



INDIAN COMMERCE ASSOCIATION

TENDER NOTICE

CONSTRUCTION OF INSTITUTIONAL BUILDING AT NOIDA

Sealed Tenders are invited from the experienced firms for the construction of an Institutional Building for the Indian Commerce Association at GREATER NOIDA (U.P.) as per the given Building Plan. Firms are required to submit the 'Financial Bid' latest by 07-08-2018 upto 5.00 p.m. Firms are advised to keep the following points in mind while filling up the Tender Form:

1. Your Tender Document must reach the Secretary, Indian Commerce Association on or before 07-08-2018 upto 5.00 p.m.
2. The sealed tender must be sent through registered post/speed post to the following address:

Dr Narender Kumar
Secretary
Indian Commerce Association
Kothi No 3, Officers Residences
M.D.U. Campus
Rohtak -124001 Haryana

3. Every tender must be accompanied by a caution money worth Rs.500000 (Rs Five Lakhs Only) in the form of a Demand Draft Payable at Amritsar.
4. The tender document must signed on every page by the authorized person of the firm.
5. The tender document must be accompanied by the sufficient documentary proofs in support of the claims made therein.
6. The total building consists of Stilt + Four Floors but in the first phase only Stilt + First Floor shall be constructed.
7. Rates must be quoted for the Stilt + First Floor
8. The Load Bearing Capacity of the Pillars etc should be according to the Stilt + Four Floors as proposed.
9. The floor wise map of the building is given in the tender document.
10. Although the tender document is self explanatory yet the firm may clarify any special conditions which they wish to impose.
11. The other terms and conditions etc shall be mutually decided at the time of finalisation of the agreement.

Details of the Firm

Name of the Firm :

Address of the Firm:

Nature of the Firm (Sole Proprietary, Partnership, Pvt Company, etc).....

Contact Details: Email:

Phone No:

Name of the Authorized Person:.....

Relationship of the Authorized Person with the Company:.....

PAN/TAN.....GST NO.....

Annual Turnover (Last Three Years) Year 1 Rs.....

Year 2 Rs.....

Year 3 Rs.....

(Please enclose Balance Sheet and Income Tax Return Copy for the Last Three Years)

Experience to Constructing Institutional Buildings (Give Details with Proof Thereof)

Tie Ups Details with the Suppliers (Please give item wise details with proof)

Any other detail which supports your claim for the work:

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Signature and Stamp of the Authorized Person

Estimate for IIS University**Abstract of Cost**

SN	Sub-head	Amount
Civil & Finishing Work		
A	Earth Work	0
B	Plain Cement & Concrete	0
C	Reinforced Cement & Concrete	0
D	Masonry Work	0
E	Plaster Work	0
F	Doors and Windows	0
G	Flooring Work	0
H	Steel Work	0
I	Colour & Paint	0
J	Water Proofing & Terracing	0
K	Miscellaneous Work	0
Total of Civil & Finishing Work		0
Plumbing Work		
A	SANITARY FIXTURES (FIXING RATE ONLY)	0
B	SOIL, WASTE & VENT AND RAIN WATER PIPES	0
C	WATER SUPPLY	0
D	SEWERAGE AND DRAINAGE	0
Total of Plumbing Work		0
Electrical Work		
A	INTERNAL WIRING	0
B	PANEL, MCB & DB	0
C	EARTHING & PIPING	0
D	TELEPHONE WIRING/CABLING	0
E	COMPUTER WIRING	0
F	CABLES	0
G	FIXTURES	0
H	ELEVATOR	0
Total of Electrical Work		0
Total Estimate in INR		0

CIVIL & FINISHING WORK					
S.No.	Particulars	Unit	Qty	Rate	Amount
A. EARTH WORK					
1	Site Clearance Clearing the site / areas of shrubs, vegetation, grass, trees and saplings of girth up to 30cm (measured at 1m height from ground level) including removal of roots to a minimum depth of 60cm and disposal of rubbish outside the periphery. all lead and lift complete as directed by Engineer-in-charge.	Sqm	1200		0
2	Earth work in excavation in foundation trenches or drains including dressing of sides and ramming of bottoms, lift upto required depth Including taking out the excavated soil and depositing and refilling of jhiri with watering and ramming and disposal of surplus excavated soil as directed within a lead of 50 Mtr. All kind of soils.				
a	Depth upto 1.5m	Cum	350		0
b	Depth 1.5 m to 3m	Cum	130		0
c	Depth 3m to 4.5m	Cum	30		0
3	Earth work in excavation in foundation trenches or drains including dressing of sides and ramming of bottoms, lift upto required depth Including of taking out the excavated soil and depositing and refilling of jhiri, with watering and ramming and disposal of surplus excavated soil as directed with a lead in a 50 meter including stacking of useful material available.				
a	Ordinary rock	Cum	RO		
b	Hard rock (Requiring Blasting)	Cum	RO		
4	Filling with available excavated earth (excluding rock) in trenches, plinth side of foundation etc. in layers not exceeding 20 cm. In depth, consolidating each deposited layer by ramming and watering including	Cum	450		0
5	Providing & Filling in plinth with locally available river shingle / query rubbish / any other technically acceptable filling material under floors including watering ramming consolidating and dressing complete including cost of shingle / query rubbish . [With prior approval by consultants / engineer in charge].	Cum	30		0
6	Antitermite treatment (with proprietary guarantee for 10 years) Providing and applying, injecting Anti-termite (chloropyriphos) treatment as per IS 6313 supported by Manufacturer's specification for "pre-constructional " Anti - termite treatment creating a continuous chemical barrier, under the foundation Raft slab and pile caps and all around the column pits, all excavated trenches, top surface of plinth filling junction of wall and floor, external perimeter of the building (minimum of 1m width) expansion joints, top surface of consolidated earth for flooring etc. complete as per technical specification or as directed by the engineer in charge Tubing to done under floor at 1.5m centre to centre distance to each run. Injection points to made for chemical injection in future(Plinth area of the ground floor level only shall be measured for payment).	Sqm	350		0
TOTAL OF A					0
B. PLAIN CONCRETE WORK					
7	Providing & laying in position plain cement concrete including curing compaction etc. complete in specified grade including the cost of cantering and shuttering - All work upto the plinth level.				

S.No.	Particulars	Unit	Qty	Rate	Amount
a	1:4:8 (1 cement: 4 Coarse sand:8 graded stone aggregate 20mm nominal size)	cum	40		0
b	1:3:6 (1 cement: 3 Coarse sand:6 graded stone aggregate 20mm nominal size)	Cum	55		0
c	1:2:4 (1 cement: 2 Coarse sand:4 graded stone aggregate 20mm nominal size)	Cum	RO		
8	Providing and laying damp-proof course 100mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size). excluding cost of centring and shuttering and reinforcement Including the cost of water proofing chemical -Fosroc/Sika make	sqm	40		0
Total of B					0
C. REINFORCED CONCRETE WORK					
Form Work					
9	Providing fixing centring & shuttering with plywood or steel sheets for all heights level including shuttering, steel propings, bracing bothway & removal of form work for :-				
a	Foundations, footings, bases of columns etc. for mass concrete.	Sqm	200		0
b	Columns, Pillars, Piers, Abutments, Posts and Struts with all floors	sqm	365		0
b	Retaining Wall & Lift Wall	Sqm	190		0
10	Suspended floors roofs, landings, balconies, staircases, sills, chhajjas, access platform, Lintels, beams, plinth beams, girders and cantilevers, Fins, Facia, louvers, including edges with all floors	sqm	1100		0
Concrete work					
11	Providing and laying reinforced cement concrete in raft, wall footings and column footings, excluding the cost of centring, shuttering and reinforcement steel. (Using minimum 350 kg of cement per cum) M-25 Grade concrete.	Cum	120		0
12	Providing and laying reinforced cement concrete at all ht in Columns, retaining walls (any thickness), Lift wall, Under ground & Overhead water tanks, Lift Machine Room Etc. excluding the cost of centring, shuttering and reinforcement steel.(Using minimum 370 kg of cement per cum) M-30 grade concrete.	Cum	30		0
13	Providing and laying reinforced cement concrete works at all ht in suspended floors, roofs, landings, beams, lintels, stair waist slab, counter slabs etc. but excluding the cost of centring shuttering and reinforcement steel in (Using minimum 350 kg of cement per cum) M:25 Grade Concrete.	Cum	140		0
Reinforcement					
14	Providing and laying steel reinforcement in all reinforced concrete work including supply, handling, cutting, removal of rust if required by wire brush, coating of cement slurry in inhibitor solution, bending, fabricating and placing in position to the shape and profile required as per drawing, tying with 16 SWG annealed steel wire and cost of binding with proper cover blocks, supports, chairs, spacer bars etc. as per specifications and complete in all respects for all heights.				
	High yield strength deformed bars of grade 500 D(confirming to IS 1786) thermo mechanically treated with minimum 14.5% elongation.	KG	38000		0
TOATAL OF C					0

S.No.	Particulars	Unit	Qty	Rate	Amount
D. Masonry Work					
15	Providing Random rubble stone masonry type for foundation and plinth in cement sand mortar equal or above 30 cm. Thick wall in :-				
	In cement mortar 1:6 (1 cement : 6 sand)	Cum	150		0
16	Providing Brick masonry for superstructure with bricks of class designation 75 in :				
	Cement mortar 1:6 (1 Cement : 6 coarse sand)				
	All Floors	Cum	30		0
17	Providing Half Brick masonry for superstructure using bricks of designation 75 in				
	Cement mortar 1:4 and 50 mm thick concrete band having reinforcement of 8 mm 2 nos. At every 1m ht. (1 cement : 4 coarse sand)				
	All Floor	Sqm	700		0
Total of D					0
E Plaster Work					
18	12 mm to 15 mm thick cement plaster in cement mortar 1:6 (1 cement : 6 sand, 50% coarse sand and 50% fine sand) on brickwork. Including Providing & Fixing of Fibre mesh on RCC & Brick Masonry joints & mixing of polypropylene fibre reinforcement for plaster to prevent shrinkage cracks etc. as per manufacturer's specifications (Recron). At all height & levels with scaffolding.	Sqm	1700		0
19	Providing and applying 15 mm thick cement plaster in 1:4 (1 cement : 6 coarse sand) to external wall including scaffolding, water-proofing compound, Fixing of Fibre mesh, polypropylene fibres (Recron) curing etc. and forming uniform horizontal & vertical grooves as desired by architects at all heights and levels, including making chases in brick work and R.C.C. work wherever required, removal of wooden battens, repairs to edges of plaster panels, finishing grooves, providing drips on all horizontal projecting surfaces as per drawings and details. all complete	Sqm	500		0
20	Providing & applying cement plaster 1:3, 15mm in sunken areas of toilet, sump, lift pit etc. including adding approved quality and brand waterproofing compound as per the manufactures approved specification etc.complete.as per the drawing and technical specifications or as directed by the engineer in charge.	Sqm	40		0
TOTAL of E					0
F Doors and Windows					
21	Supplying & fixing door & Window chowkhats and other frames as per drawing, including antitermite treatment. MS flat hold fasts of size 150 x 40 x 3 mm fixed with SS bolt 5mm dia 50mm long duly embedded with cement concrete M-25 grade on wall for all floors & levels.				
a	Teak wood	Cum	0.75		0

S.No.	Particulars	Unit	Qty	Rate	Amount
22	Providing and fixing pressed steel door frames conforming to IS:4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanically means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge.				
a	Profile B	Rmt	RO		
23	Providing and fixing external grade board solid core single leaf flush door shutters ISI 2202-67 marked using Phenol formal dehyderesin in glue both sides with approved steel fittings complete as per drawing including teak wood lipping				
a	35 mm thick, Finished with 1mm thick laminate on both side	Sqm	40		0
24	Providing and fixing external grade board solid core Double leaf flush door shutters ISI 2202-67 marked using Phenol formal dehyderesin in glue both sides with approved steel fittings complete as per drawing including teak wood lipping				
b	35 mm thick, Finished with 1mm thick laminate both side	Sqm	6		0
25	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred 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 directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately)				
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	335		0
26	Providing & Fixing 6mm Toughted glass with require hardware, silicone & EPDM complete.	Sqm	50		0
27	P/F 12mm Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side withing in aluminium frame.	Sqm	20		0
28	Providing & Fabricating MS Gate & Grill with MS standard MS sections like Angle, Flats & Channels Etc. Including welding & frebrication complete at all levels	Kg	1500		0
Total of F					0
G	Flooring Work				
	Floor Sub Base				
29	Random rubble dry stone soling 8" thick under floor. With filling the voids using crusher sand of approved quality.				
	(a) Ground Floor	Sqm	310		0
	Flooring Work				

S.No.	Particulars	Unit	Qty	Rate	Amount
30	Providing Fixing of vitrified tiles size 600 mm x 600 mm x 12 mm thick (1 cement :4 sand) laid on a bed of neat cement slurry including nicely finished joints using joint filler powder and finishing with flush pointing in tile grout mixed with pigment to match the shade of tile complete (including the cost of cement mortar 1:4) Basic rate of tile is 80 Rs/sqft.	Sqm	60		0
31	Fixing 1st quality Anti skid MAT finished ceramic tile size 600x600 mm confirming to IS 13753 colour as approved for toilet floor etc. laid on a bed of neat cement slurry including nicely finished joints using tile groute to match the shade of the complete at all floors, including the cost of cement mortar bed 1:4 & Making of holes for drain points. (Basic rate of tile is 80 Rs/Sqft).	Sqm	30		0
32	Fixing 1st quality ceramic tile size 300x600 mm confirming to IS 13753 colour as approved for toilet wall etc. fixed with cement mortar (1 cement:2 Sand) including nicely finished joints using tile groute to match the shade of the complete at all floors, including the cost of Making of holes for plumbing point. (Basic rate of tile is 80 Rs/Sqft).	Sqm	130		0
33	Providing and Fixing Polished Blue Kota Stone flooring & skirting as approved laid over 20mm thick base of C.M. 1:4 and jointed with grey cement slurry to match the shade of the slab including rubbing and Granite polishing to be done.				
	20mm to 25mm thick slab.	Sqm	100		0
34	Providing & Fixing 25mm thick polished granite stone flooring in floor and laid on 50mm (average) thick cement mortar 1:4 (1 cement: 4 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including polishing complete. (Basic Rate of stone is 100 Sq.ft.)	Sqm	250		0
35	Providing & Fixing 25mm thick polished granite stone flooring in tread & risers of steps and laid on 50mm (average) thick cement mortar 1:4 (1 cement: 4 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including polishing complete. (Basic Rate of stone is 180 Sq.ft.)	Sqm	50		0
a	Making of half round moulding in kota stone as per Drgs.	Rmt	200		0
b	Making of full round moulding in kota stone as per Drgs.	Rmt	RO		
36	Fixing Granite stone slab mirror polished and machine edge cut in walls, pillars, steps, shelves, sills counters, Floors etc. laid on 12 mm (Av.) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) jointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with pigment to match the shade of the granite slab complete including rubbing and polishing of (Mirror Polished).				
	All Floor	Sqm	15		0
37	Providing & Fixing cemented tiles of 25mm thick & size 10"x10"/12"x12" of approved colour & design as per drawing for drive way & parking areas with cement mortar 1:6 (1 cement :6 sand) with propare jointing & finishing complete. Including making of cut for drainage & sewerage manholes.	Sqm	350		0
38	Providing & Fixing CC paver block of 65mm thick M25 grade of concrete of approved shape, colour & design as per drawing for drive way. layed on 50mm fine sand bad. Joints are filled with sand. Ends will close with CC M25.	Sqm	760		0
	Total of G				0
H	Steel Work				

S.No.	Particulars	Unit	Qty	Rate	Amount
39	Providing, Fabrication & Fixing in position M steel gates, grating and grills made of angles, tees, square bars or other flats black pipe with holdfast and fittings complete as per design and drawing including cutting, welding, grinding etc. and fabrication with priming coat of red oxide all complete.				
	All Floor	Kg	3500		0
40	Providing and fixing hand rail by welding etc. to steel ladder railing, balcony railing & staircase railing including applying a priming coat of approved steel primer				
a	M.S.tube 50mm nominal bore	Kg	RO		
41	Providing and fixing in position collapsible steel shutters with vertical MS channels 20 x 10 x 2 mm and bracket with flat iron diagonals 20 x 5 mm size with top and bottom rail of T-iron 40 x 40 x 6 mm with 40 mm dia steel pulleys/ ball bearing complete with bolts, nuts locking arrangements inside and outside stoppers, handles etc. as per specification including applying a priming coat of approved steel primer (To be measured and paid as per outer dimension) with 100 mm opening when closed/				
a	Ground Floor	Sqm	ro		
Total of H					0
I Colour & Paint					
42	Providing and applying oil bound distemper (Asian or nerolac make) including surface prepared using with cement putty (Birla white & JK) to give an even shade. Including all scaffolding fixing & removing complete.				
	New work (two or more coats) over and including scraping and priming coat with cement primer.				
	All Floors	Sqm	250		0
43	Providing and applying 3 or more coats of plastic emulsion paint of approved manufacturer and shade to walls/ ceilings and other similar areas at all levels applied evenly to produce uniform even surface to approved finish including cleaning and preparing the surface puttying as per manufacturers specifications, applying a coat of approved cement primer including scaffolding etc complete all level.	Sqm	1600		0
44	Providing and applying apcolite premium enamel paint on wood (asian & nerolac) on prepared surface to give an even shade. Including all scaffolding fixing & removing etc. complete.				0
	All Floor	Sqm	120		0
45	Providing and applying apcolite premier satin enamel paint on steel (asian & nerolac) on prepared surface to give an even shade. Including all scaffolding fixing & removing etc. complete.				0
	All Floor	sqm	RO		
46	Providing and applying APEX whether proof emulsion asian paint on prepared surface to give an even shade. Including all scaffolding fixing & removing etc. complete.	Sqm	RO		
47	Providing and applying Asian Ultima exterior emulsion asian paint on prepared surface to give an even shade. Including all scaffolding fixing & removing etc. complete. Including 2 coat of Birla putty & 2 coat of cement primer for ultima paint.				0
	All Floor	Sqm	500		0
49	Providing and applying melamine polish on door frames of approved shape at all floors complete with require adatives.	Sqm	65		0

S.No.	Particulars	Unit	Qty	Rate	Amount
	Total of I				0
J	Water Proofing & Terracing				
50	P/L water proofing at water tank with chemical injection method (Pre-constructional) from approved specialized firm as per their specification complete				
	Terrace Floor	Sqm	115		0
51	Toilet Sunken				
	Providing & applying water proofing treatment for sunken portions of toilets thorough cleaning of the surface. Neutralization of the surface by using neutralization chemical mixed with water to avoid the presence any acidic/alkaline substances. Repair of cracks and cavities by using polymer mortar. Application of two coats of tape Crete/same Crete/brush bond waterproofing system on the surface. Complete with labour and material.				
	All Floors	Sqm	60		0
52	Brick bat coba waterproofing				
	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound conforming to IS. 2645 over the RCC slab including cleaning the surface before treatment. (b) Laying cement concrete using broken bricks/brick bats 25 mm to 150mm size with 50% of cement mortar 1:4 (1 cement : 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 to 25 mm thick layer of cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and (c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645. (d) Finishing the surface with 20 mm thick joint less cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300x300xmm square (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge.				
	With average thickness of 120mm and minimum thickness at khurra as 65 mm. (Plan area will be measured and paid)	Sqm	350		0
53	Sunken area filling				
	Providing and laying on sunken areas broken light weight AAC block of approximately 600 kg. per cum density laid, consolidated, finished smooth, including finishing & grouting the top layer with water proof cement mortar with CICO and as per specifications and drawing.				
	All Floor	cum	RO		0
54	Khurras				

S.No.	Particulars	Unit	Qty	Rate	Amount
	Making khurras 450mm x 450mm with average minimum thickness of 50mm cement concrete 1:2:4 finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edges & finishing the outlet complete including providing suitable M.S.Iron grating.	each	8		0
Total of J					0
K Miscellaneous -					
55	Providing & installing modular handrail system with mid rails of AISI 304 grade satin finish stainless steel having 2mm thick tube of 42.3mm dia. handrail, modular and component based floor fixed system, 48.3mm dia 2.6mm thick vertical tube with all necessary bends and joints and erected with base plate anchored to the flooring having in fill of 3 nos. midrails of 16mm dia tube 1.0mm thick complete. Height at the staircase shall be 900mm and at the landing area should be 1100mm complete as per design / drawings.				
All Floors		Rmt	35		0
56	Providing & installing modular handrail system with 6mm thick toughened glass panels with hand rail of AISI 304 grade satin finish stainless steel having 2mm thick tube of 42.3mm dia. handrail, modular and component based floor fixed system, 48.3mm dia 2.6mm thick vertical tube with all necessary bends and joints and erected with base plate anchored to the flooring having in fill of glass 1.0 m high complete. Height at the staircase shall be 900mm and at the landing area should be 1100mm complete as per design / drawings	Rmt	RO		
57	Providing gola 75 x 75 mm in cement concrete (1:2:4) including with cement mortar 1:3 as per standard design.	Rmt	75		0
59	Providing and applying 8 to 12 mm thick P.O.P Punning with grooves on wall to match the pattern given in elevations internal surfaces of approved Brand & shade complete for all floor heights including scaffolding etc. complete as per approved drawing and direction of Engineer-In-Charge. Refer Interior Drawing (Make-Sankarni/Diamond)	Sqm	1700		0
60	Providing & Fixing Gypum board false ceiling with Gyproc Ultra make frameing & 12 mm Gyproc water proof gypsum board in toilet area. Framing will be done as per gyproc spec. Complete the work with tapping, jointing & compunding etc.including scaffolding.	Sqm	30		0
61	Providing & Fixing Gypum board false ceiling with Gyproc Ultra make frameing & 12 mm Gyproc gypsum board in floor area. Framing will be done as per gyproc spec. Complete the work with tapping, jointing & compunding etc including scaffolding	Sqm	280		0
Total of K				RS.	0

PLUMBING WORK					
S.No.	Particulars	Unit	Qty	Rate	Amount
A	SANITARY FIXTURES (FIXING RATE ONLY)				
1	Providing & Fixing vitreous wall hung china water closet of approved without cistern complete with seat and cover, including making connection with soil pipe, cutting and making good the walls and floors wherever required. Basic Rate of WC is 5000 Rs.	4	No.		0.00
2	Providing & Fixing wall concealed W.C cistern of Approved make, making inlet and outlet connections with water supply and W.C. pan respectively, cutting and making good the walls wherever required.	4	No.		0.00
3	Providing & Fixing vitreous wall hung china water closet with cistern complete with seat and cover including making connection with soil pipe, cutting and making good the walls and floors wherever required.	RO	No.		
4	Providing & Fixing vitreous china uninal basin with proprietary C.I. Brackets painted white, C.P. brass waste, C.P. cast brass bottle trap and unions complete, including cutting and making good the walls wherever required. Basic rate of urinal is 4000 Rs.	2	No.		0.00
5	Providing & Fixing vitreous china wash basin complete with waste outlet including making connection with water supply pipe and waste pipe, cutting and making good the walls and floors wherever required. Basic rate of wash basin is 6000				
a	Under Counter / Counter Top Fitting	4	No.		0.00
b	Flat back wall mounted fitting (BR-3000 Rs)	1	No.		0.00
6	Fixing of Bath tub complete with supporting structure, waste outlet , grip handles, overflow, including making connection with waste pipe, cutting and making good the walls and floors wherever required. Size : 1650 mm x 745 mm x 400 mm (Approx)	RO	No.		
7	Providing & Fixing of Kitchen sink with drainboard complete with waste outlet including making connection with waste pipe, cutting and making good the walls wherever required. Material : Stainless Steel	1	No.		0.00
8	Providing & Fixing wall concealed flush valve, making inlet and outlet connections with water supply and W.C. pan respectively, cutting and making good the walls wherever required.	RO	No.		
9	Supply, Installing, testing and commissioning infra-red sensor controlled electric / battery operated automatic urinal flushing system, including cutting and making good the walls complete with all necessary fittings to make it operational as required	2	No.		0.00
10	Providing & Fixing of counter/ basin mounted single lever mixer set.	5	No.		0.00
11	Fixing of wall-mounted Kitchen sink mixer with swivel spout and wall flange.	1	No.		0.00
12	Fixing of Bath tub single lever mixer set.	RO	No.		
13	Providing & Fixing of 4-way concealed diverter mixer fitting including making connections with water supply, cutting and making good the walls wherever required. Basic rate of diverter is 8000 Rs.	2	No.		0.00
14	Providing & Fixing of wall mounted bath cum shower mixer fitting with diverter lever and bend for overhead shower connection including making connections with water supply, cutting and making good the walls wherever required.	2	No.		0.00
15	Providing & Fixing overhead shower rose/hand shower complete with arm/ flexible cord and wall flange.	2	No.		0.00

16	Providing & Fixing bath spout with wall flange	2	No.		0.00
17	Providing & Fixing of bib cock with wall flange	1	No.		0.00
18	Providing & Fixing of hose bib-cock with ball valve arrangement, butterfly handle and fitted with hose coupling, all complete.	RO	No.		
19	Providing & Fixing health faucet complete with flexible tube and wall hook.	4	No.		0.00
Total of Sub Head - A					0.00
B SOIL, WASTE & VENT AND RAIN WATER PIPES					
20	Providing, jointing and fixing SWR uPVC Soil, Waste and Vent System				
	The work shall be done as per technical specifications and in general shall include:				
	Fittings shall include all standard moulded as well as fabricated fittings like bends, tees, Y-tees, crosses, boss connections, access pieces, saddle pieces, cleanouts, adaptors for connections to other materials, plugs, reducers, cowl, offsets and other specials				
	Jointing: Solfit jointing technique in general.				
	Installation, Testing and Commissioning: The installation shall be complete in all respects including cutting chases / holes in walls, slabs, excavation, refilling and disposal of surplus earth where required and making good, etc				
	M.S Supports: All vertical and suspended horizontal pipework shall be fixed on MS brackets and hangers with U-clamps made from 10 mm dia galvanised steel rod complete with nuts and washers. Cost for MS structural work for supports shall be included in the rates				
	Making Good the Structure Crossings: For all horizontal and vertical crossings of building structure (slabs, walls, beams, column etc), the space between pipe and the structure shall be made good and water tight with concrete. The annular space between the pipe and the sleeves shall be sealed (upto a minimum depth 25 mm) with fire resistant acrylic based sealent of approved make and quality.				
a	32 mm dia	25	M		0.00
b	40 mm dia	15	M		0.00
c	50 mm dia	15	M		0.00
d	75 mm dia	70	M		0.00
e	110 mm dia	60	M		0.00
f	160 mm dia	100	M		0.00
21	Laying cement concrete 1:2:4 (1 cement : 2 finesand: 4 graded stone aggregate 15mm nominal size) all around uPVC Pipes in sunker Floor/ burried pipes				
a	32 mm dia	25	M		0.00
b	40 mm dia	15	M		0.00
c	50 mm dia	15	M		0.00
d	75 mm dia	60	M		0.00
e	100 mm dia	60	M		0.00
f	150 mm dia	40	M		0.00
22	Providing and fixing in position medium class G.I. waste pipes (IS:1239) with all necessary specials complete, cutting and chasing walls, floors, etc. and making good the same including painting the pipes with two coats of anti-corrosive paint.				
a	32 mm dia pipe	RO	M		
b	40 mm dia pipe	RO	M		
c	50 mm dia pipe	RO	M		
d	65 mm dia pipe	RO	M		
e	80 mm dia pipe	RO	M		

23	Providing and fixing in position the medium class G.I. pipes (IS:1239) with all fittings, specials & clamps effecting proper connections, cutting chases in walls and floors and making good, including painting with two coats of anti-corrosive paint on buried and concealed pipework and with two coats enamel paint of approved quality and shade over a coat of primer on exposed pipework. (for sump pumps risers)				
a	65 mm dia pipe	RO	M		
b	80 mm dia pipe	RO	M		
c	100 mm dia pipe	RO	M		
24	Providing and fixing of SWR uPVC Floor Traps formed out of bore 'P' trap with 50 mm water seal, setting in 1:2:4 mix cement concrete block or clamping to the wall or suspending with the ceiling including cutting and making good the walls and floors wherever required.				
a	110mm OD inlet and 110mm OD outlet	6	No.		0.00
25	Providing and fixing SWR uPVC floor trap EXTENTION PIECE formed out of 110 mm pipe with multiple side inlets formed with saddle pieces, suitable for 40, 50 and 63 mm dia side connections as per standard detail.	3	No.		0.00
26	Providing and fixing floor drain points formed out of 100 X 50 mm dia reducing elbow with suitable extension piece including cost of cutting and making good the walls and floors wherever required. (Floor drain grating will be paid seperately as per relevant item).	7	No.		0.00
27	Providing and fixing 120 mm dia round stainless steel rotate lock type grating with frame and ABS Plastic cockroach trap, embedded in floor, all complete of following make or equal approved				
	Make : ATGT, China				
	Model: DD 3128	7	No.		0.00
28	Providing and fixing 150 X 150 mm square stainless steel grating with cockroach trap fixed in floor, and suitable for industrial kitchen, all complete of following make or equal approved				
	Make : Chiily				
	Model: CCT-SHT-150 Square	7	No.		0.00
29	Providing, jointing and fixing UPVC Rain Water System.				
	The work shall be done as per technical specifications and in general shall include:				
	Material: UPVC pipes and fittings (moulded as well as fabricated) conforming to IS : 4985 (6Kg.)				
	Fittings shall include all standard moulded as well as fabricated fittings like bends, tees, Y-tees, crosses, boss connections, access pieces, saddle pieces, cleanouts, adaptors for connections to other materials, plugs, reducers, cowl, offsets and other specials				
	Jointing: Solvent cement joints may be provided for fittings				
	Installation, Testing and Commissioning: The installation shall be complete in all respects including cutting chases / holes in walls, slabs, excavation, refilling and disposal of surplus earth where required and making good, etc				
	M.S Supports: All vertical and suspended horizontal pipework shall be fixed on MS brackets and hangers with U-clamps made from 10 mm dia galvanised steel rod complete with nuts and washers. Cost for MS structural work for supports shall be included in the rates				
	Conctere Encasing (In case of Sunken Floor/ burried pipes): The pipes and fittings shall be encased with 75 mm thick cement concrete (1:2:4) all around				

	Making Good the Structure Crossings: For all horizontal and vertical crossings of building structure (slabs, walls, beams, coloumn etc), the space between pipe and the structure shall be made good and water tight with concrete. The annular space between the pipe and the sleeves shall be sealed (upto a minimum depth 25 mm) with fire resistant acrylic based sealent of approved make and quality.				
a	110 mm dia	RO	M		
b	160 mm dia	90	M		0.00
30	Providing and fixing screwed down type cast iron body with aluminium ring and aluminium dome grating with ss screw for rain water pipe and other necessary fittings inlcuding jointing, all complete.(for rain water pipes at terrace), of following make or equal approved.				
a	For 150 mm dia pipe				
	Make : Neer				
	Model : NDG 3004	6	No.		0.00
b	For 100 mm dia pipe				
	Make : Neer				
	Model : NDG 3003	2	No.		0.00
	Total of Sub Head - B				0.00
C WATER SUPPLY					
31	Providing, jointing and fixing CPVC Cold and Hot Water Supply System.				
	The work shall be done as per technical specifications and in general shall include:				
	Material: Upto 2 inch dia — CPVC pipes and fittings conforming to IS: 15778:2007 of SDR 11 Grade. Basic Raw Material of Pipe work - FlowGuard of Lubrizol Inc. USA.				
	Fittings shall include all standard moulded fittings elbows, tees, couplers, reducers, unions, plugs, adaptors with brass threaded insertions and specials.				
	Jointing: Solvent cement jointing. The Solvent Cement shall be of make and grade as specified by the manufacturer of CPVC piping system				
	Installation, Testing and Commissioning: The installation shall be complete in all respects including cutting chases / holes in walls, slabs and making good, etc The entire CPVC piping system shall be installed, tested and commissioned following the recommendation of the manufacturer including provision of expansion loops				
	M.S Supports: All pipework in shafts, ceiling voids and terrace shall be fixed on MS brackets and hangers with U-clamps made from 10 mm dia galvanised steel rod complete with nuts and washers. Cost for MS structural work for supports shall be included in the rates				
	Making Good the Structure Crossings: For all horizontal and vertical crossings of building structure (slabs, walls, beams, column etc), the space between pipe and the structure shall be made good and water tight with concrete. The annular space between the pipe and the sleeves shall be sealed (upto a minimum depth 25 mm) with fire resistant acrylic based sealent of approved make and quality.				
a	15mm	65	M		0.00
b	20mm	120	M		0.00
c	25mm	55	M		0.00
d	32mm	50	M		0.00
e	40mm	40	M		0.00
f	50mm	70	M		0.00

32	Providing, jointing and fixing CPVC Cold and Hot Water Supply System.				
	The work shall be done as per technical specifications and in general shall include:				
	Material: Above 2 inch dia — CPVC pipes and fittings of Schedule 40. Basic Raw Material of Pipe work - CORZAN of Lubrizol Inc. USA.				
	Fittings shall include all standard moulded fittings elbows, tees, couplers, reducers, unions, plugs, adaptors with brass threaded insertions and specials.				
	Jointing: Solvent cement jointing. The Solvent Cement shall be of make and grade as specified by the manufacturer of CPVC piping system				
	Installation, Testing and Commissioning: The installation shall be complete in all respects including cutting chases / holes in walls, slabs and making good, etc The entire CPVC piping system shall be installed, tested and commissioned following the recommendation of the manufacturer including provision of expansion loops				
	M.S Supports: All pipework in shafts, ceiling voids and terrace shall be fixed on MS brackets and hangers with U-clamps made from 10 mm dia galvanised steel rod complete with nuts and washers. Cost for MS structural work for supports shall be included in the rates				
	Making Good the Structure Crossings: For all horizontal and vertical crossings of building structure (slabs, walls, beams, column etc), the space between pipe and the structure shall be made good and water tight with concrete. The annular space between the pipe and the sleeves shall be sealed (upto a minimum depth 25 mm) with fire resistant acrylic based sealent of approved make and quality.				
a	65mm	25	M		0.00
b	75mm	10	M		0.00
c	100m	RO	M		
33	Providing and fixing in position the medium class (Class B) G.I. pipes (IS:1239) with threaded fittings, specials & clamps effecting proper connections, mount on wall / burried in earth, including thrust blocks in cement concrete 1:2:4 on all bends, tees and junctions etc. as required, protection of pipe with a coat of primer and with polymeric corrosion protection tape (minimum 4 mm thick) conforming to IS: 10221, coating and wrapping as per manufacturer's recommendations (Pypkote or approved equivalent) , including earthwork in excavation in all kinds of soil and refilling, complete in all respects. Jointing of all G.I pipes shall be threaded. (External works).				
a	65 mm dia	RO	M		
b	80 mm dia	RO	M		
34	Providing and fixing insulation to hot water piping with closed cell chemically cross-linked polyethylene (XLPE) preformed pipe sleeves of specified wall thickness using propriety adhesive and self adhesive tapes, all as per the manufacturer's specifications.				
a	15 mm dia - 9 mm thickness	20	M		0.00
b	20 mm dia - 9 mm thickness	40	M		0.00
c	25 mm dia - 13 mm thickness	25	M		0.00
d	32 mm dia - 13 mm thickness	25	M		0.00
e	40 mm dia - 13 mm thickness	20	M		0.00
35	Providing, fixing, testing and commissioning of Full Bore Ball Valves of approved makes.				

	MOC:				
	Body : Nickel plated brass				
	Ball : Chrome plated brass				
	Washers : PTFE				
	Operating Handle : Aluminium Painted				
	Pressure Rating : Minimum 20 Bar				
	Temperature Withstanding : 90° C Min.				
a	15 mm dia	2	No.		0.00
b	20 mm dia	4	No.		0.00
c	25 mm dia	12	No.		0.00
d	32 mm dia	5	No.		0.00
e	40 mm dia	3	No.		0.00
f	50 mm dia	2	No.		0.00
36	Providing and fixing of 15 mm dia brass angle valve (inlet fitting ball valve type) having strainer screen complete with wall flange of approved make.	10	No.		0.00
37	Providing and fixing upto 45 cm long C.P. copper connections pipes with nuts and washers of approved make.	12	No.		0.00
38	Providing and fixing Cast Iron butterfly valve of approved make and as per following specification:				
	MOC:				
	Body - Cast Iron				
	Shaft - Carbon Steel / Stainless Steel				
	Body Liner - EPDM/ nitrile rubber				
	Disc - Epoxy coated C.I./ D.I.				
a	65 mm dia (PN10)	2	No.		0.00
b	80 mm dia (PN10)	2	No.		0.00
c	100 mm dia (PN10)	RO	No.		
39	Providing, fixing and testing forged brass 15mm, 25mm dia screwed inlet single acting air release valve with 15 mm, 25 mm dia ball valve on inlet side and pressure gauge with isolating cock.				
a	15 mm dia	2	No.		0.00
b	25 mm dia	5	No.		0.00
40	Making water supply connections to kitchen equipment / water treatment plant as per the direction of the Engineer-in-charge (pipes and valves & other appurtenances shall be paid as per relevant items in Section 3 - Water Supply)				
a	15 mm dia	2	No.		0.00
b	20 mm dia	2	No.		0.00
c	25 mm dia	2	No.		0.00
41	Making connection with municipal water supply line including all fittings, specials & clamps effecting proper connections, mount on wall / burried in earth, including thrust blocks in cement concrete 1:2:4 on all bends, tees and junctions etc. as required, protection of pipe with a coat of primer and with polymeric corrosion protection tape (minimum 4 mm thick) conforming to IS: 10221, coating and wrapping as per manufacturer's recommendations (Pypkote or approved equivalent) , including earthwork in excavation in all kinds of soil and refilling, complete in all respects.	1	Job		0.00
42	Providing and fixing inline turbine type water flow meter with removable mechanism and having digital register complete with specials as required, bolts, nuts, rubber insertions etc. of approved make.				
a	50 mm dia nominal bore	1	No.		0.00

43	Providing & fixing 3 layer PVC water tank of 5000 ltr capacity to be placed at terrace for water supply system.				
a	5000 ltr tank	2	No.		0.00
Total of Sub Head - C					0.00
D	SEWERAGE AND DRAINAGE				
44	Providing, Laying, Jointing and Testing of Under Ground Sewerage Pipes				
	The work shall be done as per specifications and in general shall include:				
	a) Providing UPVC drain pipes (orange in colour) conforming to IS:15328 and of class SN 4				
	b) Excavation of trenches in all kinds of soil				
	c) Dressing and compacting of trench bottom.				
	d) Providing and laying in position cement concrete 1:5:10 (1cement : 5 finesand : 10 graded stone aggregate 40 mm nominal size) bed 150 mm thick				
	e) Laying in position pipes in trenches.				
	f) Jointing with water tight sealing rings				
	g) Encasing the laid pipe with pea gravel (size 20mm), 150 mm all around.				
	h) Refilling the trenches with selected earthfill, complete in all respects				
	a) 160 mm dia	30	M		0.00
45	Providing and laying light duty non pressure NP2 class RCC pipes with sockets & spigots, jointed with rubbering followed by stiff mixture of cement mortar in the proportion of 1 : 2 (1 cement : 2 fine sand) including testing of joints etc. complete.				
	a) 200 mm dia	75	M		0.00
46	Providing and laying cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size) upto haunches of RCC. Pipes including bed concrete as per standard design : (Only for stretches as instructed at site)				
	a) 200 mm dia	75	M		0.00
47	Providing and laying in position cement concrete 1:4:8 (1cement : 4 finesand : 8 graded stone aggregate 20 mm nominal size) bed 150 mm thick as per standard design : (for RCC pipes)				
	a) 200 mm diameter R.C.C pipe	75	M		0.00
48	Constructing brick masonry Rain Water Collection Chamber 50x45x60 cm with 75 class designation F.P.S. brick work in cement mortar 1:5 (1 cement : 5 coarse sand) including 500x450 mm S.F.R.C. (Steel Fibre Reinforced Concrete) horizontal grating with frame complete as per standard design/ drawing.	8	No.		0.00
49	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1 : 5 (1 cement : 5 fine sand) RCC top slab with 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) earth work, excavation in all kinds of soil, foundation concrete 1 : 4 : 8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside and outside plastering 12 mm thick with cement mortar 1 : 3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) neatly finished complete as per standard design :				
a	a) Inside size 60 x 60 cm and 45 cm deep including C.I. cover and frame (double seal) 455 x 610 mm internal dimensions; total weight of cover and frame to be not less than 75 kg. with F.P.S bricks.	2	No.		0.00

50	Making connection of drain or sewer line with existing manhole including breaking into and making and making good the walls, floors with cement concrete 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), cement plastered on both sides with cement mortar 1 : 3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc., complete				
	a) Pipe size not more than 400 mm dia	1	Job		0.00
Total of Sub Head - C					-

ELECTRIFICATION WORK

S.No.	Particulars	Unit	Qty	Rate	Amount
A	INTERNAL WIRING				
1	Point wiring in MS conduit with circuit wiring & modular switch :				
	Wiring for light point/fan point/exhaust fan point/call bell/6A Switch-socket point with 1.5 sq.mm. multistrand FRLS PVC insulated copper conductor single core cable in surface /recessed with PVC conduit, with Modular type 6A switch, grid plate, suitable size M.S. Box and earthing the point with 1.5 sq.mm. FRLS PVC insulated solid copper conductor single core cable etc. as required complete with 2x2.5 sq mm FRLS multistarnd circuit wire & 1x1.5 sq mm FRLS solid earth wire(From MCB DB to Switch Box).				
a	Wiring as above for single light point/fan point/exhaust fan point/call bell point controlled by a 6 A modular switch.	POINT	50		
b	Wiring as above for universal 2/3 pin 6A socket outlet point (on board).	POINT	10		
c	Wiring as above for universal 2/3 pin 6A socket outlet point (on wall).	POINT	5		
d	Wiring as above for more than one & upto four light points controlled by a 6A switch.	POINT	3		
e	Wiring as above for twin control light point controlled by a 2 way modular type switch.	POINT	5		
2	1-Phase 16/6 A Power socket point wiring in PVC conduit (2x4 sq.mm.)				
	Wiring for power plug with 2x4 sq.mm. FRLS PVC insulated multistarnd copper conductor single core cable in surface/recessed 16 SWG MS conduit alongwith 1x2.5sq.mm. FRLS PVC insulated solid copper conductor single core cable for loop earthing as required complete with modular type box , 16A modular type wiring accessories (Switch + Shuttered 5 pin Socket with two point on one ckt.)				
a	Primary point (Direct from MCB DB to 1st power point)	POINT	5		
b	Secondary Point (Looped point)	POINT	6		
3	Supply & Fixing MS Conduit:				
	Supplying and fixing of following sizes of ISI marked FRLS PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
a	25mm	METRE	75		
b	32mm	METRE	60		
4	S/F Ceiling rose:				
	Supplying and fixing 3 pin, 5 amps. Ceiling rose/batten holder on the existing junction box/wooden block including connection etc. as required.	EACH	20		
5	S/F Call bell/buzzer:				
	Supplying and fixing Ding-Dong call bell suitable for A.C. single phase, 230 volts, complete as required.	EACH	3		
6	Fan Box:				
	P&F of 1.6 mm thick MS recessed fan box (Heavy type) Octagonal of size 150 mm dia depth 75 mm , 12 mm dia fan hook rod with 100 mm length extended on each side covered with 2.8 mm thick round bakelite sheet using brass screws & cup washers	Each	15		
7	Extra points:				

	Supply & drawing of 2x2.5 sqmm+1x1.5 sqmm FRLS Cu wire multistrand with FRLS PVC conduit . Conduit Accessories , junction boxes etc as required for looping of upto 8 no light points directly from MCB DB to light fixture.	EACH	4		
8	S/F 20 A SPN industrial plug socket outlet for AC:				
	Wiring for industrial socket outlet point with 2x6 sq.mm. FRLS PVC insulated multistrand copper conductor single core cable in surface/recessed 16 SWG MS conduit alongwith 1x2.5sq.mm. FRLS PVC insulated solid copper conductor single core cable for loop earthing as required complete with 20 amps, 240 volts, SPN industrial type socket outlet with 2 pole and earth metal enclosed plug top along with 20 A SPN in sheet steel enclosure (IK-08), on surface or in recess,with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as	each	10		
9	SPN Key Tag for Room				
	Providing & Fixing point wiring for 1Nos. 32 Amp Key Tag using 4.0 sq. mm multistrand copper conductor PVC insulated FRLS wires in 16 SWG MS conduit ISI marked along with accessories in surface/recess walls with necessary pull boxes fixed on concealed hot dipped GI outlet boxes with earthing screws flushed with wall for controlling one switch board, including cost of conduit GI box & white colour poly carbonate front plate for modular switches.	Each	4		
10	Spare Boxes:				
	Supply & Fixing of 20 SWG MS boxes complete with 3 mm thick hylem sheet of following sizes-				
a	4"x4"	Each	2		
b	7"x4"	Each	2		
c	8'x10'	Each	2		
11	Submain wiring with FRLS PVC conduit:				
	Wiring for submain wiring (distribution panel to MCB DB) alongwith earth wire with the following sizes of FRLS Insulated copper conductor, single core cable in surface/recessed 16 SWG ISI marked FRLS PVC conduit as required:				
a)	4x16 sq mm + 1x6 sq mm earth wire	Meter	20		
b)	4x10 sq mm + 1x6 sq mm earth wire	Meter	20		
c)	4x6 sq mm + 1x4 sq mm earth wire	Meter	40		
d)	2x10 sq mm + 1x4 sq mm earth wire	Meter	30		
e)	2x4 sq mm + 1x2.5 sq mm earth wire	Meter	35		
f)	2x2.5 sq mm + 1x1.5 sq mm earth wire	Meter	35		
12	Providing & fixing of Electronic step fan regulator modular type with modular type box complete as required.	Each	15		
Total of Sub Head - A					
B PANEL, MCB & DB					
Sub-distribution Board (MCB & DB)					
1	Main LT Panel				

	Installation, testing and commissioning of LT Panel Boards of sheet steel cubical design for indoor mounting factory fabricated suitable for operation on 440 V 3 phase, 50 Hz, A.C. supply with ACB / MCCBs/ contactors and other accessories, all in compartmentalised, cubical construction complete in all respects including internal wiring, labels, ferrules, cable termination gland plates, Loto devices, earth terminals, painting etc. conforming to specifications. The panel shall withstand a fault level of 350KVA. (Vendor shall submit shop drawing for approval before placing the order).	Set	1		0
2	Supply, Installation Testing and Commissioning of recessed type 18 way TPN DB complete with double door IP 42 protection sheet steel enclosure with loose wire box and 100 amp. Copper bus bars neutral and earth bars, inter connected etc. and following mounting are as per specification as required:				
	80 A, 4 POLE (100 MA) RCCB as incoming - 1 No.				
	10/16/20/25 A SP MCB as outgoing - 54 Nos. (for power and AC supply)	Set	1		
3	Supply, Installation Testing and Commissioning of recessed type 12 way TPN DB complete with double door IP 42 protection sheet steel enclosure with loose wire box and 100 amp. Copper bus bars neutral and earth bars, inter connected etc. and following mounting are as per specification as required:				
	80 A, 4 POLE (100 MA) RCCB as incoming - 1 No.				
	10/16/20/25 A SP MCB as outgoing - 36Nos. (for power and AC supply)	Set	1		
4	Supply, Installation Testing and Commissioning of recessed type 6 way TPN DB complete with double door IP 42 protection sheet steel enclosure with loose wire box and 100 amp. Copper bus bars neutral and earth bars, inter connected etc. and following mounting are as per specification as required:				
	63 A, 4 POLE (100 MA) RCCB as incoming - 1 No.				
	6/10/16/20 A SP MCB as outgoing - 18Nos. (for emergency supply - light and fan)	Set	2		
5	Providing and fixing of MS Chukar plate 5 mm thick as required	Kg	10		
6	Supply & laying of 10 mm thick rubber mat on existing chukar plate (2m x 1 m size) sheet	Each	2		
Total of Sub Head - B					
C EARTHING & PIPING					
1	Copper earth plate electrode:				
	Earthing with copper earth plate 600 mm x 600 mm x 3 mm thick including accessories, and providing masonry enclosures with cover plate having locking arrangements and watering pipe etc. with charcoal or coke and salt, copper earth lead 8 SWG, test link etc. as required:	SET	4		
2	P/F 25 x 3 mm earth strip in GI Pipe				

	Providing and fixing of copper strip from earth electrode in 38 mm dia B class GI pipe	METRE	50		
3	P/F 25 x 3 mm earth strip on surface				
	Providing and fixing of copper strip earth strip for interconnecting between main earthing on the surface/cable tray with suitable plan saddles as required:	METRE	60		
4	P/F 8 SWG bare copper eath lead:				
	Providing and fixing 8 SWG bare copper earth lead on surface or in recess for connections etc. as required:	METRE	100		
5	S & Laying following Size B class ISI marked GI Pipe with accessories as required				
a)	40 mm dia	meter	15		
b)	50 mm dia	meter	15		
Total of Sub Head - C					

D TELEPHONE WIRING/CABLING					
1	Telephone wiring in exixting conduit				
	Supplying and drawing following 2 pair 0.5 mm. FR PVC insulated copper conductor unarmoured telephone cable in the existing surface/recessed MS conduit as required complete with modular box, telephone outlet RJ-11 type complete in all respect from telephone tag block/MDF to telephone outlet socket. 2 pair	Point	12		
2	PIJF Cable				
	Supplying and drawing PVC/Polythene insulated and PVC sheathed unarmoured/armoured telephone cable with 0.5 mm dia. Tinned/annealed copper conductor taped & confirming to ITD specification S/WT-129C of approved make in existing surface or recessed. Jelly filled armoured (PIJF)				
a.	50 pair	Mtr.	RO		
b.	20 pair	Mtr.	20		
c.	05 pair	Mtr.	40		
3	MDF				
	P & F Krone type main distribution frame in the recess/surface made out of 16 SWG sheet steel box, front openable, having locking arrangements duly painted with 2 coat of red oxide paint & two coats of enamel paint.				
a.	50 pair	Each	RO		
b.	20 pair	Each	1		
4	Supply and laying of 150 mm dia hume pipe NP-2 grade under the road and floor & making good as required.	Mtr.	30		
TOTAL OF SUB HEAD-D					

E COMPUTER WIRING					
1	Single Phase 16/6 Amp power socket point wiring in FRLS PVC conduit (2x4 sq mm)				
	Wiring of power plug with 2x4 sq mm FRLS PVC insulated multistrand copper conductor single core cable in surface/recessed 16 SWG MS conduit alongwith 1x2.5 sq mm FRLS PVC insulated solid copper conductor single core cable for loop earthing as required complete with modular type box, 16A modular type switch and socket (wiring accessories) (Switch+Shuttered 5 pin socket with one point on one circuit will be wired).	meter	40		

2	Supply and laying of PVC insulated standard copper conductor cable including supply and laying of recessed/surface MS conduit as per technical specification etc. as required:				
a)	4x10 sq mm FRLS PVC multistrand copper conductor single core cable in 16 SWG 32 mm dia MS conduit	meter	50		
3	Supply and laying of 8 SWG bare copper wire surface/recessed as required:	meter	40		
4	Supply and laying the following sizes of FRLS PVC conduit pipe with accessories, pull boxes and pull wire etc. as required:				
a)	25 mm dia 16 SWG	meter	90		
b)	32 mm dia 16 SWG	meter	40		
5	Supply & fixing of following size of MS boxes of 16 SWG in recessed/on surface including cutting of wall & making good complete as required				
a)	4"x4"x3" MS Box 16 SWG with 3 mm thick mica sheet size 5"x5"	Nos.	20		
b)	8"x10"x3" MS Box 16 SWG with 3 mm thick mica sheet size 9"x11"	Nos.	10		
c)	7"x4"x3" MS Box 16 SWG with 3 mm thick mica sheet size 8"x5"	Nos.	8		
6	Supply, Installation Testing and Commissioning of recessed type 8 way TPN DB complete with double door IP 42 protection sheet steel enclosure with loose wire box and 100 amp. Copper bus bars neutral and earth bars, inter connected etc. and following mounting are as per specification as required:				
a)	63 A, 4 POLE (100 MA) RCCB as incoming - 1 No.				
b)	6/10/16/20 A SP MCB as outgoing - 24 Nos.				
	(for computer supply)	Set	1		
Total of Sub Head - E					

F	CABLES				
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1	Cable Laying:				
	Labour charges for laying of armoured PVC insulated PVC sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, 11nd class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size.				
a)	3.5 C X 300 sqmm	Mtr.	RO		
b)	3.5 C X 185 sqmm	Mtr.	RO		
c)	3.5 C X 150 sqmm	Mtr.	50		
d)	3.5 C X 95 sqmm	Mtr.	50		
e)	3.5 C X 70 sqmm	Mtr.	RO		
f)	3.5 C X 50 sqmm	Mtr.	30		
g)	3.5 C X 35 sqmm	Mtr.	RO		
h)	3.5 C X 25 sqmm	Mtr.	70		
i)	4.0 C X 10 sqmm	Mtr.	10		
j)	4.0 C X 6 sqmm	Mtr.	120		
2	Cable termination:				
	Supplying and making end termination with heavy duty single compression brass gland SIBG type, aluminium/Copper lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed aluminium conductor cable of 1100 volt grade as required of size.				
a)	3.5 C X 300 sqmm	Nos.	RO		

b)	3.5 C X 185 sqmm	Nos.	RO		
c)	3.5 C X 150 sqmm	Nos.	4		
d)	3.5 C X 95 sqmm	Nos.	6		
e)	3.5 C X 70 sqmm	Nos.	RO		
f)	3.5 C X 50 sqmm	Nos.	4		
g)	3.5 C X 35 sqmm	Nos.	RO		
h)	3.5 C X 25 sqmm	Nos.	6		
i)	4.0 C X 10 sqmm	Nos.	2		
j)	4.0 C X 6 sqmm	Nos.	14		
3	Cable marker:				
	S/F cable route marker with 10cm x 10cm x 5mm thick or of 10cm dia. G.I.plate with inscription thereon, bolted/welded to 35mm x 35mm x 6mm angle iron,60cm long and fixing the same in ground as required.	EACH	6		
Total of Sub Head - F					

G FIXTURES					
1	Mirror Optic Fluorscent Tube				
	Providing & Fixing of fluoescent tube PHILLIPS MAKE MODEL NO. PLED ESSENCIAL 20W fitting with all accessories.	Nos.	20		
2	Ceiling Fan:				
	Supply & Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm.) with 1.5 sq.mm. FRLS insulated , copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Nos.	15		
3	Down Lighter (LED - 10W)				
	Providing & Fixing of surface/recess mounting LED luminaire phillips make model no.BBS150 ,terminal blockduly prewired with copper conductor including making connections, testing etc. as required with lamp	Nos.	40		
4	Exhaust fan				
	Installation of exhaust fan upto 450mm. Sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required.	Nos.	4		
5	1x14W Recessed/surface mirror light				
	Fixing Mirror optics type fluoescent tube fitting fabricated from CRCA sheet and finished with powder coating,aluminium mirror reflector standard cross louvers complete with accessories like (ballast, starter, starter seat)/ EB, condensor, rotor holder, terminal block duly prewired with copper conductor including making connection, testing etc. as required with tube.	Nos.	15		
Total of Sub Head - G					

H ELEVATOR					
1	Elevator				
	Supplying, Installing, Testing & Commissioning of machine room less elevator. Vertical Height-22m. No of Stop-6. Load caring Capacity-544 Kg (8 Passenger). Wall Finished-Powder Coated. Complete with accessories, Control panels, Display & safety feature for emergency. Approved Make-Kone, Mitsubishi, Otis.	Nos.	1		

	Total of Sub Head - H				
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