

Commercial Bid Format

Sub: Proposed Office renovation viz, Interiors, & Civil, works towards Establishment of Futuristic Product Innovation and Incubation Centre at First floor of R & D Building at Admin Block, at Bangalore Complex, BEML Limited, Bangalore.					
<u>A</u>	<u>INTERIOR WORKS</u>				
Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
1	Dismantling the existing old aluminum partition of any description including hardware items and handing over the same to BEML in good condition and stacking at a place as shown & shifting the same to Civil Maintenance dept etc., complete and as directed by Engineer in Charge.	Sqm	80.00		
2	Removing the existing old grid false ceiling including hardware items and handing over the same to BEML in good condition and stacking at a place as shown etc., complete and as directed by Engineer in Charge.	Sqm	200.00		
3	Dismantling the existing wall panelling consisting of wooden framework, plywood, laminate/veneer sheets of any description including beading, nails, screws etc., complete including segregating and stacking separately the serviceable and unserviceable materials and disposing the unserviceable materials outside the site premises to a distance not exceeding 5.0KM not objected by local civic authorities all as specified and as directed by Engineer in Charge.	Sqm	80.00		
4	Providing necessary repairs to existing false ceiling in any description in ground floor proposed waiting area including replacing the old damaged false ceiling with new one with necessary hardware items etc., complete all as specified & directed by Engineer in charge.	Sq.m	15.00		

5	<p>Full height partition with partly glazed panel for Executive cabins and Conference Hall: Providing and fixing metal stud dry wall partition with following specifications: Supporting system comprising of 51mm / 50mm x 35mm / 34mm x 0.5mm metal GI studs at 600mm c/c and 51mm / 50mm x 32mm x 0.5mm metal tracks at floor, middle, door and ceiling level with joints staggered to avoid through joints. The vertical members should touch the ceiling with horizontal ceiling channel at slab / beam bottom. The rate should also include necessary strengthening with studs / tracks or channels at doors and other openings. 12mm Exterior Grade MDF (EG-MDF) Board fixed on both sides with 25mm dry wall with star screws for the entire height of the partition.</p>	Sqm	65.00		
	<p>Partition fixed with 1.0mm approved colour and make= laminate sheet on both sides with approved colour of laminates. From 1070 mm level to 2135 mm level to have 8mm clear float glass fixed with with 85mm x 15mm alround jamb and 12mm x 12mm button beading on both sides of the glass, to a neat finish as per drawings and directions etc., complete.The glass sizes subject to design drawing etc. All beech wood members to have minimum two coats of LOW VOC or NO VOC white duco paint finish / wood polish. PLYWOOD CONFIRMING TO IS: 303. – BWR GREEN PLY/ SAMRAT/CENTURY/ARCHID)(Laminate CONFIRMING TO IS: 2046-1995 - sunmica,Greenlam, Archid) (MDF/ HDF- CENTURY/ ARCHIDPLY/ GREENPLY) (ADHESIVES- FEVICOL SH / VAMICOL/ JEEVANJORE) The partition and supoorts will be upto roof ceiling to be done. The measurement will be given upto below false ceiling.All sections used should adhere to the manufacturers guidelines and the contractor has to submit certificate from the manufacturer on usage of their specified sections(SCREWSGKW NETTLEFOLD/ TEKNIC FASTNERS)</p>				

6	<p>Full height partition for store : Providing and fixing metal stud dry wall partition with following specifications: Supporting system comprising of 51mm / 50mm x 35mm / 34mm x 0.5mm metal GI studs at 600mm c/c and 51mm / 50mm x 32mm x 0.5mm metal tracks at floor, middle, door and ceiling level with joints staggered to avoid through joints. The vertical members should touch the ceiling with horizontal ceiling channel at slab / beam bottom. The rate should also include necessary strengthening with studs / tracks or channels at doors and other openings. 12mm Exterior Grade MDF (EG-MDF) Board fixed on both sides with 25mm dry wall with star screws for the entire height of the partition.</p>	Sqm	35.00		
	<p>Partition fixed with 1.0mm approved colour and make laminate sheet on both sides with approved colour of laminates to a neat finish as per drawings and directions etc., complete. All beech wood members to have minimum two coats of LOW VOC or NO VOC white duco paint finish / wood polish . PLYWOOD CONFIRMING TO IS: 303. – BWR GREEN PLY/ SAMRAT/ CENTURY/ ARCHID)(Laminate CONFIRMING TO IS : 2046-1995 - sunmica,Greenlam, Archid)</p>				
	<p>(MDF/ HDF- CENTURY/ ARCHIDPLY/ GREENPLY) (ADHESIVES- FEVICOL SH / VAMICOL/ JEEVANJORE) The partition and suppoorts will be upto roof ceiling to be done. The measurement will be given upto below false ceiling.All sections used should adhere to the manufacturers guidelines and the contractor has to submit certificate from the manufacturer on usage of their specified sections(SCREWSGKW NETTLEFOLD/ TEKNIC FASTNERS)</p>				

	<p>Medium height partition for Mini Discussion Room : Providing and fixing metal stud dry wall partition with following specifications: Supporting system comprising of 51mm / 50mm x 35mm / 34mm x 0.5mm metal GI studs at 600mm c/c and 51mm / 50mm x 32mm x 0.5mm metal tracks at floor, middle, door and ceiling level with joints staggered to avoid through joints. The vertical members should touch the ceiling with horizontal ceiling channel at slab / beam bottom. The rate should also include necessary strengthening with studs / tracks or channels at doors and other openings. 12mm Exterior Grade MDF (EG-MDF) Board fixed on both sides with 25mm dry wall with star screws for the entire height of the partition.</p>				
7	<p>Partition fixed with 1.0mm approved colour and make laminate sheet on both sides with approved colour of laminates. For a height of 1200mm from finished floor level to have 8mm clear float glass fixed with with 85mm x 15mm alround jamb and 12mm x 12mm button beading on both sides of the glass, to a neat finish as per drawings and directions etc., complete.The glass sizes subject to design drawing etc. The edges of the partition wall finished with beech wood beading and finished with minimum two coats of LOW VOC or NO VOC white duco paint finish / wood polish. PLYWOOD CONFIRMING TO IS: 303. – BWR GREEN PLY/ SAMRAT/ CENTURY/ ARCHID)(Laminate CONFIRMING TO IS: 2046-1995 - sunmica,Greenlam, Archid)</p>	Sqm	20.00		

	(MDF/ HDF- CENTURY/ ARCHIDPLY/ GREENPLY) (ADHESIVES- FEVICOL SH / VAMICOL/ JEEVANJORE) The partition and suppoorts will be upto roof ceiling to be done. The measurement will be given upto below false ceiling.All sections used should adhere to the manufacturers guidelines and the contractor has to submit certificate from the manufacturer on usage of their specified sections(SCREWSGKW NETTLEFOLD/ TEKNIC FASTNERS)				
8	<p>32MM DOORS IN PARTITIONS -: Providing and fixing 32mm thick solid core flush shutter with 85mm x 35mm beech wood frame with rebate alround the jamb and shutter fixed with 1mm Laminate as specified on both sides with glass panel of 8mm clear float glass fixed with 19 x 19mm beading on both sides and glass pasted with 3M privacy film as per design. The rate to include necessary hardware viz., door stopper, door buffer, pair of "H" type handles, Mortise Dead Lock and Euro Profile Cylinder - Key and Knob 70mm SS, SS 2 ball-bearing hinges - (127mm x 76mm x 2.5mm), door closer (all of approved make and quality), ZERO VOC or NO VOC white duco paint finish for all beech wood members, etc., complete all as specified and directed by Engineer in Charge. (Laminate - sunmica,Greenlam, Archid).</p> <p>Near server room area, salwood frame of 5"x2 1/2" will be fixed to wall near server room and shutters will be fixed with sal wood frame. The glass size aproximately 2'0"wide and 3'0" depth as per design. (FLUSH DOOR – CONFIRMING TO IS : 2202(Part – 1) – 1991- GREENPLY / CENTURY PLY/ UNIPLY) (Glass -SAINT GOBAIN / GUJRAT GUARDIAN / MODIFLOAT) (HARD WARE -HETTICH/ EBCO/ GODREJ) (ADHESIVES- FEVICOL SH / VAMICOL/ JEEVANJORE)(Laminate CONFIRMING TO IS : 2046-1995 - sunmica, Greenlam, Archid)(SCREWS-</p>	Sqm	8.00		

	GKW NETTLEFOLD/ TEKNIC FASTNERS)(FLOOR SPRING / DOOR CLOSER-DOORSET / OZONE/ HARDWYN)				
9	MEDIUM HEIGHT STORAGE 1200mm height: Supplying & fixing 18mm thick pre-laminated boards with 2 mm thick PVC edge- banding. The shutters will be swing door type. The storage units will be provided with shelves considering the height. The handles will be stainless steel powder or chromium finish. Levelers will be provided for countering the uneven floor surface and including all necessary fittings. (Make: V2 modular furniture, Nuline furniture, creative office systems etc., complete all as specified and directed by Engineer in charge.	Sqm	36.00		
10	LOW HEIGHT STORAGE upto 750mm height in executive cabin and as serving table in conference hall: Supplying & fixing 18mm thick pre-laminated boards with 2 mm thick PVC edge- banding. The shutters will be swing door type. The storage units will be provided with shelves considering the height. The handles will be stainless steel powder or chromium finish. Levelers will be provided for countering the uneven floor surface and including all necessary fittings. (Make: V2 modular furniture, Nuline furniture, creative office systems etc., complete all as specified and directed by Engineer in charge.	Sqm	7.00		
11	FULL HEIGHT STORAGE upto 2100mm height in Storage room hall: Supplying & fixing 18mm thick pre-laminated boards with 2 mm thick PVC edge- banding. The shutters will be swing door type. The storage units will be provided with shelves considering the height. The handles will be stainless steel powder or chromium finish. Levelers will be provided for countering the uneven floor surface and including all necessary fittings. (Make: V2 modular furniture, Nuline furniture, creative office systems etc., complete all as specified and directed by Engineer in charge.	Sqm	18.00		

12	<p>CONFERENCE TABLE: Supplying and placing in position M/s. Godrej make Mingle Modular series U shaped meeting table of size 4140mm x 2100 mm x 750 mm height of of minimum 16 seater capacity of approved layout/color with electrical plug modules, accessories. Table made up of 25mm thick Prelaminated boards which will be cut to the customized sizes. 02mm PVC edge-banding will be done at the exposed edges in the through feed machine. The vertical legs will be made up of MS powder coated/PLB and the modesty panel will be made up of 25mm thick PLB etc., complete all as specified and directed by Engineer in Charge.</p>	No	1.00		
13	<p>Doors with 12mm toughened glass for the entry to FPI & IC centre.: Providing and fixing in position frames less glass entrance door with necessary fittings like floor springs of 120 kg loading capacity, SS handles, lock at centre area pivot etc. with all hardware fittings & fixtures etc., complete of approved make as per instructions of architect / engineer in charge. (GLAZING to be made up of - M/s KONICA, MODIGUARD, SAINT GOBAIN brand), (HARD WARE to be made up of -M/s HETTICH/ EBCO/ GODREJ brand), (FLOOR SPRING / DOOR CLOSER to be made up of DOOR SET /OZONE/HARDWYN brand) etc., complete all as specified and directed by Engineer in Charge.</p>	Sqm	3.00		

14	<p>UPVC SLIDING WINDOWS: Providing and fixing factory made uPVC white colour sliding glazed window upto 1.95 m in height dimension, manufactured by M/s Fenesta/LG Hausys/AIS), comprising of uPVC multi chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc complete to suite the overall size of openings all as directed and specified by the Engineer in charge.</p>	Sqm	45.00		
	<p>After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. Three track three panels sliding window with fly proof SS wire mesh(Two nos. glazed of tinted type / sunlight control film to be provided & one no. wire mesh panels)made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm). and for providing heavy sheet float glass panes in glazed doors, windows and clerestory window shutters with 6 mm thick glass panel etc., complete all as specified & as per instructions of Engineer - in charge.</p>				

	<p>Gypsum board plain false ceiling with 2 levels for FPI & IC and all other area excluding toilet, stair case area : Providing and fixing Concealed Grid suspended ceiling system of 12.5mm Gypsum Boards / Standard Plaster Boards fixed to ceiling Frame Work as per manufacturer's instructions and details for a concealed grid key lock suspended ceiling system consisting of following: 27 x 37 x 1.6mm Soffit Clip, 5mm suspension rod / 25 x 10 x 0.5mm Ceiling Angle, adjustable spring loaded suspension clip / 2.64mm dia Connecting Clip, 20 x 28 x 30 x 0.5mm Perimeter Channel, Top Cross Rail of 3000mm long of 0.55 BMT Furring Channel / 15 x 45 x 15 x 0.9mm Intermediate Channel and 4000mm long made of 0.5mm BMT the Top Cross Rail / 80 x 26 x 0.5mm</p>				
15	<p>Ceiling Section to be suspended from ceiling at every 1200mm and Furring / Intermediate Channel to be fixed to Top Cross Rail / Ceiling Section at every 600mm to make a grid of 1200 x 600mm. All sections used should adhere to the manufacturers guidelines and the contractor has to submit certificate from the manufacturer on usage of their specified sections. Further the rates to include cutouts for lighting fixtures / AC grilles / Fire Alarm Detectors etc., along with necessary strengthening and supports for fixing of these. The board joints are to be flush finished with jointing compound and paper tape etc., complete as directed. The ceiling shall be finished with 2 coats of premium emulsion paint over primer putty etc complete (Brand & make for GI SUPPORT SYSTEM FOR FALSE CEILING - M/s HUNTER DOGULAS / GYPROC / ARMSTRONG). (Brand & make for Gypsum Board - M/s Gyproc / Gypsum / saint Gobain make). (Brand & make for PLASTER BOARDS- M/s GYPROC/ LAFARGE/ KNAUF) (Brand & make for painting : M/s ASIAN / NIPPON / BERGER / KANSAI NEROLAC)</p>	Sqm	130.00		

16	GRID FALSE CEILING : Providing & fixing of Soft Fibre Acoustical Suspended Ceiling system in module size of 600X600X15mm with Angled Tegalur Edge Tiles with Exposed Grid (silhouette).The tiles should have Humidity resistance (RH)of 95%,NRC 0.9,Light Reflectance >85%,Colour white,Fibre performance UK class o/class 1 (BS 476 pt-6&7)and suitable for green building application,with recycled content of 66% GW & 74% RW.The tile shall be laid on 24mm wide T-section flanges colour white having rotary stitching on all T sections i.e.the main runner,1200mm and 600mm cross tees with a web height of 38mm and a load carrying capacity of 13.2kgs/sqm and push out strength of minimum 100kgs.The T sections have a Galvanizing of 90 grams per sqm and need to be installed with suspension system of approved make. vertical supporting with j bolt and rivet system. SILHOUETTE XL 9/16" Bolt Slot - 1/4" Reveal SILHOUETTE XL 9/16" Bolt Slot - 1/8" Reveal(P-328,I-39.12.8)	Sqm	420.00		
17	Providing and fixing of White Projection Screen Manual 4:3 Ratio - PSD-M43-120 with necessary fixtures and fittings with Wall/Ceiling mount Manual – Auto lock Slow retraction 6 X 8 (120-inch Diagonal) Additional Information as per the instructions of Manufacturers manual.	No	1.00		
18	Work station tables: Supplying & fixing Tile Based System (75mm Thick) Frame work: made up of 02mm thick CRCA sheets with necessary slotting for wiring throughout the vertical and the horizontal side of the frame. The punching for the wiring purpose will be done in a CNC punching machine. This slotting will also act as a slot where the tiles can be fixed.	No	72.00		

<p>Raceways: 2 level cable raceways below tabletop with slots for networking and electrical terminals. One race way will be provided at the floor level which will be of 6" height. The other race way will be provided below the worktop which will measure 4" in height. These raceways will be suitable to fix any sort of electrical and networking sockets of standard size. Tiles: Made up of 09 mm thk MDF boards. This will be either upholsted with the fabric / laminated with 01 mm laminate sheets.</p>				
<p>These tiles will be fixed to the frame work using the spring clips at top and 'H' clips at the bottom. Each workstation will have a pin-up board & a writing board Top Trim: partition will be covered by an elegant aluminium trim which shall be fixed by means of hidden connections.</p> <p>Powder Coating: Seven Tank treatment process with hot Phospating which will be coated to a thickness of 50 microns Levelers: Sturdy levelers are provided for insulation and to counter uneven floor surface.</p> <p>Work Top: Work Top: Work top will be made up of 25mm thick pre-laminated boards which will be cut to the customized sizes and routing will be done for the curvilinear tops. 02mm PVC edge-banding will be done at the exposed edges in the through feed machine.</p>				
<p>Mobile pedestal Made up of 18mm Thick pre- laminate boards with 2 mm PVC edgebanding at the edges. The unit consists of 3 drawers. The first and second are 100mm height approximately and the bottom drawer is suitable for lateral filing. The width and depth of drawer assembly are 450mm. The unit is made mobile using castor. The overall height is 675mm from floor level.M.S fabricated CPU trolley which will made up of 1.6 mm thk CRCA sheets which will be powder coated and it will be provided with castors. Used for mounting CPU. Width adjustment can be done. ABS keyboard tray provided with heavy duty sliding channels (Make : V2 modular furniture, Nuline furniture, creative office systems)</p>				

19	<p>Executive tables: Supplying & fixing tables of Size: 1500mm x 750mm x 750mm ht With a side credenza Size: 1050mm x 450mm x 750mm ht. Work Top: Work Top: Work top will be made up of 25mm thick pre-laminated boards which will be cut to the customized sizes. 02mm PVC edge-banding will be done at the exposed edges in the through feed machine. The vertical legs will be made up of Metal which will be powder coated and the modesty panel will be made up of 25mm thick PLB etc. Complete. (Make : V2 modular furnitue, Nuline furniture, creative office systems)</p>	No	3.00		
20	<p>VERTICAL BLINDS: Providing and fixing 100mm wide venitian blinds of window fashion fabric of M/s Taiwan make, with 50mm thick powder coated channel with balance, imported crylic self alignable mechanism and equally placed spacers a, imported tilting of approved shade/colour and design etc., complete including all necessary accessories and hard ware items all as specified and as directed by Engineer In Charge.</p>	Sqm	70.00		
21	<p>BLACK OUT ROLLER BLINDS FOR CONFERENCE HALL: Providing and fixing 100mm wide venitian blinds of window fashion fabric of M/sM/s Vista Levalor/Mac/Hunter Douglas make, with 50mm thick powder coated channel with balance, imported crylic self alignable mechanism and equally placed spacers a, imported tilting of approved shade/colour and design etc., complete including all necessary accessories and hard ware items all as specified and as directed by Engineer In Charge.</p>	Sqm	5.00		

22	<p>WALL PANELLING : Supplying and fixing wall panelling with 12mm thick BWP plywood conforming to relevant IS & exposed surfaces finished with 1mm thick laminate sheet manufactured by Greenlam/Century/Merino of approved colour & design/pattern and fixed firmly to 50mmx50mm size salwood framework at 600mm c/c horizontally and vertically walls, including teakwood beading of required size wherever required, including applying melamine polish with a coat of wood filler/adhesives including necessary hardware/accessories viz, nails, screws, adhesives including polishing to the exposed beading surfaces etc., complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for any wastages etc.</p>	Sqm	265.00		
23	<p>FULL HEIGHT TOUGHENED GLASS PARTITION WITH DOOR: Providing and fixing full height up to ceiling partition partly /FULLY paneled and partly/FULLY glazed consisting of Sal wood frame work treated for anti-termite of size 45X45mm (finished measurement 600mm (approx.) c/c in vertical direction and four nos. in horizontal direction, one each at ceiling & floor level and two intermediates, the partition shall have both side 6mm thick ply fixed with 1mm thick Laminate of approved colour and make with approved adhesive in top and bottom panel and 12 mm thick clear sheet glass (toughned) with etching of approved design fixed with all round beach wood beading of size 35X25mm including polishing. The wooden frame work shall be adequately fixed to walls/ ceiling/columns/floor with necessary fasteners, including necessary strengthening at doors and window openings etc., complete as directed by the Engineer in-charge of the work, as per drawing/design. Glass partition fixed with patch fittings at floor level firmly.</p>	Sqm	82.00		

24	<p>Centre table: Providing and placing of Modular furniture make centre table with 450mm X910mm and 450mm height with 25mm prelaminated partical board with 8mm thick glass on top and Support structure with 4 nos legs of B.W 50 x 50 and horizontal ties alround at top and bottom of B.W 37.5 x 37.5 as per instructions of architect / engineer in charge. (Make: V2 modular furniture, Nuline Furniture, Creative office systems) All edge beadings, nails, screws, adhshesives etc. All wooden surfaces finished with melamine spray polish.</p>	No	2.00		
25	<p>PLANTER BOX: Providing planter boxes of size 530mmx530mmx450mm ht fabricated using 19mm thick MR grade com plywood. All the external and internal surfaces shall be finished with 1mm thick laminate and the exposed edges shall be provided with 19mm wide,6mm thk TW beading and neatly polished. The planter box shall be provided with a GI tray using 22-gauge GI metal all as per architect's instructions.</p>	No	10.00		
26	<p>WOODEN FLOORING FOR GROUND FLOOR WAITING AREA, FIRST FLOOR CONFERENCE ROOM, EXECUTIVE CABIN : Removing the existing PVC flooring /carpet etc., including any backing coat and handing over to BEML Ltd and providing and installation of new laminated wooden flooring of of plank size approximate 1200mmx200mm product code: LCF 050/LCF014 AC4 grade, LOC Series not less than 7mm thick, 32 Class, manufactured by M/s. Pergo/Trysquare/ Square foot or equivalent of approved shade / design / colour with backing layer of 3mm thick thermo foam sheet including necessary end profile, edge beading skirting of required width as per site conditions, including all necessary hardware items etc., complete all as per manufacturer's instructions and as specified & directed by engineer in charge. Note: The rate quoted is deemed to include for a) preparation of the existing floor surface by removing all dust, dirt and making it dry, clean and perfectly level</p>	Sqm	310.00		

	before laying of the laminated wooden flooring. b) The rate is include for all wastages.				
27	Mini discussion table: Providing and placing of Modular furniture make mini discussion table with 1500mm X900mm and 750mm height with 25mm prelaminated partical board with top and leg with 2mm edge bind finishing as per instructions of architect / engineer in charge. (Make: V2 modular furniture, Nuline Furniture, Creative office systems)	No	1.00		
28	Providing and supplying of High back Chairs of approved brand (Godrej, bosq, Eurotech) for executives as per approved make and as per instructions of architect.	No	4.00		
29	Providing and supplying of Medium back Chairs of approved brand (Godrej, bosq, Eurotech) for working space officers as per approved make and as per instructions of architect.	No	100.00		
30	Providing and supplying of Medium back Chairs of approved brand (Godrej, bosq, Eurotech) for visitors but without casters as per approved make and as per instructions of architect.	No	7.00		
31	Two seater sofa of approved brand with artificial leather (Godrej , Featherlite, Eurotech make) for visitors: Supplying and placing in position sofa sets as per the design and drawing of size 1250 mm x 760 mm x 760mm , of seating height 400 mm with good quality artificial leather of approved make ,color texture with 52-53 density sponge with strips z-springs with side and back rest slight slope etc complete This rate includes cost of all materials, labor, and taxes, lead and lift, to the place of work	No	8.00		
	A. Sub Total value excluding GST (Rs).				
	GST (Rs).				
	A. Sub Total value inclusive of GST (Rs)				

<u>B</u>	<u>CIVIL WORKS</u>				
1	<p>Dismantling the existing old mosaic floor/wall tiles including cement mortar bedding layer and disposal of unusable materials /debris outside the site premises to a distance not exceeding 5.0 KM not objected by local civic authorities including lead, lift incomplete all as specified and directed by Engineer in Charge.</p> <p>Note: 1) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities.</p> <p>2) The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary.</p>	Sqm	25.00		
2	<p>Dismantling the existing Brick masonry wall in any thickness and disposal of unusable materials/ debris outside the site premises to a distance not exceeding 5.0 KM not objected by local civic authorities including lead, lift etc, complete all as specified and directed by Engineer in charge.</p> <p>Note: 1) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities.</p> <p>2) The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary.</p>	Cum	5.00		
3	<p>Providing and constructing concrete solid block masonry of size 400 x 150 x 200mm / required size in cement mortar 1:4, raking of joints including necessary curing, tools & tackles etc complete all as specified and directed by Engineer in charge.</p>	Sqm	100.00		

4	Rendering/Plastering 20mm thick in Cement Mortar 1:4 on fair faces of brick or concrete surfaces including finishing the surface smooth and even including curing, tools & tackles at all levels and height etc., complete all as specified and directed by Engineer in charge. Note: - The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary.	Sqm	250.00		
5	Providing, mixing and laying in position Reinforced Cement Concrete M20 grade of mix proportion 1:1.5:3, using 20mm graded down size granite aggregate for Lintel Beams, etc complete including curing, Vibrating, compacting, finishing, dewatering wherever necessary including lead, lift etc., complete all as specified and directed by Engineer in charge. Note: a) Reinforcement shall be measured and paid separately under relevant item. b) The rate quoted by the Contractor for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.	Cum	2.00		
6	Providing & laying in position Fe 500 grade TMT bars in reinforcement conforming to relevant IS in various diameters, locations & levels, cut to length and bent to shape required, binding spirally with MS wire (annealed) of size not less than 0.9 mm dia including all lead, lift, etc., complete all as specified and directed by Engineer in charge. NOTE: a) The rate quoted for the item is deemed to include for cement mortar cover blocks as per the requirement at site and providing and removal of scaffolding/staging wherever necessary. b) Reinforcement will be measured based on actual quantity placed in position on standard weight basis, no allowance will be made for rolling margin. c) Only authorized laps, chairs and spacers shall be measured and paid.	Kgs	250.00		

7	<p>Providing and laying in position Plain Cement Concrete of mix proportion 1:2:4 average 100mm thick using 20mm graded granite aggregates over chajja/ flooring works, laid to a proper slope & gradient, well compacted, mechanical/manual mixing including finishing the top surface neat & even by using extra cement by plastering, & necessary curing etc., complete all as specified and directed by the Engineer in charge.</p> <p>Note: The rate quoted for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.</p>	Cum	3.00		
8	<p>CINDER FILLING: Removing of existing cinder/filler material and providing and filling new cinder to the common toilet area and WC including removing existing cinder, and disposal of unusable materials /debris outside the site premises to a distance not exceeding 5.0 KM not objected by local civic authorities including lead, lift etc, complete all as specified and directed by Engineer in Charge.</p>	Cum	3.00		
9	<p>WATERPROOFING OF SUNKEN AREA: Providing water proofing treatment over sunken slabs of toilets using admixtures of CERA/FOSROC/SIKA/DR.FIXIT/ASIAN or other approved equivalent make with standard procedures specified by manufacturer and approved by the Engineer in Charge. The treatment to be carried out by authorised applicator of the approved manufacturer.</p> <p>The brief methodology to be followed are as below: Cleaning the surface with wire brush on the slab to remove all deleterious matters. Cutting of 'V' grooves along the cracks and wall-slab joints and filled with cement sand mortar admixed with anti-shrink additives, (modified styrene butadiene rubber (SBR) based) at dosages as specified by the manufacturer.</p>	Sqm	35.00		

10	WPC DOOR SHUTTER & FRAMES FOR TOILETS : Providing and fixing factory-made solid Wood Polymer Composite (WPC) single extruded frame of 3" x 2" size having single rebate and provided with 28mm thick solid WPC single extruded door shutter of solid finish fixed with 4" hinges (min 4 Nos). The door frame to be fixed to the walls with holdfasts or bolt fastners (min 4 Nos for vertical members and 2 Nos for horizontal members). Each shutter to be provided with 1 No of cylindrical lock, 2 Nos of PVC handles, 2 Nos of PVC aldrops & 2 Nos of PVC tower bolts (5"). Each shutter shall be of size approx 2.5' (W) to 3'0"(W) x 7'(H)	No	5.00		
11	ANTI-SKID CERAMIC TILES FLOORING IN TOILET FLOORING & UTILITY AREA :Supplying and fixing Anti skid ceramic coloured floor tiles of minimum 300mmX300mmx8mm thick or bigger size of approved colour/pattern laid over a bedding layer of Cement Mortar 1:4,15mm thick manufactured by M/s RAK/Kajaria/Johnson/Somany to proper slope and joints neatly finished and pointed with jointing powder of matching colour pigment etc., complete all as specified and directed by Engineer-in-Charge. Note: 1)The rate quoted is deemed to include for all wastages. 2) The rate is deemed to include for dismantling the existing old mosaic floor tiles in any thickness, hacking out old plastering & disposal of unserviceable materials from the premises to a distance not exceeding 5.0KM not objected by local civic authorities including lead, lift etc.,complete all as specified and directed by Engineer in charge. 3) The basic cost of tiles shall not be less than Rs 80/sft.	Sqm	26.00		

12	<p>CERAMIC TILES DADOING IN PANTRY AND IN TOILET WALLS: Supplying and fixing coloured ceramic tiles for dado minimum size 450mm x 350mmx7mm thick or bigger size of approved colour/pattern laid over a backing coat of Cement Mortar 1:4,15mm thick manufactured by M/s RAK/Kajaria/Johnson/Somany and joints neatly finished and pointed with jointing powder of matching colour pigment etc., complete all as specified and directed by Engineer-in-Charge. Note: 1) The rate is deemed to include for providing a dubbing coat of 15mm thick in Cement Mortar 1:6 on irregular face of walls. 2) Wastages. 3) The rate is deemed to include for dismantling the existing old mosaic wall tiles in any thickness, including existing old washbasin, hacking out old plastering & disposal of unserviceable materials from the premises to a distance not exceeding 5.0KM not objected by local civic authorities including lead, lift etc.,complete all as specified and directed by Engineer in charge. 3) The basic cost of tiles shall not be less than Rs 80/sft.</p>	Sqm	230.00		
13	<p>Supplying and fixing 25mm thick polished black Granite slab on brick support walls for wash basin & urinal partitions. Granite to be polished on one side for laying on brick support walls and both side polished for urinal partitions jointed neatly with cement mortar and pointed with black oxide or coloured cement compound to match the colour of granite including cutting to template and grinding the edges nosing half round to the slab to fix wash basin & urinal partitions etc., complete all as specified and directed by Engineer in charge. Note: The quoted rate is inclusive of a) cutting the granite to template to fix the wash basin & urinal partitions. b) wastages. c) Brick wall supports will be measured & paid seperately under relevant item.</p>	Sqm	10.00		

14	Supplying and fixing white vitreous chinaware countertop hand wash basin oval shape of 600mm diameter approximately or approved size manufactured by M/s. Parryware/ Hindware /M/s.Cera/ conforming to relevant IS, fixed in 25mm thick Granite slab & jointed neatly finished with cement mortar and pointed in cement slurry/jointing powder with matching pigment including all accessories such as 32mm diameter brass chromium plated waste coupling of M/s Parryware/Hindware, PVC connection pipe of length 450mm, angle cock / stop cock etc., all lead, lift, tools, labour etc., complete all as specified and directed by the engineer-in-charge. Note: The rate quoted for this item shall be excluding 20mm thick granite slab which will be measured and paid under relevant item.	No	3.00		
15	Supplying and fixing new coloured vitreous chinaware floor mounted European type water closet of Model No: CNS-WHT-553SN) of approximate size (530mmx380mmx400mm)/ bigger size with low level PVC flushing cistren of 12 litres capacity of first quality, conforming to relevant IS, Manufactured by M/s Jaguar Continental series/Parryware/Cera including white PVC seat cover, brass Chromium plated angle cock, 450 mm long PVC Connecting pipe,' P' or 'S' Trap with concealed brackets, flush pipe, health faucet with gun & flexible connection pipe, drain outlet fittings and necessary fittings, fixtures and hardware including making good the walls/floor wherever required etc., complete all as specified and directed by the Engineer in Charge.	No	2.00		

16	<p>Supplying and fixing new single bowl Stainless steel Kitchen Sink -satin finish of approved model 1.0mm thick with minimum size not less than 525mmx450mm (18"x21" x 8" depth) approximately manufactured by M/s. Carysil/Nirali/Futura/Jindal/Franke(610 X INSTI) fixed over 25mm thick Granite slab & jointed neatly finished with cement mortar and pointed in cement slurry/jointing powder with coloured matching pigment including all accessories viz., waste coupling, waste pipe etc., complete all as specified and directed by the engineer-in-charge.</p> <p>Note:1). The rate quoted for this item should be excluding 20mm thick granite slab which will be measured and paid separately under relevant item. 2). The Contractor shall submit the warranty certificate from the manufacturer to BEML)</p>	No	1.00		
17	<p>Supplying and Laying the 20mm diameter, heavy grade CPVC water tubing for both hot & cold water supply manufactured by M/s.Supreme/Astral/Ashirwad, laid in required length/gradient in walls, flooring & trenches including all standard CPVC fittings such as elbows, collars, Tees, MTA, FTA, PVC Clamps including cutting & making good the floor/walls with cement mortar wherever necessary etc., complete all as specified and directed by Engineer-in-charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.</p>	Rmt	75.00		

18	Supplying and Laying the 25mm diameter, heavy grade CPVC water tubing for both hot & cold water supply manufactured by M/s.Supreme/Astral/Ashirwad, laid in required length/gradient in walls, flooring & trenches including all standard CPVC fittings such as elbows, collars, Tees, MTA, FTA, PVC Clamps including cutting & making good the floor/walls with cement mortar wherever necessary etc., complete all as specified and directed by Engineer-in-charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	40.00		
19	Providing & fixing 110mm diameter 6kg/cm2 UPVC pipes manufactured by M/s.Supreme/ Astral conforming to relevant IS for sanitary, waste water, rain water laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tees & fixtures such as pipe clips, PVC clamps wooden plug, screws, washers etc fixed/ secured firmly etc.,complete all as specified and directed by Engineer in Charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	50.00		
20	Providing & fixing 75mm diameter 6kg/cm2 UPVC pipes manufactured by M/s.Supreme/ Astral conforming to relevant IS for sanitary, waste water, rain water laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tees & fixtures such as pipe clips, PVC clamps wooden plug, screws, washers etc fixed/ secured firmly etc.,complete all as specified and directed by Engineer in Charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	75.00		

21	Providing & fixing 160mm diameter 6kg/cm ² PVC pipes manufactured by M/s.Supreme/ Astral conforming to relevant IS for sanitary, waste water, laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tees, & fixtures such as pipe clips, PVC clamps wooden plug, screws, washers etc fixed/secured firmly etc.,complete all as specified and directed by Engineer in Charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	75.00		
22	Supplying & fixing in position M/s. Jaquar (ARI-39347S/SOL-6347/FLR-5347N) make swan neck brass chromium plated wall mounted sink cock with swinging spout with wall flange with necessary hardware/accessories etc., complete all as specified and directed by Engineer in charge. (Note: The warranty certificate from the manufacturer shall be submitted to BEML)	No	1.00		
23	Providing & fixing Jaquar make ESSCO Health Faucet with gun of model: ALE-ESS-583 with all necessary fittings & fixtures etc., complete all as specified and directed by Engineer in charge.	No	4.00		
24	Supplying and fixing 15mm diameter brass chromium plated pillar cock of first quality conforming to relevant IS manufactured by M/s.Jaguar (OPP-CHR-15001PM)/ Hindware including necessary accessories etc., complete all as specified and directed by Engineer in charge.	No	3.00		
25	Supplying and fixing 20 mm diameter brass chromium plated concealed Stop cock of first quality approved brand manufactured by M/s.Jaguar /Parryware including all accessories conforming to relevant IS etc., complete all as specified and directed by Engineer in Charge.	No	10.00		
26	C.I. NAHANI TRAP: Providing and fixing 110mm diameter uPVC floor trap of self-cleansing design with 50mm water seal and with grated SS jali of required size with all necessary fixtures and fittings etc., complete all as specified and directed by Engineer in Charge	No	8.00		

27	C.I.GULLY TRAP: Providing and fixing 110mm diameter uPVC floor trap of self-cleansing design with 50mm water seal and with grated SS jali of required size with all necessary fixtures and fittings etc., complete all as specified and directed by Engineer in Charge	No	4.00		
28	Providing and fixing new vitreous china ware Orrisa type pan water closet squatting pan of Model No: C894F of approximate size (580mmx440mmx300mm)/ bigger size (Indian type ACE PAN) manufactured by M/s. Parryware/Hindware make with 110 mm bore P or S trap, 10/12 litre capacity P.V.C. low level flushing tank with manually controlled device conforming to relevant IS, manufactured by M/s. Parry Ware / M/s.Hindware/M/s Cera including foot rests, 32mm diameter PVC flush pipe, 450mm length PVC connection pipe, cutting and making good the walls and floors wherever required including all lead, lift, tools, labour etc., complete all as specified and directed by the Engineer in Charge.	No	2.00		
29	Supplying and fixing vitreous chinaware white wall hung flat back ceramic urinal basin Model: C0583/C0575 (Combo set) of size minimum 380mmx405mmx590mm or bigger the size manufactured by M/s. Parryware/ Hindware/Cera/ including, flush pipe, waste coupling, waste pipe, accessories etc., of reputed manufacturer conforming to relevant IS etc complete set and fixing / bedding urinal against wall in cement mortar 1:2, securing urinal with bolts including brass screws, pointing around urinal back in cement mortar and with all drain outlet fittings.etc., complete all as specified and directed by the Engineer-in-charge.	No	2.00		
30	Supplying & fixing 100 mm diameter P trap for chambers of M/s.Supreme / Astral make including jointing with solvent cement etc., complete all as specified and directed by Engineer in charge.	No	4.00		

31	CONSTRUCTION OF CHAMBERS: Construction of 2'x2'x1'6" for single pipe line using 4" solid block, inside plastering 12mm thick and bed concrete etc.complete all as specified and directed by Engineer in charge.	No	2.00		
32	Supplying and fixing 15mm diameter brass chromium plated quarter turn short body Bibcock of first quality approved brand manufactured by M/s.ESS ESS/Parryware/ Johnson/Hindware including all accessories conforming to relevant IS etc., complete all as specified and directed by Engineer in Charge.	Nos	3.00		
33	Supplying & fixing 15mm diameter brass chromium plated quarter turn 2 in 1 Bib cock of first quality approved brand manufactured by M/s.ESS ESS/Parryware/ Johnson/Hindware including all accessories conforming to relevant IS etc., complete all as specified and directed by Engineer in Charge.	Nos	2.00		
34	DRESSING MIRROR: Providing and fixing Dressing Mirror with 4mm mirror of approx size 760 x 1220mm pasted on 12mm EG-MDF sheet and fastened to wall surface with SS studs including polished /chamfered edges for mirror, PVC edge banding for EG-MDF and all accessories etc complete all as specified and directed by Engineer in Charge.	No	3.00		
35	Supplying & fixing 40mm diameter Bottle trap of first quality, approved brand conforming to relevant IS manufactured by M/s.ESS /Parryware (G3403A1/G5103A1/Johnson/ Hindware including necessary accessories etc., complete all as specified and directed by Engineer-in-charge.	Each	3.00		
36	Supplying & fixing 110 mm diameter PVC Air vent cowl Manufactured by M/s Supreme/Astral conforming to relevant IS etc including all fittings & fixtures etc., complete all as specified and as directed by Engineer in charge.	Each	2.00		

37	Supplying and fixing Brass chromium plated Urinal Spreader of first quality approved brand conforming to relevant IS etc., manufactured by M/s Parryware/Hindware/Cera with all fittings & fixtures etc.,complete all as specified and directed by Engineer-in-charge.	Nos	2.00		
38	Supplying and fixing brass chromium plated Push cock of first quality approved brand conforming to relevant IS etc., manufactured by M/s Parryware/Hindware/Cera/ etc.,complete all as specified and directed by Engineer-in-charge.	Nos	2.00		
39	Supplying and fixing 450mm/480mm diameter heavy duty, steel body exhaust fan manufactured by M/s.Bajaj/USHA/ brand conforming to relevant IS etc.,complete all as specified and directed by Engineer-in- charge.	Each	2.00		
40	Supplying & fixing stainless steel soap dish/tray manufactured by M/s Parryware/ Hindware/CERA /Johnson including all fittings & fixtures etc., complete all as specified and directed by Engineer-in-charge.	No	3.00		
41	Preparing and complete removal of the existing surface of internal walls by scrapping, sandpapering, removing dust & including providing necessary repairs to cracks and filling the cracks with suitable crack filling compound and applying 2 or more coats of Premium Plastic emulsion paint of approved colour/shade manufactured by M/s. Asian Paints-(Royal Shyne)/Berger Paints-(Silk Glamour Matt or Sheen) over a coat of royal primer and 3mm thick full putty etc., complete all as specified and as directed by Engineer in Charge. Note: The rate is deemed to include for Providing & removal of scaffolding wherever necessary b) Wastages. 3) Removing all splashes, dirt, etc. and leaving premises in a clean state.	Sqm	650.00		

42	VITRIFIED TILES FLOORING IN FPI & IC AREA OVER EXISTING MOSAIC FLOOR INCLUDING SKIRTING: Hacking the existing flooring and Providing and laying premium quality glazed Vitrified tiles over existing mosaic flooring with roff adhesive in different sizes (thickness to be specified by manufacturer), manufactured by M/s RAK/Johnson/Kajaria tile adhesive to be made up of M/s BAL ENDURA/ROFF/FOSROC/PIDILITE/LATICRETE with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.as per instructions of architect. (Basic price of tiles shall not be less than Rs.130/Sft). The clear dimension of floor and skirting in Sq. m will be taken for measurement. (Thickness of tiles to be 10 to 20mm as per the instructions of Engineer in charge). The tiles laid after placing electrical conduit over the existing floor etc., complete all as specified & as per instructions of Engineer - in charge.	Sqm	600.00		
43	Preparing the new/old Painted surface of external walls including stucco area by water washing, sand papering/wire brushing including providing necessary repairs to cracks, and cleaning the surface from dust, dirt and filling/closing the cracks with suitable crack filling compound and applying two coats of exterior emulsion paint of first quality approved brand and colour manufactured by M/s. Asian Paints (Apex ultima)/Berger Paints after successively drying each coat over a coat of primer and touch up putty wherever necessary etc., complete all as specified and directed by Engineer in Charge. Note: 1) The rate quoted is deemed to include for providing and removal of scaffolding, staging/ladder, suspending jhoola wherever required and protective measures etc. 2) Cleaning the floor surface after painting. 3) wastages.	Sqm	1500.00		

44	Supplying and fixing brass chromium plated towel rail 600mm long of M/s. Jaguar/parryware with all fittings, accessories etc., complete all as specified and directed by the Engineer in charge.	Nos	3.00		
45	Supplying & fixing 100mm diameter brass chromium plated grating of first quality & reputed manufacturer conforming to relevant IS etc., complete all as specified and directed by Engineer in charge.	Each	10.00		
46	Preparing the steel surfaces by scrapping & applying two coats of synthetic enamel paint of first quality, approved brand and colour, Manufactured by M/s Asian paints/Berger over a coat of yellow/red oxide zinc chromate primer etc., Complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding, staging/ladder wherever necessary and protective measures etc.	Sqm	250.00		
47	Supplying & fixing solid body brass chromium plated double coat hook of of M/s. Jaguar/Parryware including necessary accessories etc., complete all as specified and directed by Engineer-in-charge.	No.	3.00		
48	Supplying and fixing in position Pre-cast/cast in situ RCC manholes cover with MS frame of approx size 600x 600x 100mm, heavy duty including formwork for cast-in-situ work etc complete all as specified and directed by Engineer in charge.	Each	2.00		
49	Cutting holes in brick walls built in cement mortar without damaging the adjacent walls etc, and making good the dismantled portion with cement mortar 1:3 including curing etc., complete all as specified and directed by Engineer in charge.	Nos	5.00		
50	Supplying and mixing M/s. Fosroc make CONPLAST X42 IC/WL while rendering for the roof slab and parapet wall surfaces as per Manufacturer's instructions (200ml/bag of cement) etc., complete all as specified and directed by the Engineer in charge.	Litres	5.00		

	<p>Note: -1. The rate quoted for the above items is deemed to include for providing and removal of scaffolding/staging wherever necessary.</p> <p>2) The contractors/ prospective bidders shall visit the site and acquaint themselves with the site conditions before submission of bid/ quote.</p>				
	B. Sub Total value excluding GST (Rs).				
	GST (Rs).				
	C. Sub Total value inclusive of GST (Rs)				

C	C ELECTRICAL WORKS							
Sl. No	Description	Unit	Qty	SUPPLY		INSTALLATION		TOTAL AMOUNT (Rs)
				RATE (Rs)	AMOUNT (Rs)	RATE (Rs)	AMOUNT (Rs)	
I	FACTORY-BUILT MCB DISTRIBUTION BOARDS;							
I	LT ELECTRICAL PANEL FOR INCOMER							
	MEDIUM VOLTAGE SWITCH BOARDS							
	Supply, store, Installation, Testing and Commissioning of 3 Phase, 4 wire, 415 Volts, 3 Phase, 50 Hz. panels. The fabrication shall be made with 14/16SWG cold rolled sheet with machine pressing. The surface shall be rigorously treated for derusting in 7 tank processes with dephosphating and painting with at least 2 coats of approved paint. The panel shall be totally enclosed metal clad type with double gasketing with rubber / resin lining. The panel shall be off white painted inside and shall be having control directory pasted inside the panel. The panel shall be mounted on existing trench and shall have cable entry provision from the top and bottom with suitable alley as the case may be. The panel shall be tested for the same KA rating of the from ISO-9001 companies and shall have relevant IS/IEC approvals without fail. (Fabrication, drawing and list of components and panel detail shall be got approved by consultants before fabrication). complete as required. Erection rate rate shall include base channel, grouting/grip bolts etc.	Each	1.00					
	MAIN LT PANEL							
	Incoming							

	1 No.250A,36KA,4P, MCCB, O/L; 0.4 - 1 x In, SC: 1.5 – 10 x Ir (MP based) KWH Energy Meter, Counter type: 1 No., MFM Meter: 1 Nos., CTs: 4 Nos., ELR with CBCT: 1 No., Indicating Lamps:5 Nos., 300A, TPN+E, 36KA, Aluminum Bus bars							
	Out Going:							
	2No.100A, 25KA, TPN, MCCB, O/L; 0.7 - 1 x In, 1Nos.160A,25KA, TPN, MCCB, O/L; 0.7 - 1 x In, 1No.63A,25KA, TPN, MCCB, O/L; 0.7 - 1 x In, 4Nos.63A, TPN, MCB,10KA, KWH Digital multi-Energy Meter, Counter type: 4 Nos.							
2	Supply of MCB / MCCB Distribution Boards, wall-mounted (either surface or recessed type). Space provision shall be made for mounting ELCB in the incomer MCB. The rate shall be same for any combination of outgoings.							
	VERTICAL type TPN DB							
a	8 Way TPN DB with 63A TPN MCCB 'C' Curve MAIN Incomer and 12 Nos 16A 1 Pole MCB outgoings. (C Curve) (RAW POWER AND AC DB)	Each	2.00					
b	4-Way TPN DB with 63 Amps TPN MCB "C" Curve as main incomer and 12 nos. Outgoing, each outgoing with 6/20A 1-Pole 'C' Curve MCB (LTNG DB)	Each	1.00					
c	8 Way VTPN PHASE DB with 32 Amps DP MCB "D" Curve incomer and 16 nos. 1-pole MCB "D" Curve outgoings. Space provision for ELCB shall be provided for Incomer. for (UPS DB)	Each	2.00					
	POWER & CONTROL CABLES;							
3	Supply, laying & testing of 1.1 kV Grade XLPE / PVC/FR insulated aluminium/COPPER / FLEXIBLE conductor steel armoured power cables as per IS specification. The rates quoted shall be for laying in trays, cable trenches (indoor and outdoor), pipes etc. For buried cables the excavation work will be included under the heading civil works for outdoor							

	cable laying.							
a	4 Core x 16 Sq.mm copper armoured Cable for DB and ups	Meters	350.00					
b	3 Core x 6 Sq. mm copper unarmoured PVC Cable for ac unit	Meters	540.00					
c	4 Core x 25 Sq.mm ALUMINIUM r armoured Cable for DB	Meters	300.00					
	Cable End Termination:							
4	Supply and providing & installation of the end terminations with copper cable lugs, single compression brass cable glands, taping, crimping, gland and earthing etc. complete as required.							
a	4 Core x 16 Sq.mm copper armoured Cable	Each	14.00					
b	3 Core x 6 Sq. mm copper unarmoured PVC Cable	Each	40.00					
c	4 Core x 25 Sq.mm ALUMINIUM r armoured Cable for DB	Each	6.00					
	SWITCHES AND SOCKET OUTLETS; Industrial type							
5	Supply, erection, testing and commissioning of factory-made metal clad totally enclosed with cast aluminium housing with industrial socket/interlocked combined rotary switch and socket with scrapping earth connection and plug top (all switches & sockets shall be housed in painted MS boxes). The erection rate shall include supply of angle iron frame work and fixing accessories such as grip bolts / grouting etc.	Each	2.00					
	32 Amps, 2 pole MCB isolator with plug and socket polycarbonate enclosure for UPS incomer and outgoing with IP 44 protection							
6	SWITCHES AND SOCKET OUTLETS; Commercial type							

	Supply, erection, testing and commissioning of power points by providing following switches/sockets mounted flush on to the furniture partition wall or fixed to surface or recessed boxes with all fixing and wiring accessories.							
a	SITC with following items suitable for green building energy efficient standard. 1 x 20 Amps, 3-pin (250Volts) single phase universal socket with 20 Amps single pole MCB mounted plug and socket board with IP40 accordance with IS 13033, IS8123, IEC/EN 60439-3 configuration shall be round type. From the scope of supply (for AC power).	Each	20.00					
b	SITC with following items suitable for green building energy efficient standard. Plated or powder coated steel/ PVC boxes for fixing the socket 1 x 16 amps 3 pin shuttered modular socket with 16 amps switch mounted on modular plate and box for raw power supply	Each	20.00					
c	SITC with following items suitable for green building energy efficient standard. Plated or powder coated steel/ PVC boxes for fixing the socket 2 x 6 amps 3 pin shuttered modular socket with 2 x 6 amps switch mounted on 6 modular plate and box for UPS workstation power supply	Each	98.00					
d	SITC with following items suitable for green building energy efficient standard. Plated or powder coated steel/ PVC boxes for fixing the socket 4 x 6 amps 3 pin shuttered modular socket with 2 x 6 amps switch mounted on 12 modular plate and box for UPS workstation power supply	Each	5.00					
	SUB MAINS / CIRCUIT MAINS / POWER WIRING;							
7	Supply and running of 1100 V grade PVC insulated copper conductor (FRLS) wires in 2 mm thick PVC conduits (FRLS). The rate shall include supply and installation of all materials like conduits, wires, fixing accessories etc.							

a	32 mm, dia (FRLS) PVC conduit with all accessories.	Meters	50.00					
b	25 mm, dia (FRLS) PVC conduit with all accessories.	Meters	350.00					
c	19 mm, dia (FRLS) PVC conduit with all accessories.	Meters	550.00					
d	Supply & running of 2 x 6sq mm and 1 x 2.5sq mm PVC insulated FRLS copper wires in existing conduits / raceways. FOR RAW POWER	Meters	500.00					
e	Supply & running of 2 x 4sq mm and 1 x 2.5 sq mm PVC insulated FRLS copper wires in existing conduits / raceways. LIGHTING MAIN CIRCUIT	Meters	850.00					
f	Supply & running of 2 x 2.5 sq.mm and 1 x 1.5 sq.mm FRLS copper wires in existing conduits / raceways.	Meters	450.00					
8	POINT WIRING;							
	NOTE: Light point controlled directly by switch in switch board shall be measured under the heading SUB-MAINS / CIRCUIT MAINS / POWER WIRING only.							
	Point wiring area with flat / false ceiling: Wiring with 2x2.5 FRLS PVC insulated 1100V grade copper conductor wires and 1 x 1.5 FRLS PVC insulated earth wire in 2mm thick FRLS PVC conduit. Height of ceiling varies from 3.5 to 5.5 meters. A separate neutral shall be run for each circuit.							
a	Single light point not more than 7M length controlled by '6 Amps switch.	Each	20.00					
b	Two light point of not more than 13M length controlled by 6 Amps switch.	Each	25.00					
c	Two Way switch controlled by one light point	Each	4.00					
d	Three/4 light points of not more than 15M length controlled by 6 Amps switch.	Each	20.00					

e	5/6 light points of not more than 20M length controlled by 6 Amps switch.	Each	15.00					
f	8/10 light points of not more than 25M length controlled by 6 Amps switch.	Each	4.00					
g	Exhaust fan point with wall-mounted 5A 3-pin socket near fan location and 10 Amps single pole controlling switch located independently. The rate shall also include supply of 5 Amps 3 pin plug top.	Each	4.00					
g	LIGHT FIXTURE / CEILING / EXHAUST FANS; Supply, Store, Erection of Lighting Fixture: Supply, Erection and testing and commissioning the following light fixtures complete with all accessories.							
a	SITC 16 W LED tube light batten type 4 ft fitting with IP 20 protection steel body with 6500 k light fixture of PHILIPS, BAJAJ, HAVELLS, WIPRO, any reputed make/brands	Each	7.00					
b	SITC 9 W LED round light recess mount suitable for false ceiling Aluminium diecast polycarbonate body 230 v i/p white fixtures of (PHILIPS, BAJAJ, HAVELLS, WIPRO, any reputed make / brands	Each	50.00					
c	SITC 22 W LED SQUARE /round light recess mount suitable for false ceiling Aluminium diecast polycarbonate body 230 v i/p white fixtures of (PHILIPS, BAJAJ, HAVELLS, WIPRO, any reputed make/ brands)	Each	95.00					
d	SITC 1 X 18 W LED round light recess mount suitable for false ceiling Aluminum diecast polycarbonate body 230 v i/p white fixtures of M/s (PHILIPS, BAJAJ, HAVELLS, WIPRO, any reputed make/brands)	Each	4.00					
e	SITC 1X 25 W LED 2 X 2 SQUARE light recess mount suitable for false ceiling Aluminium diecast polycarbonate body 230 v i/p white fixtures of M/s (PHILIPS, BAJAJ, HAVELLS, WIPRO, any reputed makes/brands)	Each	125					

f	SITC OF LED STRIP LIGHT WITH WATER PROOF COVRING Technical data • Rated voltage: 12V DC • Power consumption: 20W/m • Luminous efficiency: 6-7lm/LED • Number of LEDs: 2X120pcs/m • LED type: SMD3528 20 MTR STRIP WITH SUTABLE DRIVE FOR THE SAME	Each	8.00					
g	SITC OF 300 mm impeller dia, 1400 rpm exhaust fan (1- phase) 5 blades, whose aerodynamic design ensures a greater amount of air circulation and are attached in a balanced structure. The sweep size is 300mm for this aesthetically appealing product. (HAVELLS/ BAJAJ/ USHA/ ALMONARD)	Each	4.00					
10	POWER EARTHING SYSTEM;							
	Earthing Stations							
	Providing the earth stations with necessary materials, labour, civil works etc. as per Indian Standard specification IS:3043 etc. complete.							
a	3 Mtrs. long 50 mm dia. GI Pipe electrode earth station. plate. The identification number shall be provided both inside and outside.	Each	2.00					
b	Earthing Flats / Wires :							
c	25x3 mm GI r tape with sleeves.	Mtrs	10.00					
d	8 SWG Copper wire	Mtrs	10.00					
e	6 SQ MM GREEN Copper wire WITH FRLS INSULATION	Mtrs	25.00					
f	PIPES:							
	Supply and laying of pipes in wall / floor / in ground including chipping/excavation/Road cutting laying and making good the surface as required. Any collars and bends and nipples required shall be laid at a depth of 900 mm below ground level or under paved areas / under floor as required.							
	25 mm dia Class "B" G I pipe.	Mtrs	50.00					

11	SITC OF FLOOR JUNCTION BOX OF HEIGHT 25 MM 50 X 50 MM SIZE WITH COVER	NOS	25					
12	SITC OF FLOOR ALUMINIUM RACE WAY FOR ELECTRICAL WORKS OF HEIGHT 50 X 50 MM SIZE WITH COVER	MTR	150					
13	Cutting of floor for laying conduits for LAN / Telephone system of size required at site, and may good by providing chicken mesh and rough plastering.	Cu. Mtrs.	50					
14	UNINTERRUPT POWER SUPPLY SYSTEM (UPS)							
	Supply Installation, testing & Commissioning of microprocessor based 10 kVA UPS with IGBT based Rectifier and Inverter only. UPS Should be True Online Double Conversion (VFI as per IEC62040-3). 3 Phase input & 3 Phase output each comprising of the following.	SET	1.00					
	THD(i) shall be less than 5% @ 100% load.							
	Input power factor shall be more than 0.98. from 50% to 100% load							
	Shall have soft start Facility for Compatibility with Generators							
	Inverter capability to supply 150% load for 30 sec.							
	Shall not allow deep discharge of the battery. There should be a external MCCB available with UV trip coils. The MCCB should disconnect itself in case of UV or emergency conditions.							
	Shall have inbuilt SNMP, Modbus Cards installed for monitoring on BMS.							
	UPS to have inbuilt Static By-pass enabled							

	Battery Bank of 10KVA UPS at 0.80 output power factor strictly as per specification given in the document. UPS of 10KVA shall have 30 min. battery backup. Battery Racks, Intercell & Inter Tier Connectors for the battery Banks, External MCCB with UV coils and UPS to Battery Cables for a distance of 20 mtrs. The battery shall comprise of 12 volt cell and size and combination of bank in terms of VAH shall be clearly mentioned with battery calculation with inverter efficiency as 0.94 or less, end of cell voltage shall be taken as 10.5 volts.							
15	PA SYSTEM FOR CONFERENCE ROOM							
a	Supply and fixing of Cat 6 cable for data ports	Mtrs	200.00					
b	RECESS MOUNT CEING SPEAKER BOSH	Nos	10.00					
c	AMPLIFIER AND MIKE FOR ANOUNCEMENT SET	Nos	1.00					
16	AC WORKS							
(A)	Supply, Installation, Testing & Commissioning of following high wall mounted Cassette / Inverter Split AC along with 5 Mtrs. Refrigerant piping & cabling, irrespective of the number of circuits & stand for the condensing unit (Suction line to be insulated with elastomeric nitrile rubber tubular insulation of 9mm thickness adhesive & joints sealed with black monsoon tape) including stabilizer, The indoor unit shall contain multirow dx cooling coil,drier,blower with drive motor, including installation charges							
a	3.00 TR CASSETE INVERTER AIR CONDITIONER UNIT (in conference room area) in single phase with single star rating (Make: Voltas, Havells, Daikin 2.9 TR single phase with 5-star rating)	Nos.	1.00					
b	2.00 TR CASSETE INVERTER UNIT (in work station area) in single phase with three star rating (Make: Voltas, Havell,s, Daikin single phase 5 star rating)	Nos.	16.00					

c	Voltas, Havell,s Daikin Make 1.0 Ton Highwall Split AC Inverter five Star Rated (in executive cabin) Inverter Highwall 5 star rating units are available. All Highwall units available in Single Phase only.	Nos.	2.00					
(B)	Supplying, Installing, Testing & Commissioning with SOFT Copper piping with first charge of Refrigerant Gas & Oil, pressure testing, vacuumising etc. complete.							
*	<u>Note</u> : - Suction line and pressure line to be insulated with electromeric nitrile, rubber tubular insulation of 9mm thickness adhesive & joints sealed with black monsoon tape etc. complete as per instructions of the Architect / Consultant.	Rmtrs.	400.00					
(C)	Supplying / Installation / Testing & Commissioning of Copper Cables with Thickness - 3 core 4 sq.mm round sheeted cable for single phase and Thickness - 5 core 4 sq.mm round sheeted cable for for three phase.	Rmtrs.	300.00					
	Supply and fixing 16A switch combined plug and socket modular type box. For each AC unit	Nos	19.00					
(D)	Supplying / Installation / Testing & Commissioning stabilizer time delay 3kva / 5 kva	Nos	19.00					
(E)	Supplying / Installation / Testing & Commissioning 25mm PVC Drain Pipe.	Mtrs.	300.00					
	C. Sub Total value excluding GST (Rs).							
	GST (Rs).							
	C. Sub Total value inclusive of GST (Rs)							
	C Sub total Inclusive of GST (Rs.) (Supply and installation)							

D. NETWORKING WORKS

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
1	Supply & Installation of Information outlet (cat-6)	Nos	122		
2	Supply & Installation of 7ft patch cord (cat-6)	Nos	122		
3	Supply & Installation of Numbering ties,ties	Nos	50		
4	Supply & Installation of Face plate	Nos	122		
5	Miscellaneous expenses (gatta, screw, ferrules, tap)	Lumpsum	1		
6	Supply and fixing of Cat 6 cable for data ports	meters	2500		
7	Supply and laying of 19 mm conduit for data cabling	meters	350		
8	Supply and installation of 3 module PVC box	Nos	122		
9	Supply & Installation of 24 Port unloded patch penal	Nos	5		
10	Supply & Installation of 1'U'Cable manger	Nos	5		
11	Supply & Installation of 12'U'Rack with power stripper -01no and hardware.	Nos	3		
12	Supply & Installation of Hub tray	Nos	3		
	D. Sub Total value excluding GST (Rs).				
	GST (Rs).				
	D. Sub Total value inclusive of GST (Rs)				

Summary of total of all works.

	A. Sub total Interior works Exclusive GST (Rs.)	
	B. Subtotal Civil works Exclusive GST (Rs.)	
	C. Sub total Electrical works Exclusive GST (Rs.)	
	D. Sub total networking Exclusive GST (Rs.)	
	Grand Total Exclusive GST (Rs.)	
	GST ____%(Rs).	
	Grand Total value inclusive of GST (Rs)	

Note: Bidder should quote Grand total value excluding GST and select appropriate GST % in SRM portal.

Signature of the Contractor with seal