

BILL OF QUANTITY FOR INTERIOR, FURNISHING AND FURNITURE WORKS FOR IIBF AT C-5/30, SAFDARJUNG DEVELOPMENT AREA, NEW DELHI

GRAND SUMMARY

S. NO	DESCRIPTION		AMOUNT (RS.)
A	FURNISHING WORK		
I	FALSE CEILING	:	
II	PARTITIONS WORK	:	
III	FLOORING WORK	:	
IV	DOORS / WINDOWS	:	
V	WALL FINISHING	:	
VI	MISCELLANEOUS	:	
VII	TOILET ACCESSORIES	:	
VIII	CIVIL WORK	:	
	SUB TOTAL "A"	:	
B	FURNITURE WORK		
I	TABLES / WORKSTATION	:	
II	STORAGES	:	
	SUB TOTAL "B"	:	
C	ELECTRICAL WORK		
I	POINT WIRING AND CONDUITING	:	
II	ELECTRICAL FIXTURE WORKS :-	:	
III	PANEL AND DB's WORKS :-	:	
IV	EARTHING AND LIGHTNING PROTECTION	:	
V	MAIN & SUB-MAINS AND CABLES	:	
VI	Data Cabling, Raceways and Cable Trays Work.	:	
VII	CLOSE CIRCUIT TELEVISION SYSTEM Work.	:	
VIII	ACCESS CONTROL SYSTEM Work.	:	
IX	INTELLIGENT FIRE ALARM SYSTEM Work.	:	
X	PUBLIC ADDRESS / MUSIC SYSTEM	:	
	SUB TOTAL "C"	:	
D	OUTSIDE DEVELOPMENT		
E	1ST, 2ND & 3RD FLOOR		
I	FALSE CEILING	:	
II	PARTITIONS WORK	:	
III	FLOORING WORK	:	
IV	DOORS / WINDOWS	:	

S. NO	DESCRIPTION		AMOUNT (RS.)
V	WALL FINISHING	:	
VI	FURNITURE WORK	:	
VII	ELECTRICAL WORK		
	SUB TOTAL "E"	:	
	TOTAL (A+B+C+D+E)	:	
	LESS SALVAGE WORK	(-)	
	GST extra as applicable	:	
	GRAND TOTAL	:	
	In Words		

BILL OF QUANTITY FOR INTERIOR, FURNISHING AND FURNITURE WORKS					
S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	SCHEDULE-'A' (INTERIOR & FURNISHING WORK)				
I	FALSE CEILING WORKS				
1.1	Providing and fixing suspended false ceiling in Glass Fiber Reinforced Gypsum board (India gypsum make). Gypsum board suspended ceiling shall comprise of G.I. perimeter channel (MF-6A) of size 0.50mm thick having one flange of 19.6mm and another flange shall be of size 29.6mm and a web of 26.6mm along with perimeter of ceiling, screw fixed to the beam to the required curvature with nylon sleeves and screws at not exceeding 610mm centers. Then suspending G.I. intermediate channel (MF-7) of size 45mm, 0.9mm thick with two flanges of 15mm each bent to the required curvature by cutting both its flanges. Suitable bracing to be provided where ever the flanges are cut with 0.9mm G.I. Flat and nuts and bolts at specific positions and thereafter at 1220mm centers with ceiling angle of width 25mm x 10mm x 0.50mm thick fixed to soffit with G.I. cleats and steel expansion fasteners.				
	Ceiling section (MF-5) of 0.50mm thickness having knurled web of 51.5mm and two flanges of 25.6mm each with lips of 10.5mm bent to the required profile by cutting both its flanges. Suitable bracing to be provided wherever the flanges are cut with 0.50mm flats. Steel screws, are then fixed to the intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457mm centres. 12.5mm tapered edge Glass Fiber Reinforced Gypsum board (conforming to IS-2095-1982) is then screw fixed to ceiling section with 25mm drywall screws at 230mm centres.				
	Screw fixing is done mechanically either with screw driver or drilling machine with suitable attachment. The boards are to be jointed and finished which includes filling and finishing the tapered and square edges of the boards with jointing compound and fiber tape suitable for Gypsum board. A layer up to of 3.00mm thickness of Veneer Plaster is applied followed by two coats of topcoat (primer) at the face of board to give smooth seamless finish. Item includes two or more coats of plastic emulsion paint (roller finish) of approved shade and make shall be applied.				
	The item includes making all necessary cut outs & frame work for electrical fixtures / air conditioning work coves etc. Rectifying all defects and cracks formed during the construction period before handing over the work complete. The rates shall include for necessary supports, scaffolding and labor. All as per drawing, approval and instructions of the Architect / Engineer-in-charge.	Sq.m	265		
1.2	Visona Demountable T-Grid GFRG Ceiling Tile System of Knauf danoline make				
	400 x 1200 x 12.5mm high grade, glass fibre reinforced, acoustic, white Water-based acrylic emulsion paint				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	including titanium for hygienic indoor climate Glass fibre reinforced Gypsum tile with acoustic perforation as Tangent - oval 14x4mm c/c 20mm/10mm type T. Visona tiles are with edge E lengthwise and edge B crosswise, and are to be installed semi-concealed lengthwise and with visible joint crosswise. The tiles are furnished with a grey/white absorbent felt backing with an airflow resistance of 330-460 Ns/m ³ (DIN 53887). Acoustic Properties: Tangent: aw: 0.80; NRC: 0.75 Suspended 200mm. Fire Class: A2-s1,d0 Suspension: The 24mm T-grid suspension system from approved manufacturers consists of 38mm main runners, spacer bars and wall angles as mentioned on drawings for ceiling details. All visible surfaces painted in white colour and installed as per manufacturers recommendation. Characteristics: The tiles shall be: Manufactured from high grade non-combustible glass fibre reinforced gypsum board produced according to EN 520. Tested to meet the safety requirements of EN 14190. Tested in accordance with EN 13501-1 to achieve minimum fire classification A2-s1,d0. Non hazardous and fully recyclable. All as per drawing, approval and instructions of the Architect / Engineer-in-charge.	Sq.m	75		
1.3	Providing & Fixing False Ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of following Sizes of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC 0.50 to 0.75 as per IS 8225:1987, Noncombustible as per BS 476 (Part-4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15 x 32mm of length 3000 mm, cross - T of size 15 x 32mm of length 1200mm and secondary intermediate cross-T of size 15 x 32mm of length 300mm / 600mm to form grid module of size 300 x 1200mm / 600 x 600mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8mm outer diameter M-6 dash fasteners, 6mm dia fully threaded hanger rod up to 1000mm length and L-shape level adjuster of size 85 x harge / Architect.fire classification A2-s1,d0. Non hazardous and fully recyclable. All as per drawing, approval and instructions of the Architect / Engineer-in-charge.t 450mm center to center and 40mm long dry wall SS screws. The work shall be carried out as per specifications, drawing and as per directions of Engineer-in-Charge.				
a)	Size 595 x 595 mm With Semi Perforated 12 mm thick Micro Tegular Edged GRG False ceiling	Sq.m	98		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.4	Providing and fixing suspended wooden false ceiling shall comprise of providing and fixing G.I. perimeter channel (MF-6A) of size 0.50mm thick having one flange of 19mm and another flange shall be of size 29mm and a web of 26.6mm along with perimeter of ceiling, screw fixed to the beam to the required				
	flange of 19mm and another flange shall be of size 29mm and a web of 26.6mm along with perimeter of ceiling, screw fixed to the beam to the required curvature with nylon sleeves and screws at not exceeding 610mm centers. Then suspending G.I. intermediate channel (MF-7) of size 44.5mm, 0.85mm thick with two flanges of 14.5mm each bent to the required curvature (wherever required) by cutting both its flanges. Suitable bracing to be provided where ever the flanges are cut with 0.85mm G.I. Flat and nuts and bolts at specific positions and thereafter at 1220mm centers with ceiling angle of width 24.5mm x 9.5mm x 0.51mm thick fixed to soft with G.I. cleats and steel expansion fasteners.				
	Ceiling section (MF-5) of 0.50mm thickness having knurled web of 51.0mm and two flanges of 25.8mm each with lips of 10.5mm bent to the required profile (wherever required) by cutting both its flanges. Suitable bracing to be provided wherever the flanges are cut with 0.50mm flats. Fixing steel screws to the intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457mm centres. 8mm thick MDF board is then fixed to ceiling section with 25mm drywall screws at 230mm centres finished with 3.5mm thick veneer of approved shade finished with two or more coats of PU polish over one coat of sealer / 15mm thick MDF wave board (GLO make) on to the framework finished with high gloss paint of approved shade. Screw fixing shall be done mechanically either with screw driver or drilling machine with suitable attachment. All exposed woodwork / veneer to be melamine polished. All complete as per approval of the Architect				
a	Finished with MDF Jali	Sq.m	5		
b)	Finished with 3.5mm thick veneer ply	Sq.m	7		
1.5	Providing and fixing Readymade access panel door / Trap door of following sizes in false ceiling comprising Moisture Resistant Gypsum Board Access Panel with Powder coated Aluminium framing & stiffeners, push-catch closing mechanism with door retaining safety cable and hook, concealed locking arrangement. Trap door frame having Knauf Danoline embossed marking or equivalent .				
a)	600 x 1200mm	Each	3		
b)	900 x 1800mm	Each	7		
1.6	Repairing existing false ceiling with specification same as item no. 1.1	Sq.m	400		
	NOTE :-				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	For Item No. 1.1, 1.2, 1.3 & 1.4 the falseceiling design can be stepped / curved / architectural design, cove etc. However only plan / horizontal surface shall be measured for the purpose of payment				
2	Existing floor to slab height on the site shall vary from 3.0mtrs. to 3.5 mtr. Ceiling shall be hung from the existing slab through hanger's. Rate quoted in the tender shall be applicable for all floor levels / all floor height including scaffolding, etc complete.				
3	The rate of falseceiling items also includes 6 mm ply backing for supporting light fixtures in the false ceiling.				
4	The rate of Falseceiling items also includes making all necessary cut outs & frame work for electrical fixtures / air conditioning work coves etc.				
	SUB TOTAL				
II	PARTITIONS WORK				
2.1	Providing and fixing 12mm thick Toughened glass full height partition fixed to the floor / wall / false ceiling with patch fittings including all necessary hardware & accessories. Exposed edges of glass shall be machine cut & polished. Cost includes cutting and making good the floor, walls, ceiling etc. for patch fittings. All complete as per approval of the Engineer-in-charge / Architect.				
a)	FIXED GLAZING	Sq.m	16		
2.2	Providing and fixing in position full height partly glazed partition including 38mm thick door shutter with steam beech wood chowkhat of size 85mm x 65mm approx. made out of aluminum hollow section of 53mm x 38.10mm size 1.80 thick (Section No. 14089) of JINDAL / INDAL as internal frame structure placed horizontally & vertically in 600mm x 600mm center to center. Fixing 12mm thick MDF ply with 8mm wide groove on both sides finished with 1.0 mm thick laminate of approved shade with groove pattern as per Architect instructions.				
	10mm thick clear float toughend glass above 300mm / 900mm & up to 2100mm fixed with steam beech wood beading of finished size 37mm x 25mm all along the edge. All edge-to-edge glass joint to be machine cut and polished and sealed with clear acrylic self adhesive strip to seal the flanking paths. Joint shall be located strictly as shown in the drawing. Item includes Heavy-duty SS ball bearing butt hinges 100 x 5.5 mm (4 Nos. per shutter) with screws, mortise handle & lock, door closer, door stopper etc of approved make. All woodwork , grooves shall be finished with two or more coats of PU polish over one coat of sealer.				
a)	Both side finished with 1.0mm Thick laminate (Basic Rate of laminate Rs. 500/- Sq.m.) approved shade with groove pattern as per instructions of Architect / Engineer-in-charge.	Sq.m	7		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.3	Providing and fixing in position full height solid partition including 38mm thick door shutter with vision panel of size 300 x 300mm approx. and steam beech wood chowkhat of size 85mm x 65mm approx. made out of aluminum hollow section of 53mm x 38.10mm size 1.80 thick (Section No. 14089) of JINDAL / INDAL as internal frame structure placed horizontally & vertically in 600mm x 600mm center to center.				
	12mm thick MDF grade ply with 8mm wide groove shall be fixed on both sides finished as per following specifications. Item includes Heavy-duty SS ball bearing butt hinges 100 x 5.5 mm (4 Nos. per shutter) with screws, mortise handle & lock, door closer, door stopper etc of approved make. All woodwork & veneer , grooves shall be finished with two or more coats of PU polish over one coat of sealer. All complete as per instructions of Architect / Engineer-in-charge.				
a)	Both sides of partition finished with 3.5mm thick veneer of approved shade (Basic rate Rs. 1100/- Sq.m.) with groove pattern as per instructions of Architect / Engineer-in-charge.	Sq.m	31		
b)	Partition finished with 1.0 mm thick laminate (Basic Rate of laminate Rs. 500/- Sq.m.) of approved shade on both sides with groove pattern as per instructions of Architect / Engineer-in-charge.	Sq.m	170		
c)	Partition one side finished with 3.5mm thick veneer of approved shade (Basic Rate Rs. 1100/- Sq.m.) and one side with 1.0 mm thick laminate (Basic Rate of laminate Rs. 500/- Sq.m.)	Sq.m	8		
2.4	Providing and fixing solid / partly glazed low height partition 1200mm high with specification same as Item No. 2.3 with extra frame work supports at floor level wherever equired. Partition finished with 1.0 mm thick laminate (Premium Range) of approved shade on both sides with groove pattern as per instructions of Architect. Item includes steam beech wood edging of size 75mm x 37mm at the exposed edges of the partition. All exposed woodwork to be PU polished. All as per drawing and approval of the Architect / Engineer-in-charge.				
a)	STRAIGHT PARTITION, PARTLY GLAZED LP1 with 12mm thick clear float toughened glass cut to shape fixed with steam beech wood edging 37mm x 25mm or patch fittings.	Sq.m	7		
2.5	Providing and fixing wall / column panelling made out of aluminum hollow section of 50.80mm x 25.40mm size 2.03 thick (Section No. 14003) of JINDAL / INDAL as internal frame structure placed horizontally & vertically in 600mm x 600mm center to center. Fixing 12mm thick MDF ply on framwork with 8mm wide groove finished as follows. All woodwork & veneer shall be finished with two or more coats of PU polish over one coat of sealer. All complete as per instructions of Architect / Engineer-in-charge. The item also includes scaffolding for maximum height upto 4m from floor etc complete				
a)	Finished with 3.5mm thick veneer of (Basic rate Rs. 1100/- Sq.m.) approved shade with groove pattern as per instructions of Architect / Engineer-in-charge.	Sq.m	36		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
b)	Finished with 1.0mm Thick laminate (basic rate of laminate Rs. 500/ Sq.m.) approved shade with groove pattern as per instructions of Architect / Engineer-in-charge.	Sq.m	35		
c)	Finished with 15mm thick MDF designer panel (basic rate of MDF panel Rs. 1500/ Sq.m) of approved design finished with duco paint.	Sq.m	10		
d)	Finished with wooden perforated accustical panel	Sq.m	17		
e)	Finished with 4mm thick annealed GRIHA rated lacquered glass (of Saint-Gobain make or equivalent) coated with PU lacquer (minimum 60 micron thick or more) of color Vert Onyx and Aquablue as per approval of Engineer-in-charge / Architect .				
	Glass fixed with compatible neutral core silicon / lacquered glass compatible double sided tape (SGG PlaniFIX or equivalent). Silicon / tape should not react with coating on glass & render even color tone when viewed from glass side. Lacquered glass must be made industrially; must be opaque (if viewed against a support wall) must have panel to panel color consistency (measured by Minolta spectrophotometer CM5081 or eq.); highly durable (passes PERSOZ hardness test for min. 220 oscillations or more); humid resistant (conforms to BS EN 1036 1999 or eq); environmentally friendly (no lead, no arsenic, no copper, no formaldehyde); appropriate recycled content (12% post industrial / 6% post consumer or eq.); compressive strength (1000 MPa) & tensile strength (40 MPa), same as float glass. All complete as per approval of Engineer-in-charge / Architect.	Sq.m	20		
2.6	Providing and fixing hollow box of size 6" x 3" fixed at floor and ceiling level at a distance of 150mm approx. Box made of 18mm thick MDF board finished with 3.5mm thick veneer (Basic Rate Rs. 1100/- Sq.m) of approved shade. All wood work / veneer to be finished with PU polish as per instructions of Architect / Engineer-in-Charge. Item includes providing white pebbles of size 50mm-75mm approx in floor.	Sq.m	4		
2.7	Providing and fixing frosted / striped / designer glass film of 3M, Avery Dennison or equivalent on existing glass as per manufacturer's specification. All as per drawing, approval and instructions of the Architect / Engineer-in-charge.	Sq.m	8		
2.8	Providing and fixing Sun Control Film of 3M or approved make on existing glazing of U factor -1.11BTU, VLT-38% Shading Coefficient -.54. All complete as per drawing, approval and instructions of the Architect / Engineer-in-charge.	Sq.m	31		
2.9	Extra for providing and fixing 12mm thick MDF board over existing framework complete in all respect as per approval of architect / engineer-in-charge.	Sq.m	400		
2.10	Providing and fixing 1.0mm thick laminate of (Basic Rate of laminate Rs. 500/- Sq.m) approved shade over existing ply / MDF / Gypsum board etc. with groove pattern as per instructions of Architect / Engineer-in-charge.	Sq.m	100		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.11	Providing and fixing 3.5mm thick veneer of (Basic Rate of veneer Rs. 1100/- Sq.m.) approved shade over existing ply / MDF etc. with groove pattern. Item includes PU polish as per instructions of Architect / Engineer-in-charge.	Sq.m	175		
2.12	Providing and fixing 12mm thick solid acrylic top (Basic Rate of solid acrylic surface Rs. 7000/- Sq.m) of approved shade with pattern as per instructions of Architect / Engineer-in-charge.				
a)	Solid acrylic top with CNC cutting design.	Sq.m	5		
b)	Solid acrylic top without CNC cutting design.	Sq.m	5		
2.13	Providing and fixing in partition and paneling soft board in panels of variable sizes consisting of 12mm thick soft board including fixing approved fabric of range Rs. 175/- Mtr. (minimum) with Steam beach wood beading of section up to 19 x 12mm around, with all accessories, eye hooks for hanging wherever required finished with 2 coats sealer, 2 coats of melamine finish etc. All as per drawing, approval and instructions of the Architect / employer	Sq.m	5		
2.14	Extra for providing and fixing hard wood frame work of size 50 x 50mm approx. complete in all respect as per approval of architect / engineer-in-charge.	Sq.m	100		
2.15	Providing and doing infil of Knauf Glass fiber thermal insulation, Accoustic slab ultimate 48 Kg/m ³ & 50mm thick with Ecos Technology complying with ASTM C 612, tYPE 1A OR 1B ; Insulation, Sound Sbsorption Coefficient 1.00 and R Value 1.61 m ² K/W in partition framework, wall panelling, ceiling etc. All as per drawing, approval and instructions of the Architect / Engineer-in-charge.	Sq.m	40		
	NOTE :- For Item No. 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 & 2.10 (including a to f as applicable)				
a)	Net area from finished floor up to false ceiling height including the area of door / door frames shall be measured for the purpose of payment.				
b)	For All Full height partitions (Toughned Glass, Solid, Partly Glazed) framework, ply and 50mm glass wool insulation shall be provided up to the bottom of slab. The item also includes scaffolding for maximum height upto 4m from floor etc complete				
c)	Center to center spacing may vary to make provision for fixing dado rail / to adjust the level of glass or for fixing dado counter / storage units or otherwise as per site requirement.				
d)	No extra payment shall be made for reduction in framework, opening as indicated in the drawing or as instructed by the Engineer-in-charge / Architect. Framework shall be rigidly secured to floor, walls and ceiling by dash fasteners etc. at maximum 600mm c/c.				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
e)	For full height solid / partly glazed partitions rate also includes providing and fixing steam beach chowkhat, doors with laminate / veneer as per the specification of the items including handles, locks, door closer, door stopper, Hinges / patch fittings, accessories etc of approved make				
f)	For all full height partitions (solid / partly glazed / toughend glass) rate also includes providing and doing infil of 50mm glass wool insulation(specification same as item no. 2.15 above.) in partition framework .				
	SUB TOTAL				
III	FLOORING WORK				
3.1	Providing and fixing Wooden flooring of AC-5 GRADE of approved make. (Basic rate Rs. 2100/- Sq.m) All complete including adaptable profile, corner beading, base foam and polythene for leveling etc. as per approval of Architect / Engineer-in-charge (Makes : GREEN PANEL / PERGO/ FIN FLOOR)	Sq.m	30		
3.2	Providing and laying full body ANTI SKID Vitrified tiles in flooring including 100mm high skirting of homogeneous composition of following sizes (thickness to be specified by the manufacturer) with water absorptions less than 0.08% and confirming to IS : 15622 of approved shade and pattern. Tile to be laid on 20 to 50mm thick cement mortar 1 : 4 (1 cement : 4 coarse sand) including 5mm spacer and Grouting the joints of flooring, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10kg of hardener and 0.20 kg of resin per kg) mix with pigment to match the shade of the tile, leveling of floor if required, covering it with plaster of paris to avoid damages & complete cleaning prior to handing over. All complete as per drawing, approval and instructions of the Engineer-in-charge / Architect. (Make : H R Johnson / Orient Bell / RAK / Kajaria)				
a)	Size 800mm x 800mm (Basic rate of tile is Rs. 850/- per Sq.m. after discount)	Sq.m	252		
b)	Size 600mm x 600mm (Basic rate of tile is Rs. 750/- per Sq.m. after discount)	Sq.m	36		
3.3	Providing and Laying screed layer of PCC of M15 (1:2:4) of Average 50 to 100 mm thick including IPS flooring on structural Slab to make the surface even & uniform etc. Complete in all respect as per approval of Architect / Engineer-in-charge.	Sq.m	20		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3.4	Providing and laying 18 -20 mm thick first quality Italian marble stone in uniform shade & design (Basic rate of stone Rs. 4300/- Sq.m.) with inserting design pattern as per drgs over 50mm to 100mm thick base of cement mortar 1 : 4 (1 Cement : 4 coarse Sand) laid and jointed with white cement slurry mixed with pigment to match the shade of the stone including grinding and polishing the stone to a high gloss in tin oxide polish with Tin oxide grinding stones of varying grade ranging from 0 to 5 Nos. and finally polishing and buffing with Oxide golex stone no. 6 including necessary cleaning of floors with detergent etc. All as per drawing, approval and instructions of the Architect / Engineer-in-charge	Sq.m	160		
3.5	Grinding polishing the existing granite stone flooring / Wall cladding to a high gloss in tin oxide polish with Tin oxide grinding stones of varying grade ranging from 0 to 5 Nos. and finally polishing and buffing with Oxide golex stone no.6 including filling necessary cleaning of floors with detergent etc. All as per drawing, approval and instructions of the Architect / Engineer-in-charge				
a)	Flooring	Sq.m	280		
	SUB TOTAL				
IV	DOORS & WINDOWS WORK				
4.1	Providing and fixing wood work in frames of size 150mm x 75mm approx. in doors, and other frames in moulded wood work as per design, bitumastic paint wherever required etc (Using best quality wood). Wood protected by PU polishing. Item includes hold fast lugs or dash fasteners of required dia and length wherever required. All complete as per approval and instructions of the Engineer in charge /Architect.				
a)	Steam Beech wood	Cu.m	1.15		
4.2	Providing and fixing in position flush door shutter as per following specifications:				
	32mm thick Phenol formaldehyde bonded and borer proof flush door shutter as per IS: 2202 (part I) solid block core type having exterior grade 8mm thick commercial ply, on both faces of shutter. Shutter finished in 1.0mm thick laminate on both sides (of approved shade). All edges of shutter sealed with steam beech wood edging slip of finished section 34mm x 6mm approx. on all sides. Wood protected with melamine polishing. Heavy-duty SS ball bearing butt hinges 102 x 76 x 3mm Ref. Hafele article No. 926.32.160 (4 Nos. per shutter) with screws. The item inclusive mortise handle & lock, door closer, door stopper. All complete as per approval and instructions of the Engineer incharge / Architect.				
a)	Finished one side with 3.5mm thick veneer (Basic Rate of veneer Rs. 1100/- Sq.m.)and one side with 1.0mm thick laminate(Basic Rate of veneer Rs. 500/- Sq.m.) (Premium Range) of approved shade with groove pattern as per instructions of Architect / Engineer-in-charge.	Sq.m	2		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
b)	Finished with 1.0 mm thick laminate (Premium Range) of approved shade on both sides with groove pattern as per instructions of Architect / Engineer-in-charge.	Sq.m	11		
4.3	Providing and fixing partly glazed door shutter 38mm thick approx. and sizes as per drawings having 12mm thick clear float glass as per design. Door of solid core of block board construction with well matched Ist class 8mm thick commercial ply, exterior grade with vertical grains or cross bands on both faces of shutters sealed with Steam beech wood edging slip of finished section 37 x 19mm approx. on all sides and finished in 1.0mm thick laminate on both sides. Heavy-duty SS ball bearing butt hinges 102 x 76 x 3 mm Ref. Hafele article No. 926.32.160 (4 Nos. per shutter) with screws. Item includes door closer, mortise handle & locks, door stopper, melamine polishing. All complete as per approval of the Engineer-in-charge / Architect	Sq.m	25		
4.4	Providing and fixing Toughend glass door shutters of 12mm thickness in opening of glazed partitions with stainless steel patch fittings of approved make (DORMA / HAFELE or equivalent) including heavy duty double action floor-spring with steel cover plate of approved make, pull handle on both sides of single door, locking arrangement of Haffale / Dorma or better quality as approved by Engineer-in-charge.				
	Door shall have 1 1/4 " dia. 2'-0" long SS brushed finish handle on both sides. Cost includes cutting and making good the floor, walls, ceiling etc. for fixing floor spring and patch fittings. All complete as per approval of the Engineer-in-charge / Architect .	Sq.m	7		
4.5	Providing and fixing of tested fully glazed steel fire rated door of size 1100 x 2250mm approx. of SAINT GOBAIN or Equivalent with 120 minutes of integrity and radiation control (partial insulation) (EW=120) fabricated with 1.6 mm thick galvanized steel sheet. The door frames shall be manufactured from 1.6 mm galvanized steel sheet pressed to form a profile of 50mm x 60mm on the top and 35mm x 60mm on the vertical sides.				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	The door shutters shall have bottom rail of 110mm x 60mm and 60mm x 60mm on the rest sides with an additional rebate of 20mm to hold the glass. The overall door opening is 1100mm x 2250mm (W x H). The glass shall be Contraflam Lite 14mm clear 120 min fire rated (EW 120), Non-Wired Toughened Interlayered glass with a light transmission of 87% and a sound reduction of 37 db. The glass shall be compliant to class 1B1 category of Impact Resistance as per EN 12600. The glass shall be held in its place with the help of minimum 1.6mm GI beading and a special ceramic tape with cross section of 5 x 15mm as per the test evidence. The shutters shall be fixed to the frame using HAFELE/ Dorma SS Ball Bearing Hinges of size 100mm x 75mm and 3mm thickness or equivalent. Beading shall be attached using 4mm x 35mm SS screws at a distance of 250mm c/c (approx) henceforth. The door shall be fitted with Dorma Mortise Sash lock 952F or equivalent and door closer TS 68 of Dorma make or equivalent, Panic Bar double leaf panic exit devices, Panic trim etc. The inactive leaf shall be fixed to the frame using 1200mm long Dorma tower bolt no 9114306 or equivalent.	Each	2		
4.6	Providing and fixing UPVC windows of FENESTA make as per specifications with 12mm thick toughned glass for fixed portions. All complete including silicone, rubber gaskets, screws, cleats etc. erected at site and in position. Item includes scaffolding, shuttering etc. All complete as per approval and instructions of the Architect.	Sq.mtr	35		
	NOTE :- For Item No. 4.2 a & b), 4.3, 4.4, 4.5 & 4.6 Net area of door shutter from one side to be measured for the purpose of payment.				
	SUB TOTAL				
V	WALL FINISHING				
5.1	Providing plaster of paris punning 12mm to 15mm approx. thick (nominal) on walls, leveling and smooth finishing the surface including sand papering the old surface etc. The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for architectural surface. All complete as per directions and approval of the Architect / Engineer-in- charge.	Sq.m	475		
5.2	Providing and applying Textured surface coating on walls of approved shade & texture (Basic rate Rs. 1100/- per Sq.m) Oikos or equivalent. The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for architectural surface. All complete as per approval and instructions of the Architect / Engineer-in-charge.	Sq.m	90		
5.3	Providing and fixing wall paper on wall, gypsum board ceiling, partition or anywhere else as required with approved adhesive (basic rate of wall paper Rs. 1200/- Sq.m). All complete as per approval and instructions of the Architect / Engineer-in- charge.	Sq.m	25		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5.4	Providing and applying two or more coats of plastic emulsion paint (roller finish) of approved make and shade as per the manufacturer's specifications to give a smooth surface including priming coat etc. complete as specified and as directed by the Architect / Engineer-in-charge. The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for architectural surface.	Sq.m	250		
5.5	Providing & applying two or more coats of melamine polish of approved shade over one coat of sealer complete including sand papering etc. All complete as per approval and instructions of the Architect / Engineer-in-charge.	Sq.m	300		
5.6	Providing and applying two or more coats of synthetic enamel paint of approved shade on surfaces of approved shade of Asian paints / ICI make, as per the manufacturer's specifications to give a smooth surface including scrapping and removing existing paint and preparing the surface with putty etc. and providing priming coat etc. complete in all respect as specified and as directed by the Architect / Engineer-in-charge. The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for architectural surface. All complete as per approval and instructions of the Architect / Engineer-in-charge.	Sq.m	100		
5.7	Providing and fixing 5.0 mm thick ceramic wall tiles (Basic rate of tile Rs. 750/- Sq.mtr) of approved colour, pattern and shade on 12 mm thick cement plaster 1 : 3 (1 cement : 3 coarse sand) and jointed with pigment to match the shade of the tile. All complete as per approval and instructions of the Engineer incharge / Architect.	Sq.m	145		
5.8	Providing and fixing in position 18-20mm thick pre-polished Granite stone (basic rate of stone Rs. 2250/- Sq. mtr.) slab as wall cladding on a rich base of cement mortar 1 : 3. (1 cement : 3 coarse sand). Fixing with cleats wherever required. All exposed edges beveled. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.	Sq.m	50		
	SUB TOTAL				
VI	MISCELLANEOUS WORKS				
6.1	Providing and fixing wooden palmet of size 150mm x 250mm approx. made of 18mm thick MDF board finished with 1.0mm thick laminate of approved shade. All exposed edges shall be sealed with stem beech wood lipping. All surfaces without lamination shall be finished with two or more coats of spirit polish and woodwork to be finished with PU polish. All complete as per approval and instructions of Engineer-in-Charge / Architect	R.mtr	50		
6.2	Providing, fixing and installation of roller blinds (Basic rate Rs. 2600/- per Sq.m) of Vista make or equivalent in approved finish of required shade complete in all respect. All complete as per approval and instructions of Engineer-in-Charge / Architect	Sq.m	160		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6.3	Providing and fixing motor for roller blinds in classroom as per manufacturers specification of make DORMA or equivalent.	Each	10		
6.4	Providing and fixing Wooden blinds (Basic rate Rs. 4200/- per Sq.m) of approved shade and make (Vista Or Equivalent). All complete as per manufacturers specification and approval of Architect / Engineer- in - charge.	Sq.m	7		
6.5	Providing and placing in position planter box of size 450mm wide & 450mm high made of 18mm thick MDF board. Inside finished with 1.0mm thick laminate and outside finished with 3.5mm thick veneer. Exposed edges of board finished with 6mm thick steam bech wood lipping. All wood work and veneer shall be finished with two or more coats of PU polish over one coat of sealer. All complete as per approval of Architect / Employer.	Each	10		
6.6	Supply and Installation of Carlf / Assa Abloy / Ingersoll-rand make SS door Sign panel in 316 Grade of size 58 x 298 x 4mm. The panel is brush finish unidirectional grain with artwork screen printed using imported UV resistant ink passed through imported screen mesh of selected mesh size to give sharp edges to artwork and uniform film thickness and finally UV cured to give the artwork resistance to UV rays and weatherproof properties. The panel is fixed using prefixed double sided tape of 3M make to give a strong bond between panel and backing surface. All complete as per manufacturer's specification & to the entire satisfaction of Engineer-in-charge.	Nos.	20		
6.7	Providing and placing aluminium dust buster mat for entrance door of 19mm thickness of Euronics / 3 M or equivalent make all complete as per the the directions of the Architect / Engineer-in-charge.	Sq.m	2		
6.8	Providing and fixing console unit of size 1200mm x 400mm made of 18mm thick MDF board partly finished with 6mm thick solid acrylic top of approved shade and partly with 3.5mm thick veneer (basic Rate of Veneer Rs. 1100/- Sq.mtr). All wood work / veneer to be finished with PU polish. All complete as per approval and instructions of the Architect / Employer.	Nos.	1		
6.9	Providing and fixing notice board size 900mm x 1200mm approx. or as required / directed with open able shutter on the front. Made out of 19mm thick MDF board finished with 3.5mm thick veneer ply including concealed hinges, locking arrangement, glass of (5.5mm thick) with rear panel of SITATEX board, covered with fabric of approved shade. (Basic rate Rs. 150/- per mtr, 48" width) fixed to back ply 6mm thick. All complete including PU polish in stain of required shade. All complete as per design and approval of the Architect / employer.	Nos.	2		
6.10	Providing and fixing mobile charger stations with 5 charging ports complete as per design and approval .	Nos.	4		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6.11	Dismantling / Demolishing removing the following to accommodate the proposed new layout and disposal of unserviceable material to a place permitted by the municipal authorities including making good any damages complete. No unserviceable dismantled material will be allowed to be accumulated at site. Decision of the Architect / Engineer-in-charge as to what constitute unserviceable material will be final and binding.				
	The amount should include cost for carrying out any other unforeseen items required for the proper execution of the work. All complete as per approval and instructions of the Architect / Engineer-in-charge.				
i)	RCC WORK	Sq.m	50		
ii)	Brick work	Sq.m	50		
iii)	Core Cutting upto the size 1 sqm.in RCC slab and making good all openings for other allied works as directed.	Nos.	5		
iv)	Dismantling and removing existing False ceiling, Flooring, terrace tiling, wooden partitions, panelling, furniture, light fixtures, fittings, wiring, switches / sockets, MCB's, DATA, UPS, telephone wiring etc.	LS	1		
	SUB TOTAL				
VII	TOILET PARTITION, FIXTURES AND ACCESSORIES				
7.1	Providing and fixing Greenlam / Merino or equivalent Sturdo Classique versatile Toilet Cubicle (including 600mm door) made of heat, bacteria, water, chemical, scratch, impact and anti bacterial resistant 12mm thick solid compact laminate panels (tested by Shriram Test House) of Suede finish includes doors, pilasters & intermediate panels finished with approved texture/shade as per the detail drawings & as per IS 2046 (Indian Standard) and as per fire retardant BS-476/97 standard. The product shall have Green Guard Certificate. Item includes providing and fixing in position necessary hardware made out of Stainless steel (Grade 304) & Aluminium powder coated top rail as per manufacturer's specifications & Architects instructions like (1) SS Door Knob, (2) SS Gravity hinges, (3) SS Thumb turn lockset indicators, (4) Aluminium Powder Coated Top Rail, (5) SS Coat Hooks, (6) SS U-Channels, (7) SS Adjustable Foot, (8) Noise Deafening Tape etc. (9) Screws & wall Plugs.				
	The top fitting shall consist of Aluminium Powder Coated top rail which will get fixed with Mid & End pilasters. All other hardware & screws shall be of stainless steel in 304 Grade with satin finish. Top rail is extruded Aluminium shall be powder coated or anodized (Grade 6063 Micro Aluminium). All pilasters are supported by stainless steel adjustable footing with non corrosive steel inserts.				
a	Toilet Cubicle with standard dimension of 1955mm Height x 1000mm Width x 1550mm Depth, which includes 600mm door size width).	Each	4		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
b	Greenlam / Merino or equivalent Sturdo Privy Divider Panle of 450mm x 1050mm for URINALS	Each	4		
7.2	Providing and fixing 6mm thick copper back finish looking mirror with beveled edges of over 6mm thick BWR ply fixed with SS screws with cap. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.	Sq.m	8		
7.3	Providing and making counter 600mm wide, 550mm high and length as per site. All (Top, Sides & Front panel) made of 18mm thick MDF board finished with 12mm thick Solid acrylic / corien on all exposed egdes of approved shade includeing front panel, Top and sides. Internal surfaces of the board shall be finished with 2 or more coats of spirit polish. All complete as per drawing, approval and instructions of the Engineer incharge / Architect. Note:- Top shall be measured for the purpose of payment.	Sq.m	4		
7.4	Providing & fixing salem stainless steel A ISI 304 (18/8) kitchen sink of NIRALI make or equivalent on RCC slab as per IS 13893 and stainless steel plug 40mm, cutting & making good the walls / RCC slab wherever required (a) 510 x 1115 bowl depth 205mm (Single bowl) without drain board.	Each	2		
7.5	Providing and fixing first quality type glazed vitreous china wall hung toilet with quite close toilet seat and cover, 'P' or 'S' trap, plastic outlet connector				
	Wall mounted WC Jaquar make Cat. No. ARS-WHT-39951 with soft close cover, slim concealed cistern JCS--WHT-2400 S & face plate JCS-CHR-852415 etc. cuttings holes in walls, floors and making good. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.	Each	6		
7.6	Providing and fixing first quality vitreous china urinal (REF. Jaquar make URS-WHT-0701 or Equivalent) with copper siphon, GI concealed flush pipe, CP spreaders with union, CP waste pipe 40mm dia CP brass bottle trap and all other necessary fitting complete in all respect including cutting and making good the floor & walls wherever required. All complete as per drawing, approval and instructions of the Architect.	Each	6		
7.7	Providing fixing and making operational first quality vitreous china Wash Basin of semi delux colour (Ref. Jaquar make Lyric Cat. No. LYS-WHT-38931 or equivalent) resting on RCC slab / Vanity, 32mm dia CP brass waste with 40mm dia CP brass bottle trap (Jaguar model ALD-CHR-769 including 1 1/4" waste				
	coupling Jaguar model ALD-CHR-709 union) etc. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.	Each	6		
7.8	Providing fixing and making operational the following fittings, complete including flex pipe etc necessary accessories and fittings. All complete as per drawing, approval and instructions of the Engineer incharge/Architect.				
a)	Sensor tap for Wash Basin (Ref Euronics ET-06 L) OR EQUIVALENT	Each	6		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
b)	Angle Valve (Ref. Jaquar make Lyric Cat. No. LYR-38053)	Each	30		
c)	Angle valve + Health Faucet with 8mm dia. 1mtr. Long flexible tube & wall hook with N.R.V. (Ref. Jaquar ALD-577)	Each	6		
d)	Overhead shower (Ref. Jaquar make Cat. No. OHS - 85859)	Each	5		
e)	4 Way divertor (Ref. Jaquar make Cat. No. ARI-39421)	Each	5		
f)	Single lever high flow shower mixer concealed body (Ref. Jaquar make Cat. No. ALD-279)	Each	5		
7.9	Providing and fixing the following complete as per approval of the Engineer incharge/Architect.				
i	Tissue Dispenser Ref. EURONICS Code. No. EP-02 S OR EQUIVALENT	Each	10		
ii	Robe Hooks Ref. EURONICS Code. No .EC-02 OR EQUIVALENT	Each	10		
iii	Soap dispenser REF. EURONICS Code. No . ES-06 A OR EQUIVALENT	Each	10		
iv	Toilet Paper Holder (REF. EURONICS Code. No .EPH 04 F OR EQUIVALENT)	Each	10		
v	Stainless steel Hand dryer REF. EURONICS Code No. EH 21NW OR EQUIVALENT	Each	5		
vi	Aerosol perfume dispenser with digital programming fixed to wooden cleats with SS screws complete (REF. EURONICS Code. No EA 03).	Each	5		
vii	Supply & fixing of Stainless steel grab rail 600mm long 25mm dia. for Physically challenged / disabled toilet (REF. EURONICS Code. No . EGR01(600)).	Each	4		
	SUB TOTAL				
VIII	CIVIL WORK				
8.1	115mm thick brick work in cement mortar 1 : 4 (1 cement : 4 coarse sand) including scaffolding, cutting, plumbing, leveling, curing etc. with bricks of class designation 75 sub class 'A'. Including providing hoop iron 2No's 6mm diameter MS bars at every fourth course embedded in the cement mortar. All complete as per drawing, approval and instructions of the Architect.	Sq.m	42		
8.2	Providing and applying 12mm thick cement plaster of 1:4 (1 cement : 4 sand). All complete as per drawing, approval and instructions of the Architect / employer.	Sq.m	150		
8.3	Providing and fixing following nominal internal dia C.I. pipe of approved make 5mm thick with necessary bends, tees, offsets, junction etc. fixed with clamps, including painting and providing lead caulked joints etc.. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.				
a)	100mm dia	R.Mtr	50		
b)	75mmdia	R.Mtr	80		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8.4	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.0m spacing. This includes jointing of pipes & fittings, with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. as per instruction of engineer in charge.				
a)	15mm dia CPVC Pipe	R.Mtr	80		
b)	20mm dia CPVC Pipe	R.Mtr	50		
c)	32mm dia CPVC Pipe	R.Mtr	75		
8.5	Providing and fixing sand cast iron Floor trap of self cleansing design screwed down to hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors, lead jointing with C.I. pipe, providing 75mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate of 20mm nominal thickness) around the trap where required. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.				
a)	100 x 75 mm outlet	Each	10		
b)	100 x 100 mm outlet	Each	6		
c)	Providing and fixing stainless steel grating of size 75 mm dia. and of approved make and quality grade 18/8-304 on top of the floor trap. The rate includes the cost of all ancillary works and material required for the work. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.	Each	15		
8.6	Providing and laying 100 mm thick PCC 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20mm nominal thickness) to make a uniform base. All complete as per drawing, approval and instructions of the Architect / employer. (For Toilet Floor)	Sq.m	40		
8.7	Providing and fixing sand cast iron 'P' trap of self cleansing design screwed down to hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors, lead jointing with C.I. pipes, providing 75mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate of 20mm nominal thickness) around the trap where required. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.				
a)	'P' Trap (100 x 100 mm outlet)	Each	6		
8.8	Providing and doing Waterproofing treatment for sunken areas with Two Component Cementitious Acrylic Waterproofing Coating based waterproofing of Sika (Sika Top Seal 107) including preparation of surface, filling of foam concrete etc. complete in all respect as per instruction of Engineer-in-charge / Architect.				
i	Clean the surface to ensure that it is free of dirt, dust, laitance, etc.				
ii	Sealing of all Floor, Wall joints and cracks with polymer modified putty. Sealing all pipe spouts with PMC mortar.				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
iii	Providing and applying one coat of acrylic polymer mixed with cement as a primer coat followed by two coats of Component Cementitious Acrylic Waterproofing Coating (1.5 mm thick) on entire surface. The coating shall be extended up to a height of 300mm from finished floor level.				
iv	Providing and Laying 15mm thick Protection plaster admixed with waterproofing compound on the entire waterproofed area.				
v	The treated area shall be water tested for a period of 48 hrs.				
vi	Providing, filling & compaction of foam concrete including sand filling in the gap in the sunken or filling portion as per site in charge instruction complete upto all height and level including all lead and lift as per instruction of engineer in charge.	Sq.m	40		
	SUB TOTAL				
B	FURNITURE WORK				
	TABLES / WORKSTATION				
1.1	Providing, Supplying and fixing desk based nineart Workstations system including partition with provision to carry wire with Access Flap Provision in Each Workstation on Top. The size of the workstation for each individual user shall be as specified below. (Make : BP Ergo/ Featherlite) with 5 Year Warranty.				
	Frame is 50 mm thick and made of Aluminium Extrusions of 1.2 mm to 1.5mm thickness. The System is complete hollow system with space for wire reticulation . All the frames will be duly powder coated . All the frames are fastened together by means of M6 NUTS & BOLTS . All the frames are fitted with M10 leveling bolts.board.Raceway :-The raceway cover are sliding type and are integrally fitting inside frame and are made out of 0.8mm - 1mm thick CRCA steel & powder coated. The electrical raceway can be provided below worktop or above worktop.The partition has two integrated raceway provided one at skirting level and another at the work surface level thus ensuring separation of power and networking cables. The free space available within raceway accommodates power, data and communication cables. The cable can be taken into the Frame from the floor from the bottom. Tiles: Fabric Tile: Constructed out of 5mm thick Medium Density Fiber Board (MDF) and covered with Fabric of choice.				
	Laminate Tile: Made out of 5mm - 8mm thick Pre-laminated Medium Density Fiber Board (MDF) . Bottom Row of Steel Tile: Constructed out of 0.8mm CRCA sheet and finished in epoxy powder coating. Can be given with plain / perforations / embossed finishes. Magnetic tile: Constructed out of 0.8mm Galvanized sheet and covered with fabric of choice.				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Worktop shall be made of 25 mm thick prelaminated MDF board of approved shade. All Worktops to have Metal Insets for fixing screws. Specially designed powder coated M.S. brackets having 2mm thickness fixed to the partition frame support the tabletops. All the edge of worksurface shall be provided with machine pressed 1.2-2 mm thick Polyvinyl Chloride (PVC) lipping glued with hotmelt glue. The worksurface are mounted on the worksurface brackets of 2-2.5 mm thick CRCA Steel. Corner bracket used to support the worksurface at the corner junction of the frame. Gable ends made of 25mm thick prelaminated MDF board will be attached to the upright using Gable end Bar & brackets. All the brackets are powder coated to minimum thickness of 45 microns.				
	Providing and Supplying Keyboard pull out tray made of 0.7 mm thick CRCA steel duly powder coated, of minimum thickness 45micron, with metallic roller slides(Telscopic channels) on both sides and shall be fixed to the bottom of worktop surface with the help of screws.				
	Providing, Supplying and fixing CPU HOLDER made of 1.2 mm thick HR/CRCA steel, duly powder coated of thickness not less than 45 micron of approved shade,with 35mm dia casters to provide mobility.The width of CPU should be adjustable.				
a)	Seating 6 persons (Each Size-1000mm x 525mm x 730mmH) I Shape Face To Face	Nos.	6		
b)	Seating 4 persons (Each Size-1000mm x 525mm x 730mmH) I Shape Face To Face	Nos.	2		
c)	Seating 6 persons (Each Size-1000mm x 525mm x 730mmH) straight	Nos.	2		
d)	Seating 5 persons (Each Size-1000mm x 525mm x 730mmH) straight	Nos.	2		
d)	Seating 2 persons (Each Size-1000mm x 525mm x 730mmH) straight	Nos.	1		
1.2	Manufacturing and installation of workstations with followings specification:-				
	Working top CUT TO SHAPE made out of 25 mm thick pre laminated MDF board (both sides laminated). Top side laminated in approved colour and counter side in white colour using exterior grade MDF board. Front edge of counter/ work top shall be post formed and all other edges or sealed in a combination of PVC 'T' moulding edge, PVC flat edge banding of 2mm thick or as per design intent. Top fixed to the solid partition / wall with wooden runner of size 19 x 19mm and MS brackets and Prelam Gable ends .				
	All non laminate surface to be enamel painted. Item includes grommet for every 8 sq.ft area, foot rest for each seat. All complete as per drg., approval and instructions of the Architect / employer.				
a)	600mm WIDE worktop (varying length as per design, minimum length 1200mm)	Sq.m	8		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
b)	450mm WIDE worktop (varying length as per design, minimum length 1200mm)	Sq.m	1.5		
1.3	Providing, Supplying and fixing Frosted Glass Separator Panel made of 4mm thick 470mm High toughened Glass with Fixing accessories between Officer Workstations.	Each	70		
1.4	Providing and placing classroom tables of size 1200x 525mm. Table top , front bracing panel made of 25mm thick MDF Board finished with 12mm thick corian top and 1.0mm thick laminate of approved shade. All internal sides shall be finished with 0.8mm thick laminate. All complete as per approval of engineer -in charge / Architect.	Each	36		
1.5	Providing & fixing Podium for classrooms & Auditorium as per Manufacturers specification.	Each	3		
1.6	ACCESSORIES-				
a)	Providing, Supplying and placing Three Drawer Pedestal (2 Box + 1 File) with levelers made of prelaminate MDF board . The pedestal / drawers unit shall have outer Dimensions of 725mm Height x 400 mm Width x 575 mm Depth. The drawer unit shall consist of one pencil tray, 2 drawers and 1 filing box. The pedestals shall have central locking mechanism with flush fitted PVC handles. The drawers and filing box shall be mounted on telescopic ball bearing slides.	Nos.	8		
b)	Providing, Supplying and fixing Keyboard pull out tray made of 0.7 mm thick CRCA steel duly powder coated, of minimum thickness 45micron, with metallic roller slides(Telscopic channels) on both sides and shall be fixed to the bottom of worktop surface with the help of screws.	Nos.	8		
c)	Providing, Supplying and fixing CPU HOLDER made of 1.2 mm thick HR / CRCA steel, duly powder coated of thickness not less than 45 micron of approved shade,with 35mm dia casters to provide mobility.The width of CPU should be adjustable.	Nos.	8		
1.7	Providing and placing Table of following sizes & specification:- Top made of 18mm thick MDF board over hard wood frame work finished with 1.0mm thick laminate of approved shade. All exposed edges sealed with steam beech wood moulding of size 65mm x 37mm. Leg supports and bracing panel made of 18mm thick MDF board (cut to shape)as per design finished with 1.0mm thick laminate of approved shade. All exposed edges of board shall be finished with steam beech wood edging. All wood work to be finished with two or more coats of PU polish over sealer. All complete as per approval of architect/ employer.				
a)	LIBRARY Table size 1200 x 600 x 750mm	Nos.	2		
b)	Faculty room / Lunch room table 1500x 700x 750 mm	Nos.	5		
c)	Lunch room tables 1200 x 700 x 750mm	Nos.	2		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.80	Providing, Supplying and placing Meeting Table in Circular Shape made of 25mm thick prelaminated MDF board supported by CRCA Steel powder coated understructure comprise of Legs. System shall be with wire management facilities. Size-1050mm (Dia) x 730mm H. (4 Seater)	Each	1		
	SUB TOTAL				
II	STORAGE				
2.1	Providing and fixing 400mm deep low ht. Storage with following specification :- Outer framework i.e. top, sides, back, shutters, shelving of 18mm thick MDF board.				
	All surfaces exposed to view to be finished as follows.. All edges of the MDF board shall have Steam beech wood edging of 6mm x 18mm. All shutters shall be provided with lock (1 no. for two shutters), auto closing hydraulic hinges (2 nos. per shutter), 150mm long S.S. brush finish handles, 1 no. Intermediate shelf shall rest on studs for adjustable shelving etc. All veneer & woodwork protected with PU polish. Entire internal surfaces left without lamination to be finished with 0.8mm thick laminate. All complete as per drawing, approval and instructions of the Architect / employer				
a	Finished with 3.5mm thick veneer (Basic Rate Rs. 1100/- Sq.m.)	Sq.m	4		
b	Finished with 1.0mm thick laminate premium range (Basic Rate Rs.500/- Sq.m.) of approved shade and pattern	Sq.m	11		
2.2	Providing and fixing 400mm deep full ht. Storage with following specification :- Outer framework i.e. top, sides, back, shutters, shelving of 18mm thick MDF board.				
	All exposed surfaces finished with 1.0mm thick laminate. All edges of board shall be sealed with steam beech wood lipping of 6m x 18mm. Shutters shall be provided with lock (1 no. for two shutters) , auto closing Hydraulic hinges (4 nos. per shutter), 150mm long S.S. brush finish handles, S.S. studs for adjustable shelving etc. Woodwork protected with PU polish.				
	Entire internal surfaces to be finished with 0.8mm thick laminate. All complete as per drawing, approval and instructions of the Architect / Engineer-in-charge.				
a)	With 4nos. intermediate shelves.	Sq.m	15		
2.3	Providing and fixing overhaed Storage with following specification: - Outer framework i.e. top, sides, back ,shutters, shelving of 18mm thick MDF board. All surfaces exposed to view to be finished with 1.0mm thick lamiante. All edges of the MDF board shall have Steam beech wood edging of 6mm x 19mm. All shutters shall be provided with lock (1 no. for two shutters), auto closing hydraulic hinges (2 nos. per shutter), 150mm long S.S. brush finish handles, 1 no. Intermediate shelf shall rest on studs for adjustable shelving etc. Woodwork protected with melamine polish. Entire internal surfaces to be finished with 0.8mm thick laminate. All complete as per drawing, approval and instructions of the Architect /				
a	300mm deep overhaed Storage	Sq.m	5		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.4	Providing and fixing open shelves having top, sides, back, skirting, shelves of 18mm thickness exterior grade MDF board with 1.0mm thick laminated of approved shade. All edges of board shall be sealed with steam beech wood lipping of 6m x 18mm. All wood work to be melamine ploish . All as per approval and instructions of the Architect / Engineer-in-charge.	Sq.m	5		
2.5	Providing and fixing Pantry Counter storage with top finished with 18-20 mm thick prepolished granite of apprved shade(basic rate Rs. 2500/-Sq.m.) including making double edging , cutout for sink, edge polishing etc. complete				
	Outer framework, internal partition, shutters made of 18mm waterproof MDF board. All internal surfaces finished with 0.8mm thick laminate and exposed surfaces finished with high gloss laminate of approved shade. All edges of the board shall have Steam beech wood edging of 6mm x 19mm . All shutters shall be provided with auto closing hydraulic hinges (2 nos. per shutter), 150/300mm long S.S. brush finish handles, All as per approval and instructions of the Architect/ employer.	Sq.m	5		
	Note:-For Item no. 2.1,2.2,2.3,2.4,2.5 & 2.6 Front area shall be measured for the purpose of payment.				
	SUB TOTAL				
H	1ST, 2ND & 3RD FLOOR :-				
I	FALSE CEILING WORKS				
1.1	Providing and fixing Readymade access panel door / Trap door of following sizes with specification same as item no. 1.5 schedule 'A'				
a)	600 x 1200mm	Each	3		
b)	900 x 1800mm	Each	6		
1.2	Repairing existing false ceilng with specification same as item no. 1.1 of schedule 'A'	Sq.m	50		
	SUB TOTAL				
II	PARTITION WORK				
2.10	Providing and fixing 3.5mm thick veneer of (basic rate of veneer Rs. 1100/ Sq.m.) approved shade with specification same as item no. 2.11 schedule 'A'	Sq.m	225		
2.2	Extra for providing and fixing hard wood frame work of size 50x50mm approx. with specification same as item no. 2.13 schedule 'A'	Sq.m	100		
	SUB TOTAL				
III	FLOORING WORK				
3.1	Grinding polishing the existing granite stone flooring / Wall cladding with specification same as item no. 3.5 schedule 'A'				
a)	Flooring	Sq.m	890		
	SUB TOTAL				
IV	DOORS & WINDOWS WORK				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4.1	Providing and fixing of tested fully glazed steel fire rated door with specification same as item no. 4.5 schedule 'A'	Each	4		
4.2	Repairing and replacing of existing doors. Item includes polishing the existing doors, providing and fixing wood beading / edging , necessary hardware, rubber stoppers with screws, handle, lock , hinges etc. wherever required. All wood and veneer work to be protected with melamine polishing . All as per approval of the Architect / employer.	Sq.mtr	160		
	SUB TOTAL				
V	WALL FINISHING				
5.1	Providing plaster of paris punning 12mm to 15mm approx. thick (nominal) on walls with specification same as item no. 5.1 schedule 'A'	Sq.m	325		
5.2	Providing and applying textured surface coating on walls of approved shade & texture with specification same as item no. 5.2 schedule 'A'	Sq.m	335		
5.3	Providing and applying two or more coats of plastic emulsion paint (roller finish) of approved make with specification same as item no. 5.4 schedule 'A'	Sq.m	600		
5.4	Providing & aplying two or more coats of melamine polish of approved shade with specification same as item no. 5.5 schedule 'A'	Sq.m	900		
5.6	Providing and applying two or more coats of synthetic enamel paint of approved shadewith specification same as item no. 5.6 schedule 'A'	Sq.m	180		
	SUB TOTAL				
VI	STORAGE				
6.1	Repairing existing wardrobs as per site conditios. Providing and fixing shutters made of 18mm waterproof MDF board finished with 1.0mm thick laminate and looking mirror on external surfaces and 0.8mm thick laminate on internal side. All edges of the board shall have Steam beech wood edging of 6mm x 19mm . All shutters shall be provided with lock , auto closing hydraulic hinges (4 nos. per shutter), 300mm / 400mm long S.S. brush finish handles. Item includes repairing existing wardrob, proving and fixing hanging rod of 25mm dia. All surfaces without lamination shall be finished with two or more coats of melamine polish. All as per approval and instructions of the Architect/ employer.	Sq.m	95		
	SUB TOTAL				
VII	ELECTRICAL WORK FOR GUEST ROOMS :-				
7.1	Re-work include checking & commissioning of Guest Room Wiring/ switch / sockets(material in client scope)	Nos.	36		
7.2	Supply, installation and commissioning of following items including all accessories White / Colour complete as required.				
	Key Card Switch	Nos	10		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	DND/ Make my room/ Bell Push set / indicator	Nos	36		
	Supply, Fixing & testing of modular type switches and receptacles with GI boxes complete as required. (Switch / sockets)				
	1 M plate	Nos	108		
	2 M plate	Nos	186		
	3 M plate	Nos	72		
	4 M plate	Nos	72		
	6 M plate	Nos	72		
	8 M plate	Nos	72		
	6 Amp one way switch.	Nos	576		
	6 Amp two way switch	Nos	72		
	10 amp single phase and neutral universal switch socket outlet	Nos	375		
	5 pin 240 volt 6 amp single phase and neutral switch socket outlet	Nos	216		
	Shaver Socket 16 Amp universal	Nos	36		
	16A one way switch	Nos	216		
	16/6A 6 Pin socket	Nos	216		
	Cord Outlet	Nos	36		
	Blank plate (blanker)	Nos	160		
	Ceiling Rose	Nos	36		
	Call Bell 2M	Nos	36		
	RJ-45 DATA	Nos	36		
	RJ-11 TELEPHONE	Nos	36		
	RG-59 TV	Nos	36		
	Supplying, installation with hanging support , testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge . (all LED Light Fixures should be covered with minimum 3 Years onsite replacement warranty)				
7.3	LED downlighter recess mounted, 15 watt, 6000 k colour temp.	Nos.	355		
7.4	Bracket lights / Mirror light	Nos.	108		
7.5	supplying & fixing call bell buzzer with indicator & reset facility operating on 230 volts	Each	36		
7.6	Supply and fixing LED Strip lights fixtures of 14watt per Mtr. of approved make.	R.mtr	690		
	SUB TOTAL				
	NOTE:-				
	Rates quoted for all sub heads mentioned above should be inclusive of getting building plan approval and completion certificate from concerned authority/ department (if required) . No extra payment shall be made for this job.				

BILL OF QUANTITY FOR ELECTRICAL, UPS, DATA / VOICE, CCTV, ACCESS CONTROL, FIRE FIGHTING WORK					
S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
C	SCHEDULE-'C' (ELECTRICAL WORK)				
	NOTES :				
	These preambles apply to all the sections of schedule of quantities and tendered rates shall take into account all these provisions in other parts of the tendered documents.				
1.	All wiring shall be ROHS compliant.				
2	The quantities in this schedule are provisional. The Contractor will be paid for the actual quantity of work executed at site at the rates quoted in his tender. The Owner reserves the right to increase or decrease any of the quantities or to totally omit any item of work and any claims by the Contractor in these accounts will not be entertained.				
3	All the items of work given in this schedule of quantities shall be executed strictly in accordance with the Indian Electricity Act. The Indian Electricity Rules and Requirements of the Electric Supply Authority read in conjunction with the relevant drawings, specifications and the appropriate Indian Standards.				
4	All measurements shall be taken in accordance with the Indian Standard Electrical Installation in buildings method of measurement of IS : 5908 unless otherwise specified.				
5	The Contractor shall visit the site and shall satisfy himself as to conditions under which the work is to be performed. No extra claim on consequence of ignorance or on grounds of insufficient description will be allowed at a later date.				
6	No alteration whatsoever is to be made to the text or quantities of this schedule of quantities unless alteration is authorised in writing by the Architect. Any such alterations, notes or additions shall, unless authorised in writing be disregarded when tender documents are considered.				
7	In the event of error occurring to the amount column of the schedule, as a result of wrong extension unit rate and quantity, the unit rate quoted by the tenderer shall be regarded as firm and the extension shall be amended on the basis of the rates.				
8	All error in totalling in the amount column and in carrying forward totals shall be corrected.				
9	Any error in description or in quantity or omission of items from the contract schedule shall not vitiate this contract but shall be corrected and deemed to be a variation required by the Owner.				
I	POINT WIRING AND CONDUITING WORKS :-				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1	Wiring for light point / fan point/exhaust fan/ light socket switch with 3 x 1.5 sqmm copper conductor FRLS LEAD FREE WIRE WITH RoHS Compliance insulated 1100v grade multi strand wires (P+N+E) in cancelled / surface using 20/25/32 M.S conduit 16 SWG thick with all bend, tees, saddle mounting box, cover plate ceiling rose, etc. wherever required etc. & cromium plate brass screw / rawl plug etc.				
	The circuit wiring start from DB to point control box / switch box using 3 x 2.5 sqmm copper conductor FRLS LEAD FREE WIRE WITH RoHS Compliance insulated 1100V grade multistrand wire (P+N+E) identification ferrules at both end in MS conduit 16 swg thick complete in all respect. The conduit must be fixed with MS saddle at every 80cm on surface and conduit to be laid in ceiling with proper clamps / wall floor filling the chase with cement mortar and finish the same in original form / wooden partition above false ceiling chases filled with cement mortar as required at site Each circuit shall have separate earth wire. All switch socket must be for modular type with M.S. Boxes and plate etc. as required Note :- Each circuit shall have independent earth wire each point shall be earthed. Circuit wiring is to be includeed in point rate wiring. (PLEASE NOTE THAT Colour code - Red-Yellow-Blue wires for phases, Black wire for Neutral and Green wire for Earth must be used)				
1.1	Primary light controlled by one 6A modular one way switch.	Nos	75		
1.2	Secondary Light point looped from above mentioned Primary Light point	Nos	195		
1.3	One wall fan controlled by one 6A modular switch, but switch at switch board level and 6A 5pin socket has to provide near the wall fan at designated place for connections.	Nos	10		
1.4	Two Way Point	Nos.	10		
1.5	Call Bell Point	Nos.	0		
1.6	Wiring for UPS / Raw plug outlets points with 3 core x 2.5 sqmm FRLS PVC Insulated and PVC sheathed flexible cable with bright annealed electrolytic copper conductor, 1100 volt grade confirming to IS : 696 / 1990 with latest amendments, in existing Channels / conduit in ceiling / walls / floor including all cable termination accessories) (including body earth for GI boxes)	Mtr.	1080		
1.7	Wiring for Power plug outlets points with 3 core x 4.0 sqmm FRLS PVC Insulated and PVC sheathed flexible cable with bright annealed electrolytic copper conductor, 1100 volt grade confirming to IS : 696 / 1990 with latest amendments, in existing Channels / conduit in ceiling / walls / floor including all cable termination accessories) Earthing of GI Box to be included	Mtr.	1000		
2.0	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 FRLS PVC conduit as required.				
i)	2 x 2.5 Sq. mm. + 1 x 1.5 sq. mm earth wire	R.mtr	1750		

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
ii)	2 x 6 Sq. mm. + 1 x 4 sq. mm earth wire	R.mtr	30		
iii)	2 x 10 Sq. mm. + 1 x 6 sq. mm earth wire	R.mtr	10		
3	Supplying and fixing 1 No.6 amp flush type 3 pin international socket and 1 No. 6 amps switch cover plate, 5 sided G.I. Boxes for housing switches and sockets and earthing complete as required (for Raw) GI Boxes to have earth pin for body earthing	No's	110		
4	Supplying and fixing of 1 No.6/16 amp flush type 6 pin socket and 1 No. 16 amps switch cover plate, 5 sided G.I. Boxes for housing switches and sockets and earthing complete as required (for Power) GI Boxes to have earth pin for body earthing	No's	43		
5	Supplying and fixing of 3 No's.6 amp flush type 3 pin socket and 1 No. 16 amps switch cover plate, 5 sided G.I. Boxes for housing switches and sockets and earthing complete as required (for UPS). GI Box to have earth pin for body earthing	No's	111		
6	Supply and fixing of the following sizes of thermoplastic moulded plug and socket in PVC Box of suitable size flush / surface and making connections complete as required. The box shall be IP 54.				
a)	5 pin 63 A for 3 phase for HVAC area	No's	5		
b)	3 pin 20A 1 phase industrial socket with interlocking switch	No's	3		
7	Providing and fixing Underfloor Access Outlets (250 x 250 x 60mm) 75 compartments 1 Trap wity provision of space for installing 4 No's 6 Amps international sockets and 2 No's 6 Amps switch and space for 4 No's. RJ-45 data / voice outlet complete as required.	No's	3		
8	Supply & fixing of following sizes of 1.6 mm thick following PVC conduit recessed and / or surface including cost of providing saddles hangers supports from soffit of slab etc for surface conduiting, ceiling conduiting and / or cost of cutting and filling chases for recessed conduiting, including the cost of draw / junction boxes as required and including the cost of GI fish wire etc. complete as required.				
a)	20 mm dia	R.mtr	75		
b)	25 mm dia	R.mtr	1200		
c)	32 mm dia	R.mtr	200		
9	AC FCU POINT				
a)	Specification same as Item No-1 above but using 2 x 2.5 sqmm copper conductor wires with 1 x 1.5Sq.mm earth wire for AC point. The points shall starts from DB & shall finish at point including the supply & installation of modular type 16A switcg socket (Max three FCU in one circuit)	No's	12		
	SUB TOTAL				
II	ELECTRICAL FIXTURE WORKS :-				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge. (All LED Light Fixures should be covered with minimum 3 Years onsite replacement warranty)				
2.1	FULL GLOW 600 x 600 LED 40W Panel of approved make.	Nos.	31		
2.2	Recessed mounted 40 watt LED 300 x 1200 mm PANEL light fixture	Nos.	26		
2.3	LED downlighter recess mounted, 15 watt, 6000 k colour temp.	Nos.	135		
2.4	supplying & fixing 1200 mm dia ceiling fan of any make including providing fan hook etc. complete with providing & fixing modular step regulatos 7 including making necessary connections.	Each	2		
2.5	P/F Wall mounted fan with oscillating mechanism 300mm / 400mm 3 speed regulator of any make including grouting steel rawl plugs on walls / columns complete including wiring from the socket to fan complete.	Nos.	3		
2.6	suppling & fixing 200mm dia nominal low noise plastic ventilation fans of any make including cutting holes and fixing fans as required. Newtek or usha made with louvers	Nos.	45		
2.7	Bracket lights / Mirror light	Nos.	7		
2.8	Supply and hanging / fixing LED lights fixtures of 28 watt of approved make.	Each	24		
2.9	suplying & fixing call bell buzzer with indicator & reset facility operating on 230 volts (wiring is counted as light point).	Each	4		
2.10	Supply and fixing LED Strip lights fixtures of 14watt per Mtr. of approved make.	R.mtr	85		
	SUB TOTAL				
III	PANEL AND DB's WORKS :-				
3.1	DISTRIBUTION BOARDS				
1	Supply, erection, testing and commissioning of the following sheet steel clad wall recess mounting dust and vermin proof distribution boards constructed from 16 SWG sheet steel IP 42 construction, duly powder coated with hinged gasketed door and housing the following complete with suitably rated PVC insulated copper busbars with interconnections and neutral bar assembly, earthing terminals complete as approved by Project Manager.				
a)	12 WAY TPN (per phase isolation)- Lighting and Power DB				
	1-63 amp FP 10 kA MCB with thermal magnetic protective releases incoming with 3 single phase banks each comprising of 1-63 amp 30 mA DP ELCB incoming and 10 No's 6/10/16/25 amps SP 10 kA MCB with thermal magnetic protective releases out goings.	No's	2		
b)	8 WAY TPN (per phase isolation)- Lighting and Power DB				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	1-63 amp FP 10 kA MCB with thermal magnetic protective releases incoming with 3 single phase banks each comprising of 1-63 amp 30 mA DP ELCB incoming and 6 No's 6/10/16/25 amps SP 10 kA MCB with thermal magnetic protective releases out goings.	No's	2		
c	12 WAY SPN - Emergency Lighting DB				
	1-40 amp DP 10 kA MCB with thermal magnetic protective releases with 1-40 amp 30 mA DP ELCB incoming and 8 No's 6/10/16/25 amps SP 10 kA MCB with thermal magnetic protective releases out goings.	No's	2		
3.2	UPS Distribution Boards (All MCB's in UPS DB's should be D Curve)				
a	8 Way TPN DB, each phase consisting of 8 No's. 10/20 AMP SP MCB's and controlled by one number 63 Amps DP MCB for each phase	No's	2		
3.3	MV DISTRIBUTION BOARDS (Panels)				
1	Design, fabrication, assembling, wiring & supply, installation, testing & commissioning of MV Panels fabricated out of 2mm thick for structural members (Load bearing members) and 1.6mm thick for door and covers (Non load bearing members) CRCA painted sheet steel in cubicle formation with reinforcement of suitable size angle iron, channels, T irons, flats wherever necessary for large meter boards. Cable gland plates shall be provided at top and bottom both and windows for meter reading, locking arrangement (pad-lock & seal) with wiring upto KWH meter & meter to MCB shall be done by using adequately rated flexible single core copper wire. The boards shall be treated with all anticorrosive process before painting as per standards with final approved shade of powder coated as approved, 2 nos. earthing terminals shall be provided for all panels.				
	The boards shall be suitable for 415 V, 3 phase, 4 wire, 50 Hz supply system. Boards shall be fabricated in length, height, depth etc to match with site conditions. An approval shall be taken for each panel before manufacturing. Galvanised hardwares with zinc passivation shall be used in fabrication of boards.				
	Note:- The following provisions shall be required to be made in the switchboard detailed below				
	The Switchboard shall have provision for entry of all PVCA cables / bus duct from the top / bottom as required.				
	All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbar insulation shall be with heat shrinkable sleeves. SMC / DMC shrouds and busbar supports shall be used.				
	Suitable tinned copper extension links for incoming / outgoing cables shall be provided wherever required				
	Control circuits includes breaker control switch, auto manual selector switch, anti pumping relay, spring charging trip indication, TIMER, control wiring, Auxiliary contactors MCB's as required at site.				
	Positive isolation of all breakers.				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	All fault level breaking capacity indicates shall be IC.S value at 415 volts (ICS = ICU = ICW = 100%).				
	Space Heater/ light/air filter shall be provided for each vertical compartment				
	Padlocking facility shall be provided on all outgoing feeders.				
	All ACB's shall have all standard accessories such as CT's, Arc Chute, Safety Shutters etc.				
	All inter Panel wiring from PLC to DG / Transformer / Bus Couplers as required.				
	Link and drops from ACB / MCCB shall be designed for full rated current of ACB / MCCB ratings at same current density as of Main Bus Bar				
	2 nos. GI earth strip throughout the panel.				
1	MAIN LT CUM DG CHANGE OVER PANEL (35 kA)				
	SECTION-I				
A.	200KVA TRANSFORMER INCOMER				
	400 amps 4 pole MCCB circuit breaker with microprocessor release unit for short circuit, over current and earth fault protection with adjustable setting as per specification and with following accessories:				
i.	Digital load manager with RS-485 port of accuracy class-I, with 300/ 5 amps 15VA CTs.				
ii.	Phase indicating light shall be protected by 2 amps MCB's- 3 Set				
iii.	Over Voltage relay				
iv.	Under Voltage relay				
v.	Digital voltmeter with inbuilt selector switch- 1 set				
vi.	Digital Ammeter with inbuilt selector switch- 1 set				
vii.	Frequency Meter and Power factor Meter				
viii.	IDMT Relay(50)				
ix	IDMT Earth Fault Relay (51N)				
x	Breaker ON/ OFF/ TRIP indicating lights with control MCB's- 1 Set				
xi	24 V DC Shunt trip coil. - 1 Set				
xii	240 V AC under voltage release. - 1 Set				
xiii	Auto-manual/ test selector/ switch - 1 Set				
xiv	Breaker control switch - 1 Set				
xv	Auxiliary contacts required for necessary interlocking of breakers.				
xvi	32A TP MCCB for OLTC				
xvii	300/5A CT for APFCR				
B	250KVA DG INCOMER-1				
	400 amps 4 pole MCCB circuit breaker with microprocessor release unit for short circuit, over current and earth fault protection with adjustable setting as per specification and with following accessories:				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
i.	Digital load manager with RS-485 port of accuracy class-I, with 300/5 amps 15VA CTs.				
ii.	Phase indicating light shall be protected by 2 amps MCB's - 3 Sets				
iii.	Over Voltage relay				
iv.	Under Voltage relay				
v.	Digital voltmeter with inbuilt selector switch- 1 set				
vi.	Digital Ammeter with inbuilt selector switch- 1 set				
vii.	Breaker ON / OFF / TRIP indicating lights with control MCB's- 1 Set				
viii.	24 V DC Shunt trip coil. - 1 Set				
ix	240 V AC under voltage release. - 1 Set				
x	Auto-manual / test selector / switch - 1 Set				
xi	Breaker control switch - 1 Set				
xii	Auxiliary contacts required for necessary interlocking of breakers.				
xiii	12 Window Annunciation with push Buttons as required				
xiv	AMF Relay				
C	200KVA DG INCOMER#2				
	400 amps 4 pole MCCB circuit breaker with microprocessor release unit for short circuit, over current and earth fault protection with adjustable setting as per specification and with following accessories:				
i.	Digital load manager with RS-485 port of accuracy class-I, with 300/5 amps 15VA CTs.				
ii.	Phase indicating light shall be protected by 2 amps MCB's- 3 Set				
iii.	Under Voltage Relay				
iv.	Over Voltage relay				
v.	Digital voltmeter with inbuilt selector switch- 1 set				
vi.	Digital Ammeter with inbuilt selector switch- 1 set				
vii.	Breaker ON / OFF / TRIP indicating lights with control MCB's- 1 Set				
viii.	24 V DC Shunt trip coil. - 1 Set				
ix	240 V AC under voltage release. - 1 Set				
x	Auto-manual/ test selector/ switch - 1 Set				
xi	Breaker control switch - 1 Set				
xii	Auxiliary contacts required for necessary interlocking of breakers.				
xiii	12 Window Annunciation with push Buttons as required				
xiv	AMF Relay				
D	400A BUS COUPLER#1				
	400 amps 4 pole electrically operated manually draw out type air circuit breaker with microprocessor release unit for short circuit, over current and earth fault protection with adjustable setting as per specification and with following accessories:				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
i.	Breaker ON/ OFF/ TRIP indicating lights with control MCB's 1 Set				
ii.	24 V DC Shunt trip coil. - 1 Set				
iii.	240 V AC under voltage release. - 1 Set				
iv.	Auto-manual/ test selector/ switch - 1 Set				
v.	Breaker control switch - 1 Set				
vi	Auxiliary contacts required for necessary interlocking of breakers.				
E	400A BUS COUPLER#2				
	400 amps 4 pole electrically operated manually draw out type air circuit breaker with microprocessor release unit for short circuit, over current and earth fault protection with adjustable setting as per specification and with following accessories:				
i.	Breaker ON/ OFF/ TRIP indicating lights with control MCB's 1 Set				
ii.	24 V DC Shunt trip coil. - 1 Set				
iii.	240 V AC under voltage release. - 1 Set				
iv.	Auto-manual/ test selector/ switch - 1 Set				
v.	Breaker control switch - 1 Set				
vi	Auxiliary contacts required for necessary interlocking of breakers.				
	Panel shall be provided with Micro PLC for Interlocking				
F	Bus Bar -I :				
	600 A TPN electrolytic Al bus bar with heat shrinkable insulation sleeve 35 kA				
G	Outgoings section-I				
i	1 Nos. 250 Amps TPN Moulded Case Circuit Breaker (Icu = Ics) with built in microprocessor based release unit for short circuit, over current and earth fault protection a				
ii	2 Nos. 160 Amps TPN Moulded Case Circuit Breaker (Icu = Ics) with built in microprocessor based release unit for short circuit, over current and earth fault protection a				
iii	3 Nos. 100Amps TPN Moulded Case Circuit Breaker (Icu = Ics) with built in microprocessor based release unit for short circuit, over current and earth fault protection a				
	7 Nos. 63A TPN MCB(Motor Duty)				
iv	3 Nos. 40A DP RCCB Lift				
H	Interlocking				
	All incoming breakers and bus coupler shall be electrical interlocked, so that two supplies are not Paralleled.				
	Provided for Auto operation of DG ON/OFF, breaker/contactor open/close/trip (Auto/Manual) etc in case grid supply failure including control wiring.				
	AMF and Auto Operation of breaker / Contactor in Auto/Mannual Mode				
	NOTE:- Considered the followings				
	FP Power Contactor for interlocking				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Frequency & Power Factor mete				
	Main LT Panel Cum DG Change Over Panel as described above complete with specifications and enclosed SLD.				
	NOTE :- Above Main LT Panel Item includes lifting of panel from Ground Floor to specified location on Terrace by crane or machanical means. No extra charges shall be paid by IIBF for lifting.	Nos.	1		
3.4	CAPACITOR PANEL 50 kVAR (35kA)				
	Incoming				
	Direct cable connection fo2 Nos. X 3.5C x 240 Sq. mm XLPE insulated Aluminium Arm. cable to bus bars extended in cable alley complete with :-				
a	3 Set of 300 /5A for , CL-1.0, 15VA measuring CTs for Metering				
b	Square flush mounted digital Ammeter of 96 mm sq. scaled 0-800 amps with 3 way and OFF selector switch				
c	1 Set of phase indicating lamps with MCB.				
d	Terminals to receive XLPE insulated cable				
e	12 step APFCR relay microprocessor based to sense and monitor the system power factor and provide impulses for operation of 6 sequential capacitors circuits				
d	Power factor meter (digital)				
	Bus bars				
	Electrolytic high conductivity of 400A, 35 kA TPN Al. Bus Bar of suitable length				
	Outgoings				
c	3 Nos 40 A TP MCCB each complete with 50A AC 3 duty TP contactor (suitable for automatic switching of 12.5 kVAR Capacitor bank) with indicating lamps to give status of circuit, 15 kVAR Hermetically sealed MPP-H type capacitors with fuse protection, discharge resistors, interconnections, set of push buttons red and green for manual operation of capacitor units, A/M selectors switch etc. as required				
d	1 Nos 16 A TP MCCB each complete with 25A AC 3 duty TP contactor (suitable for automatic switching of 12.5 kVAR Capacitor bank) with indicating lamps to give status of circuit, 5 kVAR Hermetically sealed MPP-H type capacitors with fuse protection, discharge resistors, interconnections, set of push buttons red and green for manual operation of capacitor units, A/M selectors switch etc. as required				
	50 kVAR Capacitor Panel as described above complete with specifications and enclosed SLD	Nos.	1		
3.5	AC Panel				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
I	Designing, Fabrication, Supply, Installation, Testing and Commissionings of front operated cubicle type compartmentalised, front access, free standing on 75mm "I" MS channel, dust and vermin proof (IP 42 degree protection) panel suitable for use at 415V, 3 phase, 4-wire 50Hz system suitable for fault level of required value symmetrical at 415V fabricated from 2mm thick CRCA MS sheets with hinged, gasketted (Metal based neoprene) locable doors having structural reinforcement including 3mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size including 2 coated primer and 2 power coated paint finish of approved shade over metal surface cleaned and treated with seven tank process complete with seven tank process complete with inter connections etc as per specifications as required. as per the following specifications, (Part IV - Sub-Station) and IS: 8623 comprising of followings panel mounting switchgears etc. as required complete in all respect as per instruction of Engineer in charge / Architect.				
	Cubical Panel made out from 14/16 SWG (2/1.6 mm thick) CRCA sheet steel duly power coated in Siemens grey colour Floor Mounted, Front Operated,Electrical Grade All Insulated Colour Coated Busbar Accordingly Suitable For Incoming & Outgoing Feeders (Main Busbar 300A TPN Alu.)				
	Wiring & Fixing material Pvc Insulated Single Core Industrial Flexible Copper Wire.	No's	1		
A	MAIN INCOMER WITH METERING				
	1No 250A TP+N MCCB 16KA with Thermal Magnetic release having S/C, O/L Protection.				
	1 No Spreader links				
	1 No Door Operating Handle				
	1 NO Digital VAF meter Class 1				
	3 NO CT 250/5A Class 1.0, 10VA				
	Per Phase Indication Light LED RED 220V AC				
	3 NO Control MCB 6A SP 10KA				
	1 NO Neutral Link 20A				
B	OUTGOING FEEDERS				
	7 No 63A 4P MCCB 10KA				
	Spreader links				
	Door Operating Handle				
	VRV Panel as described above complete with specifications and enclosed SLD	No's	1		
3.6	Sub Panel 16 KA				
	Incoming				
A	1 No. 400 amps 16 kA 440 volt TP MCCB with microprocessor based overcurrent , short circuit and E/F releases with heavy duty solid detachable neutral link complete with on indication lamp				
	Metering, Indication & Protection:				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
a	1 Nos. 6 Parameter Energy Analyser with 3 Nos. Cast Resin CTs and MCBs				
b	Breaker ON OFF indication Lamps				
c	R-Y-B indication lamps with MCBs				
	Bus Bar:				
	500 A, TPN Al. Bus Bar of suitable length having Current density 1Amp/sq.mm & having high conductivity electrical grade suitable to withstand symmetrical fault level of 16 kA. Neutral busbar shall be of 100% capacity.				
	Sub Panel as described above complete with specifications and enclosed SLD	No's	1		
3.7	MISC ITEMS				
1	Providing and doing servicing of existing passenger Lifts (2 No's) including getting Lift License from Inspector and one year AMC from OEM. All complete as per IIBF requirements / instructions. Item includes providing AMC services and license from inspetor for successive 4 year	Nos.	1		
a	2nd Year	Nos.	1		
b	3rd Year	Nos.	1		
c	4th Year	Nos.	1		
d	5th Year	Nos.	1		
	Scope of work for annual maintenance services (AMC services after one year warranty period) shall include providing routine maintenance services, pertaining to complaints as and when they occur and annual maintenance services. AMC services shall include providing all man power, labour, tools and tackles. The rates quoted for the AMC services shall also include all taxes and duties as applicable (Except GST) and cost of transportation of freight, insurances etc.				
	SUB TOTAL				
IV	EARTHING AND LIGHTNING PROTECTION				
4.1	Providing and fixing of 4mm (8 SWG) dia GI wire direct in ground/existing hume pipe for earthing alongwith submain wiring/cables as required.	R.mtr	160		
4.2	Supplying and laying of the following earthing clamped to wall with suitable clamps saddles and fixing bolts/ in ground including the cost of digging and back filling as required and complete as required to comply with IS 3043:1987. All copper joints shall be tinned.				
i	25 mm x 3 mm tinned copper strip with heat shrinkable sleeves	R.mtr	80		
ii	50 mm x 6 mm GI strip	R.mtr	40		
iii	25 mm x 3 mm GI strip	R.mtr	150		
iv	Single core 10 sq.mm Green colour cable	R.mtr	120		
4.3	Supplying and making test joint as required.				
i	25 mm x 6 mm copper strip	Nos	4		
ii	50 mm x 6 mm GI strip	Nos	1		
	SUB TOTAL				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
V	MAIN & SUB-MAINS AND CABLES				
5.1	Supply, Laying, Testing & Commissioning of following sizes of Al conductor 1.1 kV grade, armoured, XLPE insulated LT Cables including necessary cleats, clamps etc. (Cables shall be partly laid in Pipes, O/H cable tray, on wall, buried in ground)				
i	3.5C x 240 (AL.) For VRV	R.mtr	80		
ii	3.5C x 50 (AL.) Floor DBS	R.mtr	80		
iii	3.5C x 35 (AL.) Floor DBS	R.mtr	80		
iv	4C x 25 (AL.) Light power DBS	R.mtr	80		
v	1C x 10 (Cu.) Unarmoured Cable	R.mtr	200		
vi	4 core 16 sq mm XLPE (Cu.) Cable	R.mtr	60		
vii	3 core 6 sq mm (Cu.) unarmd Cable	R.mtr	0		
5.2	Supply, Erection, Testing & Commissioning of following sizes of cable end terminations with double compression gland for 1.1 kV grade, XLPE insulated, Al Conductor cable				
i	3.5C x 240 (AL.)	No's	6		
ii	3.5C x 50 (AL.)	No's	10		
iii	3.5C x 35 (AL.)	No's	4		
iv	4C x 25 (AL.)	No's	4		
v	1C x 10 (Cu.) Unarmoured Cable	No's	8		
vi	4 core 16 sq mm XLPE (Cu.) Cable	No's	4		
vii	3 core 6 sq mm (Cu.) unarmd Cable	No's	0		
	SUB TOTAL				
VI	DATA CABLING / RACEWAYS AND CABLE TRAYS				
6.1	Wiring for computer networking from I/o hub to computer workstation with Supply, installation, testing and commissioning of Indoor copper Giga SPEED XL, non-plenum 1071 XL 4pair (23 AWG), (UL verified category 6, UL listed CMR) Cable meeting or exceeding the category 6 requirement as in TIA / EIA 568B. 2.1, ISO / IEC 11801 (2002) for the following parMtr.s : pr-pr NEXT,PSNEXT, Insertion loss, PSELNEXT, Return loss, freq range, Nominal velocity of proagation, Max. DC Resistance, Max. DC Resistance unbalanced, Max.mutual capacitance, operating temperature range and max. pulling tension. Item includes pulling of cat 6 cable in existing channel including ferruling (6 Digit), bunching and dressing with PVC cable ties etc.	R.mtr	3070		
6.2	Supplying,installtion,testing & commissioning of Single Cat 6 RJ 45 I/O for data with face plate and frame	nos	73		
6.3	Supplying,installtion,testing & commissioning of Double Cat 6 RJ 45 I/O for data with face plate and frame	nos	17		
6.4	Cat-6 Patch Cord 7ft	No.s	107		
6.5	Cat-6 Patch Cord 3ft	No.s	107		
6.6	Supplying,installtion,testing & commissioning of 24 Port Cat 6 Jack Panels -Loaded, for Data	No.s	5		

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
6.7	Supplying,installtion,testing & commissioning of 32U Network rack with base support / PDU / Cable Manager & Hardware	No.s	1		
6.8	Providing & fixing of 24 port switch Gigabite 10 / 100 / 1000 mbps.	No.s	5		
	TELEPHONE SYSTEM				
6.9	Supplying and drawing following pair 0.6 mm, 2 pair dia PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface / recessed steel / PVC conduit as required. (No looping of telephone wire is acceptable. Each 2 pair wire shall be laid for each RJ 11 socket & that will be counted one point.	R.mtr	1050		
6.10	Supplying,installtion,testing & commissioning of Single modular type 1 module RJ - 11 telephone socket on screw less modular plate with GI box including termination of wire with PVC feruling at both end as required.	Nos	33		
6.11	Supplying & fixing 50 pair krone tag block with enclosure.	Nos	5		
6.12	Supplying & fixing 100 pair krone tag block with enclosure.	Nos	1		
	TV POINTS				
6.13	Supply and drawing of the RG 6 co-axial cable for signal.	R.mtr	250		
6.14	Supplying,installtion,testing & commissioning of Single modular type 1 module RC TV socket on screw less modular plate with GI box including termination of wire with PVC feruling at both end as required.	Nos	6		
	RACEWAYS AND CABLE TRAYS				
6.14	Providing and fixing 1.6 mm thick steel sheet factory fabricated powder coated floor recessed raceway of the following sizes including providing removable cover, knock out holes and fixing accessories earthing with 8 SWG earth wire complete as required including floor supports, bends, access boxes, tap off boxes and cross over as per site requirement.				
a)	Providing and fixing 1.6 mm thick steel sheet factory fabricated post galvanized floor recessed raceway of the following sizes including providing removable cover, knock out holes and fixing accessories earthing with 8 SWG copper earth wire complete as required including floor supports, bends, access boxes, tap off boxes and cross over as per site requirement.				
b)	150mm wide x 40mm deep raceway	R.mtr	120		
6.15	100mm wide x 40mm deep raceway	R.mtr	120		
6.16	Providing and fixing 200 x 200 x 50mm deep 1.6mm thick GI sheet junction box including providing 2mm thick stainless steel cover as per specification.	No	30		
a)	Supply and fixing of GI Perforated type powder coated cable trays as per approved design and GI angle supports spaced 1000mm apart throughout the length as specified, including the cost of threaded rod hangers, hooks, dash fasteners etc. for suspension from ceiling as required				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
b)	150mm x 40 x 40 x 1.6mm thick	R.mtr	30		
	300mm x 40 x 40 x 1.6mm thick	R.mtr	40		
	SUB TOTAL				
VII	CLOSE CIRCUIT TELEVISION SYSTEM				
7.1	Supply, installation,testing and commissioing of IP based Fixed 2 Megapixel IR vandal-proof dome camera, 1/3" ultra-low illumination CMOS, Color: 0.01Lux @ (F1.2, AGC ON), B/W: 0.0Lux (IR On), 3.6mm lens, 10~20 Mtr.s IR distance, TDN, DWDR, BLC, AGC, DNR, OSD, H.264 High Profile dual-stream, ONVIF 2.0, Motion Detection-396 zones, Privacy Masking-4 zones, IP-66, 12VDC, PoE	Nos.	24		
7.2	Suply, installation,testing and commissioing of IP based Fixed 2 Megapixel IR vandal-proof Outdoor Bullet camera, 1/3" ultra-low illumination CMOS, Color: 0.01Lux @ (F1.2, AGC ON), B/W: 0.0Lux (IR On), 3.6mm lens, 10~20 Mtr.s IR distance, TDN, DWDR, BLC, AGC, DNR, OSD, H.264 High Profile dual-stream, ONVIF 2.0, Motion Detection-396 zones, Privacy Masking-4 zones, IP-66, 12VDC, PoE	Nos.	14		
7.3	Suply, installation,testing and commissioing of IP based Fixed indoor veri focal lences auto iris cameras 4 MP, 2.7 to 13.5mm lens IR Bullet Camera (HBW4PER2) 1/3" Progressive Scan CMOS; H.265+ / H.265 / H.264+ / H.264 / MJPEG; Color: 0.01 lux @ (F1.2, AGC ON), 0 lux with IR; (2688 x 1520, 19; 3 VCA functions; 3 streams; up to 50 Mtr., BLC / HLC / WDR, DC12V & PoE including integrated housing, Varifo Connectors, A.I.Lens, Camera Mounts, Power Supply and all Ancillary Equipment & all accessories.	Nos.	6		
7.4	IP BASE 64 Ch. with 1080p Realtime Live View H.264/MJPEG dual codec decoding Max 256Mbps incoming bandwidth Support 4 SATA HDDs up to 16TB, 1 eSATA, 3 USB2.0, 1 CD/DVDRW HDMI / VGA simultaneous video output with 4 Slots yp to 4 TB HDD each	Nos.	1		
7.5	SIT Of 24port POE 100/1000 Giga Switch	Nos	2		
7.6	SIT Of Cat6 7ft. Patch Code	Nos	50		
7.7	Supplying,installtion,testing & commissioning of 24 Port Cat 6 Jack Panels -Loaded, for CCTV	Nos	2		
7.8	Supplying,installtion,testing & Commissioning of 12U Network rack with base support	Nos	2		
7.9	SIT OF HDD 4 TB	Nos	2		
7.10	Supplying and drawing following 4 pair CAT 6 unarmored Data cable in the existing surface / recessed steel / PVC conduit as required.	R.mtr	1320		
7.11	Supply, Testing & Commissioning of Digital Video Management Systems (DMS) Differentiators software.	Nos	1		

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
7.12	Supply & fixing of following sizes of 1.6 mm thick following PVC conduit recessed and/or surface including cost of providing saddles hangers supports from soffit of slab etc for surface conduiting, ceiling conduiting and/or cost of cutting and filling chases for recessed conduiting, including the cost of draw/junction boxes as required and including the cost of GI fish wire etc. complete as required.				
a	25 mm dia	R.mtr	550		
7.13	Supply, Testing & Commissioning of 32" LED TV(HD) with wall mounting kit and including all other accessories as required	Nos	1		
	SUB TOTAL				
VIII	ACCESS CONTROL SYSTEM				
	The Access Control System should be integrated with fire alarm system to disengage all doors in case of activation of fire alarm.				
8.1	Contactless intelligent Door Access controller with battery backup Dyanmic control of memory up to 20,000 card holders/29500 events with network communication of RS 232/RS 422/RS 485				
	Main Access controller with door control units suitable for 4 doors and 8 readers& push botton as per specifications				
	15 time schedules and 10 holiday schedules				
	Antipass back fuction : 34 bit vigant				
	LCD display, keypad				
	Reader interface				
	Expansion I/O Board Available				
	Contactless intelligent	Nos	1		
8.2	HID Proximity Card Readers (Read Range 4")				
	Basic time and attendance Function				
	3 LEDs for system operation status				
	Duress alarm function				
	Setting for safe/Secure Mode.				
	Try out error alarm				
	Back lighting on key pad.	Nos	4		
8.3	Proximity Cards	Nos	50		
8.4	Ceiling / Surface mounted drop bolt and EM lock capacity of holding pressue of 650lbs including U Clamps.	Nos	4		
8.5	Double Electromagnetic Locks - 1200 lbs as per specifications.	Nos	0		
8.6	Egress switch, Exit push button-Stainless steel button made of aluminium alloy 75 x 75 x 5mm size.	Nos	2		
	Push button switch connected for controller for access				
	Installed on exiting door				
	Signal Output at the point of contact				

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
8.7	SQL based Access Management Software	Nos	1		
	Real time monitoring of door access				
	Auto card expiration				
	Card holder activation and de activation				
	Data export in Excel and text file format				
	User defined access control report				
8.8	ILAN 422 / 485 1	Nos	1		
8.9	Ethernet serial port interface with surge protection				
8.9	Emergency Break Glass interlocking with lock	Nos	2		
8.10	Power Pack wih adaptor and battery back upwith NFB switch with built in battery recharge circuit and alarm singal for low battery voltage	Nos	1		
8.11	Supplying, Installing, Testing & Commissioning of CAT 6A cable	R.mtr	80		
8.12	Multi- core Cabling and wiring Armored 22AWG X 12 core, AND 7/.25MM with GI saddle spacers every 0.3 mtr	R.mtr	100		
8.13	Multi- core Cabling and wiring Armored 22 AWG 4 core AND 7/ .25MM , with GI saddle spacers every 0.3 mtr	R.mtr	0		
	SUB TOTAL				
IX	INTELLIGENT FIRE ALARM SYSTEM				
9.1	Supplying, laying, testing and commissioning of 1100 volt Fire survival 1.50 sq mm x 2 core LSZH 7/.53 mm armoured copper conductor and cable for 650 DEG C cable laid on Surface/ walls including the cost of saddling and clamping and including the cost of dressing etc. complete as per specifications,				
a)	2C x 1.5 Sq mm	R.mtr	528		
9.2	Intelligent analogue addressable photoelectric type smoke detector with mounting base, LED and with electronic addressing to programme the detectors complete as required.(Below false ceiling)	Nos	48		
9.3	Intelligent Analog adresable Multicriteria detector with mounting based LED, address switch to programme the detectors complete as required.	Nos	29		
9.4	Supply, installation testing and commissioning of addressable manual call box in recess or on surface of wall complete including connection etc.as required	Nos	10		
9.5	Supply, installation, testing and commissioning of hooter for alarm system complete as required.	Nos	10		
9.6	Supply installation, testing and commissioning of fault isolator module at an internal of detectors / devices including connections etc as required.	Nos.	4		
9.7	Supply installation, testing and commissioning of control module including connections etc as required.	Nos.	1		
9.8	Supply installation, testing and commissioning of Monitor module including connections etc as required.	Nos.	1		

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
9.9	Supply, installation, testing and commissioning of addressable type Rates cum rise type heat detectors with built in fault isolator on surface / false ceiling complete with base as required.	Nos.	3		
9.10	Microprocessor based Following loop, Networkable analogue addressable type fire alarm control panel with 80 character LCD display,The panel should be equipped with minimum 90 analog addressable devices in one loop. For access levels,capable of taking Flash Scan devices, flash EPROM sufficient numbers of programmable relay controls for controlling pressurisation fan, monitoring of fire sprinkler , 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working and then be capable of operating the system for 2 hours during an emergency conditions as required. Panel shall have interface inbuilt feature for voice command centre for Digital Voice Evacuation and Central Communication Units for two way communication and shall be network interface with other panel.	Nos.	1		
9.11	Supply, installation, connecting, testing and commissioning of UL listed addressable Repeater panel.	Nos.	1		
9.12	Providing and fixing in position 1.2mm thick M.S. rectangular outlet boxes for housing smoke detectors, Heat Detectors, manual Call Points, monitor module, control module on the true Ceiling / wall complete with all fixing accessories as required.	Nos.	100		
9.13	Supply, installation, connecting, testing and commissioning of Response Indicator	Nos.	20		
9.14	Providing, laying, testing and commissioning of C class heavy duty MS pipe conforming to IS: 1239 / IS:3589 welded to existing main line including MS fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. complete of following sizes as required. Item Includes painting for M.S. pipe with a coat of red oxide primer and two or more coats of synthetic enamel paint of approved colour and Quality to give an even shade including surface preparation.				
a	32mm dia	Mtr	50		
b	25mm dia	Mtr	75		
9.15	Providing & fixing brass quartzoid sprinklers (UL approved) of 15 mm dia size, suitable for sustaining the pressure on the seat & water hammer effect. The type & temperature rating shall be as follows :				
	Chrome plated pendent / upright type 68 deg C quartzoid bulb sprinkler	Nos.	140		
9.16	Supply, installation, testing & commissioning of Sprinkler Flexible Joint of 25mm diaMtr., consisting of - Flexible Tube (SS 304), S.S. Slip nut, Isolated Ring & O Ring - for Sprinklers Drop, which shall include necessary supports with a maximum working pressure of 14kgf/cm ² and temperature rating of 225oF. The length of Flexible Sprinklers Pipe shall be :-				
a	1500mm long	Nos.	50		

S No	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
9.17	Supply & Fixing ISI marked (IS:13849) Portable Fire Extinguisher, ABC type capacity 5 kg, finished externally with red enamel paint, complete in all respects including initial fill and wall suspension. Capacity 5 kg	Nos.	20		
9.18	Providing and fixing terrace motor pump 450 LPM 7.5 HP	Nos.	1		
	NOTE:-				
	Rates quoted for fire fighting work should be inclusive of getting fire NOC from concerned authority / fire department .				
	SUB TOTAL				
X	PUBLIC ADDRESS / MUSIC SYSTEM				
1	6W RMS False Ceiling Mount Speakers for music & PA System 0606	Nos	60		
2	Microprocessor based System capable of activating pre-recorded messages in case of Fire.				
	6 Zone Call Station				
	Facility for Music system				
	Integration facility with Fire Alarm System	Nos	1		
3	Booster Amplifier 480 W	Nos	1		
4	Mixer Amplifier 120 W	Nos	1		
5	Power Amplifier	Nos	1		
6	Call station & Key Pad LBB for above zone	Nos	1		
7	12 Watt Volume Controller	Nos	12		
8	Integrated music source consisting of CD player, tape deck etc for Voice Evacuation & Back Ground Music (should be capable of playing MP3,VCD, DVD and CD).	Nos	1		
9	19" 27U Rack	Nos	1		
10	Supplying, laying, testing & commissioning of single pair PVC insulated twin twisted copper conductor of 1sqmm x 2 mm and dc resistance 20.10 ohms p. km armored cable all fixing accessories as required	R.mtr	500		
	SUB TOTAL				

BILL OF QUANTITY FOR OUTDOOR DEVELOPMENT WORKS FOR IIBF AT C-5/30, SAFDARJUNG DEVELOPMENT AREA, NEW DELHI

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	EXTERNAL DEVELOPMENT WORKS :-				
1	Providing and fixing in position 18 -20 mm thick Pre-Polished stone (Basic Rate of stone Rs. 2250/- Sq. mtr.) slab as wall cladding with groove as per Architectural design / drawing & on Riser and Tread on a rich base of cement mortar 1 : 3. (1 cement : 3 coarse sand). Fixing with cleats wherever required. All exposed edges shall have half round moulding. Item includes making 3 nos groove on each tread. All complete as per drawing, approval and instructions of the Engineer incharge / Architect.				
a)	18-20mm thick Pre-Polished Granite stone in Flooring, Treads and Risers.	Sq.m	22		
b)	18-20mm thick Pre-Polished Travertino stone in exterior wall caldding up to 6m height. The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for Architectural Design. All complete as per approval and instructions of Engineer-in-Charge / Architect	Sq.m	105		
2	Providing and fixing 6.0mm thick HPL facade cladding panels (Basic Rate Rs. 3000/- per Sq.m) in woodgrain décor with weather protection of double hardened acrylic polyurethane resins of GREENLAM or Equivalent make fixed to the wall with aluminium support frame complete as per manufacturer's specification. The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for architectural surface. All complete as per approval and instructions of the Engineer-in- charge / Architect.	Sq.m	32		
3	Supply, Fabricate, Design, Package and Fixing of VM ZINC Flat lock Panel Wall Cladding System by VM ZINC.	Sq.m	185		
	Top Layer : Supply, Fabricate and fixing of VM ZINC Quartz / AZENGAR Recessed flat lock wall cladding system in 0.8 mm thick consisting of Fixing clips & strips. The system shall comprise of the following described flat lock panels 0.8 mm thick pre-weathered zinc Quartz / Azengar (i.i) Fixing clips system to connect the zinc panel to the decking. (VM ZINC to be installed by the Approved installer of OEM)				
4	Providing and applying Apex Exterior painting on external surface / facade of approved shade & texture. The rates are inclusive of scaffolding, staging etc. for any height and for plane as well as for architectural surface. All complete as per approval and instructions of the Architect / Engineer-in- charge.	Sq.m	1425		
5	Providing, Making and extending concrete plateform at main entrance with steel reinforcement, brick wall below slab, cement plaster including shuttering etc. All complete as per approval of engineer in charge/ architect.	Sq. m	2		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6	Landsacping / outside development work for front portion of the building.	LS	1		
7	Providing & fixing of Stainless Steel Canopy with 12mm thick toughened glass on top complete with all hardwares, accessories, fittings etc. as per instruction of Architect. Item includes Adjustable Steel ropes, Fastners etc. as per Architectural design / drawings.	Sq.m	10		
8	Making septic tank of size 1500 x 1500 x 1500mm deep including all civil works as per following specification.	Each	1		
i	Earth work excavation over in all kinds of soil including dewatering of subsoil water if any, disposal of excavated earth within a lead of 50m and Lift 0 to 5.0m G.L etc., complete.				
ii	Providing & laying cement concrete 1 : 4 : 8 using 40mm nominal size graded hard granite stone aggregate including compaction, finishing top surface to level, curing etc., complete for mud mat.				
iii	Providing & laying 1 : 2 : 4 cement concrete for flooring. using 20mm nominal size graded hard stone aggregate including compaction, finishing top surface to level curing etc., complete.				
iv	Water proof cement plastering of 20mm thickness in CM 1:3 mixed with approved water proofing compound such as CICO or ACCOPROOF or equivalent as per manufacturer's specifications including scaffolding, curing etc., complete for inside surfaces of septic tank & up flow filter.				
v	Providing & laying reinforced cement concrete 1:2:4 (M 15) using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including centring, shuttering, mechanical mixing, vibrating, compaction, finishing, curing, including cost of form work, labour for keeping embedments if any wherever required while concreting, deshuttering etc., complete for all items of concrete work.				
vi	Providing & fixing in position 150mm dia stoneware pipes over the concrete bed including tees / bends & specials for inlet, outlet, interconnection & jointing in CM 1:1, curing etc., complete.				
vii	Supplying and fixing 8-10mm dia. steel reinforcement deformed bars of high strength TMT reinforcement bars of FE 500 grade of high yield strength and percentage elongation, minimum 14.5% as per IS:1786 including decoiling, straightening, cutting, bending and placing in position at all levels and binding with approved (18 G) gauge binding wire. The rate to include cost of binding wire and cover blocks, laps, wastages, chairs, freight etc (no extra payment is permissible for laps, wastage, chairs.)				
viii	Providing & filling stone metal 75 & 40 mm size for an aerobic up flow filter as shown in drawing.				
ix	Back filling with selected excavated earth in layers, watering, consolidation etc., as directed.				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
x	Providing & fixing in position 100mm dia AC vent pipe with cowl on top.				
xi	Providing & placing in position PCC 1 : 2 : 4, 300mm high, 400 x 200mm concrete blocks to support precast RCC slabs for false flooring in up flow filter set in CM 1 : 3 as directed etc., complete.				
xii	Providing and fixing CI cover with frame (Heavy duty) 610 x 610mm internal dimension, total weight of frame to be not less than 45kg.				
9	Providing and laying in floor PVC pipes (slope 1 : 40) of following sizes including excavation, refilling, jointing, sealing of ends testing of joints, bed concrete etc. complete in all respect as required. All as per approval of Engineer incharge / Architect.				
a)	200mm outer dia	R.Mtr	30		
10	Providing and fixing main gate made of Stainless Steel (304 grade) tubes with 6mm thick HPL as per design. Item includes handles, hold fast, Floor pivot and all necessary hardware etc. All complete as per drawing, approval and instructions of the Architect / Employer.	Sq.m	25		
11	Providing and fixing MS gate of size 900mm x 2050mm approx. as per design. Item includes MS door frame, hold fast and all necessary Fittings and hardware, priming coat and synthetic enamel paint. All complete as per drawing, approval and instructions of the Architect / employer.	Each	1		
12	Providing and fixing MS grill for fencing made of 12 x 12mm MS square bars placed vertically @ 100mm c/c and horizontally as per design welded with 40 x 40 x 5mm MS angle. MS flat of size 15 x 3mm & 25 x 12mm shall be used for design. Grill shall be fixed to the floor. Item includes all necessary hardware, priming coat and synthetic enamel paint . All complete as per drawing, approval and instructions of the Architect / employer.	Sq.m	5		
13	Providing and fixing Stainless Steel (304 grade) railing as per design. All complete as per drawing, approval and instructions of the Architect / Employer.	R.Mtr	6		
14	Providing and fixing concertina wire including MS angle frame support grouted in concrete with hold fast complete in all respect. Item includes painting MS work with primer and synthetic enamel paint. All complete as per approval and instructions of the Architect / Employer.	R.Mtr	15		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
15	Providing and fixing GRC Jalli panel screen of approved design, pattern and colour of Unistone make or equivalent. Screen shall be made of '53 grade' white portland cement quartz fine silica sand, alkali resistant glass fiber super plasticizers polymers and UV resistant synthetic inorganic pigment. The fixing of screen shall be dry fixing to be done with 'L' shape SS clamps dash fastener and pins etc. as per manufacturer specifications. Item includes MS Frame of required size finished with paint. The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for architectural surface. All complete as per drawing approval and instructions of the Architect / Engineer-in-Charge.	Sq.m	55		
16	Cleaning of Terrace including removing of peepal tree, RCC kitchen counter, floor / wall tiles and disposal of malba etc. complete in all respect.	LS	1		
17	Waterproofing Treatment for Terrace with 4mm APP Membrane on mother slab of Asian Paints / SWC Chryso / STP Limited as per below procedure (a to g).	Sq.m	225		
a)	Laying a 50 x 50 mm gola at the floor wall junctions with polymer modified mortar. Repairing any pot holes with polymer modified mortar.				
b)	Cleaning the entire surface with wire and soft brush to make the surface conductive to receive waterproofing treatment.				
c)	Providing and applying bituminous primer on a clean and dry surface. Allow primer to dry for min 3-4 hrs.				
d)	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 4 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints and preparing the surface. The side and end overlaps shall be of 75 mm. The membrane shall be terminated on top of the parapet wall.				
e)	The Treated area shall be water tested for a period of 48 hrs.				
f)	Providing and laying 120 gsm geotextile over the waterproofing membrane as a separation layer.				
g)	Protection: Laying 25 mm and 15 mm thick protection plaster admixed with waterproofing compound on horizontal and vertical surfaces respectively.				
	Above item complete in all respect as per instruction of Engineer in charge / Architect.				
	NOTE :- Waterproofing Treatment is to be carried out by a specialized agency with the approval of consultant and shall be Guaranteed fully effective for a period of 10 year.				

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
18	Providing and making wellness center on terrace using existing glass and MS truss frame with new pre coated GI PUF panel roof, gypsum board ceiling, electrical wiring, light fitting and fixture, switch sockets, 4mm vinyle flooring, bison board wall cladding finished with wall paper, air conditioning work etc. complete in all respect. All complete as per approval and instructions of the Architect / Employer.	Sq.m	55		
19	Supply, fixing / hanging LED lights fixtures (Outdoor) of approved make. (Basic Rate of fixture Rs. 2200/- Each)	Each	25		
20	Supply and fixing LED lights fixtures (Driveway) of approved make. (Basic Rate of fixture Rs. 1700/- Each)	Each	25		
21	Providing and laying full body ANTI SKID Vitrified tiles in flooring including 100mm high skirting of homogeneous composition of following sizes (thickness to be specified by the manufacturer) with water absorptions less than 0.08% and confirming to IS : 15622 of approved shade and pattern.				
	Tile to be laid on 20 to 50 mm thick cement mortar 1 : 4 (1 cement : 4 coarse sand) including 5mm spacer and Grouting the joints of flooring, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10kg of hardener and 0.20 kg of resin per kg) mix with pigment to match the shade of the tile, leveling of floor if required, covering it with plaster of paris to avoid damages & complete cleaning prior to handing over.				
	All complete as per drawing, approval and instructions of the Engineer incharge/Architect. (Make : Kajaria / Orient Bell / H R Johnson/ Somani)				
a)	Providing and Fixing NDURA Cool roof Tiles of size 300 x 300 x 10mm thick on Terrace.	Sq.m	350		
	SUB TOTAL				
	NOTE:-				
	Rates quoted for above works should be inclusive of getting building plan approval and completion certificate from concerned authority/ department (if required) . No extra payment shall be made for this job.				

SALVAGE ITEMS					
S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SALVAGE :- Contractor to quote individual rates not below reserve price (RP). Material of Salvage should be disposed off on as-is where is basis..				
A	INTERIOR, FURNISHING WORKS :-				
1	Disposal of salvage Reception Counter with or without pedestal as per the reserved cost including removal all complete as per the directions of Architect (RP - Rs. 5000/- Each)	Each	2		
2	Disposal of salvage partition as per the reserved cost including removal all complete as per the directions of Architect (RP-Rs. 100/- per Sq.mtr.)				
a)	Frameless Toughened Glass Partition / Door. (RP- Rs. 100/- per Sq.mtr.)	Sq.m	100		
b)	Wooden wall paneling including looking mirror (RP-Rs. 100/- per Sq.mtr.)	Sq.m	1000		
3	Disposal of salvage Gypsum board / wooden False ceiling, GI frame as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 100/- per Sq.mtr.)	Sq.m	350		
4	Disposal of salvage MS Shed including acrylic sheet as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 250/- per Sq.m)	Sq.m	80		
5	Dismantling and Disposal of salvage RCC Slab including steel bars as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 250/- per Sq.m)	Sq.m	30		
6	Removing and Disposal of salvage toilet fitting & fixtures as per the reserved cost				
a)	WC (RP-Rs. 500/- Each)	Each	5		
b)	Wash basin (RP-Rs. 350/- Each)	Each	5		
c)	Basin mixture (RP-Rs. 350/- Each)	Each	5		
d)	Angle valve (RP-Rs. 100/- Each)	Each	10		
e)	Shower panel (RP-Rs. 2500/- Each)	Each	3		
f)	Towel Rack (RP-Rs. 100/- Each)	Each	3		
7	Dismantling and Disposal of salvage MS Gate as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 2500/- Each)	Each	2		
8	Dismantling and Disposal of salvage Canopy for main entry as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 1000/- Each)	Each	1		
9	Dismantling and Disposal of salvage Pota Cabin as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 1000/- Each)	Each	1		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
10	Disposal of salvage MS Trolley of size 1200 x 600 x 830(H) as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 750/- Each)	Each	1		
11	Disposal of salvage MS Box of size 900 x 600 x 800(H) as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 750/- Each)	Each	1		
12	Dismantling and Disposal of salvage MS Gate of size 900 x 1800(H) as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 750/- Each)	Each	1		
13	Dismantling and Disposal of salvage window of size 3000 x 2400 as per the reserved cost including removal all complete as per the directions of Architect (RP- Rs. 1250/- Each)	Each	4		
B	ELECTRICAL WORKS :-				
1	Disposal of salvage light fixture incandescent / PL light fixtures / halogens and other fittings as per the reserved cost				
a	1 No 6 Amp Switch, Socket (RP-Rs. 20/- Each)	Each	6		
b	1 No 16Amp Switch, Socket (RP-Rs. 30/- Each)	Each	6		
c	One 6A, 5 pin socket controlled by one 6A Switch(RP-Rs. 25/- Each)	Each	40		
d	Key Card switch (RP-Rs. 50/- Each)	Each	5		
e	RG-6 TV (RP-Rs. 35/- Each)	Each	5		
f	6" x 6" light fixture (RP-Rs. 100/- Each)	Each	108		
g	CFL Down lighter 15 Watt (RP-Rs. 75/- Each)	Each	275		
h	5m Per R.mtr LED Strip (RP-Rs. 50/- Each)	R.Mtr	126		
i	12W LED spot light (RP-Rs. 50/- Each)	Each	2		
j	Mirror lights (RP-Rs. 50/- Each)	Each	198		
k	T-5 light as per (RP-Rs. 50/- Each)	Each	10		
l	Ceiling speakers (RP-Rs. 150/- Each)	Each	34		
m	CCTV Camera (RP-Rs. 350/- Each)	Each	1		
n	6" Inline Exhaust Fan (RP-Rs. 150/- Each)	Each	50		
o	Surface mounted outdoor lights (RP-Rs. 50/- Each)	Each	16		
2	Disposal of salvage Electrical main panel complete as per the reserved cost including removal all complete as per the directions of Architect (RP-Rs. 1,00,000/- Each)	Each	1		
3	Disposal of salvage Cable tray as per the reserved cost including removal all complete as per the directions of Architect (RP-Rs. 45/- R.mtr)	R.Mtr	10		

S NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C	FIRE FIGHTING WORKS :-				
1	Disposal of salvage heat / smoke detector including wiring complete as per the reserved cost including removal all complete as per the directions of Architect (RP – Rs. 100/- Each)	Each	52		
2	Disposal of salvage Sprinkler as per the reserved cost including removal all complete as per the directions of Architect (RP – Rs. 100/- Each)	Each	75		
	TOTAL				
	NOTE :-				
	The site and premise to be cleared of all dismantled serviceable / unserviceable material i.e. disposal of all dismantled materials / fixtures and debris / garbage material beyond existing IIBF's premises including all leads and lifts etc. complete in all respect. Disposal / rubbish to be disposal well.				