

**NAME OF WORK : TENDER FOR PROVISION OF TENSILE FABRIC ROOF WITH FRAMED STRUCTURE, GREEN ROOMS, TOILETS & SERVING PLATFORM AT TERRACE AREA ADJACENT TO AUDITORIUM AT LHO BUILDING, BHOPAL.**

**Note:- All Works on Existing Ground Floor terrace level, all material and manpower movement for separate temporary staircase provide by vendor and all safety equipment's like scaffolding for required height, safety belt, helmet etc. also in vendor scope.**

**Note:- Design Built, Supply and Erection of Serge Ferrari Tensile (Fabric) structure system, Fabric Ferrari Company or Equivalent. And Dealer works Authorization letter should be must and design certificate. Sample and Design approved by Architect and Bank Engineers.**

S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
1	<b>Removing and Re-Installation</b> of Kitchen exhaust fans hood including providing and fixing at site as per required location on kitchen shed roof or other place. Required material for installation for exhaust fan hood are:- G.I. sheet hood with neck as per size of exhaust fan and electrical cable length approx. 25.0M with manpower, tools & tackles etc. All works done as per directed by Engg. In-Charge. Note:- Exhaust fan dia. approx. 700mm. and length of hood is approx. 7.5m	EACH	2.00		
2	<b>EXISTING AIR-CONDITIONING UNITS REMOVING, REFIXING &amp; INSTALLATION AT SITE,</b> Existing Split Units ( Outdoor Units) proper removing and Refixing as per directed by Engg. In-Charge. Including required Servicing with maintenance as per units required like Gas filling, Copper Pipe change with insulation, outdoor cleaning, required electrical cables etc. All required material & manpower in vendor scope. Note:- Required Copper Pipe and Electrical Cables as per outdoor unit required, length of pipe approx. 3.0 to 4.0m.	EACH	7.00		
3	<b>EXISTING ELECTRICAL, LAN, ETC REMOVING AND RE-LAYING WORK,</b> Existing cables removing and re-laying including required saddles for cables, all cables proper remove without any damages or cut proper re-laying as per directed by Engg. Incharge. Note:- If required any of length of cables please provide.	RM	100.00		
4	<b>P.C.C. 1:3:6</b> Providing and laying P.C.C. 1:3:6 level ling course with 40 mm down gauge aggregate, in foundations, pits, raft material in the plinth and leap concrete etc. Excluding the form work, including consolidation, curing etc., complete.	CUM	8.0		
5	<b>Dismantling of Existing BRICK / R.C.C work</b> Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within approx. 1.0km lead or as per direction of Engineer-in-charge. Brick work in Cement Mortar. Note:- Including all dismantled brick work relaying or stacking over proposed retaining wall raft as per directed by engineer incharge.	CUM	2.5		
	<b>R.C.C. Work (Above ground level up 6.5m ht.) Including Centering &amp; Shuttering Work</b>				
6	Providing and laying in position mechanically mixed Reinforced Cement Concrete (RCC) 1:1.5:3 using 20mm nominal size and down grade metal of specified grade in Below ground level plus above ground level at all levels and height for varoius RCC structural elements in any shape and design as per structural drawing and as directed including transporting (manually / mechanically), laying, compacting and finishing the surface in line, level and plumb as required and cost of curing, Including entering, Shuttering etc. complete. Excluding Steel Reinforcement )	CUM	1.35		

S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
7	Supplying and placing in position by cutting, bending & fabricating tested quality steel reinforcement for R.C.C. work, including dowels of required diameters and lengths as per design & as directed, including typing using good quality binding wire and/or welding, providing required cover with concrete briequests, spacer pieces, chairs, etc. as required complete.				
	<b>a) High Tensile deformed bars Fe-500</b>	KG	150.00		
	<b>BRICK WORK</b>				
8	Providing and constructing brick masonry in cement mortar 1:6 with best quality locally available approved bricks in superstructure, at all height & levels, including striking joints, scaffolding, curing, etc. complete as directed.	CUM	5.00		
9	<b>EXTERNAL PLASTER</b> , Providing and laying plaster 18 to 20mm. (ave.) thick in cement mortar in two coats, 12mm. 1st coat in C.M. 1:4 & final coat in C.M. 1:3 in all positions as per the specifications, with double scaffolding, curing, finishing with sponge and cement including all joints mesh jali, raised bands, grooves, pattas, etc., completed as per directed by Engg. In-Charge. <b>NOTE:- M.S. JALI (CHICKEN MESH JALI)APPLY AS PER DIRECTED BY ENGG. IN-CHARGE.</b>	SQM	43.00		

S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
10	<b>WEATHER COAT EXTERIOR EMULSION PAINT(APEX ULTIMA)</b> Providing and applying two coats and final coat of weather proof exterior emulsion paint (Asian / Berger or equivalent) 7 years warranty of premium quality of approved make & manufacturer of required shade after thoroughly brushing the surface free from mortar dropping and other foreign matter, including two coats of primer and two coats of putty(BIRLA WHITE, ASIAN or equivalent) and also including preparing the surface even and sand papered smooth etc. all materials and labour complete. Note:- Safety parameter follow as per IS code	SQM	405.00		
11	<b>SYNTHETIC ENAMEL PAINT</b> Providing and applying on existing gate, Cleaning the surface thoroughly and removing the external elements, if any , such as dust, dirt, grease etc. providing and applying Two coats of Red-oxide primer, rubbing upto finished level and three coats of 1st grade synthetic enamel paint of approved manufacturer in approved colour and brand. All complete including scaffolding , cleaning the site etc. Note:- Applied area M.S. Gate. Mode of measurment one side of face. Colour shade as per approved by architects / Bank Engineer.	SQM	4.00		
12	<b>FABRICATION WORK FOR Gutter Frame and other works</b> Structural steel work using M.S. flats, angles, channels I-section, H-section, Pipes etc. riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. Note:- Required scaffolding, manpower, safety equipment's etc in vendor scope.	KG	2850.00		
14	<b>GRANITE STONE (JET BLACK)</b> Providing and fixing Granite Stone 16 to 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias, urinal Partition and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 ( 1 cement : 4 sand ) with joints treated with white cement , mixed with matching pigment , epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc complete at all levels. samples approved by Engineer-in-Charge.				
	Granite fine grained Jet Black/ dark red / white with self design/ pattern/ crystal of other colours or glitters	SQM	31.00		
15	<b>BEVELLED EDGE MIRROR</b> BEVELLED EDGE MIRROR 5/6mm thickness Providing and fixing bevelled edge Mirror of superior glass approved quality complete with SS stud fitting OR SS Holder, screws and washers, complete in all respect as per instruction of Engg. In-Charge. MNote:- Polished bevel edge design, easy to install,	SQM	11.00		
16	<b>HELTI Chemical ReBaring in Existing R.C.C. Structure</b> Providing and fixing at site chemical ReBaring make Hilti-HIT-RE-500 / HY-200R including proper drilling, Cleaning, chemical, equipments as required, manpower and pull test. Excluding reinforcement only, complete in all respect. Works as per directed by In-Charge. NOTE:- ALL SAFTY EQUIPMENTS, SCAFFOLDING & WORKING PLATFORM UP TO REQUIRED HEIGHT IN VENDOR SCOPE.				
	<b>Dia. 25mm</b>	EACH	10.00		
	<b>Dia. 20mm</b>	EACH	10.00		
	<b>Dia. 16mm</b>	EACH	20.00		
	<b>Dia. 12mm</b>	EACH	20.00		
17	<b>ACP Work</b> , Supplying and Installing Aluminium Composite panel of 4 mm thickness having outer aluminium skin coated with pvdf, Aluminium extruded sections for main frame and transom of 50mm x25mm x 1mm, 32mm x 32mm x 1mm L Angle, screw, VHB Tape, Sealed with 12mm backer rod and Dow corning / GP/ Alston make weather sealant for water –proof system. Etc completed. (ACP Make Timex Bond 0.5). Rate to include all necessary Hardware,adhesives to complete the task to the satisfaction of the Architect.	SQM	80.00		

S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
18	Providing and fixing G.I. Sheet Gutter in C-shape as per drawing, thickness of sheet 1.5mm including proper fixing as per given slope required water tight fasteners, proper over lapping with water tight, zinc coating primer on both side (specification given as per above item) and providing down take pipe slot and fixing as per drawing or Engg. In-Charge. complete in all respect.(C-Shape Gutter over all Girth up to 1200mm)	RM	44.00		
19	Providing and laying water proofing treatment in sunken portion of WCs, bathroom & Wall surfaces(W.C., Bath, Kitchen) etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. b) 1nd course of 20mm cement plaster 1:3 (1 cement : 3 sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.	SQM	26.00		
20	<b>CPVC PIPES-SDR11</b> Providing and fixing in position Chlorinated Polyvinyl Chloride(CPVC) SDR-11 pipes and fittings having thermal stability for hot and cold water supply including all CPVC plain and Brass threaded fittings i/c fixing the pipes with clamps at 1.00 M spacing . This rate includes jointing of pipes with one step CPVC solvent cement, cost of cutting chases in wall/floor etc. and making good the surface for Concealed piping work etc. Complete.				
	20 mm dia. nominal bore	RM	150.00		
	25 mm dia. nominal bore	RM	300.00		
	32 mm dia. nominal bore	RM	100.00		
21	<b>CPVC BALL VALVE</b> Providing and fixing CPVC Schedule80 BALL VALVE approved quality, including necessary fitting and required for connections. NOTE:- BRASS THREADED (TWO SIDE)				
	For 25mm NB	EACH	4.00		
	For 32mm NB	EACH	1.00		
22	<b>PVC PIPES</b> Supplying and fixing approved quality of rigid SWR(TYPE-B) PVC pipes(All Vertical Pipes on Wall SURFACES used PUSHFIT AND HORIZONTAL SURFACE USE SOLFIT PIPE AND FITTINGS) of Ashirvad make or equivalent , jointing the pipe and including required Fittings(Bend, Elbow, Y-shape with Door, Coller, Socket, etc.) with suitable solvent as per manufacturers specifications, laying the pipes under floor , ceiling or on the walls as per the required gradient including providing necessary support, clamps, scaffolding etc. conveying the materials to all floors making holes in masonry or concrete cutting the pipe to required length, testing to a head of 1.8 m for horizontal pipes and for vertical pipes by filling with water etc. complete including necessary scaffolding at all levels as required. Note:- Including Existing Pipe removing and placing as per directed by Engg. In-Charge.				
	(a) 40/50 mm Dia.	RM	30.00		
	(b) 63 mm Dia.	RM	60.00		
	(b) 75 mm Dia.	RM	100.00		
	(d)110 mm Dia.	RM	180.00		

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23	<b>SENSOR URINALS(AC/DC) WITH PARTITIONS</b> Providing and fixing SENSOR URINAL (make:- Bharat Photon or Equivalent. Wall mounted Urinal pot with indian sensor, size:- L290mm/W360mm/H690mm. Stylish ceramic urinal pot in white color with embedded sensor for automatic flushing, Deodorize feature of 24 hours voluntarily flush if no use. False flush protection with line indicator to representing sensing & flush ready modes. Including Division Partition, Required sensor electrical cable with conduit pipe as per guide by company, Plumbing work:- Angle valve, urinal Domed waste coupling etc., all fitting Bharat Photon or equivalent, proper fixing line & level, testing etc. Works as per directed by Engg. In-Charge. Make:- Bharat Photon(Brand Integrated EFS by Bharat Photon), Hindware, Parayware or equivalent as per approved by Engg. Incharge. Basic cost of urinal 13515/-	EACH	2.00		
24	<b>TOILET ROLL HOLDER</b> Providing and fixing Towel Ring (C.P.)brass, including ss make screw or fasteners proper line and level as per directed by Engg. In-charge . Make:- Hindware:- Cat. No. F570003CP OR EQUIVALENT. Sample approved by Architects or Site In-charge. basic rate is 600/-	EACH	2.00		
25	<b>2-WAY BIB COCK WITH WALL FLANGE</b> Providing and fixing heavy duty Two way Bib Cock with wall flange etc., complete in all respect. Make:- Hindware:- Cat. No. F570005CP or Equivalent. Sample approved by Architects or Site In-charge. Basic rate is 1425/-	EACH	2.00		
26	<b>NAHNI TRAP</b> Providing and fixing 100 mm dia heavy quality approved make PVC Nahani trap with 75 mm dia outlet , embedding the trap in cement concrete using 1 : 3 : 6 mix with 20 mm metal complete including joining effluent pipe etc, and fixing 125 mm dia CP brass grating etc. complete.	EACH	7.00		
27	<b>EUROPEAN W.C.</b> Providing and fixing white vitreous china type One Piece Water Closet pedestal (wall or Floor mounted European Type W.C pans extended wall mounting HINDWARE,JAQUAR or equivalent) with low level cistern of any colour with matching superior quality seat Cover overcutting and making good the walls and floors. Wherever required Floor or Wall Mounted E. W.C. pan with white plastic seat cover and lid Complete with cost of necessary water supply arrangement comprising of UPVC pipes of suitable dia,including cost of C.I.Chair/Brackets.( Hindware:- EVITA S-220 One Piece Closet, Cat No.20121 or Equivalent. Basic rate is 9900/-	EACH	2.00		
28	<b>HEALTH FAUCET</b> Providing and fixing CP Brass Health Faucet / Hand shower with flexible water connection 1.0 mtrs. Long easy flex tube in chrome finish and wall hook in the toilet. Make:- Hindware, Jaquar or Equivalent.	EACH	2.00		
29	<b>BOTTLE TRAP</b> Providing & Fixing BOTTLE TRAP(with internal partition) 32mm size with 250mm / 300mm and 190mm long wall connection pipes & wall flange. Make:- Jaquar - ALD-769L 250/300 X 190 OR EQUIVALENT. Basic rate is 1425/-	EACH	4.00		
30	<b>ANGULAR STOP COCK</b> Providing and fixing heavy duty CP brass Angular stop cock with wall flange all complete. Make in Hindware:- Cat. No. # F570043CP OR Equivalent with wall flange all complete. Sample approved by Architects or Site In-charge.	EACH	6.00		

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31	Providing and laying Toilets Cubical Partition wall with Door shutter. In cubical divisional panels, Frontal Panels, Nib Panels & Doors are in 18mm thk. Structure board. Fixings by aluminium channels to rear wall / supporting wall and frontal panels supported by one single leg. Doors:- Hinged to the frontals, Edges cut square as standard. Cubicles are manufactured in accordance with IS-2046. Various Sizes, Shape & Colour. They are built with nylon polyamide, stainless steel and aluminium fard fittings. Features:- All Panels are in Antibacterial grade. Exclusive raw sink finish. Hygienic and easy to maintain. Including all types of required accessories, complete in all respect. Make:- Greenlam, MerinoRestroom or equivalent. Note:- Sample approved by Engg. In-Charge	SQM	43.00		
32	<b>PARTITION WALL FOR GREEN ROOM (PARTITION THICKNESS 70mm/80mm APPROX.),</b> Providing & fixing wooden partitions (double skin) full height @ 450mm x 450mm c/c both ways M.S.PIPE frame 50mmx50mmx2.6mm. 10 mm thick MR PLYWOOD fixed on both faces, with <b>4mm thick Veneer</b> on all exposed faces( Shade as per approved). The panels shall be equally divided and shall have provision of openable door 800/900/1000 mm wide with butt hinges, Door Closer, Handles, locking arrangement etc. complete. The under frame shall be properly anchored with the beam bottom/ ceiling fitting with anchor fasteners for a strong and sturdy partition. The surface shall be painted or fixed with Veneer as per architects drawings. Necessary slots to be made for cable management in co-ordination with electrical contractor for required cabling and switch socket fixing. <b>The rates shall include all material, hardware, wastages, labour, cost of Melamine polishing &amp; painting etc complete. Mode of measurement is all surfaces area. (Working as per detailed drawing.)</b>	SQM	102.00		
33	<b>VITRIFIED FLOOR TILES</b> Providing and laying VITRIFIED FLOOR TILES Multi/Double Charged (Minimum top layer thickness 2.0mm) , in different sizes with water absorption less than 0.05% and conforming to IS : 15622 of approved make in all colours & shades, 1st quality/ premium in flooring , laid on 20 mm thick cement mortar 1:4 (1 cement : 4 sand) OR over Existing Flooring By rubbing the floor with rush abressives to make the floor rough and then using approved adhesive specified for tiles over tiles flooring in all shapes and patterns including grouting the joints with white cement and matching pigments etc complete. NOTE:- Sample approved by Architects or Site In-charge. Mode of Measurement is Floor area in SQM.. Mode of Measurement Skirting are also in SQM. Skirting Ht. 100MM. Tiles Size:- 1200mmx600mm & 600mmx600mm. basic rate is 875/- . Makes:- Smpolo, Kajariya, Nitco, RAK or as per approved.	SQM	210.00		
34	<b>ANTISKID FLOOR TILES FOR TOILET</b> Providing and laying Antiskid Floor Tiles of any sizes, 7.5mm TO 9mm thickness with water absorption's less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement :4 sand) including grouting the joints with white cement with matching pigments etc., complete.. Make Kajaria, Smpolo, Nitco, Somani etc as approved. The work should be carried out in Toilet floors with adequate slope including cutting holes for Nahani Trap grating etc. complete.(Sizes are 300mmx300mm). NOTE:- Sample approved by Architects or Site In-charge. Basic rate is 450/- . Makes:- Smpolo, Kajariya, Nitco, RAK or as per approved.	SQM	25.00		
35	<b>CERAMIC GLAZED WALL TILES</b> Providing and fixing Ceramic Glazed Wall Tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS : 15622 of approved make in all Colours shades, laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement : 3 sand) jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete. NOTE:- Sample approved by Architects or Site In-charge. Basic rate is 450/- .Makes:- Smpolo, Kajariya, Nitco, RAK or as per approved.	SQM	22.00		

S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
36	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300mm size (inside) the weight of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design Note:- Including Existing Gully Trap removing and placing as per directed by Engg. In-Charge.				
	100x100mm size P type With Sewer bricks conforming to IS:4885	EACH	2.00		
37	<b>Brick masonry manhole</b> Constructing brick masonry manhole in cement mortar 1:4 (1cement: 4coarse sand) R.C.C. top slab with 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1cement: 4coarse sand: 8graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1cement: 3coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design. Note:- Including Existing Manhole removing and placing as per directed by Engg. In-Charge. Inside size 60x45cm and 45cm/60cm deep including C.I. cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg). With F.P.S. bricks class designation 7.5	EACH	2.00		
38	<b>Design built, Supply and Erection of Serge Ferrari Tensile (Fabric) structure system</b> including designing and fabrication in M.S. Steel tubular structure as per Indian Standard section as per approved design and shape including base plate, dash fasteners, clits etc. Cutting, Pattering, plotting and welding of fabric with the help of tensile structure software. Fabric should be welded by high frequency PVC welding in proper line with PVC cader to be stretched & fixed on M.S. design structure with the help of M.S. Flat bar with self-taping screw. M.S. structure to be painted with one coat of epoxy primer with MRF PU paint of approved colour in desired shape. <b>With 950GSM preconstraint tensile membrane Fabric. Note:- Ferrari Company or Equivalent. And Dealer works Authorization letter should be must and design certificate. Note:- Sample and Design approved by Architect and Bank Engineers.</b>	SQM	261.00		
39	<b>UNDER COUNTER WASH BASIN WITH PILLAR COCK(WALL / COUNTER MOUNTED)</b> Providing and fixing Under Counter WASH BASIN including making all connections including the cost of fittings. Make : Hindware, Parryware or equivalent as approved. Proper fixing line & level, testing etc. complete in all respect as well as works as per directed by Engg. In-Charge. MAKE:- Hindware:- GARNET Cat. No. # 10080 OR EQUIVALENT. Colour Starwhite	EACH	4.00		

S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
40	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of raw plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c,	SQM	40.00		
	including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes, finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cut-outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with				
	<b>Moisture resistant gypsum board. Gypsum moisture resistant board. NOTE HEIGHT OF CEILING WORK APPROX. 3.0M FROM FFL.</b>				
41	Providing and applying in two or more coats Birla or JK make wall care putty on outer/inner surface including sand papering for making the uniform and smooth surface for applying plastic emulsion or any other paints as per requirements, with all cost of materials, labours and scaffolding etc. in all position complete.	SQM	40.00		
42	Providing and applying plastic emulsion paint on wall/ceiling for first quality sheen finish of approved shade and quality in 2 coats, including labour, safety equipments, wastage etc. All work complete in satisfactory upto architects. Make:- Asian, Berger or equivalent.	SQM	40.00		
	<b>ELECTRICAL WORKS</b>				
	<b>ELECTRICAL WIRING</b>				



S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
43	Providing, fixing, testing and commissioning of POINT WIRING of any length for light point/Wall fan point/Exhaust fan point/ Call bell point/ including call bell/ including fan box( if required), 'S' type fan hook etc with 1.5 Sq.mm (Phase/Neutral/Earth) PVC 650V/1100V Grade FR insulated copper conductor single core multi stranded wire in 16 SWG(Medium Gauge) stove enameled rigid steel conduit 20mm/25mm with conduit accessories like bend, junction box etc in concealed/surface manner as per site requirement with suitable Modular Switches/Sockets with plate and Metal box,Saddle, angle bracket (if required), 3 plate ceiling rose/bulb holder etc. The floor/roof/wall junction box should be of MS(heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw tight and gasket to avoid water/dust insertion. The above wiring is to be carried out on surface or recess in wall/floor/roof should be cutting by cutter/chiseling, re-plastering, curing, painting with uniform and smooth finish by specialized workman ship and making the surface neat after wards complete in all respect as per direction of Bank Engg. (EACH Circuit to take NOT MORE than 3 points) The conduit/ Flexible conduit/junction box/metal modular box etc must be joined by gland and check nut at both ends. (each circuit to be controlled by one MCB). The colour code of wire are as under:Phase- Red/yellow/blue, Neutral- Black, Earth-Green Make of Material for items of BOQ:- (i) Modular Type Switch/socket/step electronic fan regulator, plate, box, TV/telephone, bulb holder/3 pin ceiling rose with all accessories:- Legrand/ Anchor(Roma)/MK/ Crabtree (ii) MS conduit conduit with all accessories:- BEC/AKG/NIC/Precision (iii) PVC insulated copper wire (FR) 1.5 sqmm multi strand 650V/1100 V grade:- Finolex/RR Kabel/ Polycab. as directed				
a	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	Nos.	47.00		
b	One ceiling / Wall Mounted fans points controlled by one 6 amp. Modular switch with stepped regulator(Two Module) as required.	Nos.	4.00		
c	One exhaust fan point with 6 amp 3-pin socket controlled by one 6 amp. Modular switch.	Nos.	2.00		
d	Providing and fixing 10 Amps Plug Points same board point	Nos.	10.00		
	<b>Power Wring (6 / 16 AMP. POWER POINTS)</b>				
44	Supply, fixing, testing and commissioning of 1 No 16 A switch & 1 No.six pin 6/16 Amp. Multi Socket ( Modular Type ) with cover plate , sheet steel box etc on surface / concealed manner inclusive of circuit wiring of 3 X4 sqmm PVC insulated copper conductor multi stranded wire in 16 SWG(MMS) stove enamelled rigid steel conduit of 20/25 mm dia along with all MS accessories like bend, junction box, etc on surface/recesses manner etc.( Separate circuit wiring from DB to Power point) and making good all the damages, plaster smooth finish, painting, cleaning the site etc complete as per site condition and as directed.	Nos.	6.00		
45	<b>FOOR FOOD COUNTER FOR STEAM CONTAINERS Point (Single Phase)</b>				
	Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. / GEYSER power point with the followings : Modular 32A DP 1 way switch with plate & box 1 set. + 25A & 10A twin socket i/c electrical connections with cover plate , sheet steel box etc on surface / concealed manner inclusive of circuit wiring of 3 X4 sqmm PVC insulated copper conductor multi stranded wire in 16 SWG(MMS) stove enamelled rigid steel conduit of 20/25 mm dia along with all MS accessories like bend, junction box, etc on surface/recesses manner etc.( Separate circuit wiring from DB to Power point) and making good all the damages, plaster smooth finish, painting, cleaning the site etc complete as per site condition and as directed.	Nos.	4.00		
46	Supply laying, testing & commissioning of 1100V Grade PVC insulated copper conductor wire With MS-conduit (16 SWG) pipe with accessories like bend junction box in concealed manner and making good all the damages, painting, cleaning the site as desire				
	3x 2.5 Sqmm.(Main Circuit wiring)	RM	350.00		
	3X1.5 Sqmm	RM	145.00		
	3X4.0 Sqmm	RM	150.00		
	4X 6.0 sqmm+1X4sqmm	RM	130.00		

S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
47	Supply, testing and commissioning of recessed /Surfaces mounted LED full Spot light fitting suitable for framing surface / grid/gypsum ceiling complete with its electronic driver as required. LED fitting (Make: Philips / Wipro / Havells / Orient or as per approved.)				
	12 Watts (4000 K)	Nos.	10.00		
48	Supply, testing and commissioning of Holder Mounted LED 3D-Bulb fitting suitable for wall surface complete with Good quality Holder as required. LED fitting (Make: Philips / Wipro / Orient or as per approved.)				
	10 Watts (6500 K)	Nos.	5.00		
49	Supply, testing and commissioning of recessed /Surfaces mounted LED full DownLighter-Moon Lite fitting suitable for framing surface / grid/Baffle Ceiling / gypsum ceiling complete with its electronic driver as required. LED fitting (Make: Philips / Wipro / Havells/Orient or as per approved.)				
	9 Watts (Lumen-765)	Nos.	18.00		
50	Supply, testing and commissioning of LED COB Track Light has a unique narrow beam-angle light distribution LED COB Track Light including tracking system as required for same, fitting suitable for framing surface / grid/Baffle Ceiling / gypsum ceiling complete with its electronic driver as required. LED fitting (Make: Philips / Wipro / Havells/Orient or as per approved.)				
	20 Watts (3000k to 6000k) in Round shape	Nos.	8.00		
51	<b>EXHAUST FAN:- Providing &amp; Fixing</b> Single phase, 300mm sweep, 900 rpm, Heavy Duty PVC Exhaust fan of the following single phase Exhaust fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wounded, A & E class insulation, dynamically balanced, below 40 db sound level etc, front cover with grill/gravity louver for protection purpose with 12 mm plywood complete in all respect make as under: CG/USHA/ORIENT/HAVELLS/ALMONARD/ALSTOM OR AS PER APPROVED	Nos.	2.00		
52	32A D.P. SWITCH:- Providing & Fixing Roma White 32A, D.P. 1 Way Switch with Neon(Heavy Duty Double Pole Main Switch) a Double Pole Switch can be used to control Light and Fan on Separate Circuits.	Nos.	2.00		
53	Supplying, fixing, testing and comm. etc. of three phase - 6way TPN DB, Double door wire distribution board having , All MCB/TPN has 10KA Breaking Capacity incomer 63 Amp TPN MCB - 1, out going 32/25 Amp SPMCB – 9, 10 Amp SPMCB - 9 nos.	Nos.	1.00		
54	<b>WALL FAN:- ( Only Metallic Body)</b> Oscillating wall fan with regulator i/c connections etc complete as required as per approved make, Sweep 400/450 mm , RPM 1300. Make:- havells / Orient / usha or as per approved.	Nos.	4.00		
55	<b>COPPER PLATE EARTH STATION:</b> Preparation of the Plate Earth Station:( As per IS:3043) (a) Excavation of hard rocky earth, soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm X 1000 mm X 2500 mm. (b) Supply and fixing of Copper Plate of Size 600 mm X 600 mm X 3.0 mm thick. (c) Fixing of 50 mm X 6 mm, 3 Mtrs copper strips from Copper Plate to earth terminal including brazing/welding at plate etc. (d) Supply and laying in position 19 mm, 2 Mtrs G.I "B" Class pipe for watering with reducer/funnel with mesh. (e) Supply and Fixing of the following in the earth station. (i) 75 Kg. Charcoal. (ii) 15 Kg. Original Salt. (iii) Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I Cover of size 12" X 12" complete as per site requirement.	Nos.	1.00		

S.No.	PARTICULARS OF WORK	UNIT	QTY.	RATE	AMOUNT
56	Providing and fixing Copper/GI strip as per specification complete including connection to earth electrode revetting/sweating/soldering, burying 15 cms below in all types of soil/rocks etc complete as required. (a) Copper Strip 25 X 5 mm	RM	30.00		
57	<b>CEILING FAN :</b>				
	Supply, ,Installation,testing and commissioning of the single phase heavy duty grease filled double ball bearing, aerodynamically designed heavy gauge aluminium blades, copper wounded and impregnated silicon stamping motor etc.				
a).	1200 mm sweep, brilliant white (with regulator) (Make: Crompton Greaves/Almonard/Havells ES 50 )	Nos.	4.00		
58	<b>AC / GEYSER POWER POINTS :</b>				
	Supply, Installation, Testing and commissioning of the concealed mounting A.C. / GEYSER point with the followings :				
a.	32 A D.P.,1 way switch with neon with plate and box.- 1 set	Nos.	2.00		
b.	25 A & 10 A Twin socket with plate and box.- 1 Set. i/c electrical connections and making good all the damages, painting, cleaning the site with 2 x 6.0 +1 x 2.5 sq mm FRLS PVC insulated copper conductor single core multi streded wire in 16 swg stove enamelled rigid Steel conduit with conduit accessories in concealed manner etc complete as required. MCB distribution board to switch box etc complete as required.				
59	<b>AIR CONDITIONERS (SPLIT TYPE):</b>				
	Supply and Installation of split type 1.5 tonne capacity Air-Conditioners (5 star with Inverter based) of make:- Voltas / Blue Star / hitachi / carrier. Including 1-OutDoor, 1-Inddor Unit with Interconnecting cable of 15.0m (Indoor to Outdoor) 1 set(2 nos.), Interconnecting Copper pipe of 15.0m indoor to Outdoor connection with insullation, drain pipe, M.S. stand for outdoor unit and all accessories complete in all respect. Note:- Remote Controlled, Inverter Compressor, Dust Filter, Fast Cooling, Energy rating -3-5 Star.	Nos.	2.00		
60	<b>STABILISER FOR AC UNIT:</b>				
	Supply and Installation of 4 KVA Automatic of V-guard /Microtek or Equivalent or Approved by Engineer, Voltage range from 130-280V.	Nos.	2.00		
	<b><u>AMOUNT OF CIVIL, INTERIOR, TENSILE FABRIC AND INTERNAL ELECTRICAL WORKS</u></b>				
	<b>ADD GST AS PER APPLICABLE</b>				