

Name Of Work:- Construction of Storage Unit & Façade on Terrace with other Amenities.					
Schedule-B					
Sr. No.	Estimated Quantity	Discription	Unit	Rate	Total Amount
1	1.26	Demolishing Including RCC manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within any lead & any lift as per direction of Engineer-in-charge.	Cu.mt	1,057.85	1,332.90
2	1.58	Demolishing Including Brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within any lead & any lift as per direction of Engineer-in-charge.	Cu.mt	550.40	869.63
3	19.14	Dismantling tiled of stone floors laid in mortar including IPS, Brick bats stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (Unuseble material to be dumped with the permission of local authority any lavies/charges to be paid by agencies and no extra payments will be made and disposed at non objectionable place to be found by the Contractor)	Sq.Mt	47.72	913.41
4	10.00	Removing and scraping of old deteriorated plaster of any thickness fromm wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift	Sq.Mt	19.57	195.74
5	7.65	Providing and laying in position Ready Mixed M- 250 grade concrete for reinforced cement concnere work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, Including the cost of centering shuttering finishing Exding cost of reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 450 kg) A) Foundation.	Cu.mt	5,480.08	41,922.65
6	803.25	Providing and laying TMT Bar FE 500/500D reinforcement for R.C.C. work and straightening, cutting, bending, binding & placing in position completed upto any floor any level as per I.S. Standard. complete.as directed by EIC.	Kg.	76.21	61,219.38
7	640.00	Providing & fixing of reinforcement bars (reinforcement bars shall be paid extra under relevant item of work) after drilling the hole of required diameter & depth ,cleanning of the same ,providing /filling the hole with Injection Mortar (HY 150 or approved equivalent),inserting reinforcement bar etc. complete as per Manufacturers & architects instruction.The work shall be carried out by the technical workmens/agency approved by the manufacturer and under technical supervision of Manufacturer of Injection grout including all materials,tool tackles, labour etc.complete. (C) 12 mm. dia.bar -Holes 16mm dia Depth 120mm	Each	212.18	135,797.00
8	104.00	Providing & fixing of reinforcement bars (reinforcement bars shall be paid extra under relevant item of work) after drilling the hole of required diameter & depth ,cleanning of the same ,providing /filling the hole with Injection Mortar (HY 150 or approved equivalent),inserting reinforcement bar etc. complete as per Manufacturers & architects instruction.The work shall be carried out by the technical workmens/agency approved by the manufacturer and under technical supervision of Manufacturer of Injection grout including all materials,tool tackles, labour etc.complete. (D) 16 mm. dia.bar -Holes 20mm dia Depth 160mm	Each	252.84	26,294.87
9	170.00	Providing and laying water proofing treatment in roof Patches etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	Sq.mt	528.15	89,786.00

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10	735.18	Providing and laying Glossy/matt/ 600 X 600 Full Body/Double Charge Vitrified floor tiles in different sizes having 3/4/5mm groove (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on upto 60 mm thick Tile Adhesive cement mortar 1:4 (1 cement : 4 coarse sand) or Tile on Tile Chemical Grout as specified by Architect, including grouting the joints with white cement and matching pigments etc. complete. Colour and shade as approved by architect. All joints filled with epoxy grout.Rate includes of all tool, tackle, machinery, labor & floor protection system to protected floor by either floor protection sheet or Plaster of Paris work until hand over of building, all lead & lift & as per directed by EIC.	Sq.mt	1,274.20	936,763.27
11	120195.79	Providing, fabricating, assembling, hoisting/ erecting and fixing in position at any heights/ any levels/ all floors/ all shapes & sizes with all leads & lifts using MS Rolled Steel Sections, Hollow sections, Tubular Sections, MS Plates, Chequered Plates, MS Pipes, Perforated Sheet, Flats, Bright Bars, Angles, MS Sheet, Girder, Beam. threaded J bolts, insert plate, support plate etc as per drawing. all confirming to latest relevant IS codes for the work of steel structures like staircases, railings, handrail, jali, gates, grills, bracings, platforms, brackets, monkey ladder, cattle trap, grill door, pipe rack, rungs, false ceiling frame work, framing for facade, Roof canopy, fencing posts, M.S. Screen & fencing jali frame work etc. including straightening, cutting, bending, bolting and welding the members all as per structural drawings and as per detailed specifications (for materials & workmanship) including necessary scaffolding/ staging etc. complete in the situations described hereinafter and comprising of : i) Profile Cutting of components to required length/ width and shape/profile; ii) Smooth grinding/ machining of edges/ faces/ all welding joints; iii) Necessary welding (electric arc welding) for required weld lengths and sizes. Fabrication shall be in a perfect architectural workmanship manner and as provided in section V & VI of IS 800 & IS 7215. Welding shall be carried out by qualified welders/ fabricators. The procedure, selection, test and inspection shall confirm to provisions in IS 816, IS 818, IS 822, & IS 823. Erection/ hoisting shall commence only after passing of fabricated parts by Architect/ Engineer. Rate shall be inclusive of cutting, wastage, welding, bending (shop at site), bolting wherever necessary, grinding, finishing edges, filling & finishing the welded spots & gaps with "Bombay Masala" & "Steel Putty" etc. complete. It should also include the cost of necessary scaffolding/ staging, zinc coated nut-bolt as required for safety, anchore fastner of approved make (Hilti Fisher or equivalent) structural stability of all works at site and for fixing with RCC element. Including, Providing and applying minimum two coats of enamel paint (2 coats of zinc chromate yellow primer and 2 coats of enamel paint) of approved make on all type of MS sections, new steel and other metal surfaces & including preparing the surface to give an even shade & finish at any heights, any levels etc. complete as per	Kg.	147.73	17,756,992.62
12	931.38	PUF Insulated Roofing Sheet: Providing and fixing PUF Insulated continuous sandwich panels for roofs of total thickness not less than 30 mm made out from continue line method.Panel shall have 0.5 mm thick pre coated GI sheet on both side of Polyurethane foam with external face being corrugated in shape for GI and PU foam both material.The crest height of the panel shall be of 35mm minimum with 250mm c/c pitch. The Precoated sheet shall be of minimum 240 mpa steel grade confirming to IS 14246:1995 and shall have zinc coating of 120 gsm as per IS:277 , 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 micron.The PPGI Sheet shall have protective guard film of minimum 25 microns to avoid scratches while trasportation.The roof panels are laid over a frame work of trusses, columns and purlins fixed using 90mm self drilling bolt with rubber washer including all types of flashings. PU Foam must be self-extinguishing, fire retardant type having minimum density of 40 Kg/Cu.mt.(+, - 2 Kgs) including 0.25mm craft paper edging,self tapping screws of required length and nos.etc complete including fixing Ridge and Flashing on required location on edges and with wall joint and other locations with all ancillary accessories as per structural design and direction of Engineer in- charge.	Sq. Mt	3,117.79	2,903,846.51

Sr. No.	Estimated Quantity	Discription	Unit	Rate	Total Amount
13	1712.97	<p>PUF Insulated Wall Sheet:</p> <p>Providing and fixing PUF Insulated continuous sandwich panels for walls of total thickness not less than 40 mm and width 1.0 m made out from continue line method on automatic plant. Panel shall have 0.5 mm thick pre coated GI sheet on both side of Polyurethane Foam confirming to IS 12436:1988. The Precoated sheet shall be of minimum 240 mpa steel grade confirming to IS 14246:1995 and shall have zinc coating of minimum 120 gsm as per IS:277:1992 , 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 micron. The PPGI Sheet shall have plastic protective guard film of minimum 25 microns to avoid scratches during trasportation. The panels shall be vertically joined together by tongue and groove joints. The PU Foam shall be self-extinguishing, fire retardant type having minimum density of 40 Kg/Cu.mt.(+, - 2 Kgs) including 0.25 mm thick craft paper edging on both edges. The panels shall be fixed to the steel frame structure with minimum 5mm thick self tapping GI screws of required length and nos. with minimum spacing of 300 mm c/c.</p>	Sq. Mt	3,050.05	5,224,641.58
14	143.69	<p>G.I. Gutter :</p> <p>Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05mm) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Gutter (300 mm over all girth)</p>	Rmt.	1,124.44	161,570.52
15	287.39	<p>Providing and fixing of Ridge flashing for roof panel shall be made out of 0.5 mm thick pre coated GI sheet . The Precoated sheet shall be of minimum 240 mpa steel grade confirming to IS 14246:1995 and shall have zinc coating of minimum 120 gsm as per IS:277:1992 , 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 micron. The PPGI Sheet shall have plastic protective guard film of minimum 25 microns to avoid scratches during transportation. The ridge shall be fixed to the steel members by pop rivet or self drilling/self stitching fastners @ maximum 450 mm c/c along length of capping/flashing etc complete as per architectural drawings and the directions of Engineer-in-charge.</p>	Rmt.	515.20	148,063.62
16	493.71	<p>Design, manufacture and installation of 12 mm Sunlight sheet, a complete assembly of extruded Multi / Micro cellular profile UV extruded/protected polycarbonate panels incorporated into a complete system. The Polycarbonate panel system consists co- extruded UV protected Multi / Micro cellular structure polycarbonate panel with width of 1040 mm to ensure best performance for wind uplift, vibration, oil canning and visual appearance. Panels shall be manufactured with vertical standing seam with standing seam height of 10 - 15mm at both sides of the panel. Panels shall be fixed on Purlins with the Z - Type Stainless Steel Fastener/retention clips and connectors. Each fastener shall be min 1 mm thick of SS 304 Grade and secured to supporting frame/structure with min 3 numbers of self-drilling screws so that the Pull Out Load of Fastener exceeds 7000 N (7 KN) when tested as per ISO 6892: 1998 and IS 1608: 2005. Snap-on connectors to interlock the panels shall have 2-4 teeth grip-lock locking mechanism to ensure maximum uplift capability. Panel shall be fixed with additional End cap/Aluminum U / F Profile / Glazing Bar (mill finish) for ends as required. Panel shall be fixed over structural steel / MS purlin (paid separately) by trained & factory authorised installer under direct supervision to complete entire project installation according to the detail technical specifications as per approved architectural drawings.</p>	Sq. Mt	2,750.08	1,357,743.75

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17	813.52	<p>ACP SHEET:- Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including: (a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. (b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. (c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop</p>	Sq. Mt	4,292.54	3,492,069.42
18	1312.38	<p>Cement sheet : Providing and fixing panelling & Flooring as per design drawing, cladded with first quality 12mm thk. cement sheet, using first quality hardware. made of 2 MM thick Aluminium tube frame The sections are placed @ 600 x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor with suitable aluminium angles and fastened with steel screws. Frame size 50 x 50 MM with 12 MM thick cement sheet. panelling work should be carried out as per detail drawings and as per the instructions given by the architect. Rate of panelling shall be inclusive of out in order to execute the aforesaid item to the satisfaction of the architect / EIC. The rate shall be for complete item inclusive of all material, labor, wastages, necessary tools & tackles, adhesives, consumable hardware. (heritage gallery, lift lobby, reception & waiting area and other area.</p>	Sq. Mt	2,222.00	2,916,108.36
19	31.32	<p>Providing and fixing openable window comprising anodized extruded aluminum frame with sliding or casement shutters, transparent bronze-colored tinted float glass, and powder-coated aluminum fittings and fixtures. The glass shall be fixed into the frame using transparent silicone sealant to ensure a secure and weather-tight bond. The window shall include all necessary fittings, accessories, and hardware such as handles, locks, hinges, and any other required components for smooth operation. The installation shall be carried out as per the architectural details and as directed by the Engineer-in-charge.</p>	Sq.Mt	3,282.50	102,807.90
20	2.00	<p>Supplying & Fixing of Signage board Representing Institute Name having font size at least 1500mm in height & 75mm embossed letter with LED, Top Black Boarder cover & Emboss colour 3000k backlit LED light made up of 4mm thick acrylic sheet of approved brand as per make in tender document shall be fixed on required size stand made up of aluminium heavy grade frame or M.S structure shall be used to back support the board to Fix it on Back side MS With ACP Background, Hard Letter with illuminated Bright light, Day & Night respectively like coloured Media to impart desired color DAY BLACK & NIGHT WHITE. AL return to attain desired Color. Rate shall be inclusive of all material, tool, tackle and machinery with frame & electrical connection or fitting that said letter should be glow at night time period shall be operated with necessary driver of LED light with RGB Color scheme and light temp 3000k. Name to be prepared is "GUJARAT BIOTECHNOLOGY UNIVERSITY " as per Given Drawing</p>	Job	858,500.00	1,717,000.00

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21	3042.90	Designing, Providing, fixing, Dismantling & Removing MS scaffolding system (H-Frame/cup lock type) on the exterior side, for 18-Meter height made with 50 mm dia M.S. tube 1.5 m centre to centre, horizontal, vertical tubes & Cross Bracings joining with cup & lock system or H Frame 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 Engineering-charge .The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. (Bidder should submit scaffolding Design & Get approval from Structural engineer for the same)	Sq.Mt	341.63	1,039,553.53
22	141.00	INTERNAL POINT WIRING Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete - Cat. III	Ea.	449.45	63,372.45
23	70.00	Point wiring for Tissino / Modular secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	Ea.	151.50	10,605.00
24	34.00	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. III	PT.	241.39	8,207.26
25	34.00	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	PT.	629.23	21,393.82
26	80.00	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	PT.	473.69	37,895.20
27	20.00	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [II] For 16A Plug and 16 amp mcb with 2-2.5 sq.mm Cu. Wire from mcb db board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	PT.	780.73	15,614.60

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28	30.00	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (7) Blank Plate Single Cat-III	Ea.	24.24	727.20
29	80.00	Miniature Circuit Breaker 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. conforming to IS 8828/1996 with ISI Mark Cat.III	EA	112.11	8,968.80
30	12.00	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp. Cat.III	EA	299.97	3,599.64
31	4.00	Providing & erecting 415 V MCB three Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (a) 6 to 32 Amp. Cat.III	EA	587.82	2,351.28
32	6.00	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 (a) 6 to 32 Amp. Cat.III	EA	595.90	3,575.40
33	1.00	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, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	EA	6,173.12	6,173.12
34	12.00	RCCB Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. 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	EA	1,969.50	23,634.00
35	12.00	Sheets steel powder coated enclosure suitable for incorporating One/Two nos. MCB.	EA	176.75	2,121.00
36	12.00	DISTRIBUTION BOARDS 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 (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door (IP-43) (iii)8 way	Ea.	1,152.41	13,828.92
37	1.00	Providing and erecting Sheet Steel powder coated Vertical MCB distribution board (VTPN) - flush / surface mounted double door (IP54) fitted with insulated copper busbar, isolated neutral link, earth bar and DIN rail, confirming to IS 13032 and BS 5486-1986,IP-54 suitable for 250 AMP TPN MCCB + RCCB as incomer and three phase outgoing as per following .(The DBs should be used of same company of MCB to be used) (C)8 way outgoing	Ea.	17,248.78	17,248.78
38	150.00	CONDUIT 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	mtr.	32.32	4,848.00
39	100.00	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	mtr.	52.52	5,252.00
40	200.00	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (1) 20 mm	mtr.	16.16	3,232.00

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41	125.00	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (2) 25 mm	mtr.	20.20	2,525.00
42	100.00	CABLE TRUNKING Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free and flame proof confirming BS with necessary end caps Internal and external bend, flat bends, coupler, tee etc..All necessary accessories and measuring of following sizes (1) 75 mm x 50 mm trunking	mtr.	265.63	26,563.00
43	250.00	WIRE MAINS Providing and erecting 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	mtr.	59.59	14,897.50
44	650.00	Providing and erecting 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	mtr.	78.78	51,207.00
45	1250.00	Providing and erecting 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	Rmt.	107.06	133,825.00
46	150.00	ARMOURED ALLUMINIUM CABLES. 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 cables. (A) 3 1/2 core 25 Sq. mm (10 Sq. mm 1/2 core)	Mtr.	1,345.32	201,798.00
47	1250.00	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	Mtr.	285.83	357,287.50
48	450.00	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. (C) 4 core 6 Sq. mm	Mtr.	508.03	228,613.50
49	40.00	CABLE GLANDS. 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	Ea.	33.33	1,333.20
50	4.00	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	Ea.	38.38	153.52
51	4.00	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	Ea.	51.51	206.04
52	6.00	CABLE LUGS. 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. (D) 25 Sq.mm.	Ea.	15.15	90.90
53	2.00	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. (B) 10 Sq.mm	Ea.	10.10	20.20

Sr. No.	Estimated Quantity	Discription	Unit	Rate	Total Amount
54	138.00	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	Ea.	8.08	1,115.04
55	650.00	Providing and fixing approved make Perforated C type cable tray. Made from pre-galvanized CR sheet steel. The cable tray should be bended as per IS 2062/1079 . 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... (3)150 X 50 X 1.5 mm Thick	Rmt.	322.19	209,423.50
56	10.00	Providing and fixing approved make 'T' Junction for Perforated C type cable tray. Made from pre galvanized sheet steel. The Junction should be bended as per IS 2062/1079. with max 17.5% perforation 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. 'T' Junction (3) 150 X 50 X 1.6 mm Thick 'T' Junction	Ea.	167.66	1,676.60
57	10.00	Providing and fixing approved make '90° Elbow' for Perforated C type cable tray. Made from pre galvanized sheet steel. The Junction should be bended as per IS 2062/1079. 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. (3) 150 X 50 X 1.6 mm Thick 90° Elbow	Ea.	146.45	1,464.50
58	140.00	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED LED driver efficiency > 85 % (fitting 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.) (A) Tube Light with integral driver (iii) 20 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat-III	Ea.	295.93	41,430.20
59	10.00	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. (iv) above 90 to 120 watts	Ea.	7,266.95	72,669.50
60	36.00	Supply, Installation, Testing and Commissioning of LED IP67 20 W LED Tubelight fixture with driver & complete all accessories.	Ea.	2,950.00	106,200.00
61	34.00	Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	Ea.	1,948.29	66,241.86
62	34.00	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [A] 305 mm dia 900 RPM	Ea.	2,054.34	69,847.56
63	20.00	Supplying & erecting D.C.P. type fire extinguisher for following capacity cartridge type with gun metal cap 150 gram CO2 gas cartridge, powder and brackets confirming to IS 2171 1985 and complete erected with necessary clamps made from 50 x 6 mm M S Flat with nuts and bolts grouted in wall complete. [B] For 10 KG Capacity	Ea.	2,226.04	44,520.80

Sr. No.	Estimated Quantity	Discription	Unit	Rate	Total Amount
64	20.00	Supplying & erecting carbon dioxide (CO2) fire extinguisher user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. [B] For 5.5 / 6.5 KG Capacity	Ea.	8,671.86	173,437.20
65	2.00	Supply, Installation, Testing, and Commissioning of a High Volume Low Speed (HVLS) ceiling fan with a diameter of 10–12 feet, featuring lightweight, aerodynamic aluminum alloy or composite blades designed for efficient airflow of up to 60,000 CFM, powered by a high-efficiency Brushless DC (BLDC) or industrial-grade gearless motor equipped with a Variable Frequency Drive (VFD) for precise speed control and energy efficiency. The system operates on 415V, 3-phase, 50Hz with a noise level not exceeding 40 dB, and includes all required mounting hardware, safety cables, and accessories suitable for steel or concrete ceilings. The fan is controlled via an advanced LCD control panel with optional remote control, complies with international standards such as ANSI/AMCA 230-99 or ISO 9001, and comes with a 5-year warranty on the motor and a 2-year warranty on the controller.	Ea.	225,000.00	450,000.00
66	1.00	Supply, Installation, Testing & Commissioning of loops card, the loop shall be capable of taking 250 addresses per loop configuring either as all detectors or modules or any mix of both.	Ea.	53,400.00	53,400.00
67	40.00	Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.	Ea.	2,422.03	96,881.36
68	4.00	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	Ea.	3,280.51	13,122.03
69	4.00	Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required.	Ea.	2,971.19	11,884.75
70	550.00	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & ERLS outer sheath complete as required.	mtr.	146.61	80,635.59
71	2.00	Supplying, installation, testing & commissioning of addressable fire control module complete as required.	Ea.	2,544.92	5,089.83
72	2.00	Supplying, installation, testing & commissioning of fire fighter phone jack complete as required.	Ea.	1,355.93	2,711.86
73	2.00	Supplying, installation, testing & commissioning of addressable phone control module complete as required.	Ea.	2,768.64	5,537.29
74	2.00	Supplying, installation, testing & commissioning of fire fighter telephone handset complete as required.	Ea.	4,864.41	9,728.81
75	2.00	Supplying, installation, testing & commissioning of fault isolator complete with base as required.	Ea.	2,771.19	5,542.37
76	6.00	Supply, Installation, Testing and Commissioning of 4MP IR Bullet N/W Camera, 3.6mm, 50M, Micro SD, DC12V/PoE, IP67,IK10, Basic IVA, 4MP resolution (2560 × 1440), 0.01 Lux,F1.2,AGC ON,True day / night, Digital WDR, 3D DNR, HLC & BLC, Triple streams, Smart codec by ROI, Basic intelligent video analytics, NDAA Compliance, UL, CE, FCC Certified	Ea.	19,500.00	117,000.00
77	1.00	Supply, Installation, Testing and Commissioning of 16 Channel NVR - 16 Channel Embedded NVR, 4 SATA Upto 32TB, H.265 / H.264 / MJPEG video compression, RAID 5, 0TB, 512Mbps / 512Mbps (Incoming / Outgoing), HDMI 2.0 X 1 (Main), Single Stream, Main or Sub Stream, 2 X RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface, SATA interfaces : 4 SATA @ 8TB each supported, RAID Arrays : RAID 0 / 1 / 5 / 10 supported, Protocol Support : TCP/IP, UDP, DHCP, NTP, RTSP, PPPoE, SMTP, FTP, UPnP, DDNS, RTP, IPV4, DNS, RTCP, ICMP, HTTP, QoS, ARP, NVR Operating System : Linux, Network Interfaces : 2 X RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface, USB interface : Total 3 USB ports: 2x USB 2.0 and 1x USB 3.0, ONVIF : ONVIF Profile S, Alarm I/O : 2IN / 1OUT, Alarm Mode : Manual, Sensor, Motion, Exception, Smart Events, etc., Alarm Action : Record, Snapshot, Call Preset, E-mail, Buzzer, Certification : CE, FCC, BIS, NDAA Compliant. iOS and Android mobile app support	Ea.	65,000.00	65,000.00
78	1.00	Supply, Installation, Testing and Commissioning of 8 TB Surveillance Grade HDD	Ea.	25,000.00	25,000.00
79	1.00	Supply, Installation, Testing & Commissioning of 50 Inch Android Professional Display, 55" / 139 cm diagonal, 16:9, UHD, Pixel Pitch : 0.105 (H) x 0.315 (V)mm, USB Supported HDD, Hotel Mode, CEC, Dolby Audio, Bluetooth, 802.11a/b/g/n 2.4G 2T2R, Built-in, CPU : Cortex-A55 x 4.1.1 GHz Processor, GPU : Triple core Mali470 600 MHz	Ea.	122,148.00	122,148.00
80	1.00	Supply, Installation, Testing & Commissioning of 15U (600W X 600D)MM /FLOOR mount closed rack with front glass door, fan tray on top, perforated rear doors, keyboard tray with shelf. Casters & 2 nos vertical power strip with std. accessories at floor distribution. as per technical specification etc. as required.	Ea.	24,500.00	24,500.00

Sr. No.	Estimated Quantity	Discription	Unit	Rate	Total Amount
81	300.00	SITC of O. F.Cable 06F Outdoor - Armoured Unitube SM - HDPE Sheath [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	50.50	15,150.00
82	1.00	SITC of LIU 12 PORT Rack Mount - Loaded (LC) SM [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	6,901.33	6,901.33
83	10.00	SITC of PIGTAIL LC SM SIMPLEX LENGTH- 1m [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	779.72	7,797.20
84	10.00	SITC of PATCH CORD LC-LC SM DUPLEX LENGTH- 3m [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	1,901.83	19,018.30
85	650.00	SITC of CAT6 UTP 23AWG Solid: Per Meter [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	mtr.	43.43	28,229.50
86	5.00	SITC of Jack Cat 6 Keystone UTP [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	161.60	808.00
87	1.00	SITC of Patch Panel Cat 6 UTP Keystone Type- 24 Port-Fully Loaded [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	4,400.57	4,400.57
88	5.00	SITC of CAT6 UTP 24AWG PATCH CORD:1M,Plug 30U' Snag less [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	156.55	782.75
89	1.00	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 [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	31,996.80	31,996.80
90	4.00	SITC of Maximum distance of up to 10 km Hot-pluggable Single-mode fiber 1000BASE-LX (IEEE 802.3z standard) Duplex LC connector MSA, RoHS-compliant [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	4,801.54	19,206.16

Sr. No.	Estimated Quantity	Discription	Unit	Rate	Total Amount
91	2.00	<p>EARTHING</p> <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.</p> <p>[C] For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA).i.e. independent Earthing located in other than normal soil i.e. Soft Rock, Marshy Soil etc..</p> <p>-Length of Pipe : 3 Mtrs.</p> <p>-Back filling Compound :2 nos Bags of 25 Kg.</p>	Ea.	10,593.89	21,187.78
92	250.00	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.	Kg	77.77	19,442.50
93	100.00	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	Kg	794.87	79,487.00
Total Amount (Rs)					41,517,278.00

In Words :- (Four Crore Fifteen Lakh Seventeen Thousand Two Hundred Seventy-Eight.)

I/We am/are willing to carry out the work at.....% Above / Below.

(Percent Should be written in figures and words) of the Estimated Specifiations mentioned above. Amount of my/our tender works out as

Estimated Amount put to tender

Add/Deduct..... % above/below

Net Amount

Note :-

- 1 All works shall be carried out as per Public Work Department Handbook and other specification of Division or as directed.
- 2 All the column in Schedules should be filled in ink and the total of the entries ink last column should be struck by the contractor under his
- 3 Specifications quoted include clearance of site (prior commencement of work and at its close). In all respect and hold good for work under all
- 4 Serviceable material available (if any) after Demolishing / Dismantalling any item should be hand over to the concerned PIU Site Engineer in Charge as per