



**Bank of Baroda,  
Facilities Management Dept., 5<sup>th</sup> floor, Baroda Bhavan, Alkapuri, Vadodara.**

**SUB: NOTICE INVITING TENDER FOR CIVIL, INTERIOR FURNISHING, ELECTRICAL, HVAC, FIREFIGHTING, CCTV & ALLIED WORKS ON 10TH FLOOR, BANK OF BARODA, BIFC TOWER, SEZ, GIFT CITY, GANDHINAGAR, GUJARAT**

**Common Set of Conditions / Corrigendum No. 2 dt. 08.10.2022**

- 1.0 All common set of conditions/ Corrigendum No. 2, Corrigendum No. 1, technical bid and revised price bid (copy attached) shall form part of tender i.e. contract agreement. The same shall be sealed and signed as acceptance of those conditions without any modifications and submit the same along with the tender bid. Non acceptance of the common set of conditions/ Corrigendum by the bidder or adding any other condition shall be treated as conditional tender and price bid of such tenderers shall not be opened.
  - 2.0 The bidders have to submit "Unconditional Tenders" since all the queries have been clarified. Conditional bids / Tender is liable to be rejected. Other terms and conditions of the tender remain unchanged.
  - 3.0 Last Date of submission of Tender shall be **14.10.2022 @ 1500 hrs.**
  - 4.0 **Contractor have to submit:**
    - a) All common set of conditions/ Corrigendum 2., Corrigendum No. 1 and technical bid in **Envelop-1**
    - b) Revised Price bid (copy attached) in **Envelop-2.**
- In case of non-submission of Corrigendum 2, Corrigendum No. 1, technical bid and revised Price Bid (copy attached), tender submitted by bidder shall be treated as conditional tender and shall not be considered for further evaluation.
- 5.0 The technical bid shall be opened on **14.10.2022 @ 1530 hrs.** in the presence of authorized representatives of the tenderers.
  - 6.0 The Price bid will be opened at later date, of those firms/ contractors/ agencies, who fulfill the requirements / criteria put in the tender document.
  - 7.0 All bidders are advised to consider the above points while submitting the Price bids.
  - 8.0 The above shall be complementary in contents with the existing terms and conditions of the tender except otherwise explicitly superseded. Other terms and conditions of the tender shall remain unchanged.

Place: Vadodara  
Date: 08.10.2022

Sd/-  
Chief Manager  
(FM Dept.)

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
<b>A</b>	<b>FURNITURE / CIVIL WORK</b>					
	<b>PARTITION /PANELLING</b>					
	Measurement of height shall be taken from finished floor level up to the level of ceiling, in case of varying heights on either side of partition, average height shall considered. The rate include Provision of extra frame work as necessary for skirting and making cut-outs for electrical switch plates, switch boxes, light fittings light etc. making provision for laying conduit as per drawings & directions. All plywood to be applied 1 coat of wood preservative with anti termite compound.					
1	<b>FULL HEIGHT SOILD PARTITION</b>					
a	Providing and Fixing of full height wooden partition made of 2 MM thick Aluminium tube frame The sections are placed @ 600 MM x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor & ceiling with suitable aluminium angles and fastened with steel screws.Frame size 50MM x 50 MM with 12 MM thick BWR Ply with glass wool for sound insulation need to close properly and 1mm thk. High Gloss Laminate/ Laminate in approved colour,design, shape and size, including all exposed surface with teak lipping 6mm thk as required and instructed by Architect including Anti Termite Treatment.Complete in all respect and satisfacation of Architect/Bank's Engineer.Rate shall include cost of making of all cut-outs for light fixtures, switchboards gadgets, gizmo, pelmets, grooves, beads cut out as per EIC instruction at site.	304.00	Sq. m.			
b	Extra over the above items-Providing and fixing High glossy Laminate Basic (Rate Rs 1300/- per sq.m.) on above partition.	30.00	Sq. m.			
c	Extra over the above items- providing and fixing 4mm thick veneer with PU finish instead of laminate for complete work.	60.00	Sq. m.			
d	<b>12mm thick coloured Interior grade MDF plain / texture with polishing :</b> " -----DO ----- as per above item No : 1 a - using 12mm thick coloured Interior grade MDF plain / texture with polishing for panelling work , as per the detailed drawing CNC cutting work / Engraving , with ICA water based PU spray polish as per approved by Architect/Client. The rate shall be for all floors, at all heights, all shapes including all costs.	30.00	Sq. m.			
e	<b>Coloured lacqured glass panelling :</b> " -----DO ----- as per above item No : 1 a - using 6 mm thick coloured lacqured glass panelling on frame work for panelling work , as per the detailed drawing CNC cutting work / Engraving , with ICA water based PU spray polish as per approved by Architect/Client. The rate shall be for all floors, at all heights, all shapes including all costs.	6.00	Sq. m.			
2	<b>LOW HEIGHT PARTITION</b>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
a	<p>Providing and Fixing of low height wooden partition (up to 4'-0" to 5'-0" height or as per site required condition as architct drawing) made of 2 MM thick Aluminium tube frame The sections are placed @ 600 x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor with suitable aluminium angles and fastened with steel screws.Frame size 50 x 50 MM with 12 MM thick BWR Ply with 1mm thk.High Gloss Laminate/ Laminate as per approved colour,design, shape and size,includng 100mm/80MMX12 mm Acrylic Soild Surface thermoformed on top , vertical face and Teak wood lipping 6mm thk as required to be provided at every exposed section of ply inculding Anti Termite Treatment.Complete in all respect and satisfacation,instructed by Architect/Engg. Rate shall include cost of making of all cut-outs for light fixtures, switchboards gadgets, gizmo, grooves, as per EIC instruction at site.</p>	140.00	Sq. m.			
b	<p>Half height partition with glass : " -----DO ----- as per above item No : 2 a - using 6mm thick coloured lacqured toughened glass for complete work.</p>	10.00	Sq. m.			
c	<p>Soft Board : Providing and fixing on wall approved quality soft board with cotton cloth/fabric of approved make and shade on 8mm thick BWR Ply with 19mm x 25 mm thick Ghana teak wood beading all around including ICA waterbased PU spray polish, as approved sample and as directed by Architect/Client. The work shall be measured &amp; paid in Sqm. for all floors, all level and at all heights including all costs . The rate shall be inclusive of lacquer polish to all the exposed wooden members. Only the clear elevation area of the cloth/fabric shall be measured and paid.</p>	11.00	Sq. m.			
3	<p><b>LOW HEIGHT PARTITION FOR OVEL SHAPE SEATING</b></p>					
	<p>Providing and Fixing of low height wooden partition (up to 4'-0" to 6'-0" height) made of 2 MM thick Aluminium tube frame The sections are placed @ 600 MM x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor with suitable aluminium angles and fastened with steel screws.Frame size 50 x 50 MM with 9 MM thick flexible Ply with 1mm thk.High Gloss Laminate/ Laminate as per approved colour,design, shape and size,includng 100mm/80MMX12 mm Acrylic Soild Surface thermoformed on top ,vertical face and Teak wood lipping 6mm thk as required to be provided at every exposed section of ply inculding Anti Termite Treatment.Complete in all respect and satisfacation,instructed by Architect/Engg.Rate shall include cost of making of all cut-outs for light fixtures, switchboards gadgets, gizmo, pelmets, grooves, beads cut out as per EIC instruction at site.</p>	75.00	Sq. m.			
4	<p><b>FULL HEIGHT WOODEN GLAZED PARTITION</b></p>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
a	Providing and Fixing of full height wooden glazed partition made of 2 MM thick Aluminium tube frame The sections are placed @ 600 MM x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor & ceiling with suitable aluminium angles and fastened with steel screws.Frame size 50 MM x 50 MM with 12 MM thick BWR Ply with 1mm thk. Laminate/High Gloss Laminate in approved colour,design, shape and size, & 12mm thick toughned glass panel fixed upto 8'-0"ht. as per design given by architect with S.S clit/brackets,joints to be filled with matching silicon complete, as required and instructed by Architect and teak wood door frame in between the partition. including Anti Termite Treatment.Complete in all respect and satisfication of Architect/Engg.Rate shall include cost of making of all cut-outs for light fixtures, switchboards gadgets, gizmo, groovesas per EIC instruction at site.	95.00	Sq. m.			
b	<b>FRAMING WORK FOR PARTION ABOVE CEILING</b>					
	-same as item no 4 a for above ceiling- Providing & fixing partition with acoustic treatment (With glass wool for sound insulation need to close properly) ,aluminum support for all partitions between false ceiling to RCC ceiling etc. complete as per direction.	225.00	Sq. m.			
5	<b>TOUGHENED GLASS FIX PARTITION - CABIN FRONT</b>					
a	Providing & fixing 12mm toughened fixed glass partition upto the false ceiling height. The glass fixed with S.S channel inserted in floor and fixed to wooden member in the false ceiling/partition with s.s clits/bracket. The size of glass to be bigger in width. The edges of glass to be polished and if joints are needed the joints to be filed with matching silicon complete.	207.00	Sq. m.			
b	<b>FULL HT.CURVED TOUGHENED GLASS PARTITION FOR DEALING ROOM</b>					
	Curved Glass for dealing room-Providing & fixing 12mm toughened curved glass partition . The glass fixed in solid 3" thk. 6" to 9" flexible plywood patta and fixed in solid 3" thk. 18" to 24" flexible plywood patta/partition with s.s clits/bracket. all the fitting shall be S.S 304 grade. The size of glass to be bigger in width. The edges of glass to be polished and if joints are needed the joints to be filed with matching silicon complete.	130.00	Sq. mt.			
c	<b>CURVED TOUGHENED GLASS FIX PARTITION</b>					
	Providing & fixing 12mm toughened glass fixed on above the table top 6" flexible plywood patta . The glass fixed in curve plywood patta with groove and fixed with SS brackets. The size of glass to be bigger in width. The edges of glass to be polished and if joints are needed the joints to be filed with matching silicon complete.	35.00	Sq. m.			
6	<b>WALL &amp; COLUMN PANELING</b>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
a	Providing and Fixing of <b>wooden Panelling</b> of wall and column made of 2 MM thick Aluminium tube frame The sections are placed @ 600 mm x 600 mm C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor & ceiling with suitable aluminium angles and fastened with steel screws.Frame size 25mm x 50 mm with 9 mm thick BWR Ply with 1mm thk.High gloss Laminate/ Laminate in approved colour,design, shape and size, including Anti Termite Treatment.Complete in all respect and satisfaction of Architect/Bank's Engineer.Rate shall include cost of making of all cut-outs for light fixtures, switchboards gadgets, gizmo, grooves as per EIC instruction at site.	345.00	Sq. m.			
b	<b>EXTRA 6MM LACQUERED GLASS</b>					
	Providing & fixing 6mm thick colour lacquered glass to be fixed on existing ply, lacquered glass is pasted or fixed with SS studs/adhesive with grooves and edge polish as per details complete. Extra over above item no 6 a and for paneling, partition etc	40.00	Sq. m.			
c	<b>EXTRA ACRYLIC SOILD SURFACE</b>					
	Providing & fixing 6mm thick 100% Acrylic Soild Surface thermoformed to be fixed on existing ply,paneling, partition,side unit and table top etc. Acrylic Soild Surface is pasted or fixed with SS studs with grooves and edge polish as per details complete with buffing. Acrylic Soild Surface thermoformed surfaces to be buffered.Architect/EIC shall finalize the same in one or two colours.	40.00	Sq. m.			
d	Providing & fixing <b>12mm thick</b> 100% Acrylic Soild Surface thermoformed to be fixed on existing ply,side unit,partition top and faces and table top etc. Acrylic Soild Surface is pasted or fixed with SS studs with grooves and edge polish as per details complete with buffing. Acrylic Soild Surface thermoformed surfaces to be buffered.Architect/EIC shall finalize the same in one or two colours.	60.00	Sq. m.			
e	<b>FABRIC PANELLING</b>					
	Providing & fixing Fabric Panel on Acoustical Paneling for conference room on perforated panels made of a high density particle board , The back of the perforated panel shall have sound absorbing non-woven acoustical fleece. Providing and fixing Synth of 10mm thick on the acoustical panel high density particle board by using adhesive as per specifications of manufacturer.Supplying and laying FR grade fabric then cut into required size and shape.and stretched, inserted inside the gripper by using tools recommended by manufacturer. Rate shall include cost of making of all cut-outs for light fixtures, switchboards gadgets, gizmo, pelmets, grooves, beads cut out as per EIC instruction at site. Panelling item including openable shutter wherever required area and finish with the same material.	40.00	Sq. m.			
f	Providing and fixing powder coated Aluminum Skirting of 100mm high on partition/panellin and wall made of 1.0 to 1.5mm thick aluminum sheet.The skirting projection from installed surface of 5.1 mm approx and powder coating thickness 50-70 microns.skirting capping strip flexible PVC and end caps of skirting in hard pvc.skirting installation by screw fixing.	50.00	RMT			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
g	<b>VENEER PANELLING</b>					
	Providing and Fixing of wooden Panelling of wall and column made of 2 MM thick Aluminium tube frame The sections are placed @ 600 mm x 600 mm C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor & ceiling with suitable aluminium angles and fastened with steel screws.Frame size 25 mm x 50 mm with 9 mm thick BWR Ply with 4 mm veneer in two or more colours approved colour,design, shape and size, including Skirting and Anti Termite Treatment.Complete in all respect and satisfaction of Architect/Engg.. the panelling to be polished with MF P.U Matt finish after preparing base as per manufacturer's specifications. Rate shall include cost of making of all cut-outs for light fixtures, switchboards gadgets, gizmo, grooves as per EIC instruction at site.	20.00	Sq.m.			
h	Same as item no 6 a- providing and fixing Charcol sheet instead of laminate on paneling	80.00	Sq.m.			
7	<b>DECORATIVE FILM ON GLASS</b>					
a	<b>FILM</b> :- Providing and fixing of 3M film Digital colour Printed as per design on toughened glass in cabins door etc. complete as per direction.	100.00	Sq. m.			
b	Providing & Fixing up of Sun Control window film of Garware/ 3M in required sizes having the following specification: Reflective Silver if used 1/8 inch clear glass following parameter should be fulfilled Thickness-02 mil(50 microns)Visible light transmittance-16% Visible light reflectance- 65% Solar Energy Transmittance 15%; Solar Energy reflectance-58%; Solar Energy Absorbance- 27%; Ultraviolet transmittance < 2%; Glare reduction - 82%; Shading coefficient 0.25 Emissivity-0.66; U Factor(BTU/hr./Sq.ft.)-1.03 Total Solar Energy rejection- 78% Complete job to be carried out as per the specification and direction of Engineer-in-charge.	360.00	Sq. m.			
8	<b>DOORS</b>					
a	Providing and fixing frame less patch fitting Single/Double door for with 12mm thick toughened & etched Glass (As per approved design & name/logo) with frame less glass fittings & two way floor springs . The item includes providing and fixing S.S. handle 400mm long on both side of glass, locks and fittings as per the manufacturer's specifications. complete to the satisfaction of Architect/Bank's Engg	48.00	Sq. m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
b	<p>Single Leaf Flush Door with frame and finish with laminate :Providing and fixing in position 40 mm thick solid core wooden single leaf flush doors of approved make having waterproof ply facing on both sides and finished with 1 mm thick laminate as approved , Hardware system of ( Hinges , Consealed door closer , Door handle ,lock , Door stopper ) . work complete including all type of hardware, fittings , fixtures and teak wood door frame 75 x 50 mm finish with matching polish, including frame ply covering with laminate finish as per instruction of Client/ Architect/PMC etc complete as per detailed drawings and specifications. sample mock shall be approved from Architect/Client. The item includes Item includes all following items / finishes: hardware such as 4 nos. 125mm SS hinges, SS tower bolts,Door Closer,glass vision panelMortise Locks with SS handles.</p>	25.00	Sq. m.			
9	<p>Acoustic door- Providing and fixing solid wooden doors in the Classroom. The door frame shall be made from 150 mm x 100 mm teak wood section as per details given in the drawings. The 75mm thick shutter frame shall consist of 45 mm x 150 mm wide top rail &amp; bottom rail and Lock rail of 45 mm x 200 mm . It shall consist of 45 mm x150 mm wide vertical rails / Jambs. It shall have an infill of 32mm x 45 mm Horizontal Teak Wood one number vertical member and Five Horizontal member at Equal Distance. Gaps between shall be infill with 50 mm thk. Fiber glass wool slabs having 24Kg./Cu.M. Density. 12mm BWP marine plywood with 4mm thick natural veneer fixed on it with Adhesive on the both side and 200mm dia Glass view in the door. The shutter shall be anchored with 25mm x 80 mm Teak wood beading all around. All exposed wooden members and Veneer shall be finished in first quality melamine polish after staining of approved shade,complete as per instructions given by the consultant / EIC. Rate shall be inclusive of consealed door closer and all major / minor civil &amp; repair work required to be carried out in order to execute the aforesaid item.</p>	5.80	Sq. m.			
10	<b>CARPET TILES FLOORING</b>					
	<p>Providing and Laying 100 % Nylon Multilevel loop pile Carpet Tiles of shade approved make as per make list, in 18oz Quality having 100 % solution dyed, of 1/12th gauge having pile thickness of 3mm total thickness 6.5mm. Plt should be antimicrobial and with soil/stain protection. Tile size 50cm x 50cm and tile backing should be of glass bac having minimum 32 % recycle content includingminimum 30 % post consumer content. Product should comply with CRI Green lable plus standards. Floor carpet for inside Hall flooring which shall be free from dust completed as per Architect instruction anddesign/approval.</p>	1350.00	Sq. m.			
11	<b>False Ceiling:</b>					
	<p>Suspending system and frame work shall match to complimentthe layout of A.C. Ducts / grills, electrical / fire protection wiring / fixtures, Return /supply Air grills etc. Rate to include provision of extra frame work needed due to layout referred above and fixtures etc. Rates to include necessary scaffolding and all.</p>					
a	<b>GYPSUM BOARD FALSE CEILING</b>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<p>Providing &amp; fixing Gypsum Board False ceiling with Saint Gobain "ULTRA" Main ceiling sections at 1200 c/c &amp; Cross members at 450 c/c. The grid work to be suspended from ceiling with Hangers at every 1200 c/c both directions, as per manufacturer's specifications. False ceiling is finished with 12.5 mm thk. to be screwed to the frame. The board is finished with filling the tapered edges of the board with jointing compound and finishing with PAPER tape of INDIA GYPSUM. The ceiling is finished with acrylic Emulsion Paint including base as per approved manufacturer. The item includes all necessary cut outs for electrical / air conditioning grills and necessary frame work for them.</p>	900.00	Sq. m.			
b	<b>ARMSTRONG FIBRE SUSPENDED CEILING (GRID)</b>					
	<p>ARMSTRONG CEILING :- Providing &amp; Fixing of Armstrong Mineral Fibre Suspended Ceiling System with Dune RH 99 (Bevelled Tegular) Edge Tiles with Armstrong 15mm exposed GRID. Size-600x600x16mm. The tiles should have Humidity Resistance (RH) of 99%, NRC 0.5, Light Reflectance 83%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0/Class 1 (BS 476 Part 6 &amp; 7), in module size of 600x600 x 16mm with Anti Microbial coating on the face of the tile, suitable for Green Building application, with Recycled content of 39%. The tile shall be laid on Armstrong Suprafine XL 38 with 15MM wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner &amp; 1200 mm Cross Tees with a web height of 38mm and a load carrying capacity of 14Kgs/M2 &amp; minimum pull out strength of 100Kgs. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system of Armstrong make. INSTALLATION: To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using Armstrong suspension system (specifications below) at 1200mm maximum centre. The First/Last Armstrong suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall.</p>	1100.00	Sq. m.			
	<p>Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600mm x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200mm cross tees. Perimeter trim to be Armstrong wall angles of size 3000mmx19mmx19mm, secured to walls at 450 mm maximum centres. Installation to be carried out by Armstrong Trained Installation team &amp; Installation should be carried out as per Armstrong recommended procedure. <b>ARMSTRONG SUSPENSION SYSTEM</b> accessories manufactured and supplied by Armstrong World Industries consisting of M6 Anchor Fasteners with Vertical Hangers made of Galvanised steel of size 26 x 26 x 25 x 1.2mm with a Galvanised Thickness of 80gsm, A pre tightened Hanger wire of dia - 2.5 mm of 1.8 m length., thickness of 80gsm and a tensile strength of 344-413 MPa, along with Adjustable hook clips of 0.8mm thick, galvanised spring steel for 2.68 mm with a minimum pull strength of 110 kg. The adjustable clip also consists of a 3.5 mm aquiline wire to be used with the main runner. (ARMSTRONG "DUNE RH 99 (Bevelled Tegular) EDGE TILES WITH ARMSTRONG 15mm Exposed" SYSTEM)</p>					
c	<b>TRAP DOOR</b>					



Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	Providing & fixing trap doors or AC units made of 12mm BWR ply fixed to 25mmx50mm aluminium frame all around. The door such made to be hinged to additional aluminium frame of 25mmx50mm section fixed in false ceiling frame. The 12mm ply to be finished with 1.0mm laminate / as per architect suggestion of approved colour. Item includes all hardware such as hinges, bolts etc. complete.					
(i)	size 600 mm x 600 mm	4.00	Sq. m.			
(ii)	size 1200 mm x 1200 mm	4.00	Sq. m.			
d	Providing fixing installation of Flexible Ceiling including making frame by using 6 mm flexible ply , 12 mm BWR ply and betten LED light as per standard requirement. Complete including all respect.	15.00	Sq. m.			
e	Wooden ceiling finish with veneer: Providing and fixing 12 mm thick BWR plywood false ceiling as per drawing & instruction & sample approved (complete with frame work). finish with 4 mm thick veneer gurjan base ply ICA waterbased PU spray polish. Plywood shall be fixed with required fabrication work and ply frame work with all necessary accessories Rate shall include cost of making of all cutouts for light fixtures, gadgets, gizmo, pelmets, grooves, beads and also provide support/template where ever requiredThe rate shall be in sq.mt for all floors and at all heights including all costs the shop drawing (or a sample mock of 5 Sqm minimum of the frame work and ceiling) shall be approved from 5mm Groove shall be provided at the junction of the false ceiling & the wall. ( considering all levels with require all fabricataion work and fitting from RCC slab to false ceiling level)	30.00	Sq.m.			
12	<b>FURNITURE</b>					
a	CONFERENCE ROOM TABLE					
	CONFERENCE: Providing and fixing as per detail shape and size					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<p>table unit consist table with all required necessary accessories. Approx Table size : 2000x750x750mm As mentioned in layout plan</p> <p>1. ALL Top: 40-45 MM th top Made from 12mm thick Acrylic solid surface with round edge complete+ 12 MM th 303 BWR ply + 12 MM th 303 BWR ply mm + 4mm thick veneer gurjan base ply with . All top edges finish with Acrylic solid surface approved .</p> <p>2.Verticle support: As per detail drawing and reference image made 100 mm thk end support with 19 mm thk BWR ply with 4mm thick veneer veneer gurjan base ply including required teakwood frame and 50 mm thk intermediate support with 19 mm thk 303 BWR ply with 4 mm veneer and require teak wood cornice or 12mm thick Acrylic solid surface .</p> <p>3.Wire management : Rate inclusive of fixing As per approved and requirement of schocket and quantity Pop up tabletop electrical WIRE MANAGEMENT BOX .</p> <p>The work shall be done as per the approved shop drawing, specifications, sample approved and as directed by the Architect/Client . The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools &amp; tackles, adhesives consumable hardware &amp; required SS 304 grade hardware/accessories of approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this. The unit shall be manufactured in parts and these parts shall be assembled at site.Including finish with ICA water based PU spray selected by the engineer / Architect/Client in charge . (Table Top surface area shall only be considered for payment LxW)</p>	16.00	Sq. m.			
b	<b>MEETING ROOM TABLE</b>					
	<p>Providing and fixing as per detail shape and size table unit consist table with all required necessary accessories. Size Approx : 3650mm x 1100 mm</p> <p>Top: 35-40 MM thick top Made from 12 mm of corian + 12 MM th BWR ply +12mm th ply+ 1 mm thick laminate</p> <p>2.Verticle support/box- As per detail drawing and reference image made form 19 MM th 303 BWR ply boxing 75 mm wide with 1mm thick laminate. as per Architect/Client suggestion</p> <p>3.Wire management with race ways : Rate inclusive of fixing As per approved and requirement of schocket and quantity Pop up table top electrical WIRE MANAGEMENT BOX. The work shall be done as per the approved shop drawing , specifications, sample approved and as directed by the Architect /Client. The rate shall be for complete item inclusive of mock sample ,all material, labour, wastages, necessary tools &amp; tackles, adhesives consumable hardware &amp; required SS 304 grade hardware/accessories of approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this.</p>	5.00	Sq. m.			
c	<b>CENTER TABLE</b>					
	<p>Providing and fixing Center table made of 18-19mm BWR ply. The top finished with 12mm Acrylic Soild Surface thermoformed including all edges and the sides to be finished with 6 mm Acrylic Soild Surface thermoformed . as/ approved design. compete in all respect and instructed by Architect/Engg. Table size <b>900 mm x900 mm x450 mm</b></p>	4.00	No.			
d	<b>CORNER TABLE</b>					
	<p>Providing and fixing Corner table made of 18-19mm BWR ply top to be finished with 6mm Acrylic Soild Surface thermoformed inculding all edges and the sides to be finished with 6mm Acrylic Soild Surface thermoformed as/ approved design ; complete in all respect and instructed by Architect/Engg. Table size <b>500 mm x500 mm x450 mm</b></p>	10.00	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
e	<b>RECEPTION TABLE</b>					
	Providing and fixing May I help YOU Table in with 19mm BWR Ply /Board and 1.0 mm laminate in two or more shades. The Customer top, which is at 230 mm higher than working top, customer top & front to be finished in 12mm thk corian solid surface thermoformed and fixed over 12 mm BWR Ply with provision for LED strip in cove as per design & Details. The table size to be 1800 mm x750 mm x750 mm including drawers godrej multipurpose locks,Cpu Trolley etc Teak lipping to be provided at channels for key board,and drawers to be provided on L.H.S/R.H.S..every exposed section of board and ply, Sliding channels for key board,and drawers to be provided. complete in all respect.( As per Architectural drawing)	1.00	No.			
f	<b>DISPLAY CABINET</b>					
	Display cabinet in Reception area 380 mm deep in made of 18-19 mm BWR ply including openable shutters/glass shutter, 12 mm thk toughened glass for shelves and 12mm phenol bonded ply and 6mm phenol bonded ply with 1 mm designer laminate including all hardware , designer handles , hinges , locks, channels including painting and polishing from inside and all visible areas with white laminate of 1mm thick instead of polishing.Complete in all respect. including Anti Termite Treatment. All internal surfaces to be finished with white paint	10.78	Sq.m.			
g	<b>DINING TABLE</b>					
	Providing and fixing cafeteria 900 mm Dia Round or 750 mm x1200 mm rectangle tables (as decided by architect) with base structure made from 50mm SS round pipes and 6m SS strips. The top frame to be of 35 mm x35mm Square SS pipes. The table top to have 18mm BWR ply finished with 12mm thick acrylic solid surface thermoformed to give rounded edge complete. complete in all respect.( As per Architectural drawing) All bottom surface of table to be finished with white Paint.	10.00	No.			
h	<b>GM Table:-</b> Providing and fixing table unit consist main table with side storage ,back storage with pedestal unit with all necessary accessories keyboard (ebco Make), CPU stand ,cable manager, modesty panel etc with all required necessary accessories.Basic rate of 4mm thick veneer. Main table-2400 mmx1050mmx750mm Side/return table-1200mm x 550mm x 750mm Back storage-3900mm x400mm x900mm Pedestal unit-400x470x750					
	<p>1. Main Table Top: 45 MM thick top Made from 6mm thick corian + 19 MM th 303 BWR ply + 19 mm th 303 BWR ply+4mm thick veneer finish with Matt PU polish</p> <p>2.Main table front : As per detail drawing and reference image made form 19 mm th 303 BWR ply with 4mm thick veneer finish</p> <p>3.Verticle support: As per detail drawing and reference image made form 19 MM th 303 BWR ply boxing 150 mm wide with 4mm thick veneer gurjan base ply with require edge finish teak wood/SS as per Architect/Client suggestion</p> <p>Side storage: Storage body is made of 19mm 303 BWR ply with 4mm thick veneer finish and inner side 1 mm thick laminate finish,top 6mm thick corian including require nos of drawer and shutter all type of fittings , fixtures, hardware Hettich/Haffle make etc complete .SS 304 grade conceal handle shall be provide as per approved selection &amp;detailed drawing and instruction of Architect/Client/PMC .</p>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<p>4.Wire management: one way or two way open able flip top box mounted (Pop up box legrand make) on table top squeeze :A special flexible rubber component that allows easy and safe passage of wires</p> <p>5.BACK STORAGE: Storage body is made of 19mm 303 BWR ply with 4mm thick veneer finish ,top 6mm thick corian and inner side 1 mm thick laminate finish including require nos of drawer and shutter all type of fittings , fixtures, hardware Hettich/Haffle make etc complete .SS 304 grade conceal handle shall be provide as per approved selection &amp;detailed drawing and instruction of Architect/Client/PMC .</p> <p>6.Pedestal unit(400x470x545):Pedestal bodys made of 19mm 303 BWR ply with 4mm thick veneer finish and inner side 1 mm thick laminate finish including require nos of drawer with all type of fittings , fixtures, hardware Hettich/Haffle make etc complete .SS 304 grade conceal handle shall be provide as per approved selection &amp;detailed drawing and instruction of Architect/Client/PMC .</p> <p>The work shall be done as per the approved shop drawing (to be prepared by contractor), specifications, mockup sample approved and as directed by the Architect and Engineer-in-charge. The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools &amp; tackles, adhesives consumable hardware &amp; required SS 304 grade hardware/accessories of approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this. The unit shall be manufactured in parts and these parts shall be assembled at site.</p>	1.00	No.			
i	<p><b>DGM and AGM Table</b>-Providing and fixing table unit consist main table with side storage ,back storage with pedestal unit with all necessary accessories keyboard (Ebco Make), CPU stand ,cable manager, modesty panel etc with all required necessary accessories. (all Top-thickness-40 MM)</p> <p>Main table-2100x900x750 Side/return table-1100x400x750 Back storage-3500x400x900 Pedestal unit-400x470x750</p> <p>1. ALL Top: 40 MM th top Made from 19 mm 303 BWR ply + 12 mm 303 BWR ply with top 6 mm corian with give rounded edge complete,1mm thick laminate finish on both side.</p> <p>2.Main table front : As per detail drawing and reference image made form 19 mm th 303 BWR ply with with 1mm thick laminate finish.</p> <p>3.Verticle support: As per detail drawing and reference image made form 19 MM th 303 BWR ply boxing 150 mm wide with 1mm thick laminate with require edge finish teak wood/SS as per Architect/Client suggestion.</p> <p>4.Wire management: Rate inclusive of fixing As per approved and requirement of schocket and quantity Pop up tabletop electrical WIRE MANAGEMENT BOX .</p> <p>5.BACK STORAGE: Storage body is made of 19mm 303 BWR ply with top 6 mm corian,1mm thick laminate finish and inner side 1 mm thick laminate finish including require nos of drawer and shutter all type of fittings , fixtures, hardware approved make etc complete .SS 304 grade conceal handle shall be provide as per approved selection &amp;detailed drawing and instruction of Architect/Client.</p> <p>6.Pedestal unit(400x470x545):Pedestal bodys made of 19mm 303 BWR ply with 1mm thick laminate finish and inner side 1 mm thick laminate finish including require nos of</p>	2.00	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<p>drawer with all type of fittings , fixtures, hardware approved make etc complete .SS 304 grade conceal handle shall be provide as per approved selection &amp; detailed drawing and instruction of Architect/Client/PMC.</p> <p>The work shall be done as per the approved shop drawing , specifications, sample approved and as directed by the Architect/Client/PMC. The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools &amp; tackles, adhesives consumable hardware &amp; required SS 304 grade hardware/accessories of approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this.</p>					
j	<p><b>Executive dining Table</b>-Providing and fixing as per detail shape and size table unit consist table with all required necessary accessories.</p> <p>Table size :2400 x 1100 x 750mm</p> <p>1. ALL Top: 40-45 MM th top Made from 12mm thick Acrylic solid surface + 12 MM th 303 BWR ply + 12 MM th 303 BWR ply mm + 1mm thick laminate . All top edges finsih with Acrylic solid surface approved .</p> <p>2. Verticle support: As per detail drawing and reference image made 100 mm thk end support with 19 mm thk BWR ply with 1mm thick laminate and 50 mm thk intermediate support with 19 mm thk 303 BWR ply with 1mm thick laminate ...</p> <p>The work shall be done as per the approved shop drawing, specifications, sample approved and as directed by the Architect/Client . The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools &amp; tackles, adhesives consumable hardware &amp; required SS 304 grade hardware/accessories of approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this. The unit shall be manufactured in parts and these parts shall be assembled at site.Including finish with ICA water based PU spray selected by the engineer / Architect/Client in charge .</p>	1.00	No.			
k	<b>Research room table</b>					
	<p>Providing and fixing 900 mm Dia Round tables with base structure made from 50mm SS round pipes and 6m SS strips. The top frame to be of 35x35mm Square SS pipes. The table top to have 18mm BWR ply finished with 6mm thick acrylic surface thermoformed to give rounded edge complete. complete in all respect. ( As per Architectural drawing) All bottom surface of table to be finished with white 1.0mm laminate.</p>	2.00	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
l	<p><b>Visitor cabin Discussion Table</b>-Providing and fixing as per detail shape and size table unit consist table with all required necessary accessories.                      Table size :1800mm x 750mm x 750mm                      1. ALL Top: 25-30 MM th top Made from 6mm thick Acrylic solid surface with give rounded edge complete + 19 MM th 303 BWR ply mm + 1mm thick laminate . All top edges finsh with Acrylic solid surface approved .                      2.Verticle support: As per detail drawing and reference image made 100 mm thk end support with 19 mm thk BWR ply with 1mm thick laminate and 50 mm thk intermidiate support with 19 mm thk 303 BWR ply with 1mm thick laminate ...                      The work shall be done as per the approved shop drawing, specifications, sample approved and as directed by the Architect/Client . The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools &amp; tackles, adhesives consumable hardware &amp; required SS 304 grade hardware/accessories of approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this. The unit shall be manufactured in parts and these parts shall be assembled at site.Including finish with ICA water based PU spray selected by the engineer / Architect/Client in charge .</p>	2.0	No.			
m	<p><b>Dealing room Curve Shape Table</b></p>					
	<p>Providing and fixing curve shape table unit with pedestal unit with all necessary accessories ebco keyboard, CPU stand ,cable manager, modesty panel etc with all required necessary accessories.                      Main curve shape table -L =as required x W=600mmx H=750 mm As per layout plan and detail given by Architect                      1. Main Table Top: 50-55 MM thick top Made from 12mm thick corian + 19 MM th 303 BWR ply + 19 mm th 303 BWR ply+4mm thick veneer finish with Matt PU polish                      2.Main table front : As per detail drawing and reference image made form 19 mm th 303 BWR ply with 4mm thick veneer finish                      3.Verticle support: As per detail drawing and reference image made form 19 MM th 303 BWR ply boxing 150 mm wide with 4mm thick veneer gurjan base ply with require edge finish teak wood/SS as per Architect/Client suggestion.                      4.Wire management: 2 nos. S.S. squre cable manager on each table (Total 60 nos.)                      5.Pedestal unit(400 mmx450mmX750mm):Pedestal bodys made of 19mm 303 BWR ply with 4mm thick veneer finish and inner side 1 mm thick laminate finish including require nos of drawer with all type of fittings , fixtures, hardware Hettich/Haffle make etc complete .SS 304 grade conceal handle shall be provide as per approved selection &amp;detailed drawing and instruction of Architect/Client/PMC .                      The work shall be done as per the approved shop drawing (to be prepared by contractor), specifications, mockup sample approved and as directed by the Architect and Engineer-in-charge. The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools &amp; tackles, adhesives consumable hardware &amp; required SS 304 grade hardware/accessories of approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this. The unit shall be manufactured in parts and these parts shall be assembled at site.</p>	45	RMT			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
n	<b>Sofa</b>					
	Providing and fixing sofa as per Description below : The basic structure of sofa shall be made of solid wood members with flat spring and 12mm thick commercial ply and wooden frame. It shall be made out of 100mm thick PU foam of 32 densities in seat and back in 75mm thick rubber foam with 25mm thick high density PU foam rounded as per design with approved 48" to 54" wide upholstery fabric of Rs 600/- per meter complete as per design and instructions from engineer-in-charge.	20.00	RMT			
o	<b>Book rack</b>					
	Providing and fixing Book rack as per detail drawing/Shape and Size as per ref image and instruction of Architect /Client. Storage body is made of 35mm thick MDF interior grade finish with both side 1 mm thick laminate . The back of the unit is made from 9mm prelaminated board. Shelves: 35 mm thick MDF interior grade finish with both side 1 mm thick laminate. All the exposed edges are with 2mm PVC egde Imported banding & sealed edges are with 0.8mm thick PVC Imported edge banding. The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools & tackles, approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this. The unit shall be manufactured in parts and these parts shall be assembled at site. Front elevation area shall be measured for payment.	4.00	Sq.m.			
p	<b>False Flooring</b>					
13	<b>Modular Furniture</b>					
	Providing & fixing false flooring upto 300mm height made of Metallic Cementious tile with anti static high pressure laminate on top of size 600 mm x600mm x 33 mm with supporting systems as per manufacturers specification (contractor has to provide manufacturers specification & test report for the material of work above) for UDL 1350 Kg and point load of 450 kg. alongwith suitable ramp to connect false floor with normal floor with M-floor / Kebao make as approved by Engineer-in-Charge( contractor has to provide one no. double cup panel lifter for future maintenance)	35.00	Sq. m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
a	<p><b>CUBICAL HEAD TABLE:</b> Supply and installation of Table (1800mm X 750mm X 750mm) + Side Return Unit 1050-1200 mmX 450 mm X 750 mm + Pedestal Drawer Unit + Metal Keyboard Tray 19" with Mouse Pad (ebco make) and Metal CPU Trolley completely made up of particle board conforming to IS : 12823 Interior Grade with post formed finish. Table Top are with 25mm thk boards with post formation on 2 sides and 2mm PVC edge banding with enhanced scratch resistance supported on 25mm thk. Gable ends and 18mm thk Modesty panels. exposed edges are in 2mm thk PVC edge banding &amp; sealed edges are in 0.8mm thk PVC edge banding. Separate provision for mounting switches below the table adjoining the tables shall be made by customer as the tables do not come with switch mounting facility. Wire routing / wire management gromets (Patented Squeezee) shall be provided on main or side table as specified by customer. Key board Tray Metal 19" with mouse pad + Metal CPU Trolley</p>					
	<p>SIDE RETURN UNIT:- 1050- 1200(w) mm x 450(D)mm x750(H)mm : completely made up of particle board conforming to IS : 12823 Interior Grade with PVC edge banding. Top is in 25mmthk baord with 2mm post formation on 2 sides and 2mm PVC edge banding supported on 25mm thk. Gable ends and 18mm thk. Modesty panel.Having sliding shutter for storage. Exposed edges are in 2mm thk PVC edge banding &amp; sealed edges are in 0.8mm thk PVC edge banding. Separate provision for mounting switches on the wall adjoining the tables shall be made by customer as the tables do not come with switch mounting facility.</p> <p>PEDESTAL DRAWER UNIT:- The Pedestal Unit of Dimensions 400mm W x 470 mm D x675mm H is made of 18mm thick pre laminated partical Board conforming to IS : 12823Interior Grade. All the exposed edges are sealed with 2mm thick PVC Imported edge banding on sides and bottom. The top and drawer facia are sealed with 2mm thick PVC edge. The drawer unit consists of 2 box drawer and 1 file drawer. The sides of Inside drawer box are of prelam particle board. The drawer box is fitted with roller Slide for freemovement. The drawer unit is provided with seprate locking system, where in the three drawer are locked with one key.PVC recessed handles are provided for easy opening and closing of drawer. PVC edge banding are imported from Rehau or Dolken of Germany. The complete furniture unit is factory assembled with knock down fittings. The pedestal is fitted with additional (5th) castor to avoid topplig of pedestal in case of opening of any / all of the 3drawers.</p>	12	No.			
b	<p><b>WORKSTATION -LINEAR TYPE (1350 x 600 mm)</b></p>					
	<p>Manufacture, supply and Installation in position 'Linear' shape unit as directed Modular workstation comprising of partitions, work surface, gable end.Linear work station will be module of sittings both side/one side As per layout plan attached . the end of the linear work station to have partition as specified above. also the leaner work station to have 10 mm toughened glass parttion/ divider in frame. (Laminate-Century, Green ,Royal Touch)</p> <p>SIZE :- (1350 (L) x 600 (W) x 750mm /1200mm (H)</p>					




Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<p>Panel based Partitions :-Vertical partition members made of aluminium extrusion alloy of minimum 60mmx60 mm size having thickness of min 1.2mm for vertical members and that of 1.00mm thick for horizontal members duly finished with powder coating in desired shade/colour. Both the faces of vertical partition to be finished with laminate/fabric panels. Top caps of partition shall be slightly curved/flat shape of aluminium alloy duly finished with powder coating in desired shade/colour. The partition should have the raceways for carrying voice and data wire and power cable, which should be separate from each other in the panel.(power switch should be above table). The panel above the work surface should be on tackable board with fabric panels. The height of partition shall be of min. 1200mm. All partition should have the provision of level adjuster to adjust the height of + 10mm. All metal components will be finished with powder coated in desired shade/colour. 100mm high metal skirting.</p> <p>1200mm min. high partition thick panel based systems 1200mm(HT).Base shall be formed as approved powder coating on aluminium &amp; fabric panel. Workstation along corridor / Passage.</p> <p>1200mm min. high partition with laminate finish below the worktop, fabric above work top towards Inside and Outside of Workstation in return partition / handshake Only end to end of workstation.</p> <p>Work Top:- Worktop shall be of 25mm thick pre-laminated particle board with 2mm thick PVC edge banding finish with as per approved laminate colour.</p> <p>Work top shall have 2mm PVC edging of approved make quality shade and colour on exposed area and 1mm on covered area.</p> <p>The top shall be supported with suitable M.S. bracket of standard size made of CRCA sheet of minimum 2mm thick Grade D as per IS 513 with powder coated finish of approved colour.</p> <p>Powder coating will be in Epoxy powder coating will be minimum 50 micron.</p> <p>Gable Ends shall be of 25mm thick pre-laminated particle board with 2mm thick PVC edge banding finish with as per approved laminate color.</p> <p>Gable end Bracket will be of minimum 2.0mm thick CRCA steel Grade D as per IS 513 with metal insert</p> <p>Round Wire manager for wire management of dia 60-70mm shall be finished same as per table top.</p> <p>the leaner work station to have 10 mm toughened glass partition/ divider in frame.</p> <p>KEY BOARD TRAY WITH MOUSE PAD &amp; CPU TROLLEY (Ebc make)</p> <p>3 Drawer pedestal with levellers :- Pre-laminated 3Drawer Pedestal (2D+1F) 400Lx450Dx685Ht. Carcass &amp; Facia made up of 18mm thick Pre-laminated particle board. Back Panel from 9mm PPB. All exposed edges are sealed with 2mm thick PVC edgeband &amp; Non-exposed edges with 0.8mm thick PVC edge-band</p>	70	No.			
c	<p><b>WORKSTATION -L- TYPE L=(1500x1500)x W=600 mm</b> Same as item no 13 b -for L shape L=1500mmx1500mm ,W= 600 mm (Refer layout plan)</p>	40	No.			
14	<b>STORAGE</b>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
a	<p>Providing and fixing Storage cabinet 380mm deep and 750/1200 mm high length as/deign as shown in details with all sides, shelves to be 18-19 mm thk. BWR ply with 12mm BWR ply to be fixed at the back finished with 0.8mm laminate. The shutters to be 18-19mm BWR ply, with 1mm laminate. All internal surfaces to have 0.8m laminate but the top surface finished with 6mm Acrylic Soild Surface thermoformed at edges in front side 25mm thk. All edges of sides, shelves and shutters to have 2mm PVC Edge binding tape as per details, complete including S.S. long handles, self closing hinges, locks, etc. complete to the satisfaction of Architect /Bank's Engg. (Only front elevation to be considered for area calculation)</p>	30.00	Sq. m.			
b	<p>Providing and fixing Storage cabinet 450mm deep and 2400mm/up to false ceiling high length as/deign as shown in details with all sides, shelves to be 18-19 mm thk. BWR ply with 12mm BWR ply to be fixed at the back. The shutters to be 18-19mm BWR ply, with 1.0 mm laminate. All internal surfaces to have 0.8m laminate. All edges of sides, shelves and shutters to have 2mm PVC Edge binding tape as per details, complete including S.S. long handles, self closing hinges, locks, etc. complete to the satisfaction of Architect /Bank's Engg. Only front elevation to be considered for area calculation.</p>	25.00	Sq. m.			
15	<b>ROLLER BLIND</b>					
	<p>Providing &amp; fixing roller blinds comprising of polymer coated fibre fabric with minimum openness factor of 3% as per AS standards. The fabric shall be fire retardant and have high heat reflection ratios. The roller mechanism shall be a moulded unit made from engineering grade plastic polymer with steel spring support. The fabric shall be finished on the sides with edge tape duly welded for waviness control. The fabric shall be attached to the roller tube with high quality self adhesive tape. Average width of blinds shall be 2000mm and fall of 3000mm with manual operation.</p> <p>Headrail: shall be .812" high x 2" deep extruded aluminum headrail with a wall thickness of 0.045" and painted to coordinate with fabric color.</p> <p>Cord lock: shall be a snap-in design of injection-molded thermoplastic incorporating a metal, free-floating, serrated cord-locking roller.</p> <p>Lift cord: shall be 1.2mm polyester and concealed for a clean appearance. A snap tassel and joiner ball connect to a single Danskord for raising and lowering the shade. Cord, tassel and joiner ball are color coordinated with fabric.</p> <p>Installation: Bracket shall be low profile, hidden snap-in design made of 0.025" zinc-plated spring steel.</p> <p>Bottomrail: shall be 0.375" high x 2" deep extruded aluminum with a wall thickness of 0.045" and painted to coordinate with fabric color.</p>	350	Sq. m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<p>Fabrication Shades shall be fabricated according to specifications and accurate to tolerance established by SWF engineering standards</p> <p>Make: Hunter douglas/ Roselle/winfab/vista .</p>					
b	<p>Providing and fixing 300mm height and 150mm width "U' shape pelmet made of 18mm thk. Bwr ply finished with 1mm thk laminate. IS 303, every section fixed wooden margin supported from Rcc slab /beam soffits by Ms Flat Gi wire at 1.0mt c/c spacing as approved complete in all respect as per detail and as Instructed by Architect/Engg.</p>	130.00	RMT			
c	<p>Providing &amp; fixing and pasting Wall paper as per design &amp; details. The item includes making base by applying oil base primer including surface preparation and all to get a uniform smooth surface. (base Price Rs 150/sqft) The fixed area of wall paper shall be considered for payment and not the area of procured material.</p>	60.00	Sq. m.			
16	<b>Miscellaneous Work</b>					
a	<p>Providing and fixing BANK OF BARODA Back light LED with logo in hindi &amp; English in SS Plate 304grade 16gauge as per Bank's Instructions. Height of the letters should be 7"-8" The Plate to be fixed on Wall/Glass/Paneling with SS spacers as per details Complete.</p>	1.00	No.			
b	<p>Providing &amp; fixing decorative wall Paintings in wooden frames on wall as approved of base prize Rs. 3000-3500/- each (Size 300/450 to 600/900)</p>	10.0	No.			
c	<p>Providing and fixing world map 8 mm thk acrylic sheet on existing paneling/partition of wall as per the detailed drawing CNC cutting work / Engraving /colour approved by EIC</p>	4.00	Sq. m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
d	Providing and fixing notice boards with 19mm BWR Ply sides with 1.0mm laminate finish and 8mm clear glass Shutters fixed on pivots. The back to have 6mm thk BWR Ply and 12mm soft board covered with cloth of approved shade. Item includes all hardware such as push catcher, lock for glass shutters etc complete including polishing the teak surfaces. Size 1200x600mm & 150deep	1.00	No.			
e	Providing & fixing ready made Pin up boards with 12mm celotex boards 600mmx 900 mm with suitable cloth on top, board is fixed with aluminum frame complete with polish.	3.00	No.			
f	Providing and fixing of 8-9mm thick Laminated wooden flooring/skirting with a surface abrasion resistance of class AC4, with 0.2mm thick wear layer on top of a High Density Fibre substrate core of plank having uniline locking arrangement with an made of Armstrong natural colour foam, with accessories like Skirting, end profile, door profile, transition profile, reducer etc. complete. Make-ARMSTRONG/ AMBIENCE PLUS/ PERGO/vista. Length and breadth of superficial areas of the finished work shall be measured for payment.	75	Sq.m.			
g	Providing and fixing PANTRY/TOILOET Mirror on wall with 6mm thick clear glass mirror with bevelled edge fixed over 6mm water proof ply finished in teak wood moulding 2"x1". The moulding to be finished in melamine polish (complete as per the direction of Engineer-in-charge)	3.00	Sq.m.			
h	Providing and fixing Flower pot size 12"x12" made by 12 mm BWR ply finish with 6mm thk corian..All Acrylic Soild Surface thermoformed surfaces to be buffered.as/design and specification	10.00	No.			
i	Providing and fixing Flower pot size 15"x15" made by 12 mm BWR ply finish with 6mm thk corian..All Acrylic Soild Surface thermoformed surfaces to be buffered.as/design and specification	8.00	No.			
j	Planter type 2 : Providing and fixing 12mm thk BWR ply finish with 6mm Acrylic Soild Surface Flower planter 12" wide 12" height & lenth as required as/design and instruction.	6.00	RMT			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
k	SS Dustbin 12" dia 1'-3" height	20.00	No.			
l	LED Signage with aluminium frame for Department (Approx Size 100mmx 450mm) Reference image 	20.00	No.			
m	Providing and making provision of Drinking Water & fixing storage type water cooler, Bluestar/voltas, stainless steel front panel, C.P. brass push cock, inlet float valve with all plumbing and electrical accessories, inlet, outlet, overflow & PVC drain out connection to floor drain. Cooling capacity 80 litres	1.00	No.			
17	Brick work with 2nd class good quality brick in 1:5 cement mortar (1 cement: 5 c.sand) including racking out of joints, scaffolding, making provision for opening in walls for switches, water lines, watering, curing etc. complete as directed by the Architect/Engineer incharge. Item to also include, all accessories, men material for a lift up to 10th floor in the building for materials, pre-application preparation cleaning after the finish etc. complete.	10.00	Cu. m.			
18	Providing 15mm thick <b>Cement Plaster</b> in single coat on brick/concrete wall for interior plastering at various floor level as below, finished even and smooth including application of rough backing coat of cement mortar 1:4 with trowel finish as direction. complete as directed by the Architect/Engineer incharge. Item to also include, all accessories, men material for a lift up to 10th floor in the building for materials, pre-application preparation cleaning after the finish etc. complete.	30.00	Sq. m.			
19	Providing M-10 (1: 3 : 6) Grade Lean Concrete complete all respect under the floor tiles. complete as directed by the Architect/Engineer incharge. Item to also include, all accessories, men material for a lift up to 10th floor in the building for materials, pre-application preparation cleaning after the finish etc. complete.	270.00	Cu.m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
20	Providing & laying 125/150mm thick IPS floor with required slope finished with cement mortar 1:4 (1 cement :4 sand) with neat cement slurry, curing etc. including making junction vata etc. complete as per direction.	2.00	Cu. m.			
21	<b>Flooring :-</b>					
a	Providing and laying 10-12mm thick Vitrified tiles of (600x600 ) Johnson /Somany/kajaria make or approved equivalent and of approved shade of size as per drawing in floors over 20mm (average) base of cement mortar 1:4 ( 1 cement :4 coarse sand) required thickness to match finished floor level mentioned with cement pest /chemical and to match the neighboring floor finish and jointed with epoxy grout of approved shade from as/existing or equivalent brand all complete as directed complete. Rate to include forming pattern in the flooring like border, skirting, cut tiles, Protecting of the tile till hand over date by Polypropylene 2 mm Floor Protection ., etc complete in all respect. complete as directed by the Architect/Engineer incharge. Item to also include, all accessories, men material for a lead/ lift up to 10TH floor in the building for materials, pre-application preparation cleaning after the finish etc. complete.	1620.00	Sq. m.			
b	<b>Flooring :-</b> Providing and laying 10-12 mm thick Vitrified tiles of (1200x600 ) Johnson /Somany/kajaria make or approved equivalent and of approved shade of size as per drawing in floors over 20mm (average) base of cement mortar 1:4 ( 1 cement :4 coarse sand) required thickness to match finished floor level mentioned with cement pest /chemical and to match the neighboring floor finish and jointed with epoxy grout of approved shade from as/existing or equivalent brand all complete as directed complete. Rate to include forming pattern in the flooring like border, skirting, cut tiles, Protecting of the tile till hand over date by Polypropylene 2 mm Floor Protection ., etc complete in all respect. complete as directed by the Architect/Engineer incharge. Item to also include, all accessories, men material for a lead/ lift up to 10TH floor in the building for materials, pre-application preparation cleaning after the finish etc. complete.	80.00	Sq. m.			
c	Providing and fixing 300x600 ceramic tiles dado on walls in two or more colours as per design in toilets and kitchen. The tiles to be fixed with white cement on the base plaster. The joints in the tile to be filled with white cement mixed in colour pigment to match the colour of tiles. (Base rate of Vitrified tiles Rs.600/- per Sq.mt ).(complete as per the direction of Engineer Incharge)	10.00	Sq. m.			
d	Providing and fixing 300x600 ceramic tiles dado on floor two or more colours as per design in toilets and kitchen. The tiles to be fixed with white cement on the base plaster. The joints in the tile to be filled with white cement mixed in colour pigment to match the colour of tiles. (Base rate of Vitrified tiles Rs. 800/- per Sq.mt ).(complete as per the direction of Engineer Incharge)	10.00	Sq. m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
22	Providing and fixing 0.80 meter wide sand which type platform including supplying and fixing granite stone 18 mm thick mirror polished Granite stone in top and side position and vertical strip at front over 25 mm thick polished kota stone platform fixing in top and sides and intermediates supports fixing with cement mortar using cementitious Adhesive Materials as per EIC and adhesive jointed with Matching epoxy grout finishing. including making recess for Kitchen/Laboratory sink etc. rubbing, polishing, Moulding/Rounding of edges complete as approved drawing and directed by engineer incharge (Useing maximum Size i.e in one piece ) in wash basin /Pantry counter.Incl. all accessories, men material for a lift up to 10th floor in the building for materials, pre-application preparation cleaning after the finish etc. complete. as instructed by Architect/Engg. (base rate of granite 250/Sft)	8.00	Sq. m.			
23	Applying general insecticide pest control treatment with 5 years guarantee for carrying out floor treatment including spraying with chemical solution in oil base including labour and material etc. complete.	1700.00	Sq. m.			
24	Providing and doing <b>core cutting in RCC slab/Beam</b> at given location as per architectural instructions including necessary tools and machinaries, scaffolding, watering, rate also included carting away the debris from site time to time or disposing the material as directed and specified by the Architect					
I)	100 MM	3.00	No.			
II)	150 MM	3.00	No.			
III)	200 MM	3.00	No.			
<b>25</b>	<b>PAINT WORK</b>					
a	<b>PLASTIC ACRYLIC EMULSION PAINT</b>					
	Providing and applying three coats of pre-approved Plastic acrylic emulsion paint to walls, partitions etc. including surface preparation with two coats of putty, primer and sanding all complete. With the necessary drying periods for each coat. The final finish should be of a uniform and neat finish to the satisfaction of the Architect. Cost to include for all heights and surfaces , complete in all respect (Low VOC contain paint)	1500.00	Sq. m.			
b	<b>PLASTER OF PARIS (POP)</b>					
	Providing and applying plaster of paris (super fine quality) punning with minimum thickness of 6mm and finish the surface smooth in line and also making groove, level to the entire satisfaction of Architect including scraping and hacking the existing finished surfaces, scaffolding etc. complete in all respect	10.00	Sq. m.			
c	<b>ENAMEL PAINT</b>					
	Painting two coats of enamel paint (Asian/BERGER ) including scrubbing, sand paper, making base applying primer etc complete in all respect in , grills etc.complete in all respect	10.00	Sq. m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
d	providing and fixing 2mm thick pvc sheet at joints of glazing and slab.The sheet to be properly fixed with slab and glazing structure with proper adesive and properly finish.complete in all respect.	60.00	Sq. m.			
26	<b>PLUMBING WORK FOR PANTRY/TOILET</b>					
a	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :wash basin of size 610x500mm. Parryware Code C8418	2.00	No.			
b	Providing & fixing following size approved quality CP brass Bottle trap connection pipe upto the wall and wall flanges including jointing with white zinc and spun yarn & testing the joints for leak proofness etc. complete.					
i)	32 mm dia	2.00	No.			
ii)	40mm dia	2.00	No.			
c	Providing & fixing following size, approved quality CP brass Waste coupling with brass check nuts conforming to IS 2963, including jointing with white zinc and spun yarn and testing the joints for leak proofness all complete.	3.00	No.			
d	Providing and fixing brass bib cock of approved quality: (Jaguar Model Florentine)					
	15 mm nominal bore	3.00	No.			
e	Angle Cock Jaguar Florentine	3.00	No.			
f	Master stop cock Jaquar/ Hindware/Grohe make, heavy duty	2.00	No.			
g	Providing, fixing, testing and commissioning of PVC angle valve with PVC wall flange, Nut and Washer etc. complete as required.					
i)	15 mm dia	2.00	No.			



Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
ii)	25 mm dia	2.00	No.			
h	Providing and fixnig liquid soap dispenser JAGUAR (CAN-1135N soap dispenser glass bottle) including fixing to the wall with wooden cleats and CP brass screws, cutting walls and making good the same, (complete as per the direction of Engineer-in-charge)	2.00	No.			
i	Pantry Sink Nirali /elegant make in 610mmx510 bowl depth without Drain.	1.00	No.			
<b>WATER LINE</b>						
j	CPVC 15 mm nominal outer dia Pipes including socket, T, L-Bow complete all respects	20.00	RMT			
k	CPVC 19/20 mm nominal outer dia Pipes including socket, T, L-Bow complete all respects	15.00	RMT			
l	CPVC 25 mm nominal outer dia Pipes including socket, T, L-Bow complete all respects	30.00	RMT			
<b>DRAINAGE</b>						
m	Providing and fixing UPVC soil pipes conforming to IS:1729 on walls including filling the joints with specialised jointing solutions and fixed with G.I. clamps embedded in cement concrete blocks 100x100x100 of 1:2:4 (1 cement :2 coarse san:4 stone aggregate) including cutting holes and making good the walls etc. item includes Providing and fixing UPVC pipes specials such as door bend, horn bend, plain bend, cowls, sockets, door "T", "Y" and 'T' junctions(both single and double etc. including fixing with cement jute admixture complete as directed					
i)	For 100mm pipes	10.00	RMT			
ii)	For 150mm pipes	5.00	RMT			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
iii)	For 75mm pipes	20.00	RMT			
	For 50mm pipes	30.00	RMT			
n	Providing and fixing in position 75 mm N.B. CI. Nahni traps of self cleaning design including 125 mm dia CP grating, joining, embedding in concrete etc. complete. Rate to include making of opening in floor, marble / tiles, for fixing grating.	3.00	No.			
o	C.P. towel ring:- Providing & fixing 15 mm dia C.P. towel ring for wash hand basin of approved make etc. complete.as approved by Architect/Engineer-in-charge, Item to include screws, rollplugs and all fixing accessories,installed complete. Item to be completed in all respects as per drawings & instructions from Project- in- charge/Architect.	5.00	No.			
p	C.P.Toilet paper holder:-Providing & fixing C.P.Toilet paper holder of approved make continental range as perinstructions of engineer in charge etc. complete as approved by Architect/Engineer-incharge. Item to include screws, rollplug and all fixing accessories,installed complete.Item to be completed in all respects as per drawings & instructions from Project-incharge/Architect.	5.00	No.			
<b>27</b>	<b>CHAIRS</b>					
a	Cabin Officers Chair PCH 7000 (GODREJ),MHB Premium series(Methodex), Bodyline HBG (featherlite) Eurocaustic, Amardeep or as approved by Bank Basic Rate Rs 15000/-	6.00	No.			
b	Lunch area chairs Café-01 ( Methodex) , Staq (GODREJ),Magna without Castor (CP)(featherlite) Eurocaustic, Amardeep or as approved by Bank Basic Rate - Rs 5000/-	28.00	No.			
b	Chiar for executive Lunch Room (Basic Rate - Rs 5000/-)	8.00	No.			
	<b>TOTAL AMOUNT FOR FURNITURE / CIVIL WORK</b>					
<b>2</b>	<b>FIRE FIGHTING WORKS</b>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
<b>AUTOMATIC SPRINKLER SYSTEM:</b>						
1.0	Providing, fixing, testing and commisioning of M.S. black steel heavy duty (Class `C`) pipes (IS:1239 Part-I), and fitting like flanges (MS steel flanges at every 15 M length and as required) tees, elbows, bends, Junctions, Reducers, union, adaptor, rubber gasket, GI NUT Bolt, Washe etc; clamps / structural steel supports hangers of required design as required/directed at site including cutting & making good the walls, RCC work etc including painting the exposed pipes with 2 coats of desired shade of enamel over a coat of primer and signages. Pipe upto 50mm dia will be with threaded joint using Teflon tape. Joint for pipe and fitting above 50mm dia shall be welded joint with approved fitting.					
a)	25 mm dia	200.00	RMT			
b)	32 mm dia	105.00	RMT			
c)	40 mm dia	80.00	RMT			
d)	50 mm dia	80.00	RMT			
e)	65 mm dia	78.00	RMT			
f)	80 mm dia	50.00	RMT			
g)	100 mm dia	50.00	RMT			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
h)	150 mm dia	20.00	RMT			
2.0	Providing, fixing, testing and commissioning 15mm dia, Quartzoid bulb type G.M. Sprinkler Head (Pendent/Upright/Conventional, as required) (UL/FM/LPC listed/ Approved chrome plated quick response type.					
a)	Set to operate at 68°C pendent	270.00	No.			
3.0	Providing, fixing, testing and commissioning 15mm dia, quartzoid bulb type G.M. Chrome plated side wall, sprinkler head set to operate at 68°C (UL/FM/LPC listed/Approved) quick response type.					
a)	Side wall	26.00	No.			
4.0	Providing, fixing, testing and commissioning UL Listed S.S. Braided Flexible pipe for sprinkler drop complete with flare nuts on both end with washer and supporting rods and clamps 25mm dia upto 1.5 Mtr. Long.	270	No.			
5.0	Supply and installing clean agent modular ceiling mounted Fire Extinguisher CE certified fire extinguisher filled with HFC 236FA clean agent gas complete in all respects including all fittings.(In server room)					
a)	5 Kgs.	6.00	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
6.0	Supply and installing clean agent(stored pressure)type Fire Extinguisher ISI marked IS :15683 filled with HFC 236FA clean agent gas, Complete with squeeze grip release valve , locking arrangement, pressure gauge, operation manual and bracket. Complete in all respects. Operating temperature 0 deg C to + 55 deg C.( <b>outside server &amp; electrical room.</b> )					
a)	4 Kgs.	6.00	No.			
7.0	Supply and installing clean agent(stored pressure)type Fire Extinguisher ISI marked IS :15683 filled with HFC 236FA clean agent gas, Complete with squeeze grip release valve , locking arrangement, pressure gauge, operation manual and bracket. Complete in all respects. Operating temperature 0 deg C to + 55 deg C.					
a)	2 Kgs.	6.00	No.			
2	<b>TOTAL AMOUNT FOR FIRE FIGHTING WORKS</b>					
Note :	<b>Approval of fire hydrant and sprinkler system from local fire authority at initial and various stages of works including preparation of report./ drawings as per local fire authority contractor shall include cost of all liaison works which are not explicitly mentioned above but are mandatory to have fire authority approval.(Any Statutory Charges shall be re-imbursed by the owner as actual upon submission of receipt / documantry proof.</b>					
3	<b>Electrical work</b>					
A)	<b>MV PANEL BOARDS</b>					
	Design, fabrication, loading, unloading at store, installaton, testing & commissioning as directed by Engineer-in-Charge, of LT Panels fabricated out of <b>2mm thick</b> for structural members (Load bearing members) and 1.6mm thick for door and covers (Non load bearing members) CRCA sheet in cubicle compartmentalize free standing floor mounted, dust and vermin proof with reinforcement of suitable size angle iron, channel 'T' irons and / or flats wherever necessary, <b>16 gauge CRCA</b> sheet steel shall be used for final distribution panels. Cable gland plates shall be provided on top as well as at the bottom of the panels. Panels shall be treated with all anticorrosive process before painting as per specifications with 2 coats of zinc chromate primer and final approved shade of enamelled paint. 2 Nos. earthing terminals shall be provided for all distribution panels. Panels shall be suitable for 415V, 3-phase, 4-wire, 50Hz supply system and with 15% spare space, lifting hooks shall also be provided in case of large panels. Panel must be BMS/FAS Compatible.					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	Approval shall be taken for each panel before fabrication. Galvanized hardwares with zinc passivation shall be used in fabrication of panels.					
	<b>General Notes:</b>					
1	<b>MCCB:</b> MCCBs shall be used with Thermal Magnetic Based releases upto 250A and microprocessor based Over Load, Short Circuit / Earth Fault release.					
2	Breaking capacity mentioned is lcs value.					
3	This BOQ to be read in conjunction with technical specifications and Single Line Diagram (attached for reference). If any discrepancy occurs that should be brought to the notice of Client/Consultant before quoting the price otherwise stringent condition will be deemed to have been considered.					
4	All MCCBs shall be provided with rotary operating handle and ON/OFF lamps.					
5	All meters shall be digital type (unless otherwise specified) with RS 485 Port.					
6	All Incoming and outgoing breaker must have provision of Potential free contacts for BMS/FAS.					
7	All MCBs shall be motor duty type.					
8	All current/voltage transformer shall be cast resin type.					
9	All indicating lamps shall be LED type.					
10	Current density for CU. bus bars shall not be more than 1.6A/Sqmm. Rating of Bus bar is after considering all derating factors. (Bus bar sizing calculation to be submitted for approval.)					
11	All internal control wiring shall be heat resistant type.					
12	All TP feeders shall be provided with Isolable neutral link.					
13	Bus bar chamber & cable entry both shall be provided at top only.					
14	All feeders shall be provided with door interlocked with door defeat, pad lock facility.					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
15	Live parts shall not be accessible after opening the door, Transparent acrylic sheet to be provided to cover the same.					
16	Spare contacts of MCCBs / Relay / Contactor shall be wired upto terminal block.					
17	20% spare control terminal to be provided.					
18	All incoming/outgoing cables shall be terminated on links/terminals.					
1	<b>MAIN PANEL :</b>					
	Supply,Installation, testing & commissioning of compartmentalized Fabricated type powder coated Power & Lighting Distribution boards as per Drawing, Specification. The unit rate shall include loading/unloading, shifting from site store to the place of installation, assembling the Panel including mounting & wiring of loose parts by manufacturers, interconnection of shipping sections, installation on readymade Cable trench (provided support for panel mounting) or directly on floor, assembling of loose accessories supplied by the manufacturer, wiring & connection of auxiliary circuits, installation, testing & commissioning of all Panel, interlocking and supply of all necessary hardware. Aligning, levelling, grouting, testing and setting of relays and meters including all hardware. ( 400Amp Cu Busbar 100% Neutral)					
	INCOMER :--					
	1No. 400Amp. FP MCCB (36KA) with rotary handle, sperader link , on-off, trip indicator...					
	1 No. digital Multifunction Meter for measurement with all pera meters, RS-485 port, BMS compitible with selector Push button and one set of CTs of ratio 400A/5A, CL 1.0, 15VA (ELF 3259 of Conserv or Equivalent)	1	No.			
	400AMP. FP ATS FOR FULL LOAD DG CAPACITY :--01					
	250AMP. FP ATS FOR CRITICAL LOAD DG :--01 NO.					
	OUTGOING :--					
	125AMP. FP MCCB :--03 NO.					
	63AMP. FP MCCB :-- 12 NO.					
	32AMP. FP MCCB :-- 06 NO.					
	APFC relay system with 8 step Relay with 2No. 15 KVAR APP heavy duty capcitor,2No.10KVAR capacitor & 2No.5 KVAR capacitor with auto-manual switch,push-button,capacitor duty contactor,25-32amp. TP MCB :--06 No.with control wiring etc as per IS norms.					
	<b>Busbar</b>					
	400A FP COPPER busbar of short circuit withstand capacity 36 kA. Bus bar shall be insulated with heat shrinkable sleeves and shall be color coded.					
1.01	UPS PANEL :					
	<b>Incomer</b>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	2 Nos. 160A, 4P MCCB 36KA , with rotary handle, sperader link , on-off, trip indicator...					
	1 No. digital Multifunction Meter for measurement of voltage and current with selector Push button and one set of CTs of ratio 125A/5A, CL 1.0, 15VA (ELF 3259 of Conserv or Equivalent)	2	No.			
	<b>Busbar</b>					
	160A <b>FP COPPER</b> busbar of short circuit withstand capacity 36 kA. Bus bar shall be insulated with heat shrinkable sleeves and shall be color coded.					
	<b>Outgoing</b>					
	3Nos. 63A 4P MCCB.					
	2 Nos. 40/63A DP MCB.					
	<b>TOTAL CARRIED OVER TO SUMMARY (For A)</b>					
<b>B)</b>	<b>MV CABLES</b>					
1	Supplying, Laying, testing & commissioning of the following sizes of XLPE Al. Conductor armoured cables of 1.1KV grade on the surface of wall or on existing cable trays complete with hangers, properclamps fixing hardware etc. as required					
a)	3.5 C x 185 Sq. mm Al. Cable	75	m.			
b)	3.5 C x 70 Sq. mm Al. Cable	50	m.			
c)	4 C x 50 Sq. mm Al. Cable	75	m.			
d)	4 C x 35 Sq. mm Al. Cable	50	m.			
e)	4 C x 25 Sq. mm Al. Cable	50	m.			
f)	4 C x 16 Sq. mm COPPER Cable	150	m.			
g)	4 C x 10 Sq. mm Cu. Cable	150	m.			
h)	4 C x 6 Sq. mm Cu. Cable	150	m.			



Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
i)	4 x 16 sqmm Copper Wire with conduit ( For, UPS input )	50	m.			
2	Suppling, making, testing & commissioning of end termination with brass mettalic double compression glands suitable for the following sizes of XLPE Al. conductor arnoured cables including proper sizes of copper thimbles etc. as required.					
a)	3.5 C x 185 Sq. mm Al. Cable	4	No.			
b)	3.5 C x 70 Sq. mm Al. Cable	4	No.			
c)	4 C x 50 Sq. mm Al. Cable	6	No.			
d)	4 C x 35 Sq. mm Al. Cable	8	No.			
e)	4 C x 25 Sq. mm Al. Cable	4	No.			
f)	4 C x 16 Sq. mm COPPER Cable	12	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
g)	4 C x 10 Sq. mm Cu. Cable	10	No.			
h)	4 C x 6 Sq. mm Cu. Cable	16	No.			
i)	4 x 16 sqmm Copper Wire with conduit	4	No.			
3	Supply and installation of following sizes of perforated GI cable tray made cut of 2 mm thick GI sheet, suspended from the ceiling or fixed on wall/column etc complete with suspenders, runners and fixing hard ware etc. as required.					
a)	50 mm x 300mm x 50 mm	100	m.			
b)	50 mm x 150 mm x 50 mm	75	m.			
4	Fabricating supplying to site of installation, in floor including chase cutting of floor,leveling, refilling and making good the same from 1.6 mm thick and 2 mm thick cover pregalvanised MS CRCA sheet, totally enclosed, height 40 mm . The two lengths of raceways shall be fitted with Collars , 50 mm wide, 3 mm thick , press fit type. The raceways shall be clamped to the floor slab with GI clamps , 3mm thick and shall be screwed to the floor slab. The joint between raceway and junction box will be made with GI flexible strip( 3 nos), 3 mm thick, 4 inches long ,15 mm wide which will be nut bolted to the Junction box complete as required etc.					
a)	50MM X 38MM x1.6 MM	80	m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
b)	100MM X 38MM x1.6 MM	150	m			
c)	150MM X 38MM x1.6 MM	150	m			
d)	300MM X 38MM x1.6 MM	250	m			
5	<p>Fabricating supplying to site of installation, Junction boxes for Floor and Ceiling raceways made from 2 mm thick , with 2.5 mm thick GI cover including providing neoprene gaskets between the cover and the junction box, cadmium plated flat/round head screws, height as per site condition,totally enclosed. Proper cutouts shall be made in the side walls for raceway entry wherever required. The junction box shall be all side walls should be welded except top cover and all side walls shall have suitable size of rectangular knock out holes for taking raceways / conduits as required and not a complete cut out. The top cover should be sealed with M Seal to make it dust and water proof complete as required etc.</p>					
c)	150MM X 150MM x 60-75 MM	25	No.			
d)	250MM X 250MM x 60-75 MM	25	No.			
e)	350MM X 350MM x 60-75 MM	35	No.			
6	<p>Supply and installation of SS 304 grade 2 to 2.5mm thick SS floor plate on junction box 400mm x 400 mm with champhered edges</p>	35	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
7	Supply and installation of SS 304 grade 2 to 2.5mm thick SS floor plate on junction box 300mm x 300 mm with chamfered edges	25	No.			
8	Supply and installation of SS 304 grade 2 to 2.5mm thick SS floor plate on junction box 200mm x 200 mm with chamfered edges	25	No.			
9	100x50MM PVC trunking with end cap and coplar Supply & Fixing.	45	m			
<b>TOTAL CARRIED OVER TO SUMMARY (For B)</b>						
<b>C)</b>	<b>SAFETY EQUIPMENTS</b>					
1	Supplying & fixing of Rubber matting of 12 mm thick, 1 Mtrs wide suitable for voltage of 1.1 KV etc. as required.	10	Sq.m.			
2	Supplying & fixing of Shock treatment chart printed in atleast three languages i.e. Hindi, English and a local language fitted in wooden frame and glass at front side and hard board at back side etc. as required.	1	No.			
3	Providing & fixing of MV / HV Danger Notice Plate of 200 mm x 150 mm ,made of mild steel at least 2mm thick and vitreous enameled, white on both side & with inscription in signal red colour on front side as required.	2	No.			
4	Supplying and fixing of carbon dioxide type fire extinguisher 4.5 kgs. capacity of approved make with wall mounting bracket (Push type) as required conforming to IS: 15683-2006 (Latest ammended) .	2	No.			
<b>TOTAL CARRIED OVER TO SUMMARY (For C)</b>						

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
D)	<b>DISTRIBUTION BOARDS</b>					
	Supplying, installation, testing & commissioning of following type wall mounted Horizontal TPN/SPN distribution board of double door type design made out of MS sheet with supplying and fixing following accessories including painting, interconnections, painting, earthing and labeling etc. as required.					
1	12 WAY TPN DB (LDB/PDB/ACDB/UPSOUTPUT DB)	6	Set			
	<b>Incoming</b>					
a)	63Amp TPN MCB (10KA) - 1 No					
	63Amp DP RCCB (30mA) - 3 Nos					
	<b>Outgoing</b>					
a)	10/16/20/25 Amp SP MCB (10KA) - 30 Nos					
	Neutral links - 3 Nos (Separate for each phase)					
2	8 WAY TPN DB	2	Set			
	<b>Incoming</b>					
a)	63Amp TPN MCB (10KA) - 1 No					
	63Amp DP RCCB (30mA) - 3 Nos					
	<b>Outgoing</b>					
a)	10/16/20/25 Amp SP MCB (10KA) - 18 Nos					
	Neutral links - 3 Nos (Separate for each phase)					
3	6 WAY TPN DB	2	Set			
	<b>Incoming</b>					
a)	63Amp TPN MCB (10KA) - 1 No					
b)	63Amp DP RCCB (30mA) - 3 Nos					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<b>Outgoing</b>					
a)	10/16/20/25 Amp SP MCB (10KA) - 12 Nos					
b)	Neutral links - 3 Nos					
	(Separate for each phase)					
4	400 Amp. 4 P ,50 KA MCCB & 16 SWG Fabricated Powder Coated Box As per Required Approx Size ( 1200H x 600W x 600D ) With 400 Amp Cu Busbar Rotery Handale With Spredar set.	2	No.			
5	125 Amp. 4 P ,25KA MCCB with Box for UPS	4	No.			
<b>TOTAL CARRIED OVER TO SUMMARY (For D)</b>						
<b>E)</b>	<b>POINT WIRING</b>					
1	Wiring for switch controlled Light Point with 3 x 1.5 Sq. mm PVC insulated FRLS multistrand copper conductor 1100 Volt grade wires in <b>recessed/surface MMS FRLS PVC conduit</b> with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting and including the cost of supplying and fixing a 6 Amp 240 Volt grid plate mounted switch with moulded cover plate in zinc chromate passivated MS box, and costing circuit wiring with 3 x 2.5sq. mm 1100 volt grade PVC insulated FRLS Multistrand copper conductor wires, in PVC conduit complete as per specifications and as required.					
(i)	Primary Point	75	No.			
(ii)	Secondary Point	50	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
2	Wiring for MCB controlled Light Point with 3 x 1.5 Sq. mm PVC insulated FRLS multistrand copper conductor 1100 Volt grade wires in <b>recessed/surface MMS FRLS PVC conduit</b> with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting.					
(i)	Primary Point	40	No.			
(ii)	Secondary Point	125	No.,			
3	Wiring for 5 pin 6 A Light plug point with 3 x 1.5 Sq.mm PVC insulated FRLS multistrand copper conductor 1100 Volt grade wires in <b>recessed/surface MMS FRLS PVC conduit</b> with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting & filling chases for recessed conduiting, including the cost of providing & fixing 1 No. Modular type 3 pin 6 A socket outlet controlled by 6 A switch in zinc chromate passivated MS box, and circuit wiring with 3 x 2.5 sq mm complete as per specifications and as required.	50	No.			
4	Wiring for 3 nos. 5 pin 6 A Light plug point below table, controled by 16 A Switch on table top with 3 x 2.5 Sq.mm PVC insulated FRLS multistrand copper conductor 1100 Volt grade wires in <b>recessed/surface MMS FRLS PVC conduit</b> with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting & filling chases for recessed conduiting, including the cost of providing & fixing 1 No. Modular type 3nos.5 pin 6 A socket outlet controlled by 6 A switch in zinc chromate passivated MS box, and circuit wiring with 3 x 2.5 sq mm complete as per specifications and as required.	250	No.			
5	Wiring for following. 16 A Socket controlled by 1 No. 16A Switch with 3 x 2.5 Sq. mm PVC insulated FRLS multi strand copper conductor 1100 Volt grade wires in <b>recessed/surface MMS FRLS PVC conduit</b> with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting chases for recessed conduiting, including the cost of providing & fixing 1 No. Modular type 20 A socket outlet controlled by 1 No. 6 A switch in zinc chromate passivated MS box, complete as per specification and as required.	15	No.,			
6	Wiring for following. 2 Nos. 5 pin 6 A Power plug point controlled by 1 No. 16A Switch with 3 x 2.5 Sq. mm PVC insulated FRLS multi strand copper conductor 1100 Volt grade wires in <b>recessed/surface MMS FRLS PVC conduit</b> with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting chases for recessed conduiting, in zinc chromate passivated MS box, complete as per specification and as required.	150	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
7	Wiring for ceiling/wall fan Point with 3 x 1.5 Sq. mm PVC insulated FRLS multi strand copper conductor 1100 Volt grade wires in surface / recessed, PVC conduit with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting and including the cost of supplying and fixing a 6 Amp 240 Volt grid plate mounted switch & 300W electronic regulator with moulded cover plate in zinc chromate passivated MS box, and including the cost of circuit wiring with 3 x 2.5sq. mm 1100 volt grade PVC insulated FRLS multi strand copper conductor wire, inPVC conduit complete as per specifications and as required.	10	No.			
8	Wiring for exhaust fan Point with 3 x 1.5 Sq. mm PVC insulated FRLS multi strand copper conductor 1100 Volt grade wires in surface / recessed PVC conduit with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for <b>recessed/surface MMS FRLS PVC conduit</b> and including the cost of supplying and fixing a 6 Amp 240 Volt grid plate mounted switch with moulded cover plate in zinc chromate passivated MS box, and including the cost of circuit wiring with 3 x 2.5sq. mm 1100 volt grade PVC insulated FRLS multi strand copper conductor wire, complete as per specifications and as required.	6	No.			
9	Wiring for 16A Single Phase metal clad socket outlet with 3 x 2.5 sqmm PVC insulated FRLS multistrand copper wire of 1100 volt grade in <b>recessed/surface MMS FRLS PVC conduit</b> with accessories including supply and fixing 16A 3 pin metal clad plug and socket and 16A SP MCB (MD) in IP 44 Poly carbonate box complete as per specification and as required.	2	No.			
10	Wiring for 20A Single Phase metal clad socket outlet with 2 x 4 + 1 x 2.5 sqmm PVC insulated FRLS multistrand copper wire of 1100 volt grade in <b>recessed/surface heavy duty FRLS PVC conduit</b> with accessories including supply and fixing 20A 3pin metal clad plug and socket and 20A SP MCB (MD) in IP 44 Poly carbonate box complete as per specification and as required.	2	No.			
14	Providing and fixing of following sizes of <b>PVC Flexibale Conduits</b> suitable for various applications, halogen free, oil and petrol resistant, flame retardant, self extinguishing, high compressive strength and good wearing properties along with connectors complete with conduit gland & all accessories required.					
a)	25mm dia	250	RMT			
2	Supply & fixing the following sizes of PVC conduit in recessed or on surface of wall . False ceiling including cutting the wall and making good the same as required.					
a)	25 mm dia	750	RMT			
15	Supply, Laying & connection of 3X1.5 sq.mm copper flexible FR wires from DB/Panel to switch board / Power Point in 25mm Dia. MMS PVC conduit in wall / slab / floor. The unit rate shall include rate of Supply, Laying & connection of pipes & wires.	625	RMT			



Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
16	Supply, Laying & connection of 2X2.5 sq.mm & 1X1.5 sq.mm copper flexible FR wires from DB/Panel to switch board / Power Point in 25mm Dia. MMS PVC conduit in wall / slab / floor. The unit rate shall include rate of Supply, Laying & connection of pipes & wires.	2850	RMT			
17	Supply, Laying & connection of 2X4.0 sq.mm & 1X2.5 sq.mm copper flexible FR wires from DB/Panel to switch board / Power Point in 25mm Dia. MMS PVC conduit in wall / slab / floor. The unit rate shall include rate of Supply, Laying & connection of pipes & wires.	200	RMT			
<b>TOTAL CARRIED OVER TO SUMMARY (For E)</b>						
F)	<b>LV SYSTEM (DATA/TELE)</b>					
	<b>LAN SYSTEM</b>					
1	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/PVC conduit as required. 4 Pair CAT6 Unshielded, Twisted Pair (U/UTP) Cable 305 mtr per Box.	21000	m.			
2	Supplying, installing, testing and commissioning of Cat 6 RJ 45 Data I/o Socket .	500	No.			
3	Supplying, installing, testing and commissioning of 24 port Cat 6 patch panels with required material.	22	No.			
4	Supplying, installing, testing and commissioning of following length of Cat - 6 patch cord. 4 Feet : make d link, Molex, Legrand	500	No.			
5	Supplying, installing, testing and commissioning of following length of Cat - 6 patch cord. 7 Feet : make d link, Molex, Legrand	500	No.			
6	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.	50	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
7	1 Module : Single Module Face Plate	10	No.			
8	2 Module : Dual Module Face Plate	220	No.			
9	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/PVC conduit as required. 4 Pair CAT6 Unshielded, Twisted Pair (U/UTP) Cable 305 mtr per Box.	8500	m.			
10	Supplying, installing, testing and commissioning of Cat 6 RJ 11 Voice I/o Socket .	200	No.			
11	Supplying, installing, testing and commissioning of 24 port Cat 6 patch panels with required material.	10	No.			
12	Supplying, installing, testing and commissioning of following length of Cat - 6 patch cord. 4 Feet :	200	No.			
13	Supplying, installing, testing and commissioning of following length of Cat - 6 patch cord. 7 Feet :	200	No.			
14	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required. 1 or 2 Module Face Plate.	200	No.			
15	Supplying, installing, testing and commissioning of Cabinet. Size 2026 X 800 X 800 mm (HXWXD) following accessories, Width (mm) 800, Depth (mm) 800, Approx.Net Wt (kg) 150, CRCA 'D' Grade thickness (mm) 1.2, RAL 9017(Matt Black), Glass: 4mm Toughened Tinted Glass Door,Injected one piece polyurethane gasket on frame, Accessories: Cooling Fan (230V A/C 90 CFM) - 4 Nos, Cable Manager Metal- 4 Nos,PDU 230VAC - 1 No (12 nos. 6A/16A sockets with plugs 6A/16A - 1/1pc & MCB 16A/32A -0/1 Pc), cable channel 100mm wide 42U- 2 Nos,Heavy Duty Stationary shelf M6 screws,washer,cage nuts (nickel coated))3 Nos. Earthing Strips 150mm H - 1 No, Door Lock - 1 No, Castor Wheels (with Brake) - 2 Nos, Castor Wheels (without Brake) - 2 Nos, Front Metal Band - 1 No. Packing: 5 ply cardboard & Inside 28 ply EP foam. In the rack there must be maintained 1 U = 1.75 inches space. Nos. 1 etc complete as required	1	No.			
19	OM3 6 Core Fiber Cable in PVC Conduite Supply & Laying.	10	m.			
20	FIBER SLIDING DRW Iiu 24 PORT, LC ADAPTER PLATE MM 12 PORT, BLANKS FOR LIU, FUFION SPLICE, PIGTAIL SUPPLY & FIXING	1	No.			
21	OM 3 LC Patch coard 3 Mtr Supply & Fixing.	2	No.			
22	300 Pair Telephone Tag Box With Krone Strip Supply & Fixing.	4	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
23	100 Pair Jelly Arm Cable Supply & Laying.	5	m.			
<b>TOTAL CARRIED OVER TO SUMMARY (For F)</b>						
<b>G) CCTV SYSTEM</b>						
1	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/PVC conduit as required. 4 Pair CAT6 Unshielded, Twisted Pair (U/UTP) Cable 305 mtr per Box.	1000	m.			
2	IP Fixed Dome camera with 2mp, 1/3" CCD/CMOS, Progressive/De-interlace, Very High Definition resolution (1920 x 1080), min. Dual streaming, 25 FPS, H.264 compression support, 2.8 mm fixed focal lens, 1.5 lux, Tamper detection, Wide dynamic Range, PoE & standard 12VDC/24VAC power input, indoor surface mount enclosure, as per detailed specifications.	10	No.			
3	HD Outdoor WDR Fixed Bullet Network Camera High quality imaging with 2 MP resolution Efficient H.265+ compression technology Clear imaging against strong back light due to 120 dB true WDR technology Water and dust resistant (IP67) Robust structure design with full metal/PVC materials.	1	No.			
4	32 Channel Network Video Recorder Embedded OS Linux CPU ARM Processor Flash 256 MB RAM 1 GB Watchdog Hardware + Software Power Restoration System Restart Automatically after Power Recovery HDD Devices Internal x 2 HDD Max. Capacity 4 TB x 2 Disk Management Create, Format and Remove Disk HDD	1	No.			
5	Supply, installation , testing & commissioning of 42" LCD/LED colour monitors, stand etc complete in all respect	1	No.			
6	16 Port POE switch 10/100/1000 MBPS Gigabit	2	No.			
7	HDMI cable 15 mtr. Length	1	No.			
<b>TOTAL CARRIED OVER TO SUMMARY (For G)</b>						
<b>H) ACCESS CONTROL SYSTEM</b>						

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
1	<b>ACS Controller:</b> Supply, installing, testing and commissioning of Standalone Controller :- 2.4-inch TFT color screen and Touch keys, Ultra thin and elegant design With Builtin Wifi Fingerprint Identification Fingerprint Capacity: 3,000 Log Capacity: 30,000 Communication:TCP/IP,RS232/485,USB Host Access Control Interface for electric lock,door sensor,alarm,exit button and door bell. Wiegand input&output	2	No.			
2	Exit Reader :- Finger Print Reader Weather Proof Read Fingerprint and Proximity card Communication: RS485 with inBIO controller or Fingerprint devices DIP switch for RS485 address	6	No.			
3	RFID Cards :- ISO RFID Cards	200	No.			
4	Bracket :- U Bracket For Glass Door	5	No.			
5	Bracket :- L Bracket For Locks	1	No.			
6	Lock :- Single Electromagnetic Locks - 600 lbs as per specifications	6	No.			
7	Egress :- No Touch Exit Sensor Exit No Touch Sensor-Stainless steel	6	No.			
8	Enrollment Unit :- Finger print Enrollment device, is a stable and excellent fingerprint reader. The device can capture fingerprint image and upload to the PC by USB interface. High-performance, maintenance-free optical fingerprint sensor.	1	No.			
9	Software :- Web Base ACS & Time-attendance software	1	No.			
10	Supply, installing, testing and commissioning of Emergency Break Glass with required accessories as per technical specifications	6	No.			
11	<b>Cables:</b> Supply, installing, testing and commissioning of : All the cables Should be weatherproof, outdoor grade & as per BIS standard.					
a)	8 core 20 to 22 AWG, 6 or 8-conductor, stranded, shielded armoured cable with required accessories	50	m.			
b)	6 core, 2-conductor 20 to 22 AWG, stranded, shielded armoured cable with required accessories	50	m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
c)	4 core, 2-conductor 20 to 22 AWG, stranded, shielded armoured cable with required accessories	200	m.			
<b>TOTAL CARRIED OVER TO SUMMARY (For H)</b>						
I)	<b>SENSOR SYSTEM</b>					
1	Supplying of Digital PIR LightSpot HD Switching Sensors Ceiling Mount 360 degree. High Sensitivity Range 10 m Dia at height of 2.5 meter ( 7 m dia Micro Sensitivity 3 m macro) and . Current Capacity 10A. Digital Remote IR based Commissioning with hand held programmer for following programmable features: Absence mode, OFF delay time 10 Sec - 96 hrs, photocell and power up (status of luminaires when power is applied). It shall have provision to manually override luminary ON/OFF status using hand held remote control, similar to Honeywell LS3200R or equivalent	5	No.			
<b>TOTAL CARRIED OVER TO SUMMARY (For I)</b>						
J)	<b>TV SYSTEM</b>					
1	Supply , Installation , Testing and Commissioning of Full HD 55" LED Professional Display Panel Contras Ratio -4000:1, H/W - Tempreture Sensor, Pivot Display, Clock Battery (168 hrs Clock keeping) Built in speaker ( 10W 2ch) IP5x, Wifi S/W - Auto source Switching & Recovery, LFD Home UI, Button lock, hot key option , Plug & Play initial Setting. ( Equivalent to Samsung QB55N )	2	No.			
2	Supply , Installation , Testing and Commissioning of Full HD 72" LED Professional Display Panel Contras Ratio -4000:1, H/W - Tempreture Sensor, Pivot Display, Clock Battery (168 hrs Clock keeping) Built in speaker ( 10W 2ch) IP5x, Wifi S/W - Auto source Switching & Recovery, LFD Home UI, Button lock, hot key option , Plug & Play initial Setting. ( Equivalent to Samsung QB72N )	1	No.			
2	Wiring for TV point with RG-6 TV coaxial cable in ExistingPVC conduit including supply of all metarials complete as required.	200	m.			
3	Supply & fixing the following sizes of PVC conduit in recessed or on surface of wall . False ceiling including cutting the wall and making good the same as required.					
a)	25 mm dia	75	m.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
4	Supply & laying of RG-11 TV co-axial cable for cable TV system in 25 mm dia PVC conduit pipe in recess or on surface of wall including cutting the chases as making good the damage etc as required. <b>(For Vertical &amp; Horizontal runs)</b>	75	m.			
5	Supply & fixing of co-axial type TV socket in zinc chromate passivated M.S. Box & Moduler plate including making connections etc. complete as required.	2	No.			
6	Supply & fixing the following type of splitter box / Tape Off box in recess in wall or ceiling or on surface etc as required.					
a)	2 way splitter / Tape Off box	2	No.			
b)	4 way splitter / Tape Off box	1	No.			
<b>TOTAL CARRIED OVER TO SUMMARY (For J)</b>						
<b>K)</b>	<b>LIGHTING FIXTURES / FANS / SIGN BOARDS</b>					
3	Supply site installation installation, testing & commissioning of 48/36" ceiling fans complete with all accessories such as blades, canopy etc. including wiring the down rod with 3 x 1.5 sq mm FRLS PVC insulated multistranded copper conductor wires and earthing the fans etc. complete as required.	1	No.			
4	Supply installation, installation, testing & commissioning of 12/9" exhaust fans on existing opening in wall including all fixing hardware, louvers, shutters etc. Connection with 3 x 1.5 Sqmm FRLS PVC insulated multistranded copper conductor wire from the socket outlet to the fan earthing etc. complete as required.	4	No.			
5	Supply & installation of self illuminated Exit / Fire Exit Signs boards (Glolite/Prolite make) hung from ceiling or on wall as per site conditions complete with all accessories etc. as required					
a)	Two Sided 11" x 4"	2	No.			
b)	One Sided 11" x 4"	2	No.			
6	Supply of following LED Lighting Fixture					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
a)	Supply, installation, testing and commissioning of LED 36 watt (600mm x 600mm) Recess Mounted Luminaire with making earthing connection complete to be recessed in false ceiling with all necessary hardware, hanging frame arrangement, chains, hook etc., complete. (with minimum -03- Years warranty) Make ( Wipro / Philips / Havells / Halonix )	140	No.			
b)	Supply, installation, testing and commissioning of 6"9" dia. of 12 W LED Downlighter to be recessed in false ceiling with all necessary hardware, chains, hook etc., complete. (with minimum -03- Years warranty) ( Wipro / Philips / Havells / Halonix )	40	No.			
c)	Supply, installation, testing and commissioning of 6"9" dia. of 15 W LED Downlighter to be recessed in false ceiling with all necessary hardware, chains, hook etc., complete. (with minimum -03- Years warranty) ( Wipro / Philips / Havells / Halonix )	25	No.			
c)	LED 4ft. 18 Watt ( Equivalent to. Wipro cat No D53206500K )	8	No.			
d)	1200MM led recess type Light 30 Watt ( Equivalent to Wipro cat No. LM 30-301-xxx-57-LENIOSE)	25	No.			
e)	5 watt / mt. 50/50 LED Strip Light With Driver (Equivalent to Wipro cat No. D45040 4000K )	35	m.			
f)	9Watt Spot Light ( Equivalent to Wipro cat No D 120940)	25	No.			
g)	Lunch Hall Decorative Hanging Light With Hanging arrangement. ( Basic Rate Rs 4000 per no)	20	No.			
<b>TOTAL CARRIED OVER TO SUMMARY (For K)</b>						
<b>L)</b>	<b>FIRE ALARM SYSTEMS</b>					
a	Supply, installation , testing & commissioning of Microprocessor based 2 loops analogue addressable Netwokable type fire alarm control panel with 168 character LCD display, our access levels, 1000 event historical logging, flash EPROM sufficient numbers of programmable relay controls, 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 condition.Each Loop can accomodate 125 Detectors or 125 Devices , etc .	1	No.			
b	Supply, installation , testing & commissioning of Intelligent addressable type Multisensor type smoke detectors with standard base etc.	75	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
c	Supply, installation , testing & commissioning of Intelligent addressable type Multisensor type Heat detectors with standard base etc.	4	No.			
d	Supply, installation , testing & commissioning of Addressable sounder with strobe etc.	4	No.			
e	Supply, installation , testing & commissioning of Addressable type Manual Call Point unit etc.	4	No.			
f	Supply, installation , testing & commissioning of Addressable Fault Isolator Module etc suitable for the above system.	8	No.			
g	Supply, installation , testing & commissioning of Addressable Control Relay modules etc suitable for the above system.	8	No.			
h	Supply, installation , testing & commissioning of Monitor Module etc suitable for the above system.	2	No.			
8	Supply, installation, connecting, testing and commissioning of Response indicator.	50	No.			
10	Providing and fixing in position 1.2mm thick PVC outlet boxes for housing smoke detectors/heat detectors including providing 3 mm thick hylam sheet cover as required	12	No.			
a.	75mm x 75mm x 75mm	12	No.			
11	Supply & laying of following grade with copper conductor armoured FIRE SURVIVAL cable with (EPR) Ethylene Propylene rubber insulation as per IEC-60502:2004 Part-1 (Armoured), Retain circuit integrity as per BS 6387 C.W.Z (armoured), BS- 8491:2008, BS 8434-2: 2009 (armoured), (Resistance to fire at 950° C for 3 hours), as per specifications in cable trays, clamped including anchor fasteners to wall with suitable clamps, saddles fixing bolts, 2 cable glands for each detector back box, complete in all respect as required as per specifications. (Red Colour)					
a.	2 core x 1.5 sq. mm	650	RMT			
12	Hilti Make - CP 601s Firestop silicone sealant With Required Material & Labour etc. ( with Hilti Certification/bill )	5	Sq.m.			



Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<b>TOTAL CARRIED OVER TO SUMMARY (For L)</b>					
<b>M)</b>	<b>PA SYSTEM FOR FIRE ALARM</b>					
1	Supply, Installation, Testing & Commissioning of 2 Way Communication Fire Fighter's Telephone Jack.	1	No.			
2	Supply, Installation, Testing & Commissioning of 2 Way Communication Fire Fighter's Handset	1	No.			
3	SITC of followings with communication cable and accessories as required for system. Voice Zone Controller as required for system. suitable Zone selector with micro phone including keypad as required for system. Router as required for system. System compressive of above as required	1	No.			
4	SITC of Paging microphone Min 6 Zone for interface with controller including communication cable and all accessories.	1	No.			
5	SITC of rack mounted dual Channel Power Amplifier capable of delivering 300 W RMS power output or 480 W RMS burst output; complete with 100 V Line Matching Transformer, built-in fan for temperature control, Distortion typically 0.03% @ 1 KHz, Hum and Noise 90 dB below rated output selection facility, provision for hookup with Fire Alarm Panel, complete with connections and required circuitry	1	No.			
6	Supply, Installation, Testing And Commissioning of Wireless microphone	2	No.			
7	Supply, Installation, Testing And Commissioning of Ceiling loudspeaker, 6/3W, Frequency response of 110 Hz - 18 kHz.	45	No.			
8	Supply, Installation, Testing And Commissioning of wall mount loudspeaker, 6/3W, Frequency response of 200Hz - 20KHz	4	No.			
9	Supply, Installation, Testing and Commissioning of 2 Core X 1 Sq.mm flexible cable.	850	m.			
10	Supply, installation, testing and commissioning of 25mm pvc conduits for laying of above cable.	600	m.			
11	Supply, installation, testing and commissioning of 18U (600 x 600) floor mount closed rack with front glass door, fan tray on top, perforated rear doors, keyboard tray with shelf. Casters & 2 nos vertical power strip with std. accessories.	1	No.			
	<b>TOTAL CARRIED OVER TO SUMMARY (For M )</b>					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
<b>N)</b>	<b>EARTHING</b>					
1	1 x 16sqmm copper wire for UPS/Server	300	m.			
2	Supplying and laying of 8 SWG G.I. Wire on surface / recess as required.	150	m.			
3	25x3 Hot Dip Gi strip Supply & Laying.	75	m.			
4	25x3 Cu Strip Supply & Fixing.	30	m.			
5	50mm Dia Pipe in pipe Earthing 3 mtr long with 25 kg Chemical Bag Supply & fixing.	1	No.			
	<b>TOTAL CARRIED OVER TO SUMMARY (For N)</b>					
<b>O)</b>	<b>BMS SYSTEM</b>					
1	Supply, installation , testing & commissioning of Building Management System The Specification of the BMS System including all as below					
A	BMS Computer System (Higherend configuration core i7 or above SSD Hard Disc, 3 year Antivirous, Keyboard, mouse etc. )	1	No.			
B	BMS System Software : Windows based Graphical Software with at least 5 concurrent licence	1	No.			
i	System Integration Unit for interfacing DDCs to PC (should be capable of connecting to TCP/IP network) and must provide hardware features as must provide the following hardware features as a minimum: a) Ethernet Port -10 / 100 Mbps b) One RS-485 port c) Battery Backup e) Flash memory for long term data backup (If battery backup or flash memory is not supplied, the controller must contain a hard disk with at least 1gigabyte storage capacity) f) Capable of Calendar functions.Scheduling, Trending.Alarm onitoring and routing, Time synchronization.					
ii	Required Software and/or hardware for BACnet /IP & Hardware Interface for Modbus RTU Unit, Open Protocol Software Integration for following :-					
C	For VRV/VRF Units	1	Set			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	DDC Controller with I/O module etc., The controllers shall be 32 bit microprocessor based standalone and net workable type with real time clock. The DDC's shall be capable of peer to peer communication without help of system interface controller or PC. with locable mounting cabinets duly powder coated connector strip, internal wiring and space to house controller & relays, connector strip current transformer, MCB, internal wiring. (Contractor shall confirm his I/O provision w.r.t requirement on basis of data point)					
	Split/ Cassete Units (all. Split unlt/Hi wall units On/Off command, On/Off status, Trip Status. All starter panels of split AC to be provided with required PFC for assuemd IO. )					
2	2 Core 1.0 Sqmm,armoured ATC conductor multistranded, Un-shielded cable as per specification	650	m.			
3	3 Core 1.5 Sqmm,armoured ATC conductor multistranded, cable for Powering DDC , Actuators as per specification	350	m.			
4	2 Core 1.0 Sqmm,armoured ATC conductor multistranded, Shielded cable as per specifications	150	m.			
<b>TOTAL CARRIED OVER TO SUMMARY (For O )</b>						
<b>P)</b>	<b>FLOODING SYSTEM</b>					
1	Supply & installation of 120Ltrs Cylinder Assembly with Valve etc,	1	No.			
2	Supply, filling & installation of Novec 1230 agent ,	70	Kg			
3	Supply, installation,testing & commissioing of cylinder bracket for 120L seamless cylinder	2	No.			
4	Supply, installation,testing & commissioing of electric actuator shipping assembly complete	1	No.			
5	Supply, installation,testing & commissioing of Local Manual Actuator	1	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
6	Supply & installation of Actuation Hose, 600mm length, 1/4 in. NPT x 7/16-20 in. F Flare	1	No.			
7	Supply & fixing of Male Adaptor, Master Tank Pilot Port complete	1	No.			
8	Supply & fixing of Male Straight Connector, 7/16 - 20 x 1/4 in. NPT complete	1	No.			
9	Supply, installation,testing & commissioing of Nozzle 32 BR 360 degree.complete	1	No.			
10	Supply, installation,testing & commissioing of Nozzle 20 BR 360 degree.	1	No.			
11	Supply & fixing of Warning Plate for Use Inside Room	1	No.			
12	Supply & fixing of Warning Plate for Use Outside Room	1	No.			
13	Supply, installation,testing & commissioing of Cylinder Low Pressure Switch	1	No.			
14	Supply & fixing of Flexible Discharge Hose, 50mm dia.	1	No.			
15	Supply, installation,testing & commissioing of Switch, Pressure, DPST, Weather Proof (50mm - 80mm. Outlets), Latching complete	1	No.			
16	Supply, installation,testing & commissioing of 2 zone conventional fire alarm panel with power supply etc,	1	No.			
17	Supply & laying of Piping, Fiting & accessories	1	Set			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
18	Supply & laying of XLPE insulated PVC sheathed copper conductor, 1.1 kV grade armoured shielded cable conforming to IS:7098, as per approved make in ground/ trench/ surface/ pipe, etc. wherever required as per direction of Engineer In-charge. Note: The rate of Installation should be inclusive of Cable clamps, tags Saddles, Consumables etc. Trays/pipes, trenches,conducting etc					
	2C x 1.5 sq.mm cooper FRLS armoured shielded cable.	75	m.			
19	Supply, installation,testing & commissioing of Manual Abort Station	1	No.			
20	Supply, installation,testing & commissioing of Manual Release Station	1	No.			
21	Supply, installation,testing & commissioing of Conventional Smoke Detector with base	2	No.			
22	Supply, installation,testing & commissioing of Hooter	1	No.			
23	Supply, installation,testing & commissioing of Manual call point	1	No.			
24	Supply, installation,testing & commissioing of Remote indicator with double LED in PVC housing	1	No.			
	<b>TOTAL CARRIED OVER TO SUMMARY (For P)</b>					
<b>Q</b>	<b>Rodent Control System</b>					
	<b>SITC of Roddent System As Below Details</b> Master Console in Metal + 20 Transducers Protects Enclosed Area of approx. 6000 Sq. Ft. in a plain area. Each Transducer covers 300 Sq Ft. in normal floor, 150 Sq Ft in False ceiling and flooring 276 Meters of cables supplied Stand & Bracket to mount the controller	1	set			
	<b>TOTAL CARRIED OVER TO SUMMARY</b>					
<b>R</b>	<b>UPS SYSTEM</b>					
1	SITC of 40 KVA online UPS 3 Phase input & 3 Phase Output with one hour battery back-up as per technical specification.	2	No.			
2	SITC of 10 KVA online UPS 3 Phase input & 3 Phase Output with one hour battery back-up as per technical specification.	1	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	<b>TOTAL CARRIED OVER TO SUMMARY</b>					
S	<b>MISC. ITEM</b>					
1	Pop Up Box With 1 Nos HDMI , 1 Nos USB, 1 Nos plug point , 1 Nos DATA Point, 1 Nos Voice ( Legrand Cat No :- 654003 & above items )	10	set			
	<b>TOTAL CARRIED OVER TO SUMMARY</b>					
	<b>TOTAL ELECTRICAL WORK AMOUNT</b>					

4 HVAC AND ALLIED WORK						
	CHW System					
	SITC of various CHW based IDUs /AHUs along with insulated MS CHW piping, valves etc ... Chilled water is available from DCS of GIFT City. AHUs/IDUs to be designed for 5°C in - 14°C out & ΔT=9°C at coil. The system shall be operated & controlled through centralised BAS					
	<u>CHILLED WATER based AHUs (ZECO/VTS/NUTECH)</u>					
1	SITC of AHU supplied with cooling coil for CHW based AC system. Assembly of AHU at site with civil work required for mounting.					
	Modular Double Skinned Air Handling Unit (thermal - break type) of 'AL' sections with GI powder coated panels of double skinned construction internally insulated by 43 mm rigid PU foam having sandwich type access door, SS 304 drain pan with vibration free operation.					
	Suitable Plug Fan having 1.5" WC st.head of approved make housed in a suitable Fan section with mounting frame.					
	Filter section with required quantity of of HDP washable filters - of 10 micron capacity.					
	Chilled water cooling coil with ΔT=9°C of of suitable size with header & standard end flanges to maintain room condition of 24°C / 55-60 % RH. approx 1.5 GPM per TR.					
	Direct drive TEFC, squirrel cage induction motor of suitable HP with guards & operating through VFD of suitable capacity					
a	Capacity : 11000 cfm/ 24 TR (1.5" WC static head)	1	no			
b	Capacity : 11000 cfm/ 26 TR (1.5" WC static head)	1	no			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
2	Supply, installing, testing and commissioning of 3 way CHW valve with actuator & lever operated butterfly valve of size - suitable for each AHU (with bypass connections)	2	No.			
3	HMI based Central monitoring & controlling of all the parameters of AC system with communication cabling for AHUs / IDUs. Digital display type one point BAS shall be located at BMS room to maintain inside conditions by controlling 3 way valves, VFD etc ...	1	No.			
4	Drain piping of sch40, UPVC of ISI make of 2" dia. It should be covered with 6mm nitrile sleeve while exposed insulation to have UV protective coating (For AHU)	25	RMT			
<b>CHILLED WATER IDU'S</b>						
2a	chilled water(5'C-14'C & ΔT=9'C at coil) based wall mounted IDU(Hi wall) with Ball valve, strainer & all pipe fittings . Each IDU to be fitted with 2 way valve-actuator assembly & Pressure Independent Control Valve (PICV) of suitable size.					
a	1.6 TR capacity	1	No.			
b	2.0 TR capacity	1	No.			
2b	chilled water(5'C-14'C & ΔT=9'C at coil) based One Way Cassette of Ball valve, strainer & all pipe fittings . Each cassette to be fitted with 2 way valve-actuator assembly & Pressure Independent Control Valve (PICV) of suitable size.					
a	1.0 TR capacity	2	No.			
b	1.6 TR capacity	4	No.			
2c	chilled water(5'C-14'C & ΔT=9'C at coil) based Cassette of Ball valve, strainer & all pipe fittings . Each cassette to be fitted with 2 way valve-actuator assembly & Pressure Independent Control Valve (PICV) of suitable size.					
a	1.3 TR capacity	1	No.			
b	1.6 TR capacity	3	No.			
c	2.0 TR capacity	5	No.			
d.	2.6 TR capacity	5	No.			
e.	3.0 TR capacity	2	No.			
2d	Drain piping of sch40, UPVC of ISI make of ISI make of various size. It should be covered with 6mm nitrile sleeve while exposed insulation to have UV protective coating (For IDUs)	200	RMT			
3	<b>CHILLED WATER PIPING</b>					
A)	Supply, erection with supporting frames and testing of following appx. quantity of MS, CLASS C piping					

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
a.	15 mm NB	150	m.			
b.	19 mm NB	70	m.			
c.	25 mm NB	120	m.			
d.	32 mm NB	125	m.			
e.	38 mm NB	75	m.			
f.	50 mm NB	40	m.			
g.	65 mm NB	15	m.			
B)	Thermal insulation of piping with 32 mm thk Al faced -nitrial rubber foam					
a.	15 mm NB	150	m.			
b.	19 mm NB	70	m.			
c.	25 mm NB	120	m.			
d.	32 mm NB	125	m.			
e.	38 mm NB	75	m.			
f.	50 mm NB	40	m.			
g.	65 mm NB	15	m.			
4	Supply, erection and testing with Thermal insulation of 32 mm thk Al faced -nitrial rubber foam quantity of CI flanged fitted lever operated wafer type valve with "O" ring, seat & internal lining of EPDM having Zinc platted notch plate to adjust the lever.					
a.	65 mm NB lever operated Butterfly valve	4	No.			
b.	50 mm NB lever operated Butterfly valve	4	No.			
c.	32 mm NB lever operated Butterfly valve	4	No.			
d.	38 mm NB lever operated Butterfly valve (For AHU Line)	8	No.			
e.	25 mm NB lever operated Butterfly valve	2	No.			
f.	19 mm NB lever operated Butterfly valve	4	No.			
g.	38 mm NB Y Stainer (For AHU Line)	2	No.			
h.	Thermometers with port (For AHU Line)	4	No.			
i.	Pressure gauge with port (For AHU Line)	4	No.			



Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
j.	Automatic Brass Air Purge Valve assembly/ drain valve at the test points	2	No.			
5	<u>AIR DISTRIBUTION SYSTEM</u>					
	<u>SHEET METAL DUCT</u>					
	Duct fabrication from GI with VCD, MS hangers & angle frame at all flanges having 2 mm rubber gasket fixed in between, angle braces to control duct vibration & other low side work. The quantity is appx. with minor civil work like making & filling of wall cutouts /holes. (on site fabricated)					
a	22 swg.	1150	Sq.m.			
b	24 swg.	600	Sq.m.			
c	SA/RA Grills & Diffusers of extruded 'Al' duly powder coated with VCD with related frame fixing work	17	Sq.m.			
d.	12 mm thick accoustic internal duct lining of Nitrile Rubber open cell foam or semi open convoluted elastomeric nitril /EPDM rubber foam with fire safety rating class 1 (BS476 part7), IS 15061 & to pass fungi resistance as per ASTM G21 & Bacterial resistance as per ASTM 2180. It should have high density range of 140-180 kg/cu.m. & to withstand 100'C surface temp.	150	Sq.m.			
e.	Thermal duct insulation of 32 mm thk. Class O EPDM rubber of density 40 kg/cm. It should be free from CFC,HCFC,VOC & Nitrosamine contents as per US FDA norms.	1750	Sq.m.			
f.	Inline booster Fans to boost the Fresh air drawn from the Central duct Capacity - 1000 CFM,1" st.pr.	2	No.			
6	Fresh air Supply through set of PVC piping of medium rating with various fitting like elbow, Tee, etc. . Duly insulated with 25 mm thk. Class O EPDM rubber of density 40 kg/cm. It should be free from CFC,HCFC,VOC & Nitrosamine contents as per US FDA norms.					
a	4" dia	120	m.			
b	5" dia	50	m.			
c	6" dia	40	m.			
d.	7" dia	45	m.			
e.	8" dia	50	m.			
f.	10" dia	25	m.			
g.	12" dia	35	m.			
7	Disc valve of 4" dia for Fresh air supply	35	No.			
a	Disc valve of 6" dia for Fresh air supply	5	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
8	S/E/C/T of Motorize Fire Damper of 16 guage GI duly configured with Fire Alarm System (BAS)	2	Sq.m.			
9	Flexible Reeqzine with 5" zip	4	No.			
10	65mm Y Stainer with Flange for Main Header in AHU Room total Set complete as directed.	4	No.			
11	Main Header Tapping T in AHU Room for Extra Flange	4	No.			
12	Supply, installation, testing and commissioning of motorised combined <b>smoke &amp; fire damper</b> complete with control panel, inter connecting wiring at locations shown in approved shop drawings and as per specifications.					
a	Smoke & Fire Dampers.	5	Sq.m.			
b	Actuators & Control Panel	2	No.			
c	3 core x1.5 Sq.mm Wiring	200	RMT			
13	<b>Insulated Flexible Ducting</b>					
	Supplying, installing, testing and commissioning of insulated flexible duct made of a double lamination of film permanantly bounded to a coated spring steel wire helix. The outer jacket made of double laminated film, wrapping of fibre glass insulation including necessary supports, flexible hangers with isolators, flexible connections, dampers and vanes, volume control dampers etc. complete as per specification in accordance with the approved shop drawings and required by the specifications.					
a	100 mm dia	40	RMT			
b	150 mm dia	40	RMT			
c	250 mm dia	70	RMT			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
	SITC, loading-unloading of Air Cooled VRV/VRF type central Air Conditioning system. The operation & control shall be through central BMS.					
1	<u>Outdoor unit :</u>					
a	<u>24</u> HP unit	1	No.			
2	<u>Indoor unit (with remote):</u>					
2a	Hi-Wall type - 1.6 TR capacity	3	No.			
2b	Hi-Wall type - 2 TR capacity	1	No.			
2c	Cassette type - 2.6 TR capacity	2	No.			
2d	Cassette type - 3.0 TR capacity	1	No.			
2e	Cassette type - 4.0 TR capacity	2	No.			
3	18 swg hard Refrigerant copper piping including refnets duly insulated with 19mm thick nitrile rubber sleeve & cabling connecting O/D & I/D units. Exposed insulation to have UV protection coating (measured once along the route).					
a	41.3mm OD	15	RMT			
b	34.9mm OD	25	RMT			
c	28.6mm OD	105	RMT			
d	25.4mm OD	110	RMT			
e	22.2mm OD	90	RMT			
f	19.1mm OD	100	RMT			
g	15.9mm OD	250	RMT			
h	12.7mm OD	250	RMT			
i	9.5mm OD	150	RMT			
j	6.4mm OD	80	RMT			
4	HMI based Central monitoring & controlling of all the parameters of AC system with communication cabling for ODU's IDUs. Digital display type one point BAS shall be located at BMS room.	1	No.			

Sr.No.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE IN FIGURES (Rs.)	RATE IN WORDS (Rs)	AMOUNT (Rs.)
5	1" dia. drain piping of sch.40, U PVC duly insulated with 6mm nitrile rubber foam sleeve. Exposed insulation to have UV protection coating	85	RMT			
6	"Y" joints for Ref. piping distribution	14	No.			
7	Refrigerant /oil	1	kg.			
8	MS black colored floor mounted frame work for system ODU's	1	No.			
9	BTU meter	4	No.			
10	Miscellaneous for civil work for ducting or piping like dismanteling of wall, making & filling of wall holes & fitting work. Disposal of all debris/materials, as per norms of GIFT SEZ	1	lumpsum			
11	Supply, installation, testing and commissioning of 100A, 4P on load isolator in lockable powder coated 2mm thick wall mounted type enclosure ( <b>Weather Proof</b> ) having provision of incoming and outgoing cable of the size 1 no. of 3.5C x 35 Sqmm. Al. conductor XLPE insulated armoured with all fixing hardwares etc. as required. ( <b>For outdoor unit</b> )	2	No			
12	Supply, installation, testing and commissioning of 63A, 4P on load isolator in lockable powder coated 2mm thick wall mounted type enclosure ( <b>Weather Proof</b> ) having provision of incoming and outgoing cable of the size 1 no. of 3.5C x 16 Sqmm. Al. conductor XLPE insulated armoured with all fixing hardwares etc. as required. ( <b>For outdoor unit</b> )	1	No.			
13	Providing & fixing control cum transmission wiring in medium duty MS Conduit between indoor and outdoor units.					
a	2C x 1.5 Sqmm Cu Cable	100	RMT			
b	3C x 1.5 Sqmm Cu Cable	100	RMT			
4	<b>TOTAL AMOUNT FOR HVAC AND ALLIED WORK</b>					