

BEML LIMITED, BANGALORE		
RMM/TEN- 6300039980	Date: 09.09.2025	
	Period of contract:	Five Months (05 Months)
ISSUED TO:	EMD :	Rs. 181950
Sub: Renovation of CQA Office Building at Bangalore Complex, BEML Limited, Bangalore.		

SCHEDULE 'A' - BILL OF QUANTITIES

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
A	INTERIOR WORKS				
1	Contractor to generate Interior layout drawings and all services drawings with all required shop drawings for Modular items , Interiors, Civil works, work stations , LT panel , HVAC drawings , Data & Networking layout , 2 set of As built drawings after project completion , Micro level delivery schedule of the project and get it approved along with all samples of materials to be use ,before commencement of the project from BEML authority , Submission of 3D rendered views. Note :To contractor before quoting for this project - Must have valid class I Civil & Electrical Contractors license on the participating firms name . Further, Contractor must have 3rd party electrical consultant on board for all electrical and panel drawing generation and approval .	Job	1.00		
2	Providing necessary repairs to existing false ceiling in any description in first floor including replacing the old damaged false ceiling with new false ceiling tiles of the matching pattern, shade and color with necessary hardware items etc., complete all as specified & directed by Engineer in charge.	Sq.m	95.00		
3	GRID FALSE CEILING : Providing & fixing of Soft Fibre Acoustical Suspended Ceiling system in module size of 600X600X15mm with Angled Tegular 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 rivit 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), Make - Armstrong	Sqm	230.00		

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4	Gypsum False ceiling with Cove light: Supplying and fixing gypsum board false ceiling (at different levels) in G.I. frame in 24 to 26 guage main frame bottom to bottom distance at 600mm, with cross patties at 450mm centre to centre with 24 to 26 guage angle cleats size 25mm X 25mm supported at 750 mm centre to center with 12 mm gypsum ceiling board of first quality, conforming relevant IS, manufactured by M/s Saintgobain/India Gypsum/Armstrong with sheet metal screws. The rate shall be inclusive of cutouts for lights. The ceiling shall be in perfect level and smooth in finish etc. all complete and as specified and directed by Engineer in charge. Note : Rate quoted for the item deemed to include all wastages	Sqm	180.00		
5	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. 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)	Sq.m	90.00		

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	(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(SCREWS GKW NETTLEFOLD/ TEKNIC FASTNERS)				
	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.				

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6	After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. 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. Note: 1) The quoted rate is deemed to include for removal of existing old MS/SS/Wooden windows and stacking at a place as shown by BEML Ltd. 2) The quoted rate is deemed to include for providing plastering to window area sides.	Sqm	50.00		
7	VERTICAL BLINDS : Providing and fixing 100mm wide venetian blinds of window fashion fabric of M/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.	Sqm	50.00		
8	BLACK OUT ROLLER BLINDS FOR CONFERENCE HALL : Providing and fixing 100mm wide venetian 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.	Sqm	15.00		

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9	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 furnitue, Nuline furniture,creative office systems etc., complete all as specified and directed by Engineer in charge.	Sqm	15.00		
10	FULL HEIGHT STORAGE upto 2100mm height in Storage room : 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 furnitue, Nuline furniture,creative office systems etc., complete all as specified and directed by Engineer in charge.	Sqm	5.00		
11	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 furnitue/ Neon Space , complete all as specified and directed by Engineer in charge.	Sqm	10.00		
	Work station tables : Tile Based System (75mm Thick) Frame work: made up of 02mm thick CRCA sheets with necessary slotting for wiring through out 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.				

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12	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 up holsted with the fabric / laminated with 01 mm laminate sheets. 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. 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. 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 furnitue, Nuline furniture,creative office systems)	Nos	20.00		
13	Executive tables : Supplying & fixing executive 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)	Nos	3.00		

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14	WOODEN FLOORING FOR CONFERENCE ROOM 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 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 thermofoam 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 manufacturers 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 before laying of the laminated wooden flooring. b) The rate is include for all wastages.	Sqm	100.00		
15	Supplying & fixing of High Back executive chairs of M/s Feather lite make/Eurotech with head rest, Dual back rest, back rest will be Dynaflex mechanism, Arms height adjustable, Arm Pad standard, leatherette multi-lock mechanism, phumatic gas lift, made of nylon / polypreplene base 26" dia, 50mm nylon castors 5 Nos. complete all as specified and directed by Engineer in charge.	Nos	4.00		
16	Supplying & fixing of of Medium Back chairs with back rest with adjustable lumber support, height adjustable Arms synchro mechanism, leatherette, multi-lock synchro mechanism, phumatic gas lift, made of nylon / polypreplene base 26" dia, 50mm nylon castors 5 Nos.complete all as specified and directed by Engineer in charge.	Nos	20.00		
17	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 guage GI metal all as per architect's instructions.	Nos	5.00		
18	Supplying and fixing of Eassy stick bent profile aluminium Skirting -of 60mm ht by using Slilcon , Tape and labour & power tools etc.,complete all as specified and directed by Engineer in charge.	RMT	50.00		
19	Supplying & fixing of 3 (three) Seater sofa in leatherite finish with SS frame and legs,.complete all as specified and directed by Engineer in charge.	Nos	2.00		

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20	Supplying & fixing of single Seater sofa in leatherite finish with SS frame and legs..complete all as specified and directed by Engineer in charge.	Nos	2.00		
21	Supplying & fixing Teapoy will be of square Chrome Frame with Glass Top Size : 600 (W) X 600 (D) X 425 (H) of first quality reputed manufacturer etc.,complete all as specified and directed by Engineer in charge.	Nos	1.00		
B	CIVIL WORKS				
22	Preparing and complete removal of the existing surface of ceiling 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	380.00		
23	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	500.00		
24	Hacking the existing old mosaic/vitrified flooring tiles & Providing & laying 10mm thick vitrified tiles (square / rectangular shape) manufactured by M/s. Nitco/Johnson/ Kajaria/Somany/RAK in floor & skirtings (6" ht), set and jointed & fixed with tile adhesive of M/s FOSROC/ROFF/Epoxy base adhesive and pointed with white cement & matching coloured pigment to match with the existing shade of selected tiles etc., complete all as specified & directed. Note: (1) Skirting tiles will be measured and paid in this item on area basis only and no separate measurement (in RFT/RMT) will be allowed (2) The quoted rate is deemed to include for all wastages.(3) The basic cost of tiles shall not be less than Rs.80/Sqft inclusive of GST & contractor has to produce documentary evidence/invoice for the same for settlement of bills	Sqm	420.00		

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25	Preparing the existing old wooden surfaces of wall panelling, doors, windows,etc., by scrapping, cleaning & applying two or more coats of Melamine polish with wood filler of matching color pigment/powder, manufactured by M/s.Asian paints / M/s. Berger Paints etc., to achieve matt finish complete all as specified and directed by Engineer in Charge. Note: The rate is deemed to include for 1) Wastages. 2) Scaffolding.3) Removing all splashes, dirt, etc. and leaving premises in a clean state.	Sqm	15.00		
26	Removing the Wooden door shutter of size approximately 1.05m x 2.10m carefully by manual means carefully without breaking, stacking at a place all as shown & refixing back the shutter in the same location with necessary modifications including altering the height of shutter if required including providing & fixing all necessary hardware items viz., door stopper, aldrop, brass butt hinges, door closure, towerbolts, door knob etc., complete all as specified and as directed by Engineer in charge. Note: The rate quoted is deemed to include for making good the adjacent portion of wall/plastering if damaged during dismantling.	Each	8.00		
27	Dismantling the existing 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	90.00		
28	Dismantling and removing the Concealed water lines, of any description, Water closet, washbasins, plumbing fittings, water & sewage pipes etc from the 01no bathrooms of approx. size 2.60 Mtr X 1.85 Mtr (Approx) and shifting of non useable material , debries outside the premises, carting away & disposal to a far off place not objected by any civic authorities etc complete all as specified and directed by Engineer in charge and installation of new plumbing lines for water , swege and waste water line to suit the toilet requirement .	Job	1.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
29	Removing the existing old wash basin/SS Sink & handing over the same to M/s BEML and 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 20mm 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, Cantilever CI brackets etc., complete all as specified and directed by the engineer-in-charge. 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)	Nos	1.00		
30	Providing & constructing Burnt brick masonry of required thickness in Cement Mortar 1:6 using first class table moulded bricks including necessary curing 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.	Cum	2.00		
31	Supplying and fixing 20mm thick polished black Granite slab on brick support walls for SS Sink and jointed neatly with cement mortar and pointed with black oxide or coloured cement compound to match the colour of granite including oval shape cutting charges and grinding the edges (Nosing) half round around the slab as per the template to fix wash basin 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 SS Sink. b) wastages. c) Brick wall supports will be measured & paid separately under relevant item.	Sqm	6.00		
32	Rendering/Plastering 15mm 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	70.00		
33	Supplying and fixing Brass chromium plated long body Pillar Cock of first quality, confirming to relevant IS, manufactured by M/s Jaquar (Model-FLR-CHR-5021M)/ etc., complete all as specified & directed by Engineer-in-charge.	Each	2.00		
34	Supplying and fixing Brass chromium plated Angular Stop cock (CON-CHR-053KN) of first quality, confirming to relevant IS, manufactured by M/s Jaquar all as specified & directed by Engineer-in-charge.	No	3.00		

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35	Supplying & fixing 40mm diameter Bottle trap of first quality, approved brand conforming to relevant IS manufactured by M/s.ESS /Parryware/Johnson/Hindware/equivalent approved make including necessary accessories etc., complete all as specified and directed by Engineer-in-charge.	Each	2.00		
36	Supplying and fixing Brass chromium plated Soap Dispenser with glass bottle of first quality, confirming to relevant IS, manufactured by M/s Jaquar (ACN-CHR-1135N) all as specified & directed by Engineer-in-charge.	Nos	2.00		
37	Supplying and fixing SS 450mm long Towel Rod of first quality, confirming to relevant IS, manufactured by M/s Jaquar (ACN-CHR-111BSM) all as specified & directed by Engineer-in-charge.	Nos	2.00		
38	Supplying and fixing Fancy type bathroom corner glass shelf with bracket of first quality, confirming to relevant IS, manufactured by M/s Jaquar (Model-ACN-CHR-1173)/ equivalent in M/s. Jaquar etc., complete all as specified & directed by Engineer-in-charge.	Nos	2.00		
39	LED MIRROR: Supplying & fixing of new rectangular wall mounted Smart LED touch screen Mirror with beveled edge for toilets of Size : 4'X2' approximately , battery operated sensors for lighting as per the requirement etc, mirrors to be of first quality of M/s Venetian image/Philips/Equivalent including all necessary accessories and hard ware items etc.,all as specified and as directed by Engineer In Charge.	Sqm	2.00		
40	Supplying and Laying the 20mm diameter, heavy grade CPVC water tubing manufactured by M/s.Supreme/Astral/Ashirwad/equivalent approved make, 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	20.00		
41	Supplying and Laying the 25mm diameter, heavy grade CPVC water tubing manufactured by M/s.Supreme/Astral/Ashirwad/equivalent approved make, 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	20.00		

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42	Providing & fixing 110mm diameter 6kg/cm2 PVC pipes manufactured by M/s.Supreme/ Astral or equivalent conforming to relevant IS for sanitary, waste water, laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tees, tail pieces & 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	25.00		
43	Providing & fixing 75mm diameter 6kg/cm2 PVC pipes manufactured by M/s.Supreme/ Astral or equivalent conforming to relevant IS for sanitary, waste water, laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tees, tail pieces & 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	15.00		
44	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. 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)	Nos	1.00		
45	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	3.00		
46	Supplying & fixing PVC SWR Gully trap 125/110mm of M/s.Supreme / Astral make including jointing with solvent cement.etc., complete all as specified and directed by Engineer in charge.	No	3.00		
47	Supplying & fixing PVC Nahani trap 75/100mm of M/s.Supreme / Astral make including jointing with solvent cement etc., complete all as specified and directed by Engineer in charge.	No	3.00		
48	Supplying and fixing 100mm diameter SS grating of first quality approved brand etc. complete all as specified & directed by Engineer-in-charge.	Nos	5.00		

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49	Supplying and fixing 450 / 480mm diameter heavy duty industrial exhaust fan of M/s. Bajaj/ Usha/ Crompton Greaves conforming to relevant IS etc., complete all as specified and directed by Engineer in charge.	Each	2.00		
50	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) .	Nos	2.00		
51	Supplying and fixing wall mounted European type Water Closet Rimless with concealed flush tank, flush botton, soft closing seat cover and lid, P/S trap, necessary accessories of first quality, conforming to relevant IS, Manufactured by M/s Jaquar (CNS-WHT-959SPP)/equivalent in M/s. Jaquar complete all as specified and directed by Engineer-in-charge. Note : Rate quoted for the item deemed to include for supplying and fixing of MS brackets & rack bolts required for fixing of watercloset.	Nos	2.00		
52	Supplying and fixing new Health faucet with 8mm dia, 1m long Flexible PVC tube with wall Hook of first quality, confirming to relevant IS, manufactured by M/s Jaquar (Model-ALD-CHR-563)/ equivalent in M/s. Jaquar etc., complete all as specified & directed by Engineer-in-charge.	Nos	2.00		
53	Supplying, fixing and installation of wall fixed Vanity counter with SS 304 grade , 4 no of 100mm base for rest room by using 19 mm BWP plywood for Caracas confirming to IS:303 of M/s Archid Ply/ Kit Ply/ Century Ply/ Samrat/ Green Ply and inside / outside finished with selected 1 mm laminate on both sides with approved colour of laminates confirming to IS : 2046-1995 - sunmica,Greenlam, Archid, Adhesives- Fevicol, Vamicol, Jeevancore with necessary hardware Items of M/s Hettich,Ebco,Godrej. The storage has a shutter with 2 no SS handles. The counter to have 18 mm black granite with edge polished . Selected wash basin to be of table mounted on granite with sensor control battery operated long body jaguar faucet size of the storage is 600mm(L) x 600mm (W) x 700mm (H) . 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.	Nos	2.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
54	Supplying and fixing new table top hand wash basin (round/oval) of size 425x340x175mm (approx) of first quality, conforming to relevant IS, Manufactured by by M/s Jaquar (Model-CNS-WHT-903) /equivalent model & shape in Jaquar including 32 mm diameter brass Chromium plated waste coupling (mode-ALD-CHR-705L130), stop cock/angle cock, bottle trap, waste pipe, with all hardware fittings & fixtures etc., complete all as specified and directed by Engineer-in-Charge.	Nos	2.00		
55	Supplying and fixing 20 mm thick polished black Granite slab with face double moulding 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.	Sqm	6.00		
56	Supplying and fixing 15mm diameter brass chromium plated Long body bibcock of first quality approved brand manufactured by M/s.ESS ESS /Parryware/Hindware/Johnson make including all hardware accessories conforming to relevant IS etc., complete as specified and directed by Engineer in charge.	Nos	2.00		
57	Supplying & fixing 15mm diameter brass chromium 2 in 1 bib cock of first quality approved brand manufactured by M/s.ESS ESS /Parryware/Hindware/Johnson or equivalent make including all accessories conforming to relevant IS etc., complete all as specified & directed by the Engineer in charge.	No	2.00		
58	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		
59	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		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
60	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	Each	2.00		
61	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.	Nos	2.00		
62	Earthwork excavation by mechanical/ manual means in foundation trenches, pits not exceeding 1.50m in depth in all kinds of soil including getting out the excavated earth, dressing of sides, dewatering ground water/ rain water if any, compaction including disposal of debris/unserviceable surplus earth outside the site 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.	Cum	10.00		
63	Providing and laying in Position Plain Cement Concrete of mix proportion 1:4:8 using 40mm down graded granite aggregate, laid in layers not exceeding 15cms well compacted for foundation bed, under floors and other similar works including curing etc.,complete all as specified and as directed by engineer in charge. Note: The rate quoted is deemed to include for providing and removal of centering/shuttering wherever necessary.	Cum	3.00		
64	Providing and laying Plain Cement Concrete of mix proportion 1:2:4 average 100mm thick using 20mm graded granite aggregates as a screed concrete over roof slab/chajja/flooring works, laid to a proper slope & gradient, well compacted,mechanical/manual mixing including curing etc., complete all as specified and directed by the Engineer in charge.	Cum	30.00		
65	Dismantling the existing wall tiles/ floor tiles/window cill granite/Mosaic Skirting of any description along with the backing coat and carting away the debris outside the premises to place not objected by the local civic authorities including all lead, lift, tolls, labour etc complete all as specified and directed by Engineer in charge.	Sqm	30.00		
66	Supplying and fixing glazed ceramic tiles dadoo tiles of size 300mm x 450mm or bigger size of first quality, conforming to relevant IS, Manufactured by M/S. KAJARIA (PREMIUM QUALITY DIGITAL TILES MODEL BOLIVIA LIGHT (T)) or similar shade and colour, quality in M/s.Johnson/ Kajaria/ Nitco/RAK/Somany/ fixed in cement slurry, over a backing coat of Cement mortar 1:4, 15 mm thick and curing. The joints shall be neatly finished with white/coloured cement using matching pigment and shall be neatly maintained etc., complete all as specified and directed by Engineer-in-Charge. Note: The rate quoted for the item deemed to include wastages.	Sqm	70.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
67	Supplying and laying antiskid ceramic tiles for flooring of size 300mm X 300mm first quality, conforming to relevant IS, Manufactured by M/S. KAJARIA (PREMIUM QUALITY DIGITAL TILES MODEL CEMENTOS DARK) or similar shade and colour, quality in M/s.Johnson/ Kajaria/ Nitco/ RAK/Somany and laid in cement based high polymer modified quick-set tile adhesive in average 3mm thickness of first quality, approved brand conforming to relevant IS and joints neatly finished with colour matching pigment. The existing floor shall be properly hacked & cleaned before laying of tiles etc. complete all as specified & directed by Engineer-in-charge Note: The rate quoted for the item deemed to include for a) slope corrections, wherever necessary b) wastages.	Sqm	30.00		
68	Supplying and fixing powder coated aluminium louvered ventilators with standard aluminium sections, glass louvers with provision for exhaust fan and inclusive of all fittings and fixtures etc., complete all as specified and as directed by Engineer-in-charge.	Sqm	3.00		
69	Supplying and fixing in Position grab bar/pole-hotelier M/s. Jaquar make model No.AHS-1501 /equivalent model in M/s. Parryware/Hindware/ CERA /Johnson, fixing using necessary hardware etc., complete as specified and directed by Engineer-in-charge	Nos	2.00		
70	Cleaning the Roof slab using wire brushes, water washing and removal of rank vegetation, all foreign materials and applying a coat of cement slurry with cement at the rate of 3kg/Sqm over the thoroughly cleaned roof slab as a preparatory course including tools, tackles etc., complete all as specified and directed by the Engineer in charge.	Sq.M	180.00		
71	Providing plastering 20mm thick in cement mortar of mix proportion 1:4 over roof slab/concrete surface and admixed with M/s. Fosroc make CONPLAST X42 IC/WL (200ML/Bag of cement) and the surface finished smooth and even etc., complete all as specified and directed by the Engineer-in-charge. Note: M/s. Fosroc Conplast X42 IC/WL water proofing chemical shall be measured & paid separately under relevant item.	Sq.M	180.00		
72	Supplying and mixing M/s. Fosroc make CONPLAST X42 IC/WL while rendering for the roof slab and parapet wall surfaces as per Manufacturers instructions (200ml/bag of cement) etc., complete all as specified and directed by the Engineer in charge.	Ltrs.	5.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
	Providing & applying Bitumat Synroof Hi – Build elastomeric premium quality liquid waterproofing system as detailed below: a) Supplying and applying premium quality acrylic waterproofing primer @ 250 grams per square meter after diluting as per the manufacturer's recommendations by allowing 3 to 4 hours for the primer to dry completely. b) Applying 2nd coat of premium quality acrylic waterproofing coating @ 350 grams per square meter using roller / brush after diluting as per the manufacturer's recommendations and simultaneously over this install 60 GSM thermally stabilized polyester reinforcement with 100mm side Laps and 150mm end laps and applying additional coat of premium quality acrylic waterproofing coating @ 350 grams per square meter using roller / brush. To Ensure there are no wrinkles or folds on the reinforcement membrane and allow it to dry for 24 hours. Applying final coat of premium quality acrylic waterproofing system @ 350 grams per square meter using roller / brush after diluting as per the manufacturer's recommendations after 24 hours of drying.	Sq.M	180.00		
73	All dilutions shall be strictly as per the manufacturer's instructions as shown in the product catalogue. The same system shall be carried out over the vertical areas like parapets if any. Note 1) All materials shall be produced with samples and to obtain prior approval of EIC before commencing the work 2) The water proofing materials shall be tested as per the standards prescribed from the reputed laboratory for the following parameters and cost involved for conducting such test shall be borne by the Firm. The quoted rate shall be deemed to include for the cost of testing: a) Solid content (%) b) Viscosity (CPS) c) Density (Kg/l) d) Curing time (Touch dry time) at 27 degree Celsius. e) Tensile strength and Elongation % f) Hardness- Shore A scale. g) Permeability(Depth of penetration) mm. h) Coverage (Kg/m2). . Note: The rate quoted is deemed to include for providing & erecting scaffolding, staging/ladder & providing safety nets wherever necessary and protective measures etc.,complete all as specified & directed by Engineer in Charge.				
C	ELECTRICAL WORKS				
74	A) Supplying & installation of 200 A Main TP change over switch Make:ABB,Havell's,siemens	Nos	1.00		
75	B) Supplying & installation of MCB 63A ,4 Pole Make:ABB,Havell's,siemens	Nos	2.00		
76	C)Supplying & installation of MCB 20A ,2 Pole Make:ABB,Havell's,siemens	Nos	20.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
77	D)Supplying & installation of Electric Fan Regulator 300 W with 5 speed Make:Bajaj,Havell's,Schneider	Nos	25.00		
78	E)Supplying & installation of 5A switch single pole Make:Bajaj,Anchor	Nos	175.00		
79	F)Supplying & installation of 5A Socket Make:Bajaj,Anchor	Nos	125.00		
80	G)Supplying & installation of 15A box type combine switch socket encloser with fuse and indicator Make:Bajaj,Anchor	Nos	30.00		
81	H)Supplying & installation of Exhaust Fan 9" pedestal,30-60W,220 V,1 Phase Make:Bajaj,Havell's,Schneider	Nos	2.00		
82	I) Supplying & installation of Batten type 20W x 2 Nos led tube light fittings . Make:Phillips,Havell's,hallonix	Nos	45.00		
83	J)Supplying & installation of Wall mounting fan 400 mm (white colour) Make:Bajaj,Havell's,Schneider	Nos	10.00		
84	K)Supplying & installation of 2 X 2 40W LED panel fitting which has placed inside the false ceiling Make:Phillips,Havell's,hallonix	Nos	15.00		
85	Supplying & installation of 10 X 8 Plate of size 4 mm thick(white colour plastic) switch and socket will be cut in the plate as per existing old condition.	Nos	8.00		
86	LSupplying & installation of 10 X 6 Plate of size 4 mm thick(white colour plastic) switch and socket will be cut in the plate as per existing old condition.	Nos	6.00		
87	Supplying & installation of 8 X 5 Plate of size 4 mm thick(white colour plastic) switch and socket will be cut in the plate as per existing old condition.	Nos	1.00		
88	Supplying & installation of 6 X 5 Plate of size 4 mm thick(white colour plastic) switch and socket will be cut in the plate as per existing old condition.	Nos	1.00		
89	Supplying & installation of 5 X 6 Plate of size 4 mm thick(white colour plastic) switch and socket will be cut in the plate as per existing old condition.	Nos	1.00		
D	NETWORKING WORKS				
90	Supply & Installation of Information outlet (cat-6)	Nos	70.00		
91	Supply & Installation of 7ft patch cord (cat-6)	Nos	70.00		
92	Supply & Installation of Numbering ties,ties	Nos	40.00		
93	Supply & Installation of Face plate	Nos	70.00		
94	Miscellaneous expenses (gatta, screw, ferrules, tap)	Lumpsum	1.00		
95	Supply and fixing of Cat 6 cable for data ports	Meters	2000.00		
96	Supply and laying of 19 mm conduit for data cabling	Meters	200.00		
97	Supply and installation of 3 module PVC box	Nos	70.00		
98	Supply & Installation of 24 Port unloded patch penal	Nos	5.00		
99	Supply & Installation of 1'U'Cable manger	Nos	5.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
100	Supply & Installation of 12 port FDP with installation 12 Port LIU with Splice tray and couplers & fiber patch cord loaded Type - Suitable size Rack Mount with 1U height , Port availability 12 ports or higher , Should have slots on front panel to accommodate SC type adapter plates, should have splicing tray and mounting clamps. Adaptor- Simplex / Duplex SC adapter, Dust Cap for protection, 12 no. Simplex / 6 no. duplex of adaptor must be included. Loaded with 2 Mtr Simplex / Duplex Single mode SC to LC Fiber optic patch cord make : Dlink / ADC Krone	Nos	1.00		
101	Supply & Installation of 24 Port Switch	Nos	2.00		
102	Supply & Installation of 48 Port Switch	Nos	2.00		
Note:- 1) The rate quoted for the above items is deemed to include for providing and removal of scaffolding/staging wherever necessary. 2) The contractors/ prospective bidders shall visit the site and acquaint themselves with the site conditions before submission of bid/ quote. 3) The contractor to note that the dismantled materials should be removed and shifted immediately from the site premises without disturbing the regular office atmosphere in the area and the rate is deemed to include for the same. 4) L-1 Contractor to whom the contract is awarded is requested to submit the drawings, 3D Visualisation of proposed Upgradation work of CQA Office.					
	Total value of work excluding GST (Rs).				
	GST (Rs).				
	Total value of work inclusive of GST (Rs)				

(Total Amount in words Rupees.....
.....)

Authorised Signatory
(Purchase Dept.)

Signature of the Contractor with seal