage protection & Short circuit protection. LED Strip Should be IP66. Life should be 50000 B. hrs & Lumen maintenance as per L70. Diffuser should be of continuous length of minimum 50 metres..Dimension of Aluminium profile should be 50mmx35mm Suitable to parallel installation of LED Strips.</p> <p>Ref. Model - Lighting Technologies(LT) Make MAZE OUTDOOR STRIP & PROFILE or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	550.00	Mtr	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
38	<p>Supply, Installation, Testing & Commissioning of Anodized Aluminium Profile with Cutout width 50-55mm by Depth 35-40mm profile with Diffused PS/PMMA cover for Recess Mounting suitable for placing 2 parallel homogeneous Outdoor flexible SMD LED strip light with wattage not more than 15W/mtr per strip, LED Density should be equal to or more than 120 LED 5 Meter Reel, CCT 2700K, Efficacy should be more than 90 LPW, LED Strips should be Resin coated for additional protection and Thermo conductive adhesive 3M for safe installation on flat surface. Compatible with Non Integral Electrically isolated IP67 High efficiency electronic remote Constant Voltage 12/24VDC driver with rated input voltage of 240V, Power factor > 0.95 and THD < 10%, CRI 80, SDCM 3, Driver should have Inbuilt surge protection of more than 4KV, Miswiring Protection, Over voltage protection & Short circuit protection. LED Strip Should be IP66. Life should be 50000 B. hrs & Lumen maintenance as per L70. Diffuser should be of continuous length of minimum 50 metres..Dimension of Aluminium profile should be 50mmx35mm Suitable to parallel installation of LED Strips.</p> <p>Ref. Model - Lighting Technologies(LT) Make MAZE OUTDOOR STRIP & PROFILE or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	60.00	Mtr	0.00	0.00
39	<p>Supply, Installation, Testing & Commissioning of Anodized Aluminium Profile with Cutout width 22-25mm by Depth 20-25mm profile with Diffused PS/PMMA cover for Recess Mounting suitable for Outdoor flexible SMD LED strip light with wattage not more than 15W/mtr per strip, LED Density should be equal to or more than 120 LED considering 5 Meter Reel, CCT RGBW, Efficacy should be more than 40 LPW, LED Strips should be Resin coated for additional protection and Thermo conductive adhesive 3M for safe installation on flat surface. DMX Compatible with 4 Channel Decoder, Driver should be Non Integral Electrically isolated IP67 High efficiency electronic remote Constant Voltage 12/24VDC driver with rated input voltage of 240V, Power factor > 0.95 and THD < 10%, Driver should have Inbuilt surge protection of more than 4 KV, Miswiring Protection, Over voltage protection & Short circuit protection. LED Strip Should be IP65. Life should be 50000 B. hrs & Lumen maintenance as per L70. Width of Aluminium profile should be 20mm Suitable for linear installation of LED Strips.</p> <p>Ref. Model - Lighting Technologies(LT) Make MAZE OUTDOOR STRIP & PROFILE or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	300.00	Mtr	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
40	<p>Supply, Installation, Testing & Commissioning of Outdoor Architectural LED Linear Wall washer with System wattage not more than 40W, System efficacy>45LPW (±5%), CCT RGBWK, Single piece Housing made of Extruded Aluminium with Aluminium End caps ensuring optimum thermal management, Heat Resistant toughened Glass with Secondary PMMA lens with available Beam angle options 10,15,30,45,60, 10X30,10X60, 30X60 as per site requirement. Anti glare Visor to avoid direct glare. Ingress Protection should not be less than IP66. Impact Resistance should be IK08 or higher. Fixture Length 1200mm, Height & Width should be maximum 60mmx60mm or less. ±10% deviation in width & height is acceptable. Fixture should be supplied with Integral IP Rated high efficiency isolated constant voltage driver with Protection Class 1. Inbuilt Surge protection of 6KV+20KV additional SPD or More, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Fixture weight should 3.5KG (±10%). Suitable for mounting on surface with inbuilt brackets. Powder coating should be corrosion resistant Nano technology powder coating in Terra red colour. Fixture should have 5 Years warranty for complete system. Technical Data Sheet, Type test Certificate from In-House NABL accredited Lab should be submitted on request. Manufacturer emblem/logo should be embossed into the Aluminium housing/PDC End caps to allow identification of OEM & traceability till the life of the fixture. Luminaire should comply with Performance & safety standards IEC 60598/ IEC60950 , IEC 60529, IS 10322-5, IS 161-03/05/06/07, Surge : IEC 61000-4-5, EMC : EN 55015 Ref. Model - Lighting Technologies(LT) Make LINEAR WALLWASH INT 50 RGBW or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	6.00	Nos.	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
41	<p>Supply, Installation, Testing & Commissioning of Outdoor Architectural LED RGBW Circular projector Flood light with System wattage not more than 100W, System efficacy>50LPW (±5%), CCT RGBW, Housing should be PDC Aluminium alloy ensuring optimum thermal management , Optics should be clear with Secondary PMMA Lens delivering 15° Symmetric Beam angle. Cover should be Heat Resistance Toughened Glass cover, Inbuilt Hood for glare less lighting. Cradle mounting design for easily adjustable with precision tilt adjustment feature, Ingress Protection should not be less than IP66, Impact Resistance should be IK08 or more. Fixture height should not be less than 310mm (±15mm) with Normal horizontal tilt position. Snoot Dia should not be more than 240mm (±5mm) , Mounting Cradle should have at least 3 mounting holes for strong surface mounting. Fixture depth should not be more than 250mm (±20mm) including Anti glare Hood. Driver should be integral isolated constant current Driver. Total Inbuilt and Additional Surge protection of more than or equal to 20KV along with other necessary protections No Load protection, Over voltage protection, Short circuit protection. LED Life should be 50,000 B Hrs@L70 B10, THD should be less than 10% , PF>0.95, Operating voltage range 90-270V AC, Operating ambient Temp 0 to +50°C, Operating Humidity 10-90%. Fixture weight should not be less than 5.5KG (±10%) ensuring material & built quality. Powder coating should be corrosion resistant Nano technology powder coating in Silver grey colour. Standard factory fitted Power cable should have IP Rated onnector for Supply. Fixture should have 5 Years warranty for complete system. Manufacturer may have to submit Technical Data Sheet, Type test Certificate from In-House NABL accredited Lab should be submitted on request. Manufacturer/OEM emblem/logo should be embossed into the Aluminium housing to allow identification of OEM & traceability till the life of the fixture. Luminaire should comply with Performance & safety standards IEC 60598/ IEC60950 , IEC 60529, IS 10322-5, IS 161-03/05/06/07, Surge : IEC 61000-4-5, EMC : EN 55015 Ref. Model - Lighting Technologies(LT) Make CIRCULO or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	8.00	Nos.	0.00	0.00
42	<p>"Supply, Installation, Testing & Commissioning of Outdoor Architectural LED Surface mounted Color changing moving head beamer light with 330W X8 HRI Sirius Arc Lamp CCT: 8000K +300, Zoom range: 3°- 36°,12000 Lumen Output, Control Protocol: DMX, Art-Net, RDM, sACN Operating Voltage: 100-240V, 50/60 Hz, IP66 Ref. Model - Claypaky,Italy Make CD3200 Sharpy Plus Aqua or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics/Lighting Technologies(LT)"</p>	3.00	Nos.	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
43	<p>Supply, Installation, Testing & Commissioning, Programming of DMX Controller</p> <p>The Controller shall be capable of outputting DMX signals on upto 512 channels in one universe. The Controller shall be able to calculate sunrise and sunset times based on longitude and latitude information, and use these as triggers for events. The Controller shall have a capacity of 512 output control channels of either DMX512 with RDM or eDMX protocols, including Art-Net II, KiNet, sACN and Pathport. The Controller shall be able to output DMX512 and multiple eDMX protocols simultaneously, up to the output control channel limit. The Controller shall be able to output eDMX protocols on a different IP network to its management IP network. The Controller shall support a multi-mode full-duplex RS232/half-duplex RS485 serial port. The Controller shall be capable of receiving DMX512 for triggering. The Controller shall support 8 local inputs capable of digital, analogue or contact closure operating modes. The Controller shall support a MIDI input and a MIDI output interface for use in triggers and for MIDI timecode. The Controller shall support multiple remote devices connected via Ethernet for support of additional show control interfaces, such as contact closures, analogue inputs, relay outputs, serial, audio input, linear timecode, MIDI and DALI. The Controller shall have an internal watchdog feature that will restart the unit in the event of program failure. Multiple Controllers shall automatically synchronise and share triggers when programmed as part of a single show and linked via Ethernet during playback. The Controller shall be able to receive power over Ethernet as an alternative to direct DC power (IEEE 802.3af PoE powered device).</p> <p>Ref. Model - PHAROS Make LPC1 or equivalent from Creston or Matrix</p>	1.00	Nos.	0.00	0.00
44	<p>Supply, Installation, Testing & Commissioning, Programming of DMX Splitter</p> <p>The DMX Splitter shall be capable of outputting DMX Signals to upto 8 different output channels and 1 Through Channel. The DMX Splitter shall be a solid-state device specifically designed as an optically isolated DMX512 repeater. The DMX Opto-Splitter shall support optically isolated DMX512 input and thru connections for daisy-chaining. The DMX Opto-Splitter shall support 8 DMX512 outputs. The DMX Opto-Splitter shall be designed to support the following wire terminations 3-pin 9V to 48V DC Power 3-pin DMX512 input 3-pin DMX512 thru 3-pin DMX512 output (8).</p> <p>Ref. Model - Liteputter Make splitter or equivalent from MX or AntMx</p>	4.00	Nos.	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
45	<p>Supply, Installation, Testing & Commissioning of Outdoor Architectural LED Linear Wall washer with System wattage not more than 40W, System efficacy>75LPW (±5%), CCT 2700k, Single piece Housing made of Extruded Aluminium with Aluminium End caps ensuring optimum thermal management, Heat Resistant toughened Glass with Secondary PMMA lens with available Beam angle options 10,15,30,45,60, 10X30,10X60, 30X60 as per site requirement. Anti glare Visor to avoid direct glare. Ingress Protection should not be less than IP66. Impact Resistance should be IK08 or higher. Fixture Length 1200mm, Height & Width should be maximum 60mmx60mm or less. ±10% deviation in width & height is acceptable. Fixture should be supplied with Integral IP Rated high efficiency isolated constant voltage driver with Protection Class 1. Inbuilt Surge protection of 6KV+20KV additional SPD or More, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Fixture weight should 3.5KG (±10%). Suitable for mounting on surface with inbuilt brackets. Powder coating should be corrosion resistant Nano technology powder coating in Terra red colour. Fixture should have 5 Years warranty for complete system. Technical Data Sheet, Type test Certificate from In-House NABL accredited Lab should be submitted on request. Manufacturer emblem/logo should be embossed into the Aluminium housing/PDC End caps to allow identification of OEM & traceability till the life of the fixture. Luminaire should comply with Performance & safety standards IEC 60598/ IEC60950 , IEC 60529, IS 10322-5, IS 161-03/05/06/07, Surge : IEC 61000-4-5, EMC : EN 55015 Ref. Model - Lighting Technologies(LT) Make LINEAR WALLWASH INT 4FT 2700K or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	30.00	Nos.	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
46	<p>Supply, Installation, Testing & Commissioning of Outdoor Architectural LED Linear Wall washer with System wattage not more than 40W, System efficacy>75LPW (±5%), CCT 2700k, Single piece Housing made of Extruded Aluminium with Aluminium End caps ensuring optimum thermal management, Heat Resistant toughened Glass with Secondary PMMA lens with available Beam angle options 10,15,30,45,60, 10X30,10X60, 30X60 as per site requirement. Anti glare Visor to avoid direct glare. Ingress Protection should not be less than IP66. Impact Resistance should be IK08 or higher. Fixture Length 600mm, Height & Width should be maximum 60mmx60mm or less. ±10% deviation in width & height is acceptable. Fixture should be supplied with Integral IP Rated high efficiency isolated constant voltage driver with Protection Class 1. Inbuilt Surge protection of 6KV+20KV additional SPD or More, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Fixture weight should 3.5KG (±10%). Suitable for mounting on surface with inbuilt brackets. Powder coating should be corrosion resistant Nano technology powder coating in Terra red colour. Fixture should have 5 Years warranty for complete system. Technical Data Sheet, Type test Certificate from In-House NABL accredited Lab should be submitted on request. Manufacturer emblem/logo should be embossed into the Aluminium housing/PDC End caps to allow identification of OEM & traceability till the life of the fixture. Luminaire should comply with Performance & safety standards IEC 60598/ IEC60950 , IEC 60529, IS 10322-5, IS 161-03/05/06/07, Surge : IEC 61000-4-5, EMC : EN 55015</p> <p>Ref. Model - Lighting Technologies(LT) Make LINEAR WALLWASH INT 2ft 2700k or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	2.00	Nos.	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
47	<p>Supplying, Installation, testing & erecting of 170w 3000/40000/57000k fixture Out door type Led Flood Light with with single piece pressure die-cast aluminium housing with extended heat sink ,with constant Current External Driver and Inbuilt Electrical Protection like over/under voltage ,short circuit open circuit ,miswiring. Fixture body should be of silver Grey COLOR ONLY to integrate with Pole of the structure. Fixture should be mounted on 6m Pole Top on Round Base matching the similar Post Top Pole. The Fixture should be offered with below features.</p> <ol style="list-style-type: none"> 1.Housing made of pressure die cast aluminium with well designed heat sink for rapid heat dissipation 2. PC Injection Moulded Diffuser for high light transmittivity . 3. Min IP 66 Ingress Protection for Fixture and IP67 for Driver . 4. External IP66 Silicon Potted driver for ensuring better reliability and safety . 5 . The driver should be easily maintainable from the rear side 6. Fixture should be warrantied for 5yrs for 50,000 hrs @ L70 (LM79 from NABL accredited Lab to be submitted along with Letter from Manufacturer for the Life class claim of L70 @ 50,000 hrs.) 7. The product should be Manufactured in India (all the Components should be manufactured in India except the Led source which can be imported . (Approved Led source Nichia , Cree, Lumileds , Osram Only) 8. PF >=0.9 and THD <=10 % (Certificate need to be submitted from NABL Accredited lab) 9. The manufacturer should be ISO 9001 -2008 and ISO 14001 -2004 Company 10. The Fixture should be provided with 10/30/60 Deg lens for better light distribution and Spread. 11. The Fixture should be provided with a suitable cradle for sturdy mounting. 10. Have their own driver Manufacturing Facility. 11. Have their own NABL accredited lab. <p>Ref. Model -Lighting Technologies Transformer T2 170W : T17030F060 or equivalent from iGuzzini/ GVA Lighting/ Color Kinetics</p>	4.00	Nos.	0.00	0.00
48	<p>Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirming to IS 13032 and BS 5486-1986 without MCB to house appropriate nos. of MCBs (iv)12 way SS Double door for horizontal single phase outgoing</p>	4.00	Ea	0.00	0.00
49	<p>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</p>	120.00	EA	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
50	Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (B) 40 Amp. Cat.III	2.00	Ea	0.00	0.00
Total Amount					0.00
B	Part - 2				0.00
51	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	2.00	Ea	0.00	0.00
52	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity C) 63 Amp. CAT-III	8.00	Ea	0.00	0.00
53	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) 63 Amps.DP Cat. III	12.00	Ea	0.00	0.00
54	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. B)4 core25 Sq. mm	600.00	Mtr	0.00	0.00
55	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. E) 2 to 4 core 25 Sq. mm	8.00	EA	0.00	0.00
56	Solderless 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. (C) 16/25 Sq.mm.	32.00	Ea	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
57	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board having IP-64 protection 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 supporting angles, flats 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, with suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket 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. (A) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory and shall be certified by that company whose switch gears are used after fabrication for beneficial use and having Logo on the Panel (i) with 350mm depth	3.00	SQMT	0.00	0.00
58	Supplying and erecting triple pole & neutral 440V/ 500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections. (A) Suitable for 100 Amp. Capacity	2.50	Rmt	0.00	0.00
59	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1.00	Each	0.00	0.00
60	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1.00	Each	0.00	0.00
61	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	1.00	Each	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
62	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter	3.00	Each	0.00	0.00
63	Supplying and erecting approved make set of indicator lamps of LED type lamp, lens cover, Bakelite holder complete erected with necessary connections.	6.00	Each	0.00	0.00
64	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	20.00	Kg.	0.00	0.00
65	Providing and erecting approved make light control unit suitable to operate on 230V +20% having ON/OFF delay time of 30-50 seconds and having facility for Auto/manual system having two LDR lens to intensity light having capacity of 5A complete erected on section pillar with pipe and stand.	4.00	Each	0.00	0.00
66	Providing and erecting AC-3 duty 4 pole A.C. Coil with 2 NO & 2 NC aux contacts complete with 415V/220V operating coil suitable for (L&T, BCH,T.C., Siemens, C&S make).((C) for 60 / 70 A rating	4.00	Each	0.00	0.00
67	providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A . with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	1.00	Each	0.00	0.00
68	Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 SWG.	25.00	KG	0.00	0.00
69	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.	50.00	KG	0.00	0.00
70	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	2000.00	Mtr.	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
71	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 (c) 32 mm	500.00	Mtr.	0.00	0.00
	Total Amount				0.00
C	Part - 3 (Rate Only Item)				
72	DGU Glass : SITC of 24mm Thick DGU Toughened Glass-6mm Thick Toughened Glass-12mm Airgap + 6mm Clear Toughened Glass- Guardian or equivalent make as per approved sample by Architect. Selection code Sain Gobain ET125 6mm FT Blue or equivalent as per approved by Architect. Client. work complete including all type of fittings, fixtures, all type of safety measures, at all floor, all levels etc. complete as per shop drawings and specifications. sample mock & Shop drawing shall be approved from Architect/ Client.	R/o	Sq.mt	0.00	0.00
73	Dry Wall stone cladding with Stain proof water based clear coat : Providing & laying in line and level minimum 20-22 mm thick Baleshwar Stone (Jodhpur Pink) (selected and sorted for its uniform colour and thickness) Stone cladding of approved shade and quality & using Special Aluminium Profile Appropriate to resist wind load & dead load with main frame & sub frame with aluminum bracket & anchor fastner of hilti or other equivalent brand each & every stone will be individually fitted so that any stone can be removed & replaced as & when require. stone should be continuously supported in full length at top & bottom. Internal wired finished or mala finished plastered surfaces or required fabrication up to 150 mm (in scope of contractor) , as per drawing and suggestion of Architect/EIC. The rate shall also include for necessary SS 304 grade approved stone façade HC-SF-R SS clamp of 304 hybrid grade. The clamp weight shall be minimum 250gms. Clamp body shall be of 304 grade wherein pin, externally threaded rod, internally threaded tube shall be of 316 grade. The clamp body shall be of minimum 5mm thickness and shall be able to carry a dead load of 79.5 kgs at minimum offset.The clamp shall be available with variable offset lengths from 50-65mm and 80-120mm. Test certificate shall be submitted by the manufacturer, The rate shall be inclusive fixing anchors HRD HR2 of 10 mm dia. (100 mm long). anchors (Nut Version) HSA of size M10 (90 mm long) of HILTI India Pvt Ltd. medium duty Hybrid injection adhesive of Methacrylate resin which should be styrene free and used for Anchor fixing in Dry conditions with HY 70 + HAS E rods of dia. M6 / M16of HILTI India Pvt Ltd The quoted rate are also including cleaning, polishing, etc complete at all heights, all places, and all shapes as per drawings and including laying in desired design and pattern and as per approved drawing or as directed by the EIC/Architect. Rate to be inclusive of stainproof water based clear paint of as per approved make list on stone surface as per approved sample by Architect/Client. Rate to be inclusive of all material, wastage, necessary tools tackles etc for fixing at all heights and for all floors. Clear laid area shall be measured & paid in sqm.grid size will be of 1200 x 600 (height) size cutting, polishing & grooving will be in contractors scope vertical groove will be of 6mm between two stone to be kept open for rain scren principle & or may be sealed by Dow corning appropriate grade silicon (non stain type). (Elevation area - at all heights). Basic rate of stone 100/ Sq.ft	R/o	Sq.mt	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
74	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) 25 Amps.DP Cat. III	R/o	Ea	0.00	0.00
75	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	R/o	Ea	0.00	0.00
76	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 (B) 3 1/2 core 35 Sq. mm (16 Sq. mm 1/2 core)	R/o	Mtr	0.00	0.00
77	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	R/o	Mtr	0.00	0.00
78	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 C) 4 core 10 Sq. mm	R/o	Mtr	0.00	0.00
79	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand 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 cable. (C) 3 core 6 Sq. mm	R/o	MTR	0.00	0.00
80	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand 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 cable. (B) 3 core 4 Sq. mm	R/o	MTR	0.00	0.00
81	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. (B) 3 & 1/2 core 35/50 Sq. mm	R/o	EA	0.00	0.00
82	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. D) 2 to 4 core 16 Sq. mm	R/o	Ea	0.00	0.00
83	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. C) 2 to 4 core 10 Sq. mm	R/o	Ea	0.00	0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
84	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.B) 2 to 4 core 6 Sq. mm	R/o	Ea	0.00	0.00
85	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. (D) 35/50 Sq.mm.	R/o	Ea	0.00	0.00
86	Solderless 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. B)10 Sq. mm	R/o	Ea	0.00	0.00
87	Solder less crimping type Copper 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. (B) 6 Sq.mm	R/o	Ea	0.00	0.00
88	Solder less crimping type Copper 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 to 6 Sq.mm	R/o	Ea	0.00	0.00
	Total Amount				0.00

Sr. No.	Item Description	QTY	Unit	Rate	Amount
D	Part - 4 (Less Buy Back Amount)				
89	Buyback items:- Note: 1) The client reserves the right for hand over of any buy back items to bidder without assigning any reason thereof. The client reserves the right for any decision. 2) The Qty may vary for any buy back item as per actual site conditions. Existing Glazing with frame work : Elevation façade	660.00	Sq.mt	0.00	0.00
90	All toilet block sanitary fittings like wash basin w.c. pan, Indian and European type flushing tank, Urinal, all type of cock, accessories, basin counter etc. (Male & Female toilet)	1.00	Job	0.00	0.00
91	Tiled or stone floors, wall tiled / any type of cladding material	30.00	Sq.mt	0.00	0.00
92	Existing All type of Door with frame all hardware's	4.00	Nos	0.00	0.00
93	Existing fabrication/ Steel structure / S.S. railing etc. work	500.00	Kg	0.00	0.00
94	Water Cooler	1.00	Nos	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
C	Sub Total : Part - 3 (Rate Only Item)				0.00
	Total Amount (Rs.)				0.00
D	Sub Total : Part -4 (less Buy back amount)				0.00
	Grand Total Amount (Rs.)				0.00
	GST Extra as per Govt. Norms				