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Item Rate BoQ

Tender Inviting Authority: PRINCIPAL SHAHEED BHAGAT SINGH COLLEGE

Name of Work: RENOVATION AND INTERIOR WORK OF LIBRARY, SHAHEED BHAGAT SINGH COLLEGE AT SHEIKH SARAI, NEW DELHI - 110017

Contract No: SBSC/904

Name of the Bidder/ Bidding Firm / Company :	
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PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	<u>STONE WORK</u>					
1.01	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.					
1.011	Granite of any colour and shade					

1.02	Area of slab upto 0.50 sqm	15.00	Square Metre		0.00	INR Zero Only
1.03	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
1.04	Granite Work	15.00	Square Metre		0.00	INR Zero Only
2	<u>WOOD WORK & PVC WORK</u>					
2.01	Providing and fixing fly proof stainless steel grade 304 wire gauge, to window and clerestory window using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete.					
2.011	With 2nd class teak wood beading 62x19 mm	60.00	Square Metre		0.00	INR Zero Only
2.02	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.					
2.021	Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.	60.00	Square Metre		0.00	INR Zero Only
3	<u>FLOORING</u>					

3.01	Providing and laying vitrified floor tiles in different sizes(thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622,of approved make,in all colours and shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigment etc.,complete.					
3.011	Size of Tile 600x600 mm	900.00	Square Metre		0.00	INR Zero Only
3.02	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	900.00	Square Metre		0.00	INR Zero Only
3.03	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.					
3.031	Size of Tile 600x600 mm	30.00	Square Metre		0.00	INR Zero Only
4	<u>ROOFING WORK</u>					
4.01	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately):					
4.011	Flat surfaces	90.00	Square Metre		0.00	INR Zero Only

4.02	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 periMetre channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the periMetre of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and periMetre channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, 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 upto 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, cutouts made with frame of periMetre channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with .					
4.021	12.5 mm thick tapered edge gypsum moisture resistant board	650.00	Square Metre		0.00	INR Zero Only
5	<u>FINISHING WORK</u>					
5.01	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	600.00	Square Metre		0.00	INR Zero Only
5.02	Applying priming coat:					
5.021	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	145.00	Square Metre		0.00	INR Zero Only

5.03	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :					
5.031	Two or more coats on new work	1310.00	Square Metre		0.00	INR Zero Only
5.04	POP Punning	6500	Square feet		0.00	INR Zero Only
6	<u>DISMANTLING & DEMOLISHING WORK</u>					
6.01	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :					
6.011	Of area 3 sq. metres and below	16.00	Nos		0.00	INR Zero Only
6.02	Dismantling, Demolishing and Disposal of:					
6.021	Wooden Partition	660.00	Square feet		0.00	INR Zero Only
6.03	Fixed Almirah & Furnishing	1.00	Lump sum		0.00	INR Zero Only
7	<u>INTERIOR WORK</u>					
7.01	Wooden Partition One Side Veneer & Other Side Laminate finish.					
7.011	Providing & Fixing in position 2" X 2" salwood framework with both directions with 9mm thk. Commercial ply on both sides on oneside finished in 4 mm thk veneer of approved shade in desired pattern and other finished in 1 mm thk, laminate of approved shade and veneer finished with 3 coats of melamine polish as per architects instructions. Note : (i) Salwood to be treated with woodguard & Black Japan. (ii) All ply to be sprayed with anti-termite & anti-borer spray (iii) Rate to include all necessary supports & as per details (iv) Measurements to be recorded upto finished false ceiling level. [Basic rate of veneer: 75/sft]	140.00	Square Metre		0.00	INR Zero Only
7.02	Flush door with laminate on both side					
7.021	Providing & fixing 35mm thk marine flush door with 1 1/2" X 1/4" lipping patti on all sides, finished in 1.5mm thk laminate on both sides of approved shade and as per architects instructions. complete with all necessary hardware, stoppers. (Cost to include cost of Handle, lock, floor spring / door closure, hinges)	8.00	Square Metre		0.00	INR Zero Only

7.03	Providing and Fixing full height storage made up of 19mm thick block board ,boxed from all side with 9mm plywood on back side resting on 100mm wide laminated recessed skirting of over all depth 385mm & ht.2135mm & with horizontal shelving in 19mm thick block board ,385 centre to centre and vertical portion at 770 c/c laminated from inside with front coverage in 385mm wide single/double shutter in formed with flex as per specifications from inside exposed thickness in steam beach 4mm thick wooden margin wherever required, polished in natural sprit,finished with two coats of melamine complete in all respect including of concealed hinges magnets, brass handles, locks etc. as per drawing.	240.00	Square feet		0.00	INR Zero Only
7.04	P/P Full height book racks (one sided use) of ht. 2100mm, deep 225mm of maximum length 1200mm made up of 19 mm thick block board in between shelves placed criss-cross at regular interval like pegion hole, horizontal shelves placed at a clear ht. 275mm with 100mm wide skirting on bottom and vertical partition (19mm thick block board) at a clear distance of 600 mm placed with support of 12 mm vertical back plywood all laminated from all outer & inner side of approved shade & design and steam beach margin of 4mm thick on exposed thickness of partitions, complete in all respect.	1200.00	Square feet		0.00	INR Zero Only
7.05	P/P Full height book racks (both sided use) of ht. 2100mm, deep 450mm of maximum length 1200mm made up of 19 mm thick block board in between shelves placed criss-cross at regular interval like pegion hole, horizontal shelves placed at a clear ht. 275mm with 100mm wide skirting on bottom and vertical partition (19mm thick block board) at a clear distance of 600 mm placed with support of 12 mm vertical back plywood all laminated from all outer & inner side of approved shade & design and steam beach margin of 4mm thick on exposed thickness of partitions, complete in all respect.	2150.00	Square feet		0.00	INR Zero Only
7.06	Table					
7.061	P/P Student reading table in main reading area of library of size 2400x900x760mm(ht.) top made up of 18mm thick particle board with edges in additional 12mm thick full round post formed along the longitudinal length both sides post formed in full round with flex of approved shade and size 600x600mm, made up of 50x50mm kail wool frame work with 12mm plywood from exposed surface , laminated on bottom, each pedastal fixed with full ht.30mm thick block board modestry panel, laminated on both side, complete in all respect.	14.00	Nos		0.00	INR Zero Only

7.062	P/S circular table of 1200mm dia, standing on single stand	17.00	Nos		0.00	INR Zero Only
7.063	1200Wx 600Dx750H mm in Laminate Finish. Free standing TABLE top made of 25mm th. Prelaminated particle board with longer edges having reverse wall fall edge to have slim edge look with aluminium access flap with closing mechanism. Top should have floating look with 10-20mm ht. Aluminium/pvc ergonomically profiled connector when it fitted with metal understructure. Understructure shall have triangle looped legs with min. size of section 74mmx54mmx54mm Th. made of MS Extrusion duly powder coated. It is fitted with M8X25mm dome shape leveller to have better look & its size should be matching to leg pipe size. Front apron wooden modesty of 18mm th. prelaminated twin laminated shall be fixed with metal leg. The ht. of modesty is 600mm. All wiring mechanism/switch plates are to be mounted on below access flap with vertical/horizontal post to carry wires from junction post, keyboard tray made of MS duly powder coated.	5.00	Nos		0.00	INR Zero Only
7.064	Side storage of size:-900WX400DX750H Storage top made of 25mm th. prelaminated particle board with front longer edge having reverse wall fall edge to have slim edge look. Body is entirely made of 18mm th. prelaminated board of laminate finish except back which is in 9mm th., shall be fitted in grooves on 4 sides of storages. Doors shall have no external handles, it's top edge is profiled in reverse waterfall edge for easy finger grip user. Door is fitted with SS finished auto closing hinges with min 95 deg opening. Storage shall have 2 drawers, Doors should be opened with single key & all drawers & doors shall have no handles.	5.00	Nos		0.00	INR Zero Only

7.07	WORKSTATION in laminate finish 975Wx 600Dx1050Hmm including 8mm th. lecquered glass screen. Free standing Workstation top made of 25mm th. Prelaminated particle board with longer edges having reverse wall fall edge to have slim edge look with aluminium access flap with closing mechanism.Top should have floating look with 10-20mm ht.Aluminium/pvc ergonomically profiled connector when it fitted with metal understructure. Understructure shall have triangle looped legs with min. size of section 45mmx45mmx45mm Th. made of MS Extrusion duly powder coated. It is fitted with M8X25mm dome shape leveller to have better look & its size should be matching to leg pipe size. The above top magnetic lecquered glass screen ht. 300mm of 8mm fitted with ht. 65mm brackets. All wiring mecahnism/swith plates are to be mounted on below access flap with vertical/horizontal post to carry wires from junction post, keyboard tray made of MS duly powder coated.	14.00	Nos		0.00	INR Zero Only
7.08	Pedestal Size -400WX450DX685H shall have 2 drawers/1filling. Drawers facia shall have no external handles. It's top edge is reverse waterfall edge for finger grip user. Drawers should be opened with single key.	14.00	Nos		0.00	INR Zero Only
7.09	P/S Sofa with overall structure made in combination of S.S.25mm square pipe and in 12mm round pipe, seats and back in high density foam,full upholsteterd as per architects approval with basic dimension Depth = 30", back ht.= 29" seat ht.= 18" ,upholastry/fabric as per approved shade & pattern in following combination.					
7.091	(B) Three Seater	3.00	Nos		0.00	INR Zero Only
8	CHAIRS					
8.01	Providing and supplying medium back chairs as per following specification (1). The chairs has a back inner / outer shell made out up of polypropylene having snap type fittings . (2). Moulded foam (48 DENSITY) is used on the seat and back. (3). A hot p					
8.011	OFFICERS/STAFF CHAIR(MEDIUM MESH BACK) WITH REVOLVING AND TILTING ARRANGEMENT as per above specification.	15.00	Nos		0.00	INR Zero Only

8.012	LEATHERETTE UPHOLESTERY PLUSH BACK CHAIR WITH REVOLVING AND TILTING ARRANGEMENT as per above specification	15.00	Nos		0.00	INR Zero Only
8.013	LEATHERETTE UPHOLESTERY MEDIUM BACK CONFERENCE CHAIR WITH REVOLVING AND TILTING ARRANGEMENT as per above specification	37.00	Nos		0.00	INR Zero Only
8.014	Wooden Chair For Reading Area	170.00	Nos		0.00	INR Zero Only
8.02	RE LAMINATION					
8.021	Re lamination of existing Furniture/Installations by taking out the old one and fixing 1.0 mm thick new laminate over 4.0 mm thick new commercial ply with fittings, polishing etc.complete.	400.00	Square feet		0.00	INR Zero Only
8.022	Renovation of Existing tables with new laminate, moulding, fittings, polishings etc. complete.	10.00	Nos		0.00	INR Zero Only
8.023	Providing and fixing Block board over kail wood battens with frame ISMB section for filling cut out section of slab	156.00	Square feet		0.00	INR Zero Only
9	INTERNAL WIRING					
9.01	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
9.011	Group -A	342.00	Point		0.00	INR Zero Only
9.02	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required					
9.021	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	1881.00	Metre		0.00	INR Zero Only
9.022	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	440.00	Metre		0.00	INR Zero Only
9.023	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	1800.00	Metre		0.00	INR Zero Only
9.024	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	10.00	Metre		0.00	INR Zero Only
9.025	4 x 10 sq.mm + 2 x 10 sq.mm. earth wire	120.00	Metre		0.00	INR Zero Only
9.026	4 x 16 sq.mm + 2 x 16 sq.mm. earth wire	10.00	Metre		0.00	INR Zero Only

9.03	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	57.00	Nos		0.00	INR Zero Only
9.04	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	22.00	Nos		0.00	INR Zero Only
9.05	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	34.00	Nos		0.00	INR Zero Only
9.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	2.00	Nos		0.00	INR Zero Only
9.07	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
9.071	20mm dia PVC conduit	500.00	Metre		0.00	INR Zero Only
9.072	25mm dia PVC conduit	500.00	Metre		0.00	INR Zero Only
9.073	32mm dia PVC conduit	500.00	Metre		0.00	INR Zero Only
10	<u>SUB-HEAD II - FANS & LIGHT FIXTURES:</u>					
10.01	Supplying, fixing, connecting, testing and commissioning of 1 x 28 watt T-5 fluorescent luminaire complete with electronic ballast, lockable holders and fluorescent lamp including connection etc. as required .	5.00	Nos		0.00	INR Zero Only
10.02	Supply, installation, connecting, testing and commissioning of illuminated exit sign with 1 x 3 watt LED lamp including providing maintenance free batteries & charger capable of working for 2 hr duration mounted on ceiling/wall complete with the approved EXIT self adhesive labels as per site requirement as required.	3.00	Nos		0.00	INR Zero Only

10.03	Supplying of surface/ recessed type LED down-lighter with high efficiency white reflector and high transmissive diffuser ,fitting complete with, holder, electronic driver, heat sink and LED (less than 10% THD), low depth with die cast aluminium housing 1 x 34W LED with CRI >70, including with driver connections etc. as required .	331.00	Nos		0.00	INR Zero Only
10.04	Supplying of surface/recessed type LED down-lighter with high efficiency white reflector and high transmissive diffuser ,fitting complete with, holder, driver, heat sink and LED (less than 10% THD), low depth with die cast aluminium housing 1 x 15W LED with CRI >70, including with driver connections etc. as required.	10.00	Nos		0.00	INR Zero Only
10.05	Supplying, erection, connecting, testing and commissioning of following size heavy duty exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.					
10.051	c) 200 mm dia fresh air fan - residential toilets & hostels	4.00	Nos		0.00	INR Zero Only
10.06	Supplying, fixing, connecting, testing and commissioning of 1200mm sweep ceiling fan 5-star rate as per BEE complete with blades, down rod, shackle insulator, canopy etc. including providing of electronic step regulator with face plate matching the existing modular switches as required.	2.00	Nos		0.00	INR Zero Only
10.07	Supplying, fixing, connecting, testing and commissioning of mirror light luminaire with 1 x 14 watt complete with electronic ballast, lamp including connection etc. complete as required.	2.00	Nos		0.00	INR Zero Only
11	<u>M.V. PANELS/ DISTRIBUTION BOARD</u>					
11.01	Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note : Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
11.011	4 way Double door	3.00	Nos		0.00	INR Zero Only
11.012	8 way Double door	3.00	Nos		0.00	INR Zero Only

11.013	12 way Double door	3.00	Nos		0.00	INR Zero Only
11.02	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
11.021	63 amps	9.00	Nos		0.00	INR Zero Only
11.03	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
11.031	Single pole	216.00	Nos		0.00	INR Zero Only
11.04	Supplying, installation, testing and commissioning of cubical type MV Panel as per IEC:61439-I made out of 14 SWG sheet steel, totally enclosed IP-54 protection, free standing, floor mounted dust and vermin proof, indoor type compartmentalized powder coated of approved shade after antirust treatment (with min seven tanks) suitable with busbar interconnection with suitable size of copper lead/solid Aluminium strips, control circuits & bottom base channel of MS section not less than 100mmx50mmx5mm (thick), Fabrication shall be done in transportable section ,entire panel shall have a common earth busbar at rear with 2 nos earth stud cable alleys, cable gland plates in two half as required as per single line diagram & specification enclosed with the following switchgears.(Panel for Library) INCOMER:-1 Nos.160 Amps. TPN MCCB (35 KA) with electronic releases.1 Set phase indication lights (R, Y, B) 1 No. Volt Metre (digital type) with inbuilt VSS & control fuses. 1 No. 0-160 Amp. AmMetre (digital type) with inbuilt ASS BUS BARS:- 200 Amps. TP&N aluminium bus bars (35 KA) OUT GOINGS:-12 Nos. 63A TPN, MCB	1.00	Set		0.00	INR Zero Only

11.05	Supplying, installation, testing and commissioning of cubical type MV Panel as per IEC:61439-I made out of 14 SWG sheet steel, totally enclosed IP-54 protection, free standing, floor mounted dust and vermin proof, indoor type compartmentalized powder coated of approved shade after antirust treatment (with min seven tanks) suitable with busbar interconnection with suitable size of copper lead/solid Aluminium strips, control circuits & bottom base channel of MS section not less than 100mmx50mmx5mm (thick), Fabrication shall be done in transportable section ,entire panel shall have a common earth busbar at rear with 2 nos earth stud cable alleys, cable gland plates in two half as required as per single line diagram & specification enclosed with the following switchgears. (Main UPS Panel for Library) INCOMER:-1 Nos.63Amps. FP MCCB (25 KA) with electronic releases.1 Set phase indication lights (R, Y, B) 1 No. Volt Metre (digital type) with inbuilt VSS & control fuses.1 No. 0-63 Amp. AmMetre (digital type) with inbuilt ASS. BUS BARS:-100 Amps. TP&N aluminium bus bars (35 KA). OUT GOINGS:-12 Nos. 63A FP, MCB	1.00	Set		0.00	INR Zero Only
11.06	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	10.00	Nos		0.00	INR Zero Only
12	<u>L.T. CABLES</u>					
12.01	Supply, laying and testing of under noted sizes of Aluminium conductor XLPE insulated PVC sheathed & sleeved armoured and overall PVC sleeved 1.1 KV grade power distribution cables conforming to relevant IS code and as per specification in ground (including trenches) through pipe or on wall / racks cable trays including dressing and clamping the cable with MS zinc passivated clamps etc. as required.					
12.011	3.5 x 95 sq.mm	100.00	Metre		0.00	INR Zero Only
12.012	3.5 x 50 sq.mm	10.00	Metre		0.00	INR Zero Only
12.013	4 x 25 sq.mm	80.00	Metre		0.00	INR Zero Only
12.014	4 x 16 sq.mm	60.00	Metre		0.00	INR Zero Only

12.02	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
12.021	3.5 x 95 sq.mm	2.00	Nos		0.00	INR Zero Only
12.022	3.5 x 50 sq.mm	2.00	Nos		0.00	INR Zero Only
12.023	4 x 25 sq.mm	6.00	Nos		0.00	INR Zero Only
12.024	4 x 16 sq.mm	6.00	Nos		0.00	INR Zero Only
12.03	Supply, laying and testing of under noted sizes of Copper conductor XLPE insulated PVC sheathed & sleeved armoured and overall PVC sleeved 1.1 KV grade power distribution cables conforming to relevant IS code and as per specification in ground (including trenches) through pipe or on wall / racks cable trays including dressing and clamping the cable with MS zinc passivated clamps etc. as required.					
12.031	4 x 25 sq.mm	50.00	Metre		0.00	INR Zero Only
12.032	4 x 16 sq.mm	10.00	Metre		0.00	INR Zero Only
12.033	4 x 10 sq.mm	10.00	Metre		0.00	INR Zero Only
12.034	4 x 2.5 sq.mm	20.00	Metre		0.00	INR Zero Only
12.04	Supply and making end termination with brass double compression gland including providing and crimping of copper solderless lugs / ferrules for XLPE armoured power copper conductor cable 1.1 KV grade of following sizes:-					
12.041	4 x 25 sq.mm	2.00	Set		0.00	INR Zero Only
12.042	4 x 16 sq.mm	6.00	Set		0.00	INR Zero Only
12.043	4 x 10 sq.mm	6.00	Set		0.00	INR Zero Only
12.044	4 x 2.5 sq.mm	10.00	Set		0.00	INR Zero Only

12.05	Supply and fixing of cable tray/steel work in position including clamps, frame work of flats, angle iron, channel with fabrication work including cutting, bending, welding, drilling bolting etc. as per design as required. One coat of primer and 2 coats of enamel paint of approved shade shall be provided.	200.00	Kilo gram		0.00	INR Zero Only
12.06	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.					
12.061	300 mm width X 50 mm depth X 1.6 mm thickness	30.00	Metre		0.00	INR Zero Only
13	<u>EARTHING</u>					
13.01	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	1.00	Set		0.00	INR Zero Only
13.02	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	10.00	Metre		0.00	INR Zero Only
13.03	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	5.00	Metre		0.00	INR Zero Only
13.04	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	10.00	Metre		0.00	INR Zero Only
13.05	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	5.00	Metre		0.00	INR Zero Only
13.06	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	300.00	Metre		0.00	INR Zero Only
13.07	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	50.00	Metre		0.00	INR Zero Only
14	<u>TELEPHONE SYSTEM & CONDUITING FOR LAN SYSTEM</u>					

14.01	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.					
14.011	4 Pair (8 core)	10.00	Metre		0.00	INR Zero Only
14.012	2 Pair (4 core)	450.00	Metre		0.00	INR Zero Only
14.02	Providing, laying connecting and testing of multi-core telephone armoured cable of conductor size 0.6 mm dia annealed copper conductor PVC insulated PVC sheathed jelly filled (as per DOT specification) cable as required					
14.021	50 Pair telephone cable	100.00	Metre		0.00	INR Zero Only
14.022	20 Pair telephone cable	50.00	Metre		0.00	INR Zero Only
14.023	10 Pair telephone cable	100.00	Metre		0.00	INR Zero Only
14.024	5 Pair telephone cable	50.00	Metre		0.00	INR Zero Only
14.03	Providing, fixing connecting and testing of under noted size of solderless telephone tag block Krone make in surface/recess in wall required size of M.S. box with hinged lockable cover duly stove enamel painted.					
14.031	50 pair tag block	1.00	Nos		0.00	INR Zero Only
14.032	20 pair tag block	3.00	Nos		0.00	INR Zero Only
14.033	5 pair tag block	2.00	Nos		0.00	INR Zero Only
14.04	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
14.041	20mm dia conduit pipe	1000.00	Metre		0.00	INR Zero Only
14.042	25mm dia conduit pipe	200.00	Metre		0.00	INR Zero Only
14.043	32mm dia conduit pipe	100.00	Metre		0.00	INR Zero Only
14.05	Providing, laying and fixing 80 dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required	30.00	Metre		0.00	INR Zero Only

14.06	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
14.061	Supplying and fixing M.S. box with modular type telephone (RJ-11) outlet complete as required.	9.00	Nos		0.00	INR Zero Only
14.07	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.					
14.071	Supply and fixing of 75mm x 75mm x 60mm deep metal box on surface or in recess for RJ-45 outlets	29.00	Nos		0.00	INR Zero Only
15	<u>FIRE DETECTION SYSTEM</u>					
15.01	Supply, installation, testing and commissioning of UL listed microprocessor based analog addressable intelligent fire alarm control panel (2 loops) complete with central processing unit. Network communication card RS-485 port, 8 lines, 21 character each (168 Characters total) graphic LCD display with primary power supply at 230 V 50 Hz AC provided with 24/36 volts, sealed maintenance free (SMF) batteries backup (as per IS) complete with solid state boost/trickle automatic battery charger. The panel shall have integral two way communication & voice evacuation facility address system with 8 channel zoned switch amplifier and auto voice dialing facility. The panel shall have UL listed field controlled from PC graphics software compatible to IBMS, security surveillance system , Public address system etc. as required.	1.00	Set		0.00	INR Zero Only
15.02	Supply, installation, testing and commissioning of UL listed integral microprocessor (not micro-controller) intelligent multi cooperative type addressable photoelectric or multi cooperative type optical smoke detectors based with moisture free & rust free in base complete as per specifications as required.	54.00	Nos		0.00	INR Zero Only
15.03	Supply, installation, testing and commissioning of addressable type manual call point, 1 stage with in-built LED, lighting up automatically to confirm its actuation complete as per specification as required.	6.00	Nos		0.00	INR Zero Only
15.04	Supply, installation, testing and commissioning of UL listed wall mounted hooter with strobe (100 dba) complete as per specification as required.	12.00	Nos		0.00	INR Zero Only

15.05	Supply, installation, testing and commissioning of UL listed surface type mounted directly on ceiling/ recessed 1/4-1/2 tap changer directional sounders with line matching transformer complete as per specification as required.	27.00	Nos		0.00	INR Zero Only
15.06	Supplying, wiring, testing and commissioning of point wiring for speakers with 2 core 1.5 Sq.mm cu. shielded copper conductor wire including loop wiring from MFACP in M.S conduit with conduit accessories complete as required.	405.00	Nos		0.00	INR Zero Only
15.07	Supplying, laying, testing and commissioning of 2x1.5 sq.mm. of mineral insulated copper conductor fire survival with outer sheathed seamless welded copper cable approved by LPCB and as per IEC60331, BS-5839-1, BS-6387 and BS-7346 standards along with accessories/ termination glands as per BS/EN60702 part-2 and all necessary materials to complete. The cable shall sustain 950 deg. C. For 3 hours.Wiring for smoke/ heat detectors Wiring for Input/Output modules.Wiring for manual call point.	900.00	Metre		0.00	INR Zero Only
15.08	Supplying, laying, testing and commissioning of point wiring for hooters with strobe circuits with 2 pair 1.5 sq.mm copper conductor flexible wire (1 pair shielded and 1 pair unshielded) including loop wiring from MFACP in M.S. conduit with conduit accessories complete as required.	600.00	Metre		0.00	INR Zero Only
16	<u>LAN SYSTEM</u>					
16.01	Supply, installation, testing and commissioning of the following components as required.					
16.02	4-pair, Cat6 UTP Cable, roll of 305m, 200 MHz, Blue Color (For Data)	29.00	Box		0.00	INR Zero Only
16.03	24-port unloaded Modular Jack Panel (for UTP Jacks only), 1U (For Data utp Field Cable)	2.00	Nos		0.00	INR Zero Only
16.04	Cat 6 Patch Cords - 7 Feet-Blue (Data Work Station end)	29.00	Nos		0.00	INR Zero Only
16.05	Cat 6 Patch Cords - 4 Feet-Blue(Data Rack end)	29.00	Nos		0.00	INR Zero Only
16.06	1-port British-style shuttered faceplate	29.00	Nos		0.00	INR Zero Only
16.07	Cat 6 UTP RJ-45 Jack with Strain relief and bend limiting boot Blue (For Data Rack & Workstation)	58.00	Nos		0.00	INR Zero Only
16.08	Cat 6 24-port loaded, 110 Connect Jack Panel, 1U (For Data UTP Cables) Closed rack	15.00	Nos		0.00	INR Zero Only

16.09	Cat 6 Patch Cords - 7 Feet-Yellow	29.00	Nos		0.00	INR Zero Only
16.091	Horizontal PVC cable manger	1.00	Nos		0.00	INR Zero Only
16.092	6 U Wall Mount Rack	15.00	Nos		0.00	INR Zero Only
16.093	Hardware Pkt	1.00	Nos		0.00	INR Zero Only
16.094	Earthing Kit	1.00	Nos		0.00	INR Zero Only
16.095	AC Distribution Box (6 Points - 5A Sockets) - IU	15.00	Nos		0.00	INR Zero Only
17	<u>UPS SYSTEM</u>					
17.01	Supply,installation, testing & commissioning of micro processor /DSP controlled 20 KVA UPS in Parallel with IGBT based rectifier to achieve THDI < 2% for linear load and < 3% for non linear load, with 15 mins backup, battery racks,circuit breaker, input power factor of greater than 0.99 at 100% loading, output power factor .8 and efficiency should be 92% minimum with True Online Double Conversion (VFI as per IEC 62040-3) UPS using PWM IGBT technology on charger and inverter section, with galvanic isolation transformer connected at output end, Three Phase input and Three phase output UPS system with networking Network Management Ethernet Card along-with software for SNMP / Web-based monitoring of UPS, Remote UPS Control, IBMS compatible, logging & reporting of UPS data and all interconnection cabling and as per specifications as required.	1.00	Set		0.00	INR Zero Only
18	<u>HI WALL SPILT UNIT</u>					
18.01	Providing, fixing, testing and commissioning high wall mounted spilt unit airconditioners with evaporator with fan with motor, cooling coil, filter, all enclosed in decorative plastic casing condenser with hermetically sealed rotary compressor, condenser coil, propeller fan with motor, inter connecting, refrigerant piping, wiring, earthing, corded remote control, MS frame for mounting condensing unit					
18.011	2.0 Ton	18.00	Nos		0.00	INR Zero Only
18.012	1.5 Ton	12.00	Nos		0.00	INR Zero Only
18.013	Installation Cost	30.00	Nos		0.00	INR Zero Only
18.014	Outdoor Stand	30.00	Nos		0.00	INR Zero Only
18.015	Caging with Lock & Key facility	30.00	Nos		0.00	INR Zero Only

18.016	Copper Piping	300.00	Metre		0.00	INR Zero Only
18.017	Electrical cabling	250.00	Metre		0.00	INR Zero Only
18.018	Drain piping - Hard PVC pipe (25 mm) with 12mm expanded polythene insulation	250.00	Metre		0.00	INR Zero Only
18.02	SITC of 5 KVA stabilizer of reputed make	18.00	Nos		0.00	INR Zero Only
18.03	SITC of 4 KVA stabilizer of reputed make	12.00	Nos		0.00	INR Zero Only
19	<u>Ceiling Mounted Cassette Unit</u>					
19.01	Providing, fixing, testing and commissioning high ceiling mounted cassette unit airconditioners with evaporator with fan with motor, cooling coil, filter, all enclosed in decorative plastic casing condenser with hermetically sealed rotary compressor, condenser coil, propeller fan with motor, inter connecting, refrigerant piping, wiring, earthing, corded remote control.					
19.011	3.0 Ton	14.00	Nos		0.00	INR Zero Only
19.012	Installation Cost	14.00	Nos		0.00	INR Zero Only
19.013	Outdoor Stand	14.00	Nos		0.00	INR Zero Only
19.014	Caging with Lock & Key facility	14.00	Nos		0.00	INR Zero Only
19.015	Copper Piping	140.00	Metre		0.00	INR Zero Only
19.016	Electrical cabling	120.00	Metre		0.00	INR Zero Only
19.017	Drain piping - Hard PVC pipe (25 mm) with 12mm expanded polythene insulation	120.00	Metre		0.00	INR Zero Only
19.018	SITC of 6 KVA stabilizer of reputed make	14	Nos		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				