

Name of Work :- Work of Infrastructure Development includes Parking shed, refurbishment and up-gradation with fire fighting & cctv surveillance at Stone Artisan Park for SAPTI located at Stone Artisan Park , Dhrangadhra, Halvad By Pass Road, Dist - Surendra Nagar, Gujarat.

PRICE BID					
Sr.No	Item Description	Qty.	Unit	Rate	Amount
Civil Work (Excavation and Filling Works)					
1	Excavation for foundation in any kind of soil incl. RCC or asphalted surface 0 to 1.50 mt depth incl. dewatering if required at cost and risk of agency including all labour, tools, mechanical tools etc. & shoring, strutting, making the bottom level and sides in plumb incl. watering, ramming and consolidating the bottom etc. incl. removing the surplus stuff if any within all lead and lift using the selected stuff for back filling to foundation, (Test of Soil for back filling is agency scope) in side trenches and plinth in layers of 20 cms. th. with watering, consolidating etc. comp. as directed by Engineer	31.00	Cu.Mt.	0.00	0.00
2	Excavation for foundation in any kind of soil 1.5 to 3.00 mt depth incl. dewatering if required at cost and risk of agency including all labour, tools, mechanical tools etc. & shoring, strutting, making the bottom level and sides in plumb incl. watering, ramming and consolidating the bottom etc. incl. removing the surplus stuff if any within all lead and lift using the selected stuff for back filling to foundation, (Test of Soil for back filling is agency scope) in side trenches and plinth in layers of 20 cms. th. with watering, consolidating etc. comp. as directed by Engineer Incharge.	2.00	Cu.Mt.	0.00	0.00
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each deposited layer by ramming and watering.	23.00	Cu.Mt.	0.00	0.00
4	Filling in Plinth with sand under floors (brought from outside including any lead and lift, loading and unloading, spreading) including watering, ramming, consolidating etc. complete	11.00	Cu.Mt.	0.00	0.00
5	Filling in Foundation and plinth with Murram or selected soil (brought from outside including any lead and lift, loading and unloading, spreading of soil) in layers of 20cm. Thickness including watering, ramming and consolidating etc. complete as per directed by Engineer-in-charge	20.00	Cu.Mt.	0.00	0.00
PCC, RCC Work					
6	Providing and laying cement concrete 1:3:6 (1-Cement : 3-Coarse sand : 6-Hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of form-work in (A) Foundation and Plinth	5.00	Cu.Mt.	0.00	0.00
7	Providing and laying Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregates 20 mm. nominal size) and curing complete excluding cost of from work in foundation .plinth Foundation	7.00	Cu.Mt.	0.00	0.00
8	Providing Material and labour for laying in position controlled cement concrete M.250 Grade concrete for reinforced cement concrete work using cement content as per approved batched and machine mixed design controlled cement Concrete using graded black trap stone aggregates of maximum 12 to 20mm nominal (down graded) size including fine aggregates conforming to latest IS 383 with minimum cement content (without fly ash) (Min cement level as per latest IS 456 shall be maintained ,Cement Level 380 kg) for durability shall be followed as per approved design mix and latest IS 456 for Reinforced concrete work in Foundations, footings, Base of columns and Mass concrete. All work up to Plinth level Including compacted with vibrators ,watering, curing Etc.The cost of centering and form work is included with new steel/ plywood shuttering, steel scaffolding, propping etc. and the cost of its removal will have to be borne along with all leads and lifts.The cost of Reinforcement steel will have to be calculated separately, which will be measured and Paid separately. The Entire work will have to be completed as per Directed by Engineer in-	2.00	Cu.Mt.	0.00	0.00
9	Providing Material and labour for laying in position controlled cement concrete M.250 Grade concrete for reinforced cement concrete work using cement content as per approved batched and machine mixed design controlled cement Concrete using graded black trap stone aggregates of maximum 12 to 20mm nominal (down graded) size including fine aggregates conforming to latest IS 383 with minimum cement content (without fly ash) (Min cement level as per latest IS 456 shall be maintained ,Cement Level 380 kg) for durability shall be followed as per approved design mix and latest IS 456 for Reinforced concrete work in Columns, Pillars posts and struts, All work up to Floor two level Including compacted with vibrators ,watering, curing Etc.The cost of centering and form work is included with new steel/ plywood shuttering, steel scaffolding, propping etc. and the cost of its removal will have to be borne along with all leads and lifts.The cost of Reinforcement steel will have to be calculated separately, which will be measured and Paid separately. The Entire work will have to be completed as per Directed by Engineer in- charge	2.00	Cu.Mt.	0.00	0.00

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10	Providing Material and labour for laying in position controlled cement concrete M.250 Grade concrete for reinforced cement concrete work using cement content as per approved batched and machine mixed design controlled cement Concrete using graded black trap stone aggregates of maximum 12 to 20mm nominal (down graded) size including fine aggregates conforming to latest IS 383 with minimum cement content (without fly ash) (Min cement level as per latest IS 456 shall be maintained ,Cement Level 380 kg) for durability shall be followed as per approved design mix and latest IS 456 for Reinforced concrete work in Beams, Plinth beam, Girders, Lintels and Cantilever all work up to Below Plinth & up to Plinth Level Including compacted with vibrators ,watering, curing Etc.The cost of centering and form work is included with new steel/ plywood shuttering, steel scaffolding, propping etc. and the cost of its removal will have to be borne along with all leads and lifts.The cost of Reinforcement steel will have to be calculated separately, which will be measured and Paid separately. The Entire work will have to be completed as per Directed by	3.00	Cu.Mt.	0.00	0.00
11	Providing Material and labour for laying in position controlled cement concrete M.250 Grade concrete for reinforced cement concrete work using cement content as per approved batched and machine mixed design controlled cement Concrete using graded black trap stone aggregates of maximum 12 to 20mm nominal (down graded) size including fine aggregates conforming to latest IS 383 with minimum cement content (without fly ash) (Min cement level as per latest IS 456 shall be maintained ,Cement Level 380 kg) for durability shall be followed as per approved design mix and latest IS 456 for Reinforced concrete work in in Slabs, Landing, Weather Sheds.Balconies and Cantilever up to Below Plinth & up to Plinth Level Including compacted with vibrators ,watering, curing Etc.The cost of centering and form work is included with new steel/ plywood shuttering, steel scaffolding, propping etc. and the cost of its removal will have to be borne along with all leads and lifts.The cost of Reinforcement steel will have to be calculated separately, which will be measured and Paid separately. The Entire work will have to be completed as per	6.00	Cu.Mt.	0.00	0.00
Reinforcement, Steel works					
12	Supplying, cutting, bending, binding and placing in position TMT Bar Fe 500D reinforcement in all diameter conforming to relevant I.S. standards as per ISS 2502 and IS 1786 including cost of binding with GI wires and placing in position complete up to Plinth to Floor Two Level (Brands:SAIL, Jindal)	1515.00	Kg.	0.00	0.00
13	Providing Material and Labour With fabricating & Fixing of M.S. grills Small Gate, Etc. of required pattern to brick walls/Columns prepared with M.S. flats, angles, Square/round bars, square pipes, at required spacing with necessary cutting, bending, jointing, connecting, welding and bolting and riveting and fabricating and erecting in position etc. complete for all levels as directed. The rate to include all necessary fixtures, fastening etc & Cleaning with sand papering, Cleaning Weld dots with grinder machine with smooth joint of welding, & also including one coat of primer and two coats of mate finished oil painting etc complete. Hold fasts as per detailed drawing and fixing brick walls / coping / columns etc. (Oil Paint Make Asian,	100.00	Kg.	0.00	0.00
14	Providing Material and Labour With Fabricating & Erecting of Structural Steel Works in required pattern/design using Structural Steel like ISMC, Box Pipe, ISMB, Angle, Plates/Bright Bars, round pipes as per detailed design/ drawings/ instructions including Straightening, Cleaning, Derusting, Cutting, Bending, Fabricating, Welding, Bolting Riveting Hoisting Jointing connecting & fixing and erecting in position for all levels For Roof work Fince & Main Gates, Fire Pipe Bracket,Support at Compound wall Etc. works Also providing & painting with one coat of zinc chromate primer and two coats of enamel paint of Asian/Narolac make & shade etc. providing welding electrodes of the approved make and nuts, bolts etc complete with necessary labour, tools, scaffolding, platforms, props, ropes, pulleys, Cost included of furnish and erect at all height, all required Members as per detail, all expenses derricks, shear legs, staging & necessary Scaffolding, loading, unloading for the proper completion of the work. Frame work Making from /Tata, Vizag / Asian make & also All support Frame fabrication with Supporting with fabricating & fixing at Supporting	3466.00	Kg.	0.00	0.00
15	Providing Material and Labour with fixing of Roof Top & flashing for roof panel shall be made out of 0.6 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 15:277:1992, 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 fasteners @ maximum 450 mm cjc along length of capping/flashing etc complete. (This GI Sheet will be supported on structural steel beam with shear studs. & structural steel qty Measured & paid separately.GI Sheet	50.00	Sq.Mt.	0.00	0.00

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16	Providing Material and Labour With fabricating & Fixing of M.S. Fabricated Slanted Canopy with FRP sheet (Size 600 to 750mm wide) Cantilever weather shed For Window , door, Opening etc as per Directed by engineer in Charge. Slanted Canopy Making from 25mm x 25mm MS Pipe Main frame (average 600mm c/c Spacing for Main support) & 20mm x20mm internal support frame as per Directed . Frame of required pattern & fixed to brick walls/Columns, self Standing etc, Canopy prepared with M.S. Pipe, angles, Square/round bars, square pipes, at required spacing with necessary cutting, bending, jointing, connecting, welding and bolting and riveting and fabricating and erecting in position etc. & top & Side Fixing of 2.5mm thick Plain , coloured FRP Sheet complete for all levels as directed. The rate to include all necessary fixtures, fastening, scaffolding, staging etc & Cleaning with sand papering, Cleaning Weld dots with grinder machine with smooth joint of welding, & also including one coat of primer and two coats of oil painting etc complete. (Measurement	17.00	Sq.Mt.	0.00	0.00
Masonry Work					
17	Providing material and labour for laying Brick work using common burnt clay building Conventional bricks having crushing strength not less than 35 kg/Sq Cm in foundation and plinth in Cement Mortar 1:5 (1- Cement : 5 -fine sand) in any shape and thickness including finishing, racking of joints, curing, scaffolding for all height all level etc complete as directed by engineer in charge.	40.00	Cu.Mt.	0.00	0.00
18	Providing material and labour for Brick work using common burnt clay building bricks having crushing strength not less than 35 kg/Sq.Cm. in superstructure above plinth level up to floor two level (B) Cement Mortar 1:5. (1- Cement : 5 -fine sand) in any shape and thickness including finishing, racking of joints, curing, scaffolding for all height all level etc complete as directed by engineer in charge.	15.00	Cu.Mt.	0.00	0.00
19	Providing material and labour for (i) Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand) in foundation, plinth and superstructure above plinth level up to floor two level, in any shape and thickness including finishing, racking of joints, curing, scaffolding for all height all level etc. complete as directed by engineer-in-charge.	45.00	Sq.Mt.	0.00	0.00
20	Providing material and labour for Coursed rubble masonry with hard stone of approved quality in superstructure above plinth level up to floor two level Cement Mortar 1:6 (1-Cement : 6-coarse sand) etc. complete.	20.00	Cu.Mt.	0.00	0.00
Door, Window and Facade work					
21	Providing and fixing window having extruded aluminum Colour Powder Coated section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt, horizontal Three track member size 92mm x 31.75mm x 1.30mm @ Wt.1.07 Kg/mt, vertical member of size 92mm x 31.75mm x1.50mm ,@ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mm x18mm x1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details	15.00	Sq.Mt.	0.00	0.00
22	Providing and fixing window having extruded aluminum Colour Powder Coated section frame main outer size 63.50 x 38.10 x 1.95 mm,@ Wt 1.094 Kg / R mt, horizontal Two track member size 61.85 mm x 31.75 mm x 1.20mm @ wt.of 0.695 Kg/mt, vertical member of size 61.85 mm x 31.75mm x 1.30mm @ wt.of 0.659 Kg/mt with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm @ wt.of 0.456Kg/mt, vertical member of size 40mm x 18mm x 1.29mm @ wt.of 0.456Kg/mt with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass	21.00	Sq.Mt.	0.00	0.00
23	Providing and fixing standard extruded of aluminium section of size 63mm x 38.10mm x 1.2mm , @ Wt. 0.643 Kg/mt with colour Powder Coated aluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation	4.00	Sq.Mt.	0.00	0.00
24	Providing and fixing of Aluminium Partition with Powder coated Aluminium extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make (Jindal or Equal ant Make) fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners for fixing of vertical sections in the ceiling to support the frame including necessary filling up of gaps at junctions, top, bottom and sides with required PVC/ neoprene felt, EPDM etc. Aluminium sections shall be smooth, rust free straight, metered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass/ stainless steel screws all complete as per architectural drawings and the direction of engineer-in-charge With powder coated aluminium section of 63.5mm x 38.10mm x 1.95mm (sectional weight of the Aluminium section should 1.094kg/ Rmt) with 12 mm thick both side per-laminated flat pressed three layer of graded wood particle board conforming to IS:12823 grade I type II in panelling of partition walls as per Drawing & Partly float glass panes of 5 mm thickness (Modi, saint Gobain or equivalent) panelling of required height complete in all respect including all hardware fittings (Rate for Excluding Door, Door will be measured and Paid separately.) as per the direction of Engineer -in charge. Complete	30.00	Sq.Mt.	0.00	0.00

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25	Providing and fixing of Aluminium Glass Door with Powder coated Aluminium extruded built up standard tubular sections of approved make (Jindal or Equal ant Make) fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners for fixing of vertical sections in the ceiling to support the frame including necessary filling up of gaps at junctions, top, bottom and sides with required PVC/ neoprene felt, EPDM etc. Aluminium sections shall be smooth, rust free straight, metered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass/ stainless steel screws all complete as per architectural drawings and the direction of engineer-in-charge With powder coated aluminium section of 63.5mm x 38.10mm x 1.95mm (sectional weight of the Aluminium section should 1.094kg/ Rmt) with 12 mm thick both side per-laminated flat pressed three layer of graded wood particle board conforming to IS:12823 grade I type II in panelling of partition walls as per Drawing & Partly float glass panel of 5 mm thickness (Modi, saint Gobain or equivalent) panelling of required height complete in all respect including all hardware fittings (Rate for Including Dorma Make Medium Wt. Floor Spring, Door Handle or, Stopper, etc as per the direction of Engineer -in charge. Complete with all Labour, Material, Tools, All	6.00	Sq.Mt.	0.00	0.00
	Flooring, Door Jambs, Window Sill				
26	Providing material and labour with fixing of 60 cm x 60 cm Glossy/ Matt finished Vitrified Tiles 9 to 10mm thk. Flooring (RAK, Qutone, Simpolo, Nexion or equivalent brand) flooring over 20 mm (average) base of cement mortar 1:3 (1 cement: 3 coarse sand) on new surface of floor by adhesive material (Polymer Chemical adhesive: Laticrete 325) including finished with flush pointing & cleaning the surface and including filling the joints with Approved Epoxy Grout (Polymer Chemical adhesive: Laticrete 325) in 3-4 mm width and 10 mm Depth including cost of PVC Spacers, Rubbing, Cleaning and finishing the surface etc. complete.	50.00	Sq.Mt.	0.00	0.00
27	Providing and laying Mirror Polished Granite slab 16-18mm (Average) thick for Sill & Jambs for Door, Windows, Ventilators, Openings, Elevation Cut-outs, Planter wall top etc. as per design and Drawings incl. full molded round both edge on 10 mm thick cement mortar 1:3 (1-cement : 3-coarse sand) & jointed with Grey cement slurry including rubbing and polishing etc. complete. Granite shade As per Approved & Selection by Architect or Directed by Eng. in Charge.	15.00	Sq.Mt.	0.00	0.00
	Water Proofing			0.00	0.00
28	Providing Material and Labour and applying Terrace Waterproofing Treatment as per Bellow Specification The operation shall be carried out after cleaning of Existing Terrace surface to remove loose particles with wire brushes, & Crack Filling wherever Required Big Crack filled with Cement Fine sand ratio 1:3 using Suitable exterior durable, polymer + cement based crack filling compound of a reputed brand. fill the hair line cracks up to 3mm thickness with Asian Paint smart care crack seal by applying one coat of exterior primer and two coats of crack seal on the cracks. Intercut interval between these coats should be min 10-12 hours big joint crack (up to 40mm width) can be filled with asian Paints Hybrid PU Sealant Damp Proof/ Damp proof ultra Application Apply one coat of Asian Paints Smart care Damp Proof with 25 % Dilution by water with the help of Asian paints Smart care Roller 800 as a priming coat , Allow to Dry for 4-6 hours in clear sun light, Apply Second Coat of Asian Smart Care Damp proof/ Ultra without Dilution with the help of Asian Paints Smart Care Exterior Roller 800, Apply Third Coat of Asian Smart Care Damp proof/ Ultra without Dilution with the help of Asian Paints Smart Care Exterior Roller 800, Allow it to dry for 4-6 hours in Clear sun light. The whole work is to be executed through specialized agency with a guarantee of 10 years given on a prescribed proforma duly stamped. The water proofing work 10% will be retained from the billing Amount for 5 years (without interest) The Amount shall be refunded after Five years without interest. Work complete including all type of tools, tackles, Scaffolding, safety measures etc. complete at any level and height complete in all	75.00	Sq.Mt.	0.00	0.00
	Plaster, Painting & Finishing work				
29	Providing material and labour for 10mm thick cement plaster in single coat on Slab ceiling surface for plastering finished level and smooth including curing, scaffolding etc. complete in C:M (1 cement : 3 fine sand) and finished with floating coat of neat cement slurry as directions of Engineer-in-charge Complete. Above Plinth to Floor Two Level	175.00	Sq.Mt.	0.00	0.00
30	Providing material and labour for 15mm thick cement plaster in single coat on brick concrete wall surface for plastering finished even and smooth including curing scaffolding etc. complete in C:M 1:4 (1 cement : 4 fine sand) and finished with floating coat of neat cement slurry also Fixing of GI mesh at all Horizontal & Vertical junction of RCC Column/ beam & Brick work as directions of Engineer-in-charge Complete. Above Plinth to All Floor	40.00	Sq.Mt.	0.00	0.00
31	Providing material and labour for 20 mm thick double coat mala cement plaster on exterior / interior, brick / concrete work for plastering comprising of base coat of 12mm thick cement plaster in cement mortar (1-Cement : 4-Coarse sand) in rough finishing and 8 mm thick top coat of cement mortar 1:2 (1-Cement : 2-Coarse sand) finished with trowel including scaffolding curing etc. complete. (All Floor)	50.00	Sq.Mt.	0.00	0.00

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32	Providing material and labor for 20 mm thick rough finished (Sand Face) cement plaster on walls up to any height consisting of 12mm thick backing coat of CM 1:3 (1-cement : 3-sand) and 8mm thick rough finishing coat of CM 1:1 (1-cement : 1-sand) on exterior brick / concrete work for receiving texture paint's base coat etc. complete. For plastering below & above plinth up to all Floor complete. as directions of	50.00	Sq.Mt.	0.00	0.00
33	Providing material & labour for Ceiling painting (two coats) with plastic Emulsion paint of approved brand and manufacture on un decorated Ceiling surface to give an even shade including With applying Two coats of wall care Putty & two coat of primer thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth. as directed by engineer in charge complete.(All Floor) Make: Asian Paint, Dulux, Nerolac, Berger Jotun or equivalent./ Wall Care Putty Birla White.Asian Paints, JK,Berger paint, Nerolac or equivalent	75.00	Sq.Mt.	0.00	0.00
34	Providing material & labour for Wall painting (two coats) with plastic Emulsion paint of approved brand and manufacture on un decorated wall surface to give an even shade including With applying Two coats of wall care Putty & two coat of primer thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth. as directed by engineer in charge complete.(All Floor) Make: Asian Paint, Dulux, Nerolac, Berger Jotun or equivalent./ Wall Care Putty Birla White.Asian Paints, JK,Berger paint, Nerolac or equivalent	75.00	Sq.Mt.	0.00	0.00
35	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleaning the surface of all dirt, dust and other foreign matter. Rate shall be inclusive of the cost of scaffolding Complete as per Directed by Engineer In charge	75.00	Sq.Mt.	0.00	0.00
36	Metal Paint : Providing and applying two coats of abduct cured modified epoxy marine paint of 150 micron each and 50 micron top coat of acrylic pu finish.Including surface preparation by dry abrasive blasting of 45 to 60 microns with cleaning and removal of all dirt, grease, varnish, paint or any other foreign matter, including thinner and all accessories. Sample to be approved before starting of the work by Architect/ EIC. Rate shall be inclusive of the cost of scaffolding. (Brands : Jotun, dulux)	150.00	Sq.Mt.	0.00	0.00
Demolition , Removal Work					
37	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	15.00	Cu.Mt.	0.00	0.00
38	Removing and scraping of old deteriorated plaster of any thickness from wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift	200.00	Sq.Mt.	0.00	0.00
Display Unit, Loose Furniture ,					
39	Providing & fixing of Glass Cover Display Cabinet Box making from 18mm th Plywood & Laminate finish with MS Pipe Black Powder coated Framing As per Drawing . The base of cabinet is making From 25mm thick plywood with 1mm thk Laminate Finish & above Base Display Box made from 18mm plywood With Laminate on all external side. & Periphery of Box covered with 18mm MS Pipe Frame with Black Powder coating & Cladding with 12mm Toughened Glass and fixed with transparent silicon sealant fixing to frame as per detail drawing. including required Hardware etc Complete as shown in Drawing or as per directed by engg in charge. (MS Frame Size 600mm x 450mm x 1300mm Ht & Middle Wooden Base Box Size	6.00	Nos	0.00	0.00
40	Providing and supplying & fixing of Open Display Rack size of 2200mm x 300 mm x 2140 mm ht which should support angles 25 x 25 x 4mm Legs and should be provided Middle Support Frame and painted finish for long time usage. Further, it should be MS powder coated finish which can provide for optimum corrosion resistance. It should be steady enough to keep bulky stuff easily up to 60kg to 75 kg per shelf capacity. It should include 18mm thk Plywood With Both side Laminated self with an Fixed arrangement, should have greater depth support, and should be completely flexible to use, heavy-duty structural steel section, and others. Offered angle racks should be designed utilizing the finest quality of material and sophisticated technology in compliance with set standards of the industry. As	4.00	Nos	0.00	0.00

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41	Providing and supplying & fixing of Decorative Open Display unit size of 2550mm x 300 mm x 2140 mm ht Display unit Made From 18mm Plywood box with all exposed Side Finish with 1mm Laminated. Wooden box Size & shape as per Drawing Various size of Box) should be Fixed in 25x25mm x 1.2mm MS Powder Coated Framing Legs and Middle Support Frame painted with Epoxy Paint for long time usage. Unit with Fixed arrangement, should have greater depth support, and should be completely flexible to use, heavy-duty structural steel section, and others. MS Member should be designed utilizing the finest quality of material and sophisticated technology in compliance with set standards of the industry. As approved by Architect. (Including transportation, loading, unloading and erecting/installation/placing of item at site as directed by Engineer in charge.) Size: 2550mm x 300mm x 2140mm Complete as	4.00	Nos	0.00	0.00
42	Providing and Supplying of An Artist horse (Donkey) Bench (Fold able) with Drawing Board constructed from 25mm thk solid teak wood Planks Finished in Melamine or Natural Polish as per Directed. all members like Seat, Front portions are Making with 25mm Solid Teak wood & Teak wood Legs as per Drawing (size of Bench 36" x 12" x 32" Ht) Length 36" x Seat Height 17" x seat width 12" & board Front height 32" as per drawing. Rate also including of Drawing Board (Size 16" x 23") Made from finest quality natural seasoned pinewood making it the best drawing surface to own. & Strong natural pinewood battens at the back to avoid any kind of warping and provide extra support to the board. Battens help in easy transportation of the board as well. Also provide Folding Mechanize with Required Hardware, Hinges, support frame etc. Designed & making with easy portability, with folding or collapsible features, making it convenient for artists who need to move their workspace or attend outdoor painting sessions. Complete as per Drawing or as per directed by	25.00	Nos	0.00	0.00
Fire Fighting Work					
43	Supplying, installation testing and commissioning of the following 'C' class MS Pipe as per IS: 1239-1973 tested to 200 PSI complete with fitting & welding of pipes & fittings wherever required complete with flanges & painting, with all the engineered support as per detail technical specification, underground/overground pipes with welded / flange connection with saddles, supports (all with screwed/welded joints) as required including pipe of shorter lengths, tapering connecting pieces, short or long bends, specials like sockets, union nuts, elbows, reducers, plugs, Tees etc. complete to make the system operative as required by LFA authorities the pipes will have to be laid and fixed in trenches. The work includes excavation in all types of soils and back filling, dewatering, etc., making holes in brick or RCC walls, slabs/ roofs and making good the damages by bringing to the original condition to the satisfaction of the Architect and painting two coats of approved shade (Post office red) of enamel paint over a coat of approved primer for over heads pipes and providing and fixing pypkote (corrosion protection tape) including supply and application of pipe coating and spiral Wrapping for underground piping (complete as per ASTM standards/IS:10221 for corrosion protection of pipes for the under ground installation. Note: The piping installation has to be put to hydraulic test to 1.5 times the working pressure & as per latest applicable codes & standard before applying paint or pipe coating or wrapping etc. complete. aping should have overlap of 15 to 20	20.00	R.Mt.	0.00	0.00
44	Supplying, installation testing and commissioning of the following 'C' class MS Pipe as per IS: 1239-1973 tested to 200 PSI complete with fitting & welding of pipes & fittings wherever required complete with flanges & painting, with all the engineered support as per detail technical specification, underground/overground pipes with welded / flange connection with saddles, supports (all with screwed/welded joints) as required including pipe of shorter lengths, tapering connecting pieces, short or long bends, specials like sockets, union nuts, elbows, reducers, plugs, Tees etc. complete to make the system operative as required by LFA authorities the pipes will have to be laid and fixed in trenches. The work includes excavation in all types of soils and back filling, dewatering, etc., making holes in brick or RCC walls, slabs/ roofs and making good the damages by bringing to the original condition to the satisfaction of the Architect and painting two coats of approved shade (Post office red) of enamel paint over a coat of approved primer for over heads pipes and providing and fixing pypkote (corrosion protection tape) including supply and application of pipe coating and spiral Wrapping for underground piping (complete as per ASTM standards/IS:10221 for corrosion protection of pipes for the under ground installation. Note: The piping installation has to be put to hydraulic test to 1.5 times the working pressure & as per latest applicable codes & standard before applying paint or pipe coating or wrapping etc. complete. aping should have overlap of 15 to 20	120.00	R.Mt.	0.00	0.00

Name of Work :- Work of Infrastructure Development includes Parking shed, refurbishment and up-gradation with fire fighting & cctv surveillance at Stone Artisan Park for SAPTI located at Stone Artisan Park , Dhrangadhra, Halvad By Pass Road, Dist - Surendra Nagar, Gujarat.

PRICE BID					
Sr.No	Item Description	Qty.	Unit	Rate	Amount
45	Supplying, installation testing and commissioning of the following 'C' class MS Pipe as per IS: 1239-1973 tested to 200 PSI complete with fitting & welding of pipes & fittings wherever required complete with flanges & painting, with all the engineered support as per detail technical specification, underground/overground pipes with welded / flange connection with saddles, supports (all with screwed/welded joints) as required including pipe of shorter lengths, tapering connecting pieces, short or long bends, specials like sockets, union nuts, elbows, reducers, plugs, Tees etc. complete to make the system operative as required by LFA authorities the pipes will have to be laid and fixed in trenches. The work includes excavation in all types of soils and back filling, dewatering, etc., making holes in brick or RCC walls, slabs/ roofs and making good the damages by bringing to the original condition to the satisfaction of the Architect and painting two coats of approved shade(Post office red)of enamel paint over a coat of approved primer for over heads pipes and providing and fixing pypkote (corrosion protection tape) including supply and application of pipe coating and spiral Wrapping for underground piping (complete as per ASTM standards/IS:10221 for corrosion protection of pipes for the under ground installation. Note : The piping installation has to be put to hydraulic test to 1.5 times the working pressure & as per latest applicable codes & standard before applying paint or pipe coating or wrapping etc. complete. aping should have overlap of 15 to 20	450.00	R.Mt.	0.00	0.00
46	Supplying, installation testing and commissioning of the following 'C' class MS Pipe as per IS: 1239-1973 tested to 200 PSI complete with fitting & welding of pipes & fittings wherever required complete with flanges & painting, with all the engineered support as per detail technical specification, underground/overground pipes with welded / flange connection with saddles, supports (all with screwed/welded joints) as required including pipe of shorter lengths, tapering connecting pieces, short or long bends, specials like sockets, union nuts, elbows, reducers, plugs, Tees etc. complete to make the system operative as required by LFA authorities the pipes will have to be laid and fixed in trenches. The work includes excavation in all types of soils and back filling, dewatering, etc., making holes in brick or RCC walls, slabs/ roofs and making good the damages by bringing to the original condition to the satisfaction of the Architect and painting two coats of approved shade(Post office red)of enamel paint over a coat of approved primer for over heads pipes and providing and fixing pypkote (corrosion protection tape) including supply and application of pipe coating and spiral Wrapping for underground piping (complete as per ASTM standards/IS:10221 for corrosion protection of pipes for the under ground installation. Note : The piping installation has to be put to hydraulic test to 1.5 times the working pressure & as per latest applicable codes & standard before applying paint or pipe coating or wrapping etc. complete. aping should have overlap of 15 to 20	200.00	R.Mt.	0.00	0.00
47	Providing Supplying and fixing 80 mm dia cast iron butterfly valve complete with epoxy coated disc, carbon steel shaft and lever actuator including flanges and nut bolts etc complete as per I.S 13095 of PN16 rating, for isolation	25.00	Each	0.00	0.00
48	Providing Supplying and fixing 100 mm dia cast iron butterfly valve complete with epoxy coated disc, carbon steel shaft and lever actuator including flanges and nut bolts etc complete as per I.S 13095 of PN16 rating, for isolation	8.00	Each	0.00	0.00
49	Providing Supplying and fixing 150 mm dia cast iron butterfly valve complete with epoxy coated disc, carbon steel shaft and lever actuator including flanges and nut bolts etc complete as per I.S 13095 of PN16 rating, for isolation	4.00	Each	0.00	0.00
50	Providing Supplying and fixing hydrant stand posts of 80 mm dia. With flanges and accessories and supply, fixing single headed 63 mm dia G.M. Hydrant Valve in the courtyard IS:5290 Including 2 coats of approved enamel paint (red) over a coat of primer, complete with 2.1/2" 'Morris pattern instantaneous couplings, etc. complete. yard hydrant 63 mm	25.00	Each	0.00	0.00
51	Providing and fixing approved fire hose cabinet size 600x 750x 250mm to house fire hydrant & hose, including all other related accessories fabricated from M.S. sheet (14 Gauge) of fully welded construction having front door with locking arrangement, partially glazed with 4 mm thick glass. Cabinet shall be powder coated & painted with post office red colour of size as mentioned in drawing (or as approved by the Architect) to house 15 mt.x2 No. hoses, Hose Cabinet for External yard Hydrant	25.00	Each	0.00	0.00
52	Supplying and fixing first-aid 40 meter long Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585. 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipment on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.	25.00	Each	0.00	0.00
53	Providing & fixing 63 mm dia RRL hose pipe as per IS 636 TYPE A LFA approved of 15 mt. x 2 No. standard length of approved pattern and size including gun metal male and female Coupling duly bound with copper wire etc. Complete 63 mm RRL Hose 15mtr x 2 No.	25.00	Set	0.00	0.00
54	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to inter connect hose pipe coupling as required as per approved make.	25.00	Each	0.00	0.00

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PRICE BID					
Sr.No	Item Description	Qty.	Unit	Rate	Amount
55	Supplying and fixing 4 way Fire Brigade service inlet of size 150 mm dia. with 4 No. 63mm (2.1/2") size GM male outlets (bronze male coupling) including metallic cover of mild steel and glass front, indicator plates,150mm BFV, NRV, etc. complete	1.00	Each	0.00	0.00
56	Supplying and fixing 2 way Fire Brigade service inlet of size 100 mm dia. with 2 No. 63mm (2.1/2") size GM male outlets (bronze male coupling) including metallic cover of mild steel and glass front, indicator plates,100mm BFV, NRV, etc. complete	2.00	Each	0.00	0.00
57	Supplying & installing completely testing & commissioning of centrifugal Multistage type main fire pump (electrical driven) for hydrant main / sprinkler main with cast iron casing & bronze impeller & internal parts, make as approved by ISO/CFO for fire duty, complete with coupling, coupling guard necessary base frame, foundation bolts, RCC foundation, anti vibration paid , capable of discharging 2850 lt/min against 145 mt. head against all losses complete. The scope shall also include electrical TEFC motor, operated on 3-ph, 440-V, 50 Hz, 1500 RPM Syn. speed with 'B' class winding, make as approved by LFA. The pump shall be capable of giving not less than 150% discharge at a head not less than 65% of the rated head. Motor to be of continuous rating etc. complete. Each incomer and Outgoing feeder should be capable for protection against Overload, Short Circuit and Phase reversal condition and shall be capable to communicate with BMS . System should be capable to compensate for frictional losses at lower flows. All alarms should be displayed in the controller&BMS. System should be equipped with dry running protection. Indication of all type of faults / on-off status / electrical parameters shall be available on panel and central IBMS monitors. On-off operation for all pumps shall be available on BMS system. Pump - Motor : Discharge : 2850 LPM, Head 25 mt	1.00	Nos	0.00	0.00
58	Supplying & installing completely testing & commissioning centrifugal multistage type main fire pump (diesel driven) with cast iron casing & bronze or phosphor bronze internal parts, make as approved by ISO/CFO for fire duty, complete with coupling, coupling guard necessary base frame, foundation bolts, RCC foundation,anti vibration paid , capable of discharging 2850 lt/min against 145 mt. head against all losses complete with suitable diesel engine of speed matching the pump speed, auto start facility with battery & battery charger, necessary wiring, fuel tank ,exhaust system, foundation gauges & wired for automatic start of the water pump on drop of pressure in the hydrant and sprinkler system. The pump should confirm to LFA / SEB & and IE Regulations. The pump shall be capable of giving not less than 150% discharge at a head not less than 65% of the rated head. Pumping System shall be capable to communicate with BMS . System should be capable to compensate for frictional losses at lower flows. All alarms should be displayed in the controller&BMS. Indication of on-off status parameters shall be available on panel and central IBMS monitors. On-off operation for all pumps shall be available on BMS system. Pump - Diesel Engine : Discharge : 2850 LPM, Head : 25 mt.	1.00	Nos	0.00	0.00
59	Supplying, installing, testing and commissioning of Vertical Centrifugal Multistage type jockey pump -motor with discharge 180 lpm against 155 mt. head with 3 phase, 415 V, 50 Hz motor having 2900 RPM, complete with coupling, coupling guard necessary base frame, foundation bolts, RCC foundation,anti vibration paid , as per site conditions and instructions of site engineer-in-charge including proper fixing. The electrical motor for the pump should comply as per Specification. The scope shall also include necessary coupling, coupling guard, base frame, foundation bolts, RCC foundation, etc. complete. Each incomer and Outgoing feeder should be capable for protection against Overload, Short Circuit and Phase reversal condition and shall be capable to communicate with BMS . System should be capable to compensate for frictional losses at lower flows. All alarms should be displayed in the controller&BMS. System should be equipped with dry running protection. Indication of all type of faults / on-off status / electrical parameters shall be available on panel and central IBMS monitors. On-off operation for all pumps shall be available on BMS system. Pump - Motor : Discharge : 180 LPM, Head : 25 mt.	1.00	Nos	0.00	0.00

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PRICE BID					
Sr.No	Item Description	Qty.	Unit	Rate	Amount
60	MCC for Fire Power Panel : Design, manufacture, supply ,installation, testing and commissioning of following MCC panels suitable for 415V, 3 phase, 4 wire, 50 hz power distribution system.the panel should be indoor/outdoor, free standing, floor mounting, sheet metal clad, Cubicle, dead front, dust and vermin proof conforming to min IP-55 enclosure, compartmentalized design fabricated out of 14 SWG sheet steel complete with Al busbars, separate earth bus bar to be provided through out the length of the panel. The incoming and outgoing feeders shall be accommodated in a modular multi tier arrangement, adequate size cable alley, painting, earthing numbering, damper plate etc. as required as per specifications and drawings. The panel shall withstand a require fault level as per SLD (Cost of PLC and related wiring for switching on and switching off the pumps as per the drawing & as per local CFO requirement) Each incomer and Outgoing feeder should be capable for protection against Overload, Short Circuit and Phase reversal condition and shall be capable to communicate with BMS. System should be capable to compensate for frictional losses at lower flows. All alarms should be displayed in the controller&BMS. System should be equipped with dry running protection. Indication of all type of faults / on-off status / electrical parameters shall be available on panel and central IBMS monitors. On-off operation for all pumps shall be available on BMS system. NOTE : Separate neutral link to be provided wherever TP MCCB are used.All MCCB shall have breaking capacity as per suitable fault level unless otherwise specified.Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price.following provisions to be made in the fire panel:Audio visual alarm and indications having disconnect/reset facilities with a range of 1/2 Km. The indication shall come on when electrical driven pump set fails to start on pressure drop Facility for more selections i.e. auto or manual.Protection failure and control cabling.Interlocking with Diesel engine pump / D.G. set Local Push button (Start STOP) for fire equipment at each floor, if require, shall be provided as per drawing and as per direction of Local fire regulation The above requirement is general, in addition to that the vendor shall provide all the component/system/work for the proper operation of fire pumps as per fire rules & regulations and as per local CFO's requirement Supply, installation, assembly, connection, testing and commissioning of Fire power panel as per Drawing, Remote On OFF switch operation as per Item no. 5.10.3, Specification, Technical Data sheet & IS. & Single Line Diagram.	1.00	Set	0.00	0.00
61	Providing ,Supply ,installation , testing and commissioning of plate type / pipe type earthing station for various electrical equipment and systems as per Specification , IS : 3043 and standard drawing complete with following 38 mm. N.B., 3.0 MTR.. long G.I. Pipe (class B) type earthing station	2.00	Nos	0.00	0.00
62	Providing,Supply & installation of 25 x 6 G.I Strips	20.00	R.Mt.	0.00	0.00
63	Supply, laying testing and commissioning of L.T. XLPE armoured / unarmoured cable conforming to IS : 7098 Part - II with cable end termination as per the description : 3 C x 120 Sq. MM. AL XLPE ARM Cable	40.00	R.Mt.	0.00	0.00
64	Supply, laying testing and commissioning of L.T. XLPE armoured / unarmoured cable conforming to IS : 7098 Part - II with cable end termination as per the description : 3 C x 6 Sq. MM. Cu. XLPE Aarmoured Cable	30.00	R.Mt.	0.00	0.00
65	Supply, laying testing and commissioning of L.T. XLPE armoured / unarmoured cable conforming to IS : 7098 Part - II with cable end termination as per the description : 5 C x 2.5 Sq. MM. Cu.PVC Armoured Cable (Control Cable)	60.00	R.Mt.	0.00	0.00
66	Supply, fixing, connection, testing and commissioning of double compression brass cable glands and crimping type lugs / sockets with necessary tools and equipment as specified in specifications and IS. The glands and lugs / sockets shall be suitable for cable size and type mentioned above. The job also includes, if necessary, supply and fixing of extension busbar of same material on circuit breaker / FSU or panel board terminal / connector to connect more than one no. of parallel cables or to connect higher size cable to lower size unit. The job also includes earthing the glands and armour of the cable with common earth bar or flexible copper mesh. 3 C x 120 Sq. MM. Cu. XLPE ARM Cable	4.00	Nos	0.00	0.00
67	Supply, fixing, connection, testing and commissioning of double compression brass cable glands and crimping type lugs / sockets with necessary tools and equipment as specified in specifications and IS. The glands and lugs / sockets shall be suitable for cable size and type mentioned above. The job also includes, if necessary, supply and fixing of extension busbar of same material on circuit breaker / FSU or panel board terminal / connector to connect more than one no. of parallel cables or to connect higher size cable to lower size unit. The job also includes earthing the glands and armour of the cable with common earth bar or flexible copper mesh. 3 C x 6 Sq. MM.	4.00	Nos	0.00	0.00
68	Supply, fixing, connection, testing and commissioning of double compression brass cable glands and crimping type lugs / sockets with necessary tools and equipment as specified in specifications and IS. The glands and lugs / sockets shall be suitable for cable size and type mentioned above. The job also includes, if necessary, supply and fixing of extension busbar of same material on circuit breaker / FSU or panel board terminal / connector to connect more than one no. of parallel cables or to connect higher size cable to lower size unit. The job also includes earthing the glands and armour of the cable with common earth bar or flexible copper mesh. 5 C x 2.5 Sq. MM. Cu.PVC Armoured Cable (Control Cable)	8.00	Nos	0.00	0.00
69	Providing and fixing Power wiring with 12 core x 1.5 sq.mm. PVC armoured copper cable for wiring pressure switches, etc. Including all required material and labour, terminations, etc. Complete.	40.00	R.Mt.	0.00	0.00
70	SITC of precharged MSEP air vessel (size 600mm dia x 1000 mm height) with adequate pressure switches with valves to operate as per operating sequence including 25 mm drain valve, air release valve with stop cock on top, 25 mm inlet with isolation valve & the vessel shall be painted inside & outside. The tank shall be fabricated from 8 mm thick MS plate with painting	1.00	Nos	0.00	0.00

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PRICE BID					
Sr.No	Item Description	Qty.	Unit	Rate	Amount
71	Supply, installation, of 100 mm dial Pressure gauge with Syphon tubing, isolation valve & mounting accessories complete Range : 0 - 10 kg/sq.cm.	4.00	Set	0.00	0.00
72	Supply, installation, testing & commissioning of metallic SS 304 bellows on discharge side of pump conforming to EJMA with all hardware, Size: 150 mm companion flanges & gaskets, etc.	2.00	Set	0.00	0.00
73	Supply, installation, testing & commissioning of metallic SS 304 bellows on discharge side of pump conforming to EJMA with all hardware, Size: 100 mm companion flanges & gaskets, etc.	1.00	Set	0.00	0.00
74	Supply, installation, testing & commissioning of metallic SS 304 bellows on discharge side of pump conforming to EJMA with all hardware, Size: 50 mm companion flanges & gaskets, etc.	1.00	Set	0.00	0.00
75	Supply, installation, of 6 Kg ABC (Powder Type) Fire Extinguisher. In HP Mild Steel Cylinders ISI marked fitted with pressure indicating gauge, internal tube, squeeze lever type valve fully charged with ABC powder (Mono Ammonium Phosphate) pressured by Nitrogen complete in all respects including wall suspension bracket and conforming to IS:15683	15.00	Nos	0.00	0.00
76	Supply, installation, of ISI marked (IS:15683) portable fire extinguisher, water (gas pressure) type capacity 9 liters with gun metal cap and nozzle and complete in all respects including initial fill and wall suspension brackets	5.00	Nos	0.00	0.00
77	Supply, installation, of ISI Marked portable fire extinguisher , 4.5 kg CO2 type fire extinguishers complete in all respect including initial fill and wall suspension brackets & shall conform to IS 2878	20.00	Nos	0.00	0.00
78	ISI marked Fire Extinguisher, Dry Chemical powder type capacity 5 kgs conforming to IS : 2171 including first fill & wall suspension bracket.	5.00	Nos	0.00	0.00
79	Supplying and installing at approved location approved make fire buckets (3 nos./set) of 24 gauge galvanized steel sheet, standard 9 litre capacity and of round bottom shape, painted white inside and black on the bottom, inscribed with letters " FIRE" in black and gold with dry clean fire sand. The scope shall also include the stand for mounting the sand bucket	2.00	Nos	0.00	0.00
80	Charges for Liasoning with CFO and getting all approvals and permissions & NOC 's required for fire fighting at various stages & after completion of the project.(All official and receipted payments would be submitted and Re-reimbursed)	1.00	Job	0.00	0.00
CCTV Work					
81	Supply, Installation, testing and commissioning of Cat6 Tool less Information outlet for Data & Voice. Cat6 U/UTP built in crimping mechanism with capability of re termination without refreshing the wires. LCS2 Tool less RJ45 Information outlet with insertion cycle (in & out) should be 2500 times (I/O) along with front side Label holder and transparent shutter. The Information Outlet connector shall be of gold/nickel, thickness of gold > 0.8 µm.3.3.10 The connectors shall be compliant with standards ISO/IEC 11801 Edition 2, CENELEC EN 50173-1 2007, ANSI/EIA/TIA 568-C.2, IEC series 60603-7 & also compatible as per IEEE 802.3af standard for PoE application.	70.00	Nos	0.00	0.00
82	Supply, Installation, testing and commissioning of 24 port Cat 6 19" Modular Patch Panel enable all possible combinations of the various types of cable (UTP, FTP, SFTP) mounted on the same panel by using various tool less connector blocks/modules. Have a metal structure enabling them to be durably fixed to the uprights of the 19" chassis and assuring automatic grounding between tool less RJ-45 connectors, the panel, and the 19" uprights of the enclosure. Include rear cable support with plastic cable guides to hold cable without need for cable ties. Include quick mounting system to mount the panel into the 19" rails without use of cage-nuts. Allow controlled access solutions to lock the empty ports of the panels (with a shutter) and to lock the patch cords in the ports. These may be used to secure the connections of WiFi access points, IP cameras, servers, or other critical devices. The modular patch panel should also enable combinations of fiber optic cassettes, transceivers or Power over Ethernet injector modules to be mounted on the same panel by using tool less connector blocks/modules. Front Removal IO's option for maintenance and trouble shooting with 6 Different Colors Labels for Labeling & Identification of Individual Ports. Tested and guaranteed under dual circuit IEEE PoE+ up to 50W for up to 2500 on-load connections / disconnections. Supply, installation, testing & commissioning	6.00	Nos	0.00	0.00
83	Supply, Installation, testing and commissioning of Cat6 Tool less Information outlet for Data & Voice. Cat6 U/UTP built in crimping mechanism with capability of re termination without refreshing the wires. LCS2 Tool less RJ45 Information outlet with insertion cycle (in & out) should be 2500 times (I/O) along with front side Label holder and transparent shutter. The Information Outlet connector shall be of gold/nickel, thickness of gold > 0.8 µm.3.3.10 The connectors shall be compliant with standards ISO/IEC 11801 Edition 2, CENELEC EN 50173-1 2007, ANSI/EIA/TIA 568-C.2, IEC series 60603-7 & also compatible as per IEEE 802.3af standard for PoE application.	70.00	Nos	0.00	0.00
84	Supply, installation, testing & commissioning of CAT6 UTP 24 AWG Patch Cord - 1 mt with cross separator, Manufactured from stranded wires for longer flex-life, Conforming to the following standards like EN 50173, ISO/IEC 60603-7 & 11801/IEC 60332-1, UL VW-1	140.00	Nos	0.00	0.00

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PRICE BID					
Sr.No	Item Description	Qty.	Unit	Rate	Amount
85	Supply, Installation, testing and commissioning of 19" slide-in drawers with galvanized steel accommodates up to 4 fiber optic units, 4 cables, accommodates up to 24 SC /LC connectors and 24 LC connectors. Should meet EN50173 and ISO/IEC 11801 operating specifications. (No SC connector required)	8.00	Nos	0.00	0.00
86	Supply, Installation, testing and commissioning of 19" slide-in drawers with galvanized steel accommodates up to 4 fiber optic units, 4 cables, accommodates up to 24 SC /LC connectors and 12 LC connectors. Should meet EN50173 and ISO/IEC 11801 operating specifications. (No SC connector required)	16.00	Nos	0.00	0.00
87	Supply, installation, testing & commissioning of Fiber optical cable 2 Meter LC-LC Patch Cord	40.00	Nos	0.00	0.00
88	Supply, laying and fixing of 6 core indoor /outdoor OS2 Armoured single mode Optical Fiber cable of size 50/125µm. outdoor rated with U/V stabilized sheath, Central Loose Tube Jelly filled construction, Permanent tensile strength minimum 500N, Maximum installation load 1500N, Impact resistance 20J, Crush resistance 3000N/100mm, Low Smoke Zero halogen jacket, fire rated for IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2 and confirming to ISO/IEC 11801 ed2:2002 (TIA/EIA 492AAAB) through existing GI/HDPE/ Hume pipe or on cable trays inside the cable duct including all necessary fixing accessories e.g. cable ties, hardware etc	1800.00	R.Mt.	0.00	0.00
89	Supply, laying and fixing of CAT - 6 UTP Cable 24AWG cross separator, Manufactured from stranded wires for longer flex-life	5200.00	R.Mt.	0.00	0.00
90	Supply, installation, testing & commissioning of 9U capacity wall mounted Cabinet / Rack with top bottom cable entry plates, ventilation grills at side complete with all mounting accessories , cable manager ,tray, ventilation fan, Power Manager & earthing strins - OUTDOOR Rack	8.00	Nos	0.00	0.00
91	Supply, installation, testing & commissioning of IO Box for camera (IO,Patch code,and Box with face plate)	70.00	Nos	0.00	0.00
92	Supply, Installation, Testing and Commissioning of 2MP IR Bullet Camera- CMOS 2.8 mm, horizontal FOV 112.1°, vertical FOV 60.0°, diagonal FOV 132.2° 4 mm, horizontal FOV 90.2°, vertical FOV 48.6°, diagonal FOV 107.6° Camera shall be suitable for outdoor application	50.00	Nos	0.00	0.00
93	Supply, Installation, Testing and Commissioning of 2MP IR Dome Camera- CMOS 2.8 mm, horizontal FOV 112.1°, vertical FOV 60.0°, diagonal FOV 132.2° 4 mm, horizontal FOV 90.2°, vertical FOV 48.6°, diagonal FOV 107.6° Camera shall be suitable for Indoor application	20.00	Nos	0.00	0.00
94	SITC of Layer 2 manageable networking switch, min. 8 # 10/100/1000 BT ports, all 8 ports supporting PoE+ as per IEEE 802.3a/t and having a total PoE budget of minimum 65 watts, minimum 2 dedicated SFP ports.	2.00	Nos	0.00	0.00
95	SITC of Layer 2 manageable networking switch, min. 16 # 10/100/1000 BT ports, all 16 ports supporting PoE+ as per IEEE 802.3a/t and having a total PoE budget of minimum 65 watts, minimum 2 dedicated SFP ports.	2.00	Nos	0.00	0.00
96	SITC of Layer 2 manageable networking switch, min. 24 # 10/100/1000 BT ports, all 24 ports supporting PoE+ as per IEEE 802.3a/t and having a total PoE budget of minimum 65 watts, minimum 2 dedicated SFP ports	4.00	Nos	0.00	0.00
97	Supply, Installation, Testing and Commissioning of 64 Channel NVR with 4K Support and 2 HDD Slot, 16 IP Channel Inputs, HDMI, 1/1 Audio I/O and 2/1 Alarm I/O, 12MP, 8MP, 5MP, 3MP, 2MP, 1080P, D1 & CIF Recording Resolution, 5 x 4k/16 x 3MP/24 x 1080P/54 x 720P/64 x D1 Decoding, 2 SATA HDD Support (10TB Capacity per Slot, Hard Disk Not Included), Save up to 50% on Storage with H.265, Adaptive Recording & Camera-wise Recording Retention, SMS & Email Notification/ Calling from Mobile Application, 512Mbps Throughput - 256 Uplink, 256 Downlink, Cascading: Built-in CMS to Monitor and Manage Multiple Matrix NVRs, ONVIF and Major Camera Brands Support, RAID0 & RAID1 Support	2.00	Nos	0.00	0.00
98	Supply, Installation, Testing and Commissioning of 14TB Hardisk.	8.00	Nos	0.00	0.00
99	Operator Terminals for viewing the cameras with licenses with monitors (32' LCD Displays). It is required that 18 camera shall be displayed on one monitor.	1.00	Nos	0.00	0.00
100	Supply, installation, testing & commissioning of HDMI Cable(20 Meter)	2.00	Nos	0.00	0.00
101	Supply, installation, testing & commissioning of 50 x 25 perforated Cable tray	50.00	R.Mt.	0.00	0.00
102	Excavation for Soft soil For Trench work, Pole Foundation Etc Including Re Filling Complete as Directed	200.00	R.Mt.	0.00	0.00
103	Supply, Installation, Testing and Commissioning of 25 mm PVC Conduit	800.00	R.Mt.	0.00	0.00
104	Supply, installation, testing & commissioning of 63mm Dwc Pipe	1200.00	R.Mt.	0.00	0.00
105	SITC of 3meter Pole for CCTV installation with IP 65 Camera Stand along with foundation	30.00	Nos	0.00	0.00
106	Supply, installation, testing & commissioning of 100 x 100 mm junction box for camera installation	50.00	Nos	0.00	0.00
	Grand Total				