

# **BILL OF QUANTITIES**

## **VOLUME II**

### **FOR**

**INTERIOR RENOVATION OF SECP  
COMPANY REGISTRATION OFFICE AT  
4TH FLOOR, STATE LIFE BUILDING NO 2,  
WALLACE ROAD, I.I. CHUNDRIGARH  
ROAD, KARACHI**

Issued To : \_\_\_\_\_

Issued On : \_\_\_\_\_

Sign of Issuing Officer : \_\_\_\_\_



**SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN**

**Sohail A Khan Associates**

**Architecture and Designing**

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**INTERIOR RENOVATION OF SECP COMPANY REGISTRATION OFFICE**  
**AT 4TH FLOOR, STATE LIFE BUILDING NO 2,**  
**WALLACE ROAD, I.I. CHUNDRIGARH ROAD,**  
**KARACHI**

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**MAIN SUMMARY OF COST**

S.No	Description	Amount (Rs)
1	CIVIL & INTERIOR WORKS	
2	ELECTRICAL WORK	
3	HVAC WORK	
4	PLUMBING WORK	
5	FURNITURE WORK	
Total (A+B+C)		

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**SUMMARY OF COST**

S.No	Description	Amount (Rs)
1	INTERIOR WORK	
2	FURNITURE WORK	
TOTAL AMOUNT		

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**INTERIOR WORKS**

Sr. No	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
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1	Dismantling existing works including removal of debris from site and its disposal as required by law and away from the site. Contractor to hand over all salvageable items to Owner's representative for further disposal. And follow complete all safety rules, complete in all respect.	job	1		
a.	Dismantling of Existing masonry wall any type and any height.				
b.	Dismantling of Existing ceiling any type and any height. as directed by engineer-in-charge.				
c.	Dismantling of existing floor any type, as directed by engineer-in-charge.				
d.	Removing of any type of Doors with due care to not break, as directed by the Engineer-in-charge.				
e.	Dismantling of Existing Column Cladding any type and any height, as directed by engineer-in-charge.				
f.	Removal of glass partitions with due care to not break glass, as directed by engineer-in-charge.				
g.	Removal of wooden partitions with due care to not break, as directed by engineer-in-charge.				
h.	Removal of old paint from Masonry wall, concrete member etc., as directed by engineer-in-charge.				
i.	Dismantling of Existing wash room tiles floor and wall any type and any height. as directed by engineer-in-charge.				
j.	Removal of electrical conduits, switch sockets, lights etc. from site with accessories, as directed by the Engineer-in-charge.				
k.	Dismantling of existing plumbing any type, in pantry area as directed by engineer-in-charge.				
L.	Dismantling of masonry, concrete steps etc., as directed by engineer-in-charge.				
2	<b>SOLID BLOCK WALL 4" THICK:-</b> Providing and laying approved 4" Thick normal block, Compressive strength 1000psi in superstructure at any height and floor laid and jointed with cement and approved sand (1:4), machine mixed mortar to be laid in course true to line level and plumb protected and properly cured including scaffolding and providing rendering. All work to be completed as per drawings and specification including specified anchorage with concrete member and as directed by the Engineer.	Sft	821		
3	<b>SOLID BLOCK WALL 6" THICK:-</b> Providing and laying approved 6" Thick normal block, Compressive strength 1000psi in superstructure at any height and floor laid and jointed with cement and approved sand (1:4), machine mixed mortar to be laid in course true to line level and plumb protected and properly cured including scaffolding and providing rendering. All work to be completed as per drawings and specification including specified anchorage with concrete member and as directed by the Engineer.	Sft	1209		

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4	<b>RCC LINTEL :-</b> Providing, and laying reinforced cement concrete having a minimum cylinder crushing strength of 3000 psi at 28 days, as specified in drawings including form work and its removal, compacting, leveling and curing etc. complete in all respect as directed by the Engineer Incharge.	Cft	65		
5	<b>REINFORCEMENT:-</b> Providing and laying M.S deformed steel reinforcement bars including the cost of straightening, cutting, bending, binding, over laps complete in all kinds of R.C.C work or as directed by the Engineer Incharge.	Kg	98		
6	<b>NEW PLASTER:-</b> Providing and laying 1/2" thick 1:4 cement sand Plaster on Block Masonry Walls, Concrete members in two layers including chipping, scaffolding, leveling, curing etc. complete in all respect as per drawings or as directed by the Engineer In charge. Note: Acrylic plaster mesh to be provided and fixed on the joints between concrete and block masonry and at every joints of electrical conduits or as directed by the Engineer-In-Charge.	Sft	2138		
7	<b>REPAIR WORK PLASTER:-</b> Providing and laying 1/2" thick 1:3 cement sand plaster on chipping, trenching for electrical wiring and conduits wall and floor with scaffolding, leveling, curing etc. complete in all respect as per drawings or as directed by the engineer In charge. Note: Acrylic plaster mesh to be provided and fixed on the joints between, concrete and masonry and at every joints of electrical conduits and at every dismantling with chemical used as directed by the Engineer-In-Charge.	Sft	2000		
8	<b>PCC (1:2:4):-</b> Providing and laying plain cement concrete having ratio (1:2:4) where required laid by using Ordinary Portland Cement (OPC), or gravel with approved quality sand including all formwork as specified, roding, leveling, compacting and curing etc. complete as per specifications, drawings and as directed by Engineer Incharge.	Cft	300		

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9	<b>PCC LEVELING SCREEDING 1:2:4 (UP TO 3" THICK).</b> Providing and laying up to 3" thick 3,000 psi cylinder strength concrete, using OPC cement, Lawrancepur Sand, Marglla Crush, approved equal, laid in panels of 4' x 4' size including form work , consolidation, finishing and curing etc. Complete in all respect.	Cft	2885		
10	<b>SAND FILLING:-</b> Providing and laying of sand cushion under floor or where required/ (in layers not exceeding more than 4" in thickness as per drawing) from approved source or as directed by Engineer Incharge.	Cft	388		
11	<b>GYPSON BOARD DRY WALL (3" Thick) :-</b> Providing and fixing of Gypsum dry board wall with 2"x2"x1mm GI channel at 2' c/c vertically and 4' c/c horizontally clad with 12mm thick gypsum board sheet on both sides. inner gaps to be filled with mineral wool insulation, complete with cutting holes and installing back boxes, conduits, water supply pipes and other services, with all hardware accessories, and compound filling of joints with fabric tape complete in all respect, and specification or as directed by the Engineer-in-charge.	Sft	3198		
12	<b>3" THICK CEMENT BOARD DRY WALL WITH WOOD FRAME (Meeting Room) :-</b> Providing and fixing of cement board dry wall with 2"x2"x1mm GI channel at 2' c/c vertically and 4' c/c horizontally clad with 12mm thick cement board sheet on both sides. inner gaps to be filled with mineral wool insulation, and 4"x 2.1/4" solid ash wood vertical frame every 2 feet with polish/ paint finish. complete with cutting holes and installing back boxes, conduits, water supply pipes and other services, with all hardware accessories, and compound filling of joints with fabric tape complete in all respect, and specification or as directed by the Engineer-in-charge.	Sft	217		
13	<b>WOODEN PARTITION (3" Thick) :-</b> Provide and fixing of Ash ply wood partition with 1.1/2"x1.1/2" at 2' c/c vertically and horizontally wood frame, clad with 3/4" thick ash ply sheet on both side , inner gaps to be filled with mineral wool insulation, complete with cutting holes and installing back boxes, conduits, water supply pipes and other services, with all hardware accessories, including polish finish, as per drawing, complete in all respect, and specification or as directed by the Engineer-in-charge.	Sft	290		

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14	<b>CEMENT BOARD DRY WALL (3" Thick) :-</b> Providing and fixing of cement board dry board wall with 2"x2"x1mm GI channel at 2' c/c vertically and 4' c/c horizontally clad with 12mm thick cement board sheet on both sides. inner gaps to be filled with mineral wool insulation, complete with cutting holes and installing back boxes, conduits, water supply pipes and other services, with all hardware accessories, and compound filling of joints, complete in all respect, and specification or as directed by the Engineer-in-charge.	Sft	794		
15	<b>CEMENT BOARD BOX:-</b> Providing and Fixing of cement board box with 2"x2"x1mm GI channel at 2' c/c vertically and 4' c/c horizontally cladding with 12mm thick gypsum board sheet on one side. Provisions are to be made for fixing of light fittings, if any as per drawing, complete in all respect. and specification or as directed by the Engineer-in-charge.	Sft	240		
16	<b>GYPSUM BOARD BOX :-</b> Providing and Fixing of gypsum board box with 2"x2"x1mm GI channel at 2' c/c vertically and 4' c/c horizontally cladding with 12mm thick gypsum board sheet on one side on existing wall and other surface. Provisions are to be made for fixing of light fittings, if any as per drawing, complete in all respect. and specification or as directed by the Engineer-in-charge.	Sft	177		
17	<b>WOODEN PLY PANELING ON WALL/ COLUMN:-</b> Providing & fixing of Ash ply wood panelling, made of 2"x2" acacia wood frame with 3/4" thick imported ply cladding on side, including polish finish with all surface preparation ,complete with all hardware used as per drawings, as approved by the Architect or as directed by the engineer In charge.	Sft	454		
18	<b>LOW HEIGHT PARTITION:-</b> Providing and fixing low height partition made of 2"x2"x1mm GI channel at 2' c/c vertically and 4' c/c horizontally clad with 12mm thick gypsum board sheet on both sides with 1.1/2" x 4" solid ash wood frame and 8mm (3M) frosted glass fixed with wood frame, as per drawing with polish and paint finish, fixed to slab with bolt, complete in all respects. or as directed by the Engineer-Incharge.	Sft	1095		

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19	<b>GRANITE CLADDING ON COLUMN:-</b> Providing and fixing neatly cut to specified sizes and geometry pre-polished ¾" thick Granite approved color and shade, laid with dry bond, including jointing with Quartz Lock Groute of approved color, rounding and polishing of edges, as and where required or so directed; including re-polishing as and where required or so directed and cost of scaffolding upto the height as shown in the drawings. Complete in all respect. <b>MARKET BASE RATE 1000/SFT Excl GST</b>	Sft	1187		
20	<b>MARBLE / TILE CLADDING ON WALL (Reception):-</b> Providing and fixing neatly cut to specified sizes and geometry pre-polished ¾" thick marble / tile cladding approved color and shade, laid with dry bond, including jointing with Quartz Lock Groute of approved color, rounding and polishing of edges, as and where required or so directed; including re-polishing as and where required or so directed and cost of scaffolding upto the height as shown in the drawings. Complete in all respect. <b>MARKET BASE RATE MARBLE / TILE 400/SFT Excl GST</b>	Sft	198		
21	<b>GYPSON BOARD FALSE CEILING:-</b> Providing and fixing of Gypsum Board false ceiling with collar, made of 1/2 thick of imported Elephant Brand, with Metal suspension system consisting of galvanized steel channel, intermediate channel, splices, hangers, hanger adjustment clips with fabric tape on edge and including of painting, as per design and compound filling of joints with fabric tape, Provisions are to be made for fixing of A.C.Grills, light fittings as per consultants instructions, as per drawing, complete in all respect. (For payment exposed horizontal and vertical areas shall be measured)	Sft	4198		
22	<b>GYPSON BOARD 2'X2' CEILING:-</b> Supplying and fixing of Gypsum board panel false ceiling using galvanized sections for hanging with galvanized mild steel channels,tees, heavy duty suspension system with rigid connection and holding the gypsum board panels of 8mm thick with approved design. Provisions are to be made for fixing of A.C.Grills, light fittings as per consultants instructions including making holes and to assist in fixing, as per drawing, complete in all respect.	Sft	439		



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23	<b>PLY WOOD CEILING:-</b> Providing and fixing ply wood ceiling made of 2"x2" acacia wood frame, with 19mm thick ash ply sheet cladding, with Metal suspension system hangers, hanger adjustment clips, including polish finish, approved color, Provisions are to be made for fixing of A.C.Grills, light fittings as per drawing & consultants instructions including making holes and to assist in fixing, as per drawing, complete in all respect. and specification or as directed by the Engineer-in-charge. (For payment exposed horizontal and vertical areas shall be measured)	Sft	1438		
24	<b>PORCELAIN TILE FLOOR:-</b> Providing & laying laser cut imported Porcelain tiles 2' x 4' of Malaysian/Spanish or Equivalent make in approved color and shade laid with dry bond including jointing with Quartz Lock Grout of approved color, including Leveling, washing and curing. complete in all respect. including jointing with Quartz Lock Grout of approved color, including Leveling, washing and curing. complete in all respect. <b>Market Tile Base Rate Rs. 3500/- Sqm Excl GST</b>	Sft	9857		
25	<b>PORCELAIN TILE FLOOR &amp; WALL (TOILETS) :-</b> Providing & laying laser cut imported Porcelain tiles 12"x24" of Malaysian / Spanish or Equivalent make in approved color and shade laid with cement sand mortar 1:4 (one cement four sand) including jointing with Quartz Lock Groute of approved color, including Leveling, washing and curing. complete in all respect. <b>Tile Base Rate Rs. 2600/- Sqm Excl GST</b>	Sft	2627		
26	<b>MARBLE THERSHOLD SILL:-</b> Providing and fixing of 3/4" thick factory grinded and polished Grade A, threshold sill, to be laid straight fixed with dry bond and grouted with white / coloured cement using imported pigments all as per drawing & specifications as approved by the Architect or as directed by the Engineer-in-charge.. <b>MARKET BASE RATE 450/SFT Excl GST</b>	Sft	150		
27	<b>BASE FLOOR PLASTER :-</b> Providing and laying ¾ " thick 1:4 cement sand plaster under floor, including chipping, leveling, curing etc. with steel finish complete in all respect as per drawings or as directed by the engineer In charge. <b>(Excluding Back Filling and pcc)</b>	Sft	806		

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28	<b>CARPET TILE FLOORING (CONFERENCE ROOM &amp; MEETING ROOM):-</b> Provide and install interface Carpet tile, fixed with glue on existing PCC floor, complete in all respect with 10 years warranty as per drawings and manufacture specification as approved by the Architect or as directed by the Engineer-in-Charge. <b>Market Base rate Rs.360/Sft Excl GST</b>	Sft	806		
29	<b>12MM IMPORTED GLASS PARTITION :-</b> Providing and fixing of 12mm thick imported tempered glass partition with frosted sheet of approved design, 1-1/2" aluminum concealed ' U' channel where required as per drawing, complete in all respect as per drawings and as approved by the Architect or as directed by the Engineer-in-Charge.	Sft	984		
30	<b>WOOD FRAME FOR GLASS DOOR:-</b> <b>(Size 1-1/2" - 3" x 5" oviding and fixing of 1-1/2" - 3"x 5" Ash wood frame fixed with nuts and bolts, lock fixing, including polish with all surface preparation, complete in all respect, as per drawing and as approved by the Architect or as directed by the Engineer-in-charge</b>	Rft	269		
31	<b>PLY WOOD FRAME FOR GLASS DOOR:-</b> <b>(Size 3" x 16" &amp; 17")</b> Providing and fixing of 3" x 16" & 17" thick solid ash wood frame fixed with nuts and bolts, as per drawings, including polish with all surface preparation, complete in all respect. as approved by the Architect or as directed by the Engineer-in-charge	Rft	49		
32	<b>WOODEN BOX :-</b> Providing & fixing of Ash wood box, made of 1.1/2"x1.1/2" acacia wood frame with 3/4" thick imported ash ply cladding one side, including polish finish with all surface preparation ,complete with all hardware used as per drawings, as approved by the Architect or as directed by the engineer In charge.	Sft	60		
33	<b>SOLID WOOD POST :- (Size 1-1/2" x 3")</b> Providing and fixing of 1-1/2" x 3" solid Ash wood post with 2mm MS plate, fixed with rawl bolt in floor and ceiling as per drawings, including polish with all surface preparation, complete in all respect. as approved by the Architect or as directed by the Engineer-in-charge.	Rft	780		

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34	<b>SOLID WOOD POST :- (Size 3" x 3")</b> Providing and fixing of 3" x 3" solid Ash wood post with 2mm MS plate, fixed with rawl bolt in floor and ceiling as per drawings, including polish with all surface preparation, complete in all respect. as approved by the Architect or as directed by the Engineer-in-charge.	Rft	108		
35	<b>WOODEN DROP BOX FOR GLASS PARTITION:-</b> Provide and Fixing of 3" thick Imported Ply drop box till ceiling from roof made of 1/2" thick Ply, with 2"x2" thick wood frame , as per drawing, as directed by the engineer In charge.	Sft	334		
36	<b>GLASS DOORS :-</b> Providing and fixing, 12 mm thick imported (Guardian) tempered glass door with 3M frosting including SS door handle 4' height, patch fitting, locks (Myco of Japan or approved equivalent) with imported best quality floor machine (EZ brand of Taiwan or approved equal) complete in all respects, or as directed by the engineer In charge (Full opening area measured)	Sft	150		
37	<b>SLIDING GLASS DOORS:-</b> Providing and fixing, 12 mm thick imported (Guardian) tempered glass sliding door with 3M frosting including Laguna series Sliding Door system and pelmet. Sliding channel to be fixed in wooden box, including lock, SS door handle 4' height. complete in all respects, or as directed by the engineer In charge (Full opening area measured)	Sft	38		
38	<b>MELAMINE DOOR (TOILETS):-</b> Providing and fixing imported melamine doors with water resistant HDF base, in given sizes, made up of double sheet, 1.5" thickness in total, standard, with 2mm thick pvc edge lipping on all four sides, including D-10 A, 2"x 4" 2mm thick aluminum section door frame powder coating with brush all Hardware / locks / hinges etc. and approved colors and shades, as per drawing and design and directed by the Consultant complete in all respects.	Sft	240		

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39	<b>WOODEN FLUSH DOOR:</b> Providing and fixing wooden flush doors, in given sizes, made of ash plywood, standard acasia wood grid, with ½" ash wood lipping on all four sides, including 5mm glass, 1/4" groove, SS push plate, door frame of 7" x 2" solid deodar wood, fastened to walls with 6 numbers, 9" long hold-fasts, ash wood architrave; all wooden surfaces to be prepared for polished finish in approved colors and shades; complete with floor mounted magnetic door stop, lock, door closer and 4" brass tower bolt, complete in all respect, as per drawing and design and directed by the Consultant complete in all respects.	Sft	179		
40	<b>FIRE RATED DOOR (SERVER &amp; ELECTRICAL ROOM) :-</b> Providing and fixing of solid door composed of thick monolithic steel plates of 14 gauge MS. sheet thickness on the outside and 16 gauge MS. steel on the inside in between filled with FIRE CLAY. The two plates are electrically welded and riveted for extra strength, thereby forming a monolithic structure of uniform strength. The door frame is made of heavy U-shaped sheet section (6" x 1/4") so as to securely grip the wall opening, front and back. The frame is made up of heavy steel angles in front and with solid steel plates of great strength at the back by self-aligning hinges with emergency push bar lock (Italian origin) is fitted to the door from inside. Minimum fire rating of 2-hour with manufacturers certificate. (Manufactured by a specialized consultant). Door installation must meet all structural / strengthening requirements complete in all respects.	Sft	81		
41	<b>WINDOW MARBLE SILL:-</b> Providing and fixing of 3/4" thick factory grinded and polished Grade A, marble sill in windows, matching with tiles to be laid straight or in two levels for rain protection fixed with dry bond and grouted with white / coloured cement using imported pigments all as per drawing & specifications as approved by the Architect or as directed by the Engineer-in-charge.. <b>MARKET BASE RATE 450/SFT Excl GST</b>	Sft	322		

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42	<b>PRE-POLISHED MARBLE TOP AND WALL:-</b> Providing and laying of 20 mm thick Pre-polished Granite with bull nosing (Sample as approved by the Architects) fixed on laminated kitchen box with silicon. as per drawing, complete in all respect. <b>Granite Base Rate 450/Sft Excl GST</b>	Sft	98		
43	<b>BASE CABINETS (PANTRY):-</b> Provide and install, 24" wide & 33" high floor cabinet made of ¾ " thick MDF lamination used for box ,Shutter and drawer with PVC edge lipping, approved color, including imported concealed kitchen hinges, magnetic catchers, locks, SS handles complete with all hardware used ,as per drawing ,complete in all respect. (Accessories are not included.)	Sft	53		
44	<b>OVER HEAD CABINETS:-</b> Provide and install 15" deep and 24" high over head cabinets made up of ¾ " thick MDF lamination used for box and shutter approved color with pvc edge lipping, including imported Kitchen Concealed hinges, magnetic catchers, locks, SS handles complete with all hardware used as per drawing ,complete in all respect.	Sft	47		
45	<b>FULL HEIGHT FILLING CABINETS:-</b> Provide and install 15" deep cabinets made up of ¾ " thick imported MDF lamination sheet used for box and shutterwith pvc edge lipping, of approved color, including 3/4" thick ash ply with wood edge lipping on exposed sides, including polish finish, complete with hardware and imported piano hinges, magnetic catchers, locks, SS handles complete with all hardware used as per drawing ,complete in all respect.	Sft	706		
46	<b>WOODEN PELMET ON FULL HEIGHT CABINETS :-</b> Providing & fixing of Ash ply wood pelmet, made of 1.1/2"x1.1/2" acacia wood frame with 3/4" thick imported ash wood ply cladding on side with 1/2"x 3/4" ash wood lipping, including polish finish with all surface preparation ,complete with all hardware used as per drawings, as approved by the Architect or as directed by the engineer In charge.	Sft	188		

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47	<b>LOW HEIGHT FILLING CABINETS WITH MARBLE TOP:-</b> Provide and install 15" deep cabinets made up of ¾" thick imported MDF lamination sheet used for box and shutter of approved color, including ¾" thick marble top fix with marble jelly, complete with hardware and imported piano hinges, magnetic catchers, locks, SS handles complete with all hardware used as per drawing ,complete in all respect.	Sft	486		
48	<b>LOW HEIGHT FILLING CABINETS WITH CORIAN TOP:-</b> Provide and install 15" deep cabinets made up of ¾" thick imported MDF lamination sheet used for box and shutter including drawer's, of approved color, including 12mm thick corian top, complete with hardware and imported piano hinges, magnetic catchers, locks, SS handles, as per drawing ,complete in all respect.	Sft	33		
49	<b>PRINTING AREA CABINETS:-</b> Provide and install 24" deep and 18" high base cabinets and 40" high 2nd shelves, made up of ¾" thick MDF lamination used for box and shutter, approved color with pvc edge lipping, including ¾" thick pre polish marble top with half round edge, imported concealed hinges, magnetic catchers, locks, SS handles, complete with all hardware used as per drawing ,complete in all respect.	Sft	37		
50	<b>PVC JANITORIAL CABINETS:-</b> Provide and install 17" deep and 9 feet high PVC sheet cabinets made up of ¾" thick pvc board sheet used for box and shutter of approved color, with pvc edge lipping, base to be tiled with drain fixing. complete with hardware and imported piano hinges, magnetic catchers, locks, SS handles, aluminum grill, complete with all hardware used as per drawing ,complete in all respect."	Sft	46		
51	<b>EMULSION PAINT:-</b> Providing and Painting of any surface with plastic emulsion/Acrylic paint of approved shade with three coats over a primer coat along with required coats of Putty Filling and preparation of plaster surface complete at any height at any floor, finished smooth as desired by Engineer-Incharge.	Sft	17506		

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**INTERIOR WORKS**

Sr. No	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
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52	<b>MATT ENAMEL PAINT (LIFT LOBBY WALL):</b> Providing and applying of any surface with enamel paint of approved shade with three coats over a primer coat along with required coats of Putty Filling and preparation of plaster surface complete at any height at any floor, finished smooth as desired by Engineer-Incharge.	Sft	1080		
53	<b>PAINT ON EXISTING CEILING:</b> Providing and applying of existing ceiling and any height, with emulsion paint of approved shade with three coats over a primer coat along with required coats of Putty Filling and preparation of Plaster/Concrete/Metal surface complete at any height at any floor, finished smooth as desired by Engineer-Incharge	Sft	31874		
54	<b>IMPORTED ARCHI + CONCRETE WALL COATING:</b> Providing and applying imported acrylic base archi + concrete wall coating , at any height at any floor, Archi+ Concrete is a mineral plaster coat in powder for interiors. It is made of well-seasoned hydrated lime putties, white cement, specific aggregates and rheological modifiers carefully selected to ensure an excellent workability and the possibility to overlap it with one or more layers of Fase Silossanica, acrylsiloxane colour wash (matt), ensures to achieve cutting-edge elegant concrete effects, in line with the newest trends in the interior design, to be mixed with water and applied with a stainless steel trowel, The thickness of Archi+ Concrete ensures high protection performances on the substrate where it is applied-on. Surface repair must be made in advance coating. The surface must be clean, dry and free of any previous sealers ,all as per drawing & specifications as approved by the Architect or as directed by the Engineer-in-charge. <b>Market Base rate 550/sft</b>	Sft	2281		
55	<b>PVC SKIRTING:-</b> Provide and fixing imported Pvcskirting with laminate finish skirting matching with floor color & grain, 15mm thick and 4" height with all hardware used complete in all respect. <b>MARKET BASE RATE 200 / Rft Excl Gst</b>	Rft	2439		
56	<b>ROLLER BLIND:-</b> Providing and fixing of imported fabric Roller blinds With all hardware and smooth operating imported roller rods of approved shade and quality complete in all respect. <b>(Market Base rate Rs.240 Per sft ) Excl GST</b>	Sft	1484		

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<b>Note:-</b> Contractor to submit Shop drawings for approval of the Architect before fabrication). The rates include cost of all sampling and Mock-ups as desired by the Architect. All work shall be finished as per entire satisfaction of Owner/Architect with proper tools and practices while making good any damage to existing surface or equipment.					
57	<b>ALUMINUM DOORS (DUCT):-</b> Supply and install internal Aluminum louvers door complete, with all hardware required, locks, ironmongeries according to, manufacture specifications and as approved by the Architects.	Sft	58		
58	<b>FACILITATION COUNTERS:-</b> Providing and Fixing Facilitation Counters, 3" thick top two levels with 24" & 6" wide counter, made up of 3/4" thick lamination board cladding with 12mm thick Corian fixed on top & front panel and 3/4" thick ply fixed on front panel, including polish finish, including drawer unit and all hardware used, as per manufactures specification complete in all respect as per drawings or as directed by architect, As Shown in picture. (Size 9'-9" x 24" x 2'-6" & 3'-6" )	job	1		
60	<b>NEW ALUMINUM WINDOWS / VENTILATOR:-</b> Providing and fixing single glazed of Anodized Aluminum Window and Ventilators Delux Model (of approved matcheing existing colour) with fixed/sliding/openable window/ventilator shutters using 1.6mm thick minimum aluminum sections with minimum 100mm wide frame, including 5mm thick plain glass (frosted glass in windows and ventilators of toilet areas), openable/sliding fly proof shutters with fly/insect screen in openable sections of windows / ventilators, matching hardware, handles, locking arrangement , opening arrangement with approved stays, fixing with stainless steel screws, sealing the joints between aluminum sections and adjoining surfaces with transparent silicon sealent both inside and outside, etc. complete in all respects matching with existing as approved by Engineer In charge.	Sft	1113		
61	<b>REPAIR OF EXISTING ALUMINUM WINDOWS / VENTILATORS:-</b> Repairing of Aluminium Windows/Ventilator including latch, wheel, gas kit, silicon, lock, aluminium, glass etc repair as satisfaction of engineer-in-charge complete in all respect.	Sft	371		





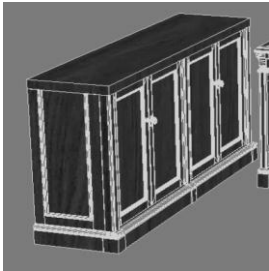
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**INTERIOR WORKS**

Sr. No	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
<b>Note:-</b> Contractor to submit Shop drawings for approval of the Architect before fabrication). The rates include cost of all sampling and Mock-ups as desired by the Architect. All work shall be finished as per entire satisfaction of Owner/Architect with proper tools and practices while making good any damage to existing surface or equipment.					
62	<b>GRINDING AND POLISHING OF EXISTING STAIR STEPS:- (Only 4th Floor)</b> Repairing grinding & Polishing with grouting of existing stair marble/ chips steps, complete in all respect or as directed by the Engineer-in-charge.	Sft	160		
63	<b>REPAIR &amp; PAINTING OF EXISTING WOODEN DOOR:-</b> Repairing and applying of matt enamel paint on existing wooden door of approved shade with three coats over a primer coat along with required coats of Putty Filling and preparation of surface, including repair hardware, locks, door stopper, tower bolts etc, complete at any height at any floor, finished smooth as desired by Engineer-Incharge.	Sft	100		
64	<b>PAINTING:-</b> Supplying and installation oil painting of different size with wood frame as per drawing or as directed by architect. complete with all accessories.	NO	4		
65	<b>SIGNAGE:-</b> Providing and install Aluminum alloy modular signage, change able system complete with, Acrylic: CNC / Laser machine processed acrylic sheet for fine cutting • Printing: Digital UV LED printing on acrylic / Board lite sheet pvc strips for insert for required colours • Fixing: Fixing with double Adhesive Tape tape / screws as per manufacture specifications, as approved by the Architect or as directed by the Engineer-in-Charge.				
65.1	6"x 12" Classic Signage	No	12		
65.2	6"x 30" Classic Signage	No	6		
65.3	8"x 6" Classic Signage	No	12		
65.4	6"x 6" Classic Signage	No	10		
66	<b>MAIN LOGO:</b> Providing and install main logo, made up of 8mm thick acrylic logo with laser cutting including paint finish, UV/ LED printing on face for actual colour Fixing with double Adhesive Tape tape / screws as per manufacture specifications, as approved by the Architect or as directed by the Engineer-in-Charge.	No	3		
67	<b>3D LETTERING:-</b> Providing and install acrylic 3D letters, made up of 8mm thick acrylic letters with laser cutting including paint finish for actual colour Fixing with double Adhesive Tape tape / screws as per manufacture specifications, as approved by the Architect or as directed by the Engineer-in-Charge.				
67.1	BUSNISS CENTER	job	2		
67.2	INSPECTION	job	1		
67.3	INCORPORATION	job	1		
67.4	CRO Office	job	1		
<b>Total Amount</b>					




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**FURNITURE WORKS**

Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
<b>INCHARGE ROOM FURNITURE</b>								
1	INCHARGE TABLE	Providing and Supplying exective table made up of Oak veneer, jacobean polish, leatherite penal on top, solid wood frame, complete as per manufactures specification or as directed by architect, As Shown in picture,	(6'-0"x2'-6"x2'-6")		NO	1		
2	INCHARGE SIDE RACK	Provide and supplying side rack made up of Oak veneer, jacobean polish, solid wood frame, and drawers, shutter for storage and keyboard, complete as per manufactures specification or as directed by architect, As Shown in picture,	(3'x18"x30"		NO	1		
3	INCHHARGE CREDENZA	Provide and supplying credenza made up of Oak veneer, jacobean polish, solid wood frame, and drawers, shutter for storage, complete as per manufactures specification or as directed by architect, As Shown in picture,	(6'-0"x15"x30")		NO	1		

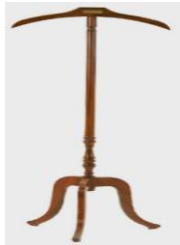


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**FURNITURE WORKS**

Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
4	HIGH BACK REVOLVING CHAIR	Provide and supplying revolving chair made up of Oak wood base with castors and Leatherette finish with height adjustable (gas lift) torision bar basic tilt mechinism 360 rotation, and as shown in picture as per approved color and sample,			NO	1		
5	VISITOR CHAIR	Providing & supplying visitor chair made up of leatherette top with master molty foam, oak wood frame and legs with Jacobean finish semi glazed complete as per manufactures specification or as directed by architect, As Shown in picture			NO	2		
6	SINGLE SEAT SOFA	Providing and supplying single seat Sofa with acacia wood stucture and oak wood legs in Jacobean polish finish Leatherette with decorative brass nails of Approved color and shade, design and hardware as per manufacturer's specifications as shown design in picture or equivalent, or as directed by architect, (Interwood or Equivalent)			NO	2		
7	SIDE TABLE	Supplying and provide Side table with 1.5" thick oak wood top in Jacobean finish semi glazed and wood legs, as per design in picture or equivalent design by manufacturer, details as per manufacturer's specification, or as directed by architect.	18" DIA X18" HEIGHT		No	1		




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**FURNITURE WORKS**

Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
8	Coat Hanger	Providing and supplying coat hanger made up of ash wood frame, hanger and legs in teak finish semi glazed. as per manufactures specification or as directed by architect, as shown in picture (interwood or Equivalent)			NO	1		
<b>OFFICERS TABLE</b>								
9	OFFICER DESK	Providing & supplying table Unit Top to be made of 25 mm thick (imported) melamine laminated particle board, all edges to be covered with 2 mm thick pvc edging, base with MS powder coated finished frame with side rack, courtesy panel, having 03 drawer & shelves with all cable management system complete as per manufactures specification or as directed by architect, As Shown in picture.	Table (5'-6"X 2'-6"X2'-6") Side Rack : (5'-6"X 1'-6"X 2'-4")		No	26		
10	HIGH BACK REVOLVING CHAIR	Providing and supplying revolving chair with cushioned Seat and Back, frame as per manufacturer's specs, approved color and sample, Having 5-star revolving adjustable threaded pedestal, durable & load bearing castor wheels. complete as per manufactures specification or as directed by architect, As Shown in picture.			No	26		




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Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
11	VISITOR CHAIR	Providing & supplying wooden chair leatherette top with master molty foam, oak wood frame and legs with Jacobean finish semi glazed complete as per manufactures specification or as directed by architect, As Shown in picture.			No	52		
12	OVER HEAD CABINET	Provide and supplying OHC made up of 15" deep and 14" high to be made of imported 3/4" th. melamine laminated particle board, all edges to be covered with 2 mm thick pvc edging, used for box and shutter approved color with pvc edge lipping, including imported Kitchen Concealed hinges, magnetic catchers, locks, SS handles complete with all hardware used as per drawing ,complete in all respect. Installation detail will be coordinated with Partition.	4'-0"X 1'-3"X 1'-2"		Sft	26		
<b>WORK STATION</b>								
13	WORKSTATION WITH SIDE RACK	Providing and supplying workstation made up of imported melamine laminated 25mm thick top with 2mm thick pvc edge lipping with Ms powder coated frame with side rack having 03 drawer & CPU unit with all cable management system, complete all hardware used and Quality as per manufactures specification or as directed by site incharge. Installation detail will be coordinated with Partition.	(4'-0"X 2'-0"X 2'-6")		No	40		



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**FURNITURE WORKS**


Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
14	OVER HEAD CABINET	Provide and supplying OHC made up of 15" deep and 24" high to be made of 25 mm thick (imported) 3/4" melamine laminated particle board, all edges to be covered with 2 mm thick pvc edging, used for box and shutter approved color with pvc edge lipping, including imported Kitchen Concealed hinges, magnetic catchers, locks, SS handles complete with all hardware used as per drawing ,complete in all respect. Installation detail will be coordinated with the partition.	4'-0"X 1'-3"X 1'-2"		No	40		
15	MEDIUM BACK REVOLVING CHAIR	Providing and supplying revolving chair with cushioned Seat and Back, frame as per manufacturer's specs, approved color and sample, Having 5-star revolving adjustable threaded pedestal, durable & load bearing castor wheels. complete as per manufactures specification or as directed by architect, As Shown in picture.				40		
<b>INSPECTION WORK STATION</b>								
16	WORKSTATION WITH SIDE RACK PS AND INSPECTION	Providing and supplying workstation made up of imported melamine laminated 25mm thick top with 2mm thick pvc edge lipping with Ms powder coated frame frame with side rack having 03 drawer & CPU unit, courtesy panel with all cable management system, complete all hardware used and Quality as per manufactures specification or as directed by site incharge.	4'-6"X 2'-0"X 2'-6" Side Rack 2'-6"x 1'-3"x2'-6"		No	1		

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**FURNITURE WORKS**




Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
17	OVER HEAD CABINET FIXED ON WALL	Provide and supplying OHC made up of 15" deep and 24" high to be made of 25 mm thick (imported) 3/4" melamine laminated particle board, all edges to be covered with 2 mm thick pvc edging, used for box and shutter approved color with pvc edge lipping, including imported Kitchen Concealed hinges, magnetic catchers, locks, SS handles complete with all hardware used as per drawing ,complete in all respect.	4'-0"X 1'-3"X 1'-2"		No	1		
18	MEDIUM BACK REVOLVING CHAIR	Providing and supplying revolving chair with cushioned Seat and Back, frame as per manufacturer's specs, approved color and sample, Having 5-star revolving adjustable threaded pedestal, durable & load bearing castor wheels. complete as per manufactures specification or as directed by architect, As Shown in picture.			No	1		

**PA WORKSTATION**

19	WORKSTATION	Providing and supplying workstation made up of imported melamine laminated 25mm thick top with 2mm thick pvc edge lipping with Ms powder coated frame frame with side rack having 03 drawer & CPU unit, courtesy panel with all cable management system, complete all hardware used and Quality as per manufactures specification or as directed by site incharge.	4'-6"X 2'-0"X 2'-6" Side Rack 2'-6"x 1'-3"x2'-6"		No	1		
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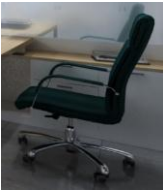
**FURNITURE WORKS**

Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
20	VISITOR CHAIR	Providing & supplying wooden chair leatherette top with master molty foam, oak wood frame and legs with Jacobean finish semi glazed complete as per manufactures specification or as directed by architect, As Shown in picture.			No	1		
21	SELF SERVICE COUNTERS	Provide and supplying Self service Counters 3'-6" high made up of 30"x18"x 3" thick top shelve with corain coating, 24"x12"x1.5" thick base with corian coating, 3"x3" MS powder coated hollow pipe support connected with base with 1/4" powder coated ms plate, 18"x9"x24" marble clad wood box for CPU and other accessories complete as picture and manufacturer's specifications.			No	15		
22	STOOL CHAIR	Providing & supplying with cushioned seat fitted in SS frame and base height adjustment mechanism sizes as per manufacturer's specifications complete per Picture or as directed by architect.			No	15		






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**FURNITURE WORKS**




Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
23	VISITOR CHAIR	Providing & supplying chair with Oak wood legs and frame, seat and back cushion of 1st quality molty foam, covered with fabric finish as per approved color and sample as shown picture design or equivalent as per manufacturer's specification, or as directed by architect,			No	18		
24	PAMPHLET RACK	Providing & supplying pamphlet rack made up of powder coated MS 1" pipe frame with laminated shelves, PVC Edge lipping, approved color, and shape, as per picture and Quality as per manufactures specification or as directed by site incharge	18"x12"x4'		No	1		
<b>FACILITATION COUNTER</b>								
25	MEDIUM BACK REVOLVING CHAIR	Providing and supplying revolving chair with cushioned Seat and Back, frame as per manufacturer's specs, approved color and sample, Having 5-star revolving adjustable threaded pedestal, durable & load bearing castor wheels. complete as per manufactures specification or as directed by architect, As Shown in picture.			No	2		

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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
<b>CONFERENCE ROOM</b>								
26	MEETING TABLE 12 PERSON	Providing & supplying Meeting Table Oak Wood veneer and board with wood edge lipping, in Jacobean finish semi glazed. Leatherette panel in centre with Cable management system and 3# wire grommete with under table cable tray, Imported Hardware with brass screws, complete as per manufactures specification or as directed by architect, As Shown in picture	(15'-0"X 4'-3"X 2'-6")		No	1		
27	HIGH BACK REVOLVING CHAIR	Provide and supplying revolving chair made up of SS base with castors and Leatherette finish as per approved color and sample, with height adjustable (gas lift) torsion bar basic tilt mechanism, Having 5-star revolving adjustable threaded pedestal, durable & load bearing caster wheels.and as shown in picture as per approved color and sample,			No	25		
<b>RECEPTION AREA FURNITURE</b>								
28	RECEPTION TABLE	Providing and Fixing Reception Counters, 3" thick top and sides , three levels with 30" & 9" wide, made up of 3/4" thick lamination cladding with 12mm thick Corian fixed on top & sides and 3/4" thick ply fixed on front panel with two level, including polish finish approved manufactureR specification, including drawer unit and all hardware used, as per manufactures specification complete in all respect as per drawings or as directed by architect, As Shown in picture.	L: 7'-0"xW: 2'-9" x H: 2'-6",3'-0" & 3'-6"		No	1		

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Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
29	MEDIUM BACK REVOLVING CHAIR	Providing and supplying revolving chair with cushioned Seat and Back, frame as per manufacturer's specs, approved color and sample, Having 5-star revolving adjustable threaded pedestal, durable & load bearing castor wheels. complete as per manufactures specification or as directed by architect, As Shown in picture.			No	1		
30	SOFA CHAIR	Providing and supplying Sofa with Oak wood frame and legs in teak polish finish. with fixed with 1st quality molty foam and covered with fabric as per approved color and sample,. wood size, design and hardware as per manufacturer's specifications as shown in picture or equivalent, or as directed by architect.			No	5		
31	CENTER TABLE	Providing and supplying center table 3 person made up of imported melamine laminate 1.5" thick top with 2mm tick pvc edge lipping and powder coated S.S frame and legs , approved color complete as per manufactures specification, as Shown in picture or equivalent	18" DIA & 18" HEIGHT		No	2		

<p style="text-align: center;"> <b>INTERIOR RENOVATION OF SECP COMPANY REGISTRATION OFFICE</b>  <b>AT 4TH FLOOR, STATE LIFE BUILDING NO 2,</b>  <b>WALLACE ROAD, I.I. CHUNDRIGARH ROAD,</b>  <b>KARACHI</b>  <u><b>BILL OF QUANTITIES</b></u> </p>
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FURNITURE WORKS	
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## **BILL OF QUANTITIES**

## MEP WORKS

**INTERIOR RENOVATION OF SECP COMPANY REGISTRATION OFFICE**  
**AT 4TH FLOOR, STATE LIFE BUILDING NO 2,**  
**WALLACE ROAD, I.I. CHUNDRIGARH ROAD,**  
**KARACHI**  
**BILL OF QUANTITIES**  
**MEP SUMMARY OF COST**

**Electrical Works**

1.0 Electrical Works

Rs.

**Total Rs.**

**HVAC Works**

1.0 HVAC Works

Rs.

**Total Rs.**

**Plumbing Works**

1.0 Plumbing Works

Rs.

**Total Rs.**

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**Signed & Stamped Of Contractor**

**INTERIOR RENOVATION OF SECP COMPANY REGISTRATION OFFICE**  
**AT 4TH FLOOR, STATE LIFE BUILDING NO 2,**  
**WALLACE ROAD, I.I. CHUNDRIGARH ROAD,**  
**KARACHI**  
**BILL OF QUANTITIES**  
**SUMMARY OF COST (Electrical Works)**

**Vol-1**

1.0	LT SWITCHGEAR	Rs.	
2.0	CIRCUIT POINT WIRING	Rs.	
3.0	POWER CABLES AND CONDUITS	Rs.	
4.0	FITTING FIXTURES AND FANS	Rs.	
5.0	TELECOMMUNICATION SYSTEM	Rs.	
6.0	FIRE ALARM SYSTEM (CONVENTIONAL)	Rs.	
7.0	CC TV SYSTEM	Rs.	
8.0	EARTHING SYSTEM	Rs.	
9.0	ACCESS CONTROL SYSTEM (ONLINE)	Rs.	
10.0	WI-FI SYSTEM (INSTALLATION ONLY)	Rs.	
11.0	MISCELLANEOUS ITEMS	Rs.	
		<b>Total Rs.</b>	_____
			_____

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**Signed & Stamped Of Contractor**

**INTERIOR RENOVATION OF SECP COMPANY REGISTRATION OFFICE  
AT 4TH FLOOR, STATE LIFE BUILDING NO 2,  
WALLACE ROAD, I.I. CHUNDRIGARH ROAD,  
KARACHI  
BILL OF QUANTITIES**

**ELECTRICAL & ALLIED WORKS**Vol-1

S. No.	Description	Qty	Unit	Rate	Amount
<b>1.0</b>	<b>LT SWITCHGEARS</b>				
1.01	<p><b><u>Main Panel Board (MPB-4F)</u></b></p> <p>Fabrication, supply at site, installation at designated location, testing and commissioning of Main Panel Board (MPB) comprising of cubicles, frame made of sheet steel 12 SWG and doors of 14 SWG, with flexible earthing straps, degreased and de-rusted, finished with electro-static powder coating of 50 micron thickness in approved color.</p> <p>panel housing to comply with protection class IP-54, indoor floor mounting, in free standing design, with hinged door, lockable handle, all auxiliaries, internal wiring, designation labels on MCCBs, earthing bar, numbering beads on the control wires, panel suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral</p> <p>bus bars of 99.8% purity electrolytic copper with tin plating, including cost of cable termination lugs, brass cable glands for incoming &amp; outgoing cables, wiring from breakers, indication lamps, instruments and control all accessories complete in all respects.</p> <p>All incoming and outgoing breakers shall be accessible by opening the front door having additional M.S. sheet cover. Gaskets shall also be provided where necessary. All MCCBs shall be suitable to operate without any de-rating at 50°C ambient temperature and shall be of one make only and not a mixture of more than one make.</p> <p>The front and back sides of MPB shall also have louvers at bottom and sides of panel for hot air exhaust. The panel shall have a front access. Circuits layout shall conform to the single line diagrams. Main Panel Board shall be manufactured by any one of the manufacturer as mentioned in List.</p> <p>Also note that For Control Purpose 2Amps SP MCBs should be used &amp; RS-485 Terminals should be provided for remote monitoring though EAs.</p> <p><b><u>Incoming From Existing Source</u></b></p> <p>01-250 Amps 4 pole Moulded Case Circuit Breaker (MCCB) having rupturing capacity =&gt;15 KA at 415 V.</p> <p>5-Main copper bus bars of electrolytic copper 99.9% size not less than (20x10)mm for each phase and neutral (3P+N) +(20mx 5mm) for earth.</p>				



**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
	03-Air cooled ring type current transformers ratio 250/5 Amps having suitable output and accuracy. 3-Phase indication lamps of colour Red, Yellow, Blue. 1-Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent. 03-Digital type Voltmeter square shaped scaled 0-500 V.  03-Digital type Ammeter square shaped scaled 0-250 Amps of appropriate size suitable for operation with CTs.  1-Energy analyzer make Smart controller type X - 485. 2-Breaker ON-OFF indication lamp. 1-Under Voltage Trip (UVT).  <b><u>Outgoing</u></b>  01-32 Amps 2 pole Miniature Circuit Breaker (MCB) having rupturing capacity RC=>15KA at 415 V. 01-50 Amps 2 pole Miniature Circuit Breaker (MCB) having rupturing capacity RC=>15KA at 415 V. 05-40 Amps 3 pole Moulded Case Circuit Breaker (MCCB) having rupturing capacity RC=>15 KA at 415 V.  01-100 Amps 3 pole Moulded Case Circuit Breaker (MCCB) having rupturing capacity =>15 KA at 415 V. 3-Spaces for installation of MCCBs in future Brass Cable Glands & Space for BTB/Cable as per SLD Each cubicle to have 2 thermostatically controlled 230 Volts robust exhaust fan 6"/8" dia. to be installed on inner sides on back or on top of synch panel for hot air exhaust, including cost of thermostat ON/OFF switches wire mesh, air filters and all accessories / wiring, complete in all respects.  Tube light with rod to be installed inside each cubicle with micro switch on each door.  <b><u>Complete in all respect as per single line diagram.</u></b>	1	No		

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1.02	<p><b><u>Distribution Boards:</u></b></p> <p>Supply installation and commissioning of recessed wall mounting/slab mounted key tagged type Distribution Boards fabricated from 16 SWG sheet steel with electrostatic paint of approved colour and with back box, comprising of incoming 3 phase moulded case circuit breakers or earth leakage circuit breakers (as specified) and outgoing single phase Miniature circuit breakers (having magnetic &amp; thermal trip devices) as given below,</p> <p>complete with internal wiring earthing , neutral link, termination blocks and cable chamber at the top of incoming 3 phase moulded case circuit breakers or earth leakage circuit breakers (as specified) and outgoing single phase Miniature circuit breakers (having magnetic &amp; thermal trip devices) as given below, complete with internal wiring earthing, neutral link, termination blocks and cable chamber at the top of the DB.</p> <p>Each D.B. shall have Digital Voltmeter, Voltmeter / Selector switch, LED Phase indication lights &amp; control fuses on incoming. All breakers &amp; instrumentation and other materials shall be as listed in Annexure "A" it shall be manufactured by any one of the manufacturers as mentioned in Annexure "A" and <b><u>conforming to single line diagram.</u></b></p> <p>Conforming to same constructional specification as 1.20 but equipped with following:</p> <p>i <b><u>Distribution Board DBL-4F</u></b></p> <p><b><u>Incoming:</u></b></p> <p>1-40 ATP MCCB (RC=&gt;10 KA)  03- Phase Indication Light  01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch</p> <p><b><u>Outgoing:</u></b></p> <p>30-10 ASP MCB (RC=&gt;6 KA)  3- MCB Single Pole - Spaces For Futures</p>	1	Nos		

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
ii	<b><u>Distribution Board DBP-4F</u></b> <b><u>(Double portion DB)</u></b>  <u>Incoming:</u> 2-50 ATP MCCB (RC=>10 KA) 06- Phase Indication Light 02 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 48-10/16 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
iii	<b><u>Distribution Board DBAC-3F</u></b>  <u>Incoming:</u> 1-100 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 7-20 ATP MCB (RC=>6 KA) 15-20 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
iv	<b><u>Distribution Board DBU1-4F</u></b>  <u>Incoming:</u> 1-32 ADP MCB (RC=>10 KA) 01- Phase Indication Light 01 - Voltmeter 0 - 240V (Smart Control) 2-3 Pin 63 Amps Three Phase Industrial Power Socket. <u>Outgoing:</u> 18-16 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
v	<b><u>Distribution Board DBU2-4F</u></b>  <u>Incoming:</u> 1-20 ADP MCB (RC=>10 KA) 01- Phase Indication Light 01 - Voltmeter 0 - 240V (Smart Control) 2-3 Pin 32 Amps Three Phase Industrial Power Socket. <u>Outgoing:</u> 12-16 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
<b>SUB TOTAL SECTION (1.0)</b>					

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>2.0</b>	<b>CIRCUIT POINT WIRING</b>				
	<b>Note:-</b> For list of approved manufacturer's see Annexure "A".				
2.01	Supply and wiring of light circuit from <b>DB to switchboard / Presence Detector (PD)</b> with 2x2.5mmsq single core insulated 300/500 volt grade cables(P+N) and 2.5mmsq cable as protective conductor (PC) in & including PVC conduit installed/ recessed in walls / R.C.C. Slab, on ceiling or as required as per site conditions (Cable tray), complete in all respects as per specifications and drawings.	27	Each		
2.02	Same as item # 2.01, circuit point wiring from <b>switch board to switch board</b> (Loop Circuit).	5	Each		
2.03	Supply and wiring of first light / Exhaust fan point consisting of <b>one point controlled by one switch</b> with 2x1.5mmsq (P+N) PVC insulated 300/500 volt grade wire in and including PVC conduits recessed in walls/R.C.C. slab, on ceilings or as required (cable tray), 2.5mm <sup>2</sup> cable as CPC complete with 10 Amp. single way switch make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards duly powder coated paint with earth bolt recessed in wall/column complete in all respects as per drawing & specifications.	120	Each		
2.04	Same as item No. 2.03 above but <b>point to point</b> wiring.	220	Each		
2.05	Supply and wiring of first light / wall / Exhaust fan point / Occupancy Sensor with 2x2.5mm <sup>2</sup> (P+N) PVC insulated 300/500 volt grade wire from <b>distribution board breaker</b> in and including PVC conduits recessed in walls/R.C.C. slab, or installed on ceilings or as required (Cable tray) , 2.5mm <sup>2</sup> cable as PC,complete in all respects as per drawing & specifications.	1	Each		
2.06	Same as item No. 2.05 above but <b>point to point</b> wiring.	10	Each		
2.07	Same as item No. 2.03 above but wiring of fan point including cost of M.S. fan hook box and fan dimmer make as approved by consultant (annexure-A) fitted on plastic plates installed on 16 SWG sheet steel boards recessed in wall/column.	2	Each		

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
2.08	Supply and wiring of first 2 pin 5/10 Amps socket outlet point make as approved by consultant (annexure-A) from <b>nearest switch board</b> with single core 2x1.5mmsq PVC insulated 300/500 volt grade cable in & including PVC conduit recessed in walls/R.C.C. slab, or on surface of ceiling including all conduits accessories, junction boxes, pull boxes etc. 2.5mm <sup>2</sup> cable as PC ; & including 16 SWG sheet steel board recessed in walls complete in all respects and as per specifications & drawings.	7	Each		
2.09	Supply and Wiring of one 15A power sockets outlet with 2x 4mmsq single core cables (P+N) and 2.5 mmsq as CPC from <b>DB to point</b> including cost of one Nos. 15A 3 pin switch socket outlet in 1" dia PVC conduit make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards recessed in walls /columns, Complete in all respects.	16	Each		
2.10	Same as item No.2.09 above but loop wiring of 15A power sockets outlet with 2x 4mmsq single core cables (P+N) and 2.5 mmsq as CPC from <b>point to point</b> including cost of one Nos. 15A 3 pin switch socket outlet with make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards recessed in walls /columns, Complete in all respects.	14	Each		
2.11	Supply and Wiring of one 5A light sockets outlet with 2x 2.5mmsq single core cables (P+N) and 2.5 mmsq as CPC from <b>DB to point</b> including cost of one Nos. 5A 3 pin switch socket outlet in 1" dia PVC conduit with make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards recessed in walls /columns, Complete in all respects.	24	Each		
2.12	Same as item No.2.11 above but loop wiring of 5A power sockets outlet with 2x 2.5mmsq single core cables (P+N) and 2.5 mmsq as CPC from <b>point to point</b> including cost of one Nos. 5A 3 pin switch socket outlet in 1" dia PVC conduit with make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards recessed in walls /columns, Complete in all respects.	68	Each		

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
2.13	Supply and Wiring of one 13A light sockets outlet with 2x 4mmsq single core cables (P+N) and 2.5 mmsq as CPC from <b>DB to point</b> including cost of one Nos. 13A 3 pin switch socket outlet in 1" dia PVC conduit with make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards recessed in walls /columns, Complete in all respects.	26	Each		
2.14	Same as item No.2.13 above but loop wiring of 13A power sockets outlet with 2x4mmsq single core cables (P+N) and 2.5 mmsq as CPC from <b>point to point</b> including cost of one Nos. 13A 3 pin switch socket outlet with make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards recessed in walls /columns, Complete in all respects.	160	Each		
2.15	Supply and Wiring of 20A power sockets / geyser with 2x 6mmsq single core cables (P+N) and 2.5 mmsq as CPC from <b>DB to point</b> including cost of 20A switch socket outlet in 1" dia PVC conduit make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards recessed in walls /columns, Complete in all respects.	2	Each		
2.16	<b>Wiring for Group Control emergency &amp; Exit Light Fixtures</b> from DB to first light point with 3X2.5 Sq.mm (P+N+E) 60 minutes Fire Rated cable in 25mm dia PVC Conduit as exposed / concealed shown on drawings. Complete in all respects.	1	Each		
2.17	Supply & installation of flexible connection between light point above false ceiling to light fitting in false ceiling with 3 core 40/.076 flexible cable in & including corrugated PVC flexible pipe, 15A Bakelite connector & pipe accessories etc as required.	30	Each		
<b>SUB TOTAL SECTION (2.0)</b>					

**ELECTRICAL & ALLIED WORKS****Vol-1**

S. No.	Description	Qty	Unit	Rate	Amount
3.0	<b>POWER CABLES AND CONDUITS</b>				
3.01	Supply at site, installation, testing and commissioning of PVC insulated PVC sheathed non armoured copper conductor (99.9% Pure) power cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in Annexure in preinstalled cable tray / trenches cables to be installed as per routes shown on drawings including cost of all necessary materials, connections of cables and identification tags at both ends, cables lugs properly crimped at both ends for the following sizes complete in all respects. <u>Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.</u>				
3.01 A	<b><u>1 Core Cable PVC/PVC</u></b>				
i	1 core 120mm.sq	20	Rm		
> ii	1 core 185mm.sq	15	Rm		
3.01 B	<b><u>2 Core &amp; 4 Core Cable PVC/PVC</u></b>				
i	2 core 10mm.sq.	15	Rm		
ii	2 core 16mm.sq.	15	Rm		
iii	4 core 16mm.sq.	35	Rm		
iv	4 core 35mm.sq.	15	Rm		
3.01 D	<b><u>Circuit Protective Conductor (CPC)</u></b>				
i	1 core 6mm sq. PVC insulated colour Green/Yellow.	15	Rm		
ii	1 core 10mm sq. PVC insulated colour Green/Yellow.	85	Rm		
iii	1 core 16mm sq. PVC insulated colour Green/Yellow.	30	Rm		
iv	1 core 70mm sq. PVC insulated colour Green/Yellow.	60	Rm		

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
3.02 A	<b><u>P.V.C. Conduit and Accessories</u></b>  Supply at site, installation of PVC / UPVC conduit heavy duty make Shavyl, Plasco / Beta Pipes to be installed on RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.				
i	1-1/2" dia. PVC conduit. (Class D)	100	Rft		
ii	2" dia. PVC conduit. (Class D)	200	Rft		
iii	3" dia. PVC conduit. (Class D)	100	Rft		
3.02 B	<b><u>PVC Pipe and Accessories</u></b>  Supply at site of 6" dia PVC heavy duty pipe make Shavyl, Plasco / Beta Pipes to be installed under ground, including cost of excavation of trench 30" deep, including cost of all PVC pipe accessories like bends, sockets, laying of PVC pipe with 4" thick layer of sand beneath pipe, 4" thick layer of brick protection and sand tape above pipe, refilling of excavations with sweet earth, ramming, watering cost of labour, material, complete in all respects.	0	Rft		
3.02 C	<b><u>Powder Coated Ceiling Suspended / Horizontal Cable Tray in Corridor</u></b>  Fabrication, supply at site and installation of perforated cable tray made of M.S. sheet 14 SWG 8 ft. to 10 ft. long with sides 3" high with cover of cable tray made of 18 SWG M.S sheet to be installed on wall, or in vertical, or above false ceiling in horizontal position or as shown on drawing, including cost of the following:-				



**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
	-2 M.S threaded hanging rod 1/2" dia. Length 12" or as required as per site. -M.S strip 2" wide x 1/4" thick. -Hilti rawal bolts as per required quantity & size. -2 coats of antirust paint. -2 coats of enamel paint (Oven hot) or powder coating of approved colour with Black Color/approved by the consultant. -Complete hanging system shall be installed at every 36".  The above mentioned cable tray shall be complete in all respects including cost of all accessories / materials. Cable tray shall be of the following sizes.				
a	4" X 3" Cable Tray 14 SWG & Cover 18 SWG	350	Rft		
a	6" X 3" Cable Tray 14 SWG & Cover 18 SWG	600	Rft		
c	12" X 3" Cable Tray 14 SWG & Cover 18 SWG	25	Rft		
<b>SUB TOTAL SECTION (3.0)</b>					

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>4.0</b>	<b>FITTING FIXTURES AND FANS</b>				
4.01	<u>Providing ,installation ,testing and commissioning of the following lighting fixture including all accessories like electronic ballast, drivery circuitry , lamps, mountings etc. Complete in all respects , make as approved by consultant (annexure-A).</u>				
i	Providing & fixing of Mirror / Glass / Picture Light <b>1x8 Watt</b> having color temperature ranging from 2700K to 4500K, lumen efficacy of 80 lm/W (Lumen/Watt) and operational power factor of 0.9 complete in all respects.	6	Each		
ii	Supply and installation of suspended hanging light with <b>1x12/15 Watt</b> LED Lamp installed with complete hanging arrangement and including the cost of fishwire, complete in all respects.	48	Each		
iii	Supply and installation of 4 feet long <b>1x30 Watt</b> Linear LED Light having lumen efficacy no less than 100 lm/W (lumen/watt), CRI>=80, color temperature ranging from 2700K to 4500K, having ingress protection of no less than IP-20 and operational power factor of 0.9 installed with complete hanging/fixing arrangement, complete in all respects as per instruction of engineer incharge. (Make Oppl/Zess/approved by the consultant)	70	Each		
iv	Supply & Installation of self contained Non maintained "EXIT LIGHT" No. CFS-EXT 300 make Alco/ Honeywell Esser or approved by the consultant with Fluorescent lamp NICAD batteries for 3 hours back up.	6	Each		
v	Supply & Installation of dual head "Emergency Light" No. CFS-EMG 300 battery operated (2xHLD Lamp) make Alco / Honeywell or approved by the consultant.	8	Each		
vi	Supply and installation of Ultra sonic rodent repeller make IV-Tech complete in all respects.	10	Each		

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
viii	Supply and installation of 2'x2' Suspended type LED panel with <b>1x36/45 Watt</b> having color temperature ranging from 2700K to 4500K, lumen efficacy of 80 lm/W (Lumen/Watt) and operational power factor of 0.9, including the cost of fishwire with complete hanging arrangement complete in all respects.	25	Each		
ix	Supply and installation of Downlight Covered with Glass <b>1x3/4 Watt SMD</b> having color temperature ranging from 2700K to 4500K, lumen efficacy of 80 lm/W (Lumen/Watt) and operational power factor of 0.9 complete in all respects.	5	Each		
x	Supply and installation of Downlight Covered with Glass <b>1x7/9 Watt SMD</b> having color temperature ranging from 2700K to 4500K, lumen efficacy of 80 lm/W (Lumen/Watt) and operational power factor of 0.9 complete in all respects.	60	Each		
xi	Supply and installation of Downlight Covered with Glass <b>1x3 Watt COB</b> having color temperature ranging from 2700K to 4500K, lumen efficacy of 80 lm/W (Lumen/Watt) and operational power factor of 0.9 complete in all respects.	18	Each		
xii	Supply and installation of rope light complete in all respects.	500	Rft		
4.02	Supply and installation of following epic gang controller including following outlets complete in all respects as per specification make Schneider/equivalent:  i) Usb Port ii) HDMI Port iii) VGA & SVGA Port iv) Telephone & Data Outlet v) 5 Amp/International Socket Outlet	2	Each		
4.03	Supply, installation, testing & commissioning of 1200 Watt dual technology with daylight sensing Presence Detector make Ventilux / Schneider as approved by the consultant.	5	Each		
4.04	Supply and installation of plastic body exhaust fan complete with louvered make as approved by consultant (annexure-A) ,complete as per specifications and drawings.				

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
4.05	i) Wall Exhaust fan 12" dia (Plastic Body one way) (rate only)	2	Each		
	ii) Ceiling Mounted Exhaust fan with corrugated 6" pipe including the cost of wire mesh stopper.	7	Each		
	Supply and installation of following ceiling fan make as approved by consultant (annexure-A) complete in all respects as per specification				
	i) 56" ceiling fan	0	Each		
4.06	ii) 2'x2' False ceiling Recessed Revolving fan	2	Each		
	Providing, Installing, fixing, testing and commissioning of Hand Dryer Automatic ABS body (Electrically operated) with all accessories including cutting & making good the walls as per the Drawings, Specifications and Standards.				
		5	Each		
<b>SUB TOTAL SECTION (4.0)</b>					

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>5.0</b>	<b>TELECOMMUNICATION SYSTEM: TELEPHONE ,DATA &amp; MATV</b>				
5.01	Supply & Laying of 1" dia PVC pipe to be laid under floor including floor cutting as required as per drawings & specifications for Telecommunication system	10300	Rft		
5.02	Supply & Installation of adjustable 12 SWG die cast aluminum 12"x12"x4" <b>Floor boxes</b> having base box of 16 SWG G.I. sheet with 3 sets of 15A PVC connectors, including floor cutting as required as per drawings for following outlets. i) 1-Telephone & Computer outlet. ii) 2-13 Amps 3 Pin Flat Pin Switch Socket Outlet iii) 1-5 Amp 3 pin Round Pin Switch socket outlets.	7	Each		
5.03	Supply & Installation of 12 SWG die cast aluminum 18"x12"x4" <b>Technology Boxes</b> having base box of 16 SWG G.I. sheet with 3 sets of 15A PVC connectors, including cutting as required as per drawings for following outlets. i) 1-Telephone & Computer outlet. ii) 2-13 Amps 3 Pin Flat Pin Switch Socket Outlet iii) 2-5 Amp 3 pin Round Pin Switch socket outlets.	75	Each		
5.04	Supply & Installation of 12 SWG die cast aluminum 18"x12"x4" <b>Technology Boxes</b> having base box of 16 SWG G.I. sheet with 3 sets of 15A PVC connectors, including cutting as required as per drawings for following outlets. i) 1-Computer outlet. ii) 2-13 Amps 3 Pin Flat Pin Switch Socket Outlet iii) 2-5 Amp 3 pin Round Pin Switch socket outlets.	17	Each		
5.05	Supply and installation of <b>RJ-11</b> Telephone outlet on single/double port face plate to be installed on M.S back box in floor/tech box/wall, with all accessories including face plate and I/O ,complete in all respect.	83	Each		
5.06	Supply and installation of <b>RJ-45</b> Computer (Data) outlet on single/ double port face plate , to be installed on M.S back box in floor/tech boxes/wall with all accessories including face plate and I/O ,complete in all respect.	104	Each		
5.07	Supply, Installation & connecting of <b>4 pair UTP CAT-6</b> cable from each telephone to telephone junction box for telephone system to be drawn in given prelaidd PVC pipe complete in all respects.	8500	Rft		

**ELECTRICAL & ALLIED WORKS****Vol-1**

<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
5.08	Supply, Installation & connecting of <b>4 pair UTP CAT-6</b> cable from each computer to computer junction box for computer networking to be drawn in given prelaaid PVC pipe complete in all respects.	10500	Rft		
5.09	Supply, Installation & connecting of <b>4 pair STP CAT-6</b> cable from each networking switch to main server rack as secondary backbone to be drawn in given prelaaid PVC pipe complete in all respects.	100	Rft		
5.10	Installation of <b>owner's supplied</b> Network Switch with all necessary accessories, complete in all respects.				
i	48 Ports	3	Each		
5.11	Installation of <b>owner's supplied</b> Core Network Switch with all necessary accessories, complete in all respects.				
i	8 Ports	1	Each		
5.12	Supply at site, installation, testing and commissioning of Cat-6 patch panels (meeting or exceeding relevant ANSI/TIA standards),input / output RJ-45 connectors suitable for Cat 6 cables patch guides along with cable managers for under mentioned nodes, including cost of power bus bar, IDC connectors, all necessary accessories / materials, whether mentioned or not but are required for proper functioning shall be deemed to be included in the cost of this item, complete in all respects make CISCO/or approved equivalent. Patch panel shall be installed after obtaining necessary permission from the computer specialist of the Client.				
i	48 Ports	3	Each		

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
5.13	Supply at site, installation, testing and commissioning of data cabinet of following approximate size (Size probably 32"x32"x88") make Tesco/HP/IBM/CISCO made of M.S sheet, powder coated, having lockable glass door at front, 4 exhaust fans on top, suitable for above mentioned data switches, consisting of the ports to be terminated on modular data cabinet, including cost of all necessary accessories / materials for passive equipment. The data cabinet and all passive equipment shall be complete in all respects including cost of all necessary materials / accessories. Patch panel shall be installed after obtaining necessary permission from the computer specialist of the Client.				
i	Same as above but for 42 U data Cabinet	1	Each		
5.14	Supply and installation of <b>Patch Cord</b> , to be installed on specified location as per advised by architect / engineer's incharge:-				
i	Cat-6 Patch Cord (1 Mtr)	100	Nos		
ii	Cat-6 Patch Cord (3 Mtr)	50	Nos		
5.15	Supply, installation, testing and commissioning of rack mounted Power Distribution Unit (PDU) of following sizes, to be installed on specified location as per advised by architect / engineer's incharge:-				
i	Single Cord (1x16A/20A) PDU (2.5 kW) with minimum 10 extensions (meeting or exceeding relevant IEC/ANSI standard)	3	Nos		
5.16	Supply and installation of HDMI cable of following sizes, to be installed on specified location as per advised by architect / engineer's incharge:-				
i	HDMI Cable (10 Mtr)	3	No.		
5.17	Supply and installation of VGA cable of following sizes, to be installed on specified location as per advised by architect / engineer's incharge:-				
i	VGA Cable (5 Mtr)	1	No.		
5.18	Supply, Installation & Connecting up of Telephone cables 0.6mm solid conductor, polyethylene insulated, 2 insulated conductors twisted together and PVC sheathed of following pairs:				

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
i	100 Pairs cable	100	Rft		
5.19	Supply at site, installation, testing and commissioning of telephone distribution boards with following telephone points to be terminated,complete in all respects:				
ii	100 Pair Main Distribution Frame (MDF)	1	Each		
5.20	Supply, installation of junction box 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.				
	i) Telephone Junction Box Size: 4"x7"x4" .	1	Each		
	ii) Computer Junction Box Size: 4"x7"x4" .	1	Each		
5.21	Supply & Installation of "MATV points wiring with all accessories CAT-6 UTP Cable in 1" dia PVC conduit from splitter (MATV- Floor Junction Box) to MATV outlet board (RJ-45 IOS Shutter Plate) complete in all respect.	4	Each		
5.22	Supply & Installation of "MATV points wiring with all accessories RG-6 Cable in 1" dia PVC conduit from splitter (MATV- Floor Junction Box) to MATV outlet board (RG-6 with IOS and Shutter Plate) complete in all respect.	4	Each		
5.23	Supply and installation of (1 to 4)Way MATV splitter with HDTV booster complete in all respects.	1	Each		
5.24	Supply, installation of television junction box 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.				
	i)TV Junction Box Size: 4"x7"x4" deep	1	Each		
5.25	Fluke testing of Telecommunication nodes complete in all respects.	200	Point		



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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
5.26	Termination, reinstallation & splicing of existing 6 to 8 pair single mode cable from existing OFC module as per the advise of engr incharge. It included one number of splicing kit of appropriate size.	1	Job		
5.27	Only Installation of Owner's supplied Projectors, complete in all respect.	2	Nos		
5.28	Wiring of Queue Management system using PVC insulated,CPT Type STP Cat-6 cable make VeniluxInc/Clipsal Cat-6 cables from Q-matic Kiosk /server unit to each Q Matic Display unit and to control switch at each teller's station in 1" dia heavy duty PVC conduit (excluding cost of conduit), complete as per the owner supplied equipment's specifications.	230	Rft		
5.29	Installation of Owner's supplied Queue Management system , complete as per the owner supplied equipment's specifications.	1	Job		
<b>SUB TOTAL SECTION (5.0)</b>					

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S. No.	Description	Qty	Unit	Rate	Amount
6.0	<b>FIRE ALARM SYSTEM (CONVENTIONAL)</b>				
	<b><u>Note:- The contractor shall provide warranty of parts &amp; service for one year, from authorized Distributor in Pakistan. Supply &amp; Installation of fire Alarm system conforming to EN-54 &amp; NFPA-72 comprising of following components / equipment</u></b>				
6.01	Supply, installation and connecting of non-addressable manual call stations press glass type with test dey, suitable for surface or flush mounting make from any one of the manufacturers as specified in Annexure "A" complete in all respects and conforming to general specifications.	3	Each		
6.02	Supply, installation and connecting of electronic alarm sounders ,complete in all respects and conforming to general specifications.	3	Each		
(i)	Same as above but outdoor hooter for fire alarm of high pitch as approved by the consultant	1	Each		
6.03	Supply, installation and connecting of non-addressable optical smoke detectors, complete in all respects and conforming to general specifications.	19	Each		
6.04	Same as above 6.03 but heat detector rate of temperature rise type ,complete in all respects .	1	Each		
6.05	Supply, installation and connecting of non-addressable fire alarm of following mentioned channel / zone. Separate bell alarming in each zone indication of point 48 to 72 hours power backup. Short/open circuit indications LED display / power fault, zone isolated test, complete in all respects and conforming to general specifications FACP to be installed at appropriate place as mentioned in drawings.				
	i) FACP 2- Zone	1	Each		
6.06	Supply and wiring of Smoke / Heat detector and manual call point 60 min Fire Rated Fire Alarm (FA) 1x2 core (1.23mm <sup>2</sup> ) cable 1" dia PVC conduit/cable tray with all installing accessories, complete in all respect as per drawings and specification.	27	Nos		

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
6.07	Supply at site of PVC conduit heavy duty, to be installed on RCC slabs, walls, floor or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.				
	i) 1" dia. PVC conduit.	200	Rft.		
6.08	Testing and Commissioning of fire alarm system as per NFPA-72.	1	Job		
<b>SUB TOTAL SECTION (6.0)</b>					

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>7.0</b>	<b>CC TV SYSTEM (IP BASED)</b>				
7.01	Wiring for each IP Based POE CCTV Cameras to be installed on walls / slabs or on false ceiling with cable CAT-6 UTP Cable cable in 1" dia PVC conduit / cable tray, complete in all respects.	17	Each		
7.02	Supply at site, installation, testing & commissioning of Full HD <b>Indoor Box Type</b> IP Based POE CCTV, Day and Night Type with minimum 2MP resolution pieces IR LED , Vandal proof Body, with at least 20-30 meters IR visibility, Indoor type , including mounting bracket, all fixing and mounting accessories, complete in all respects, including cost of all required accessories / materials.	15	Each		
7.03	Same as above but <b>dome type</b> make Alco/Honeywell.	2	Each		
7.04	Supply at site, installation, testing & commissioning of <b>24 channel NVR</b> with 512 MBPs network support,4K Video Out on HDMI,12 MP max camera support, Event Trigger (alarm input, video loss), Online 2x Gigabit Ethernet Network Facility,IP Filtering,GUI Interfacae, Built In Software including cost of 16 terabyte Hard Disk & KVM Switch, all necessary hardware and software accessories and materials, required for NVR, complete in all respects.	1	Each		
7.05	Supply at site, installation,tagging, connections, testing and commissioning of <b>following Ports Data Networking POE switch Layer-2 type</b> , consisting of following <b>Data</b> points to be terminated on modular patch panel, including cost of power bus bar, IDC connectors, all necessary accessories / materials, whether mentioned or not but are required for proper functioning shall be deemed to be included in the cost of this item, complete in all respects make CISCO/or approved equivalent.				
i	24 Port Data Networking POE switch Layer-2 type	1	Nos.		
7.06	Supply at site, installation, tagging and connections of <b>following port Data Patch panels</b> , installed in Data Rack or as per site. Including cost of all accessories and materials required make 3COM/Eqv, Complete in all respect.				
i	24 Port Data Patch panels	1	Nos.		
7.07	Supply, installation of Patch cords of following sizes:				

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
ii	1 Meter long	25	Nos.		
ii	3 Meter Long	24	Nos.		
7.08	Supply at site, installation, testing & commissioning of coloured CCTV monitor LED 32" , including cost of all necessary accessories and materials (like bracket and mounting arrangements), complete in all respect.	1	Each		
7.09	Supply and fabrication of close circuit junction boxes 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.				
	i)Junction boxes of appropriate size 4"x7".	1	Each		
7.10	Supply at site of PVC conduit heavy duty to be installed on RCC slabs, walls, floor or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.				
	i) 1" dia. PVC conduit.	850	Rft.		
	<b>Note:-</b> Above mentoned system should be complete in all respect for proper functioning including cost of items mentioned or not.				
<b>SUB TOTAL SECTION (7.0)</b>					

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>8.0</b>	<b>EARTHING SYSTEM</b>				
8.01	Providing and installation of Earthing Veractor Cone / Spike Size 2" thick, 12" long as shown in drawings or ¾" dia & 10 ft long copper rod as earth electrode 100 ft or upto the water level, below ground level including cost of boring and lowering the rod (100ft / upto the water level) down, complete with clamp and 2x70mm2 stranded copper conductor from rod to ground surface in 3" dia G.I.pipe (EL Class) with watering cap, Man-hole with cover as per detail shown in drawings. all earth work should be done according to the advise of electrical consultant.	1	Each		
8.02	Same as item # 8.01 (A), but wired with 2x25mmsq cable in 1½" dia GI Pipe (EL Class) as shown in drawings.	1	Each		
8.03	Supply and installation and looping with 70mm2 copper terminal Earth braids (flexible fishnet bonding straps) along with with necessary accessories duly installed on cable tray.	50	Nos		
8.04	Supply and installation of Earth connecting points comprising of 2"x9"x½" (Width x Length x Thickness) copper plate with brass nuts & bolts fitted on M.S. bracket installed on walls / columns.	2	Each		
8.05	Supply & Installation of following sizes of PVC insulated green color single core copper conductor cables to be drawn in given PVC / M.S. conduits or laid in cable trays or installed on vertical surfaces complete with cable lugs, ties, P.G. clamps markers and accessories as required complete in all respects.				
i	25mm2	45	Rm		
ii	70mm2	45	Rm		
<b>SUB TOTAL SECTION (8.0)</b>					

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
9.00	<b>ACCESS CONTROL SYSTEM (ONLINE)</b>				
9.01	<b>Wiring</b> for each Node/Gateway to be installed on walls/ceiling etc with 4 pair Cat. 6, UTP cable pure copper conductor in and including cost of 1" dia PVC conduit recessed in walls, columns, slabs, floors or above false ceiling with all necessary fixing accessories as required as per site condition, including cost of all PVC conduit accessories, pull boxes, steel pull wires, powder coated, including cost of all necessary accessories and materials, complete in all respects.	1	Nos.		
9.02	Supply at site, installation, testing and commissioning of <b>Proximity Cards ISO bar code card</b> standard size and thickness, thin, flexible polyvinyl chloride laminated, passive type, easy printable on both sides.	30	Nos.		
9.03	Supply at site, installation, testing and commissioning of following <b>Wifi Operated Magnetic Drop Bolt Lock</b> with built in batteries, holder, Proximity Card Reader 125KHz, (for outside door) reading range 6", operating at low voltage DC supply, with mounting base suitable for interior and exterior environment with Door Interface Unit (DIU), and fixing accessories, complete in all respects make Salto Mifare/Approved equivalent.				
a)	Single Door	0	Nos.		
b)	Double Door	3	Nos.		
9.04	Supply at site, installation of Master unit alongwith software, usb encoder for card reader, for access control cloud duly installed at ceiling complete in all respects. <b>Note:-</b> Above mentoned system should be complete in all respect for proper functioning including cost of items mentioned or not.	1	Nos.		
<b>SUB TOTAL SECTION (9.0)</b>					

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>10.0</b>	<b>WI-FI SYSTEM (INSTALLATION ONLY)</b>				
10.01	Wiring for each POE Wi-Fi Access points to be installed on walls / slabs or on false ceiling with cable CAT-6 UTP Cable cable in 1" dia PVC conduit ( <b>excluding</b> cost of pipe) make Plasco / Beta Pipes, complete in all respects.	5	Each		
10.02	Installation of Owner's supplied WIRELESS Indoor WIFI access point with necessary mounting arrangement, complete in all respects.	5	No.		
10.03	Installation,tagging, connections of Owner's supplied <b>PoE Data Networking switch &amp; patch panel, alongwith patch cords</b> , consisting of following Wifi <b>Data</b> points to be terminated on modular patch panel, all necessary accessories / materials,				
i	8 Ports	1	Each		
	<b>Note:-</b> Above mentoned system should be complete in all respect for proper functioning including cost of items mentioned or not.				
<b>SUB TOTAL SECTION (10.0)</b>					



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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>11.0</b>	<b>MISCELLANEOUS ITEMS</b>				
11.01	Supply and installation of Fire fighting equipment for critical and non critical areas complete in all respects.				
i	Dry Powder Fire Balls	3	Each		
ii	25 kg Carbon Dioxide AFFF Fire Trolley	1	Each		
iii	5kg Carbon Dioxide Fire Extinguishers	3	Each		
11.02	Dismantling of old items as far as electrical items are concerned and their handing over to the client as where is basis.	1	Job		
11.03	Supply, Installation, testing and commissioning of 40" 4K High definition Full android supported LED TV with hanging brackets make Samsung/approved by the consultant complete in all respects.	2	Nos		
11.04	Only installation of 40" Owner's supplied LED TV with hanging brackets complete in all respects.	2	Nos		
11.05	Supply, Installation, testing and commissioning of One complete Set of VGI cable, 10 Meter long HDMI cable Audio Video cables, CAT-6 UTP Ethernet Cords with fitted with RJ-45 outlets, complete in all respects.	3	Set		
11.06	Only Installation of Owner's supplied Microwave Oven, per requirements	1	Job		

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<b>S. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
11.07	Only Installation of Owner's supplied Fridge, per requirements	1	Job		
11.08	Only Installation of Owner's supplied Electrical Hob, per requirements	1	Job		
<b>SUB TOTAL SECTION (11.0)</b>					
<b>Total Carried Over to Summary of Costs</b>				<b>Rs.</b>	

**Note:**

It should be clearly understood by the contractor / bidder that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder.

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**Signed & Stamped Of Contractor**

LIST OF APPROVED MANUFACTURERS (M)					(Annexure-A)
Sr #	Particulars	Manufacturers / Vendors	Origin	Landline	Mobile / Cell
1	<b><u>LT / HT PANELS &amp; DB's / Street Poles</u></b>				
i	Quality Switchgear Pvt Ltd.	Quality Switchgear	Pakistan	042- 111-786-774	0300-8404301
ii	Bilal Engineering	Bilal Engineering	Pakistan	042-37523812	0331-4999119
iii	AL-Rehman Switchgear	AL-Rehman Switchgear	Pakistan	-	0322-4466011
iv	Tariq Electric	Tariq Electric	Pakistan	042-3-6522861	0300-8492515
v	South Asian Electric Concern	South Asian Electric	Pakistan	042-3-6530000	0300-8477067
vi	PEMPAK	PEMPAK	Pakistan	111-736-725	0345-844229
2	<b><u>CIRCUIT BREAKERS</u></b>				
a)	<b><u>ACBs/TP MCCBS</u></b>				
i)	L.S	Sheikh Waliyat & Sons	Korea	021-3-2624011	0307-5553960
ii)	Terasaki	Jubilee Corporation	Japan	042-111-000-520	0300-8548550
iii)	Legrand	Shahid International	EU	042-37670980-1-4	0321-8472264
b)	<b><u>SP MCBS / ELCBS</u></b>				
i)	LS	Sheikh Waliyat & Sons	Korea	021-3-2624011	0307-5553960
ii)	Terasaki	Jubilee Corporation	Japan	042-111-000-520	0300-8548550
iii)	Legrand	Shahid International	EU	042-37670980-1-4	0321-8472264
3	<b><u>CONTACTORS</u></b>				
i)	Terasaki	Jubilee Corporation	Japan	042-111-000-520	0300-8548550
ii)	L.S	Sheikh Waliyat & Sons	Korea	021-3-2624011	0307-5553960
iii)	Lovato	Jubilee Corporation	EU	042-111-000-520	0300-8548550
4	<b><u>SELECTOR SWITCHES</u></b>				
i)	GGT	E-Links	EU		0321 4404025
ii)	KRAUS & NAIMER	E-Links	EU		0321 4404025
5	<b><u>VOLTMETER, AMPEREMETERS, FREQUENCY METERS, ENERGY ANALYZERS / ENERGY METERS</u></b>				
i)	Smart Controller	Index Technology	UK	042-38939166	0300-8184203
ii)	Lovato	Jubilee Corporation	Italy	042-111-000-520	0300-8548550
6	<b><u>INDICATION LIGHTS</u></b>				
i)	Telemecanique / Schneider	Schneider Pakistan	EU	042-35912571	
ii)	GGT	E-Links	EU		0321 4404025
7	<b><u>SWITCHES &amp; SOCKETS</u></b>				
i)	Clipsal Vivace Series	Clipsal Pakistan	China		0322-2880057
ii)	Legrand	Shahid International	EU	042-37670980	0321-8472264

iii)	Orange Switches	Orange Electric			0322-4834937
8	<b><u>LT CABLES</u></b>				
i)	Coppergat Cables	Coppergat Cables	Pakistan	111 222 425	0300-8453646
ii)	Fast Cables	Fast Cables	Pakistan	042-35742391	0320-8080046
iii)	Newage Cables	Newage Cables	Pakistan	042 111 777 300	0333-4748210
iv)	Golden Star Cables	Golden Star Cables	Pakistan		0321-4044297
9	<b><u>EARTHING CONDUCTORS</u></b>				
i)	Coppergat Cables	Coppergat Cables	Pakistan	111 222 425	0300-8453646
ii)	Fast Cables	Fast Cables	Pakistan	042-35742391	0320-8080046
iii)	Newage Cables	Newage Cables	Pakistan	042 111 777 300	0333-4748210
iv)	Golden Star Cables	Golden Star Cables	Pakistan		0321-4044297
10	<b><u>PVC CONDUIT &amp; ACCESSORIES</u></b>				
i)	PLASCO PIPE	PLASCO PIPE	Pakistan	053-3589621	0321 4113938
ii)	BETA PIPES	BETA PIPES	Pakistan	042-8880161	
11	<b><u>LIGHTING FIXTURES</u></b>				
i)	VLUX	Index Technologies	China	042-35857072	0300-8184203
ii)	Philips Pakistan.	Philips Pakistan	China	021-111786777	
iii)	Greenlights	Green LED	China		0334-4552505
iv)	Oppl Lights				0301-2440368
12	<b><u>FANS</u></b>				
i)	Lahore Fan	Lahore Fan	Pakistan	042-35113741	
ii)	Royal Fans	Royal Fans	Pakistan	042 - 35761308	
13	<b><u>TELEPHONE CABLES</u></b>				
i)	Ventilux	Index Technologies	UK	042-38939166	0300-8184203
ii)	ELAN Cabels	Index Technologies	USA		0300-8184203
iii)	Clipsal	Clipsal Pakistan	Australia		0322-2880041
14	<b><u>Data Cables (CAT-6 UTP)</u></b>				
i)	Ventilux	Index Technologies	UK		0300-8184203
ii)	ELAN Cabels	Index Technologies	EU		0300-8184203
15	<b><u>Co-Axial Cables (RG-6/7)</u></b>				
i)	Ventilux	Index Technologies	UK		0300-8184203
ii)	ELAN Cabels	Index Technologies	EU		0300-8184203
iii)	3M	ESP Solutions	USA		0333-4666986
16	<b><u>TELEPHONE, JUNCTION BOXES &amp; PATCH PANELS</u></b>				
i)	TESCO	Index Technology			0300-8184203
ii)	3M	ESP Solutions	USA		0333-4666986
17	<b><u>TELEPHONE OUTLETS</u></b>				
i)	CLIPSAL (Vivace Series - White)	Clipsal Pakistan	China	042-37221618	0322-2880041

ii)	Legrand	Shahid International	EU	042-37670980-1-4	0321-8472264
iii)	Orange Switches	Orange Electric			0322-4834937
18	<b><u>FIRE ALARM SYSTEM</u></b>				
i)	DETNOV	Index Technology	Spain		0300-8184203
ii)	ALCO (fire & security)	Index Technology	USA		0300-8184203
iii)	EATON	C-Xor Engineering	UK		0300 8477751
19	<b><u>CC TV SYSTEM</u></b>				
i)	SAMSUNG	Vital International	China	042-35290613	0306-6831111
ii)	ALCO	Index Technology	USA	042-35872817	0300-8184203
20	<b><u>PUBLIC ADDRESS SYSTEM</u></b>				
i)	TOA	Index Technology	Japan		0300-8184203
ii)	ITC	Index Technology	China		0300-8184203
21	<b><u>Cable Trunking / Ladders</u></b>				
i)	QUALITY SWITCHGEAR PVT LTD	Quality Switchgear	Pakistan	042- 111-786-774	0300-8404301
ii)	AL-Rehman Swgr	AL-Rehman Switchgear	Pakistan	-	0322-4466011
iii)	South Asian Electric	South Asian Electric	Pakistan	042-3-6530000	0322-8450362
22	<b><u>Bus Tie Duct / BTD</u></b>				
i)	Pogillano	Jubilee Corporation	EU	042-111-000-520	0300-8548550
ii)	Power Bar	GS Engineering	Ireland		0323-440522
v)	Power Plug	C-Xor Engineering	Malaysia		0300 8477751
23	<b><u>Early Streamer Emission Lightning Protection Systems:</u></b>				
i)	Application Tech	C-Xor Engineering	Spain		0300 8477751
ii)	D-Tech	Index Technology	Turkey		0300-8184203
iii)	LPI	Britlite Pakistan	Australia		0320-1214321
24	<b><u>MV Switchgear</u></b> <b><u>Ring Main Unit / LBS</u></b>				
i)	ABB	ABB	EU		0303-4443327
ii)	Siemens	Siemens	EU	042-37636408	
25	<b><u>Transformers (Dry Type)</u></b>				
i)	Trafo Elettro	C-Xor Engineering	EU		0300 8477751
ii)	TMS	Jubilee Corporation	EU	042-111-000-520	0300-8548550
26	<b><u>Oil Type</u></b>				
i)	Pak Electron Limited (PEL)	Pak Electron Limited (PEL)	Pakistan	042-35920153	
ii)	ELMETEC	ELMETEC	Pakistan	042-35457311	
iii)	Hammad Engineering	Hammad Engineering	Pakistan		0302-4712772
iv)	Transfo Power	Transfo Power	Pakistan	042-35784025	
27	<b><u>Generator</u></b>				
i)	Cummins	Innovative Engergy Sol KAN Engineering			0333-0525552
ii)	Scania	Services	EU		0301-8402312
iii)	Mitsubishi	Masco Energy	Japan		0300-7834336
iv)	Powerlink	Meccatech	UK		0300-0889690
27	<b><u>Generator Control Modules</u></b>				
i)	Sices	Hub Engineering	EU		0301-6020372

ii)	Deep Sea	Pyramid Automation	UK		0333-4561619
28	<b><u>Occupancy Sensor</u></b>				
i)	Ventilux	Index Technology	UK		0300-8184203
ii)	Clipsal/Schneider Electric	Clipsal Pakistan			0333-5386439
29	<b><u>Wifi Router</u></b>				
i)	Ruckus	Netsoft	Australia		0321-8480227
ii)	Huawei	CMC	China		0330-7470125
30	<b><u>GPON Primary Infrastructure</u></b>				
i)	Ruckus	Netsoft	Australia		0321-8480227
ii)	Huawei	CMC	China		0330-7470125
31	<b><u>Lifts/Escalator/Dump Waiters</u></b>				
i)	Fuji	Innovative Energy Sol.	Japan		0300-8504838
ii)	Sanyo	DWP Technologies	Japan		0302-8445225
iii)	OTIS	Royal Systems			0300-8548002
iv)	Euksali	Mesi Group	Turkey		0300-8446992
v)	Mitsubishi				
32	<b><u>PFI Relay</u></b>				
i)	Klemsan	E-Links	Turkey		0321 4404025
ii)	Nokian	Jubilee Corporation	Finland	042-111-000-520	0300-8548550
33	<b><u>Terminal Blocks</u></b>				
i)	Klemsan	E-Links	Turkey		0321 4404025
ii)	Onka	E-Links	Turkey		0321 4404025
34	<b><u>PFI Capacitors</u></b>				
i)	ZEZ	E-Links	Czech Republic		0321 4404025
ii)	Groupo Energia	E-Links	Italy		0321 4404025
iii)	Nokian	Jubilee Corporation	Finland	042-111-000-520	0300-8548550
iv)	Shizuki	Sheikh Waliyat & Sons	Thailand	021-3-2624011	0307-5553960
35	<b><u>Current Transformers</u></b>				
i)	Revalco	Jubilee Corporation	Italy / EU	042-111-000-520	0300-8548550
ii)	Hubit	E-Links	UK		0321 4404025
iii)	Effan	E-Links	Germany		0321 4404025
iv)	Metelex Pakistan	Metelex Pakistan	Pakistan		0302-4712772
36	<b><u>Access Control/Door Locks</u></b>				
i)	Salto	ESP Solutions	UK		0333-4666986
ii)	Ventilock				
37	<b><u>Inverter</u></b>				
i)	APC by Schneider	Innovative Energy Sol.	EU		0300-8504838
ii)	Emerson / Liebert	CMC	USA		0330-7470125
iii)	ABB	CXOR	China		0300-8431263
38	<b><u>Qmatic System</u></b>				
i)	Qnet	Matrix Sol.			0321-5022100

**INTERIOR RENOVATION OF SECP COMPANY REGISTRATION OFFICE**  
**AT 4TH FLOOR, STATE LIFE BUILDING NO 2,**  
**WALLACE ROAD, I.I. CHUNDRIGARH ROAD,**  
**KARACHI**  
**BILL OF QUANTITIES**  
**SUMMARY OF COST (HVAC WORKS)**

1.0 HVAC Works

Rs.

***Total Rs.***

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Signed & Stamped Of Contractor

**INTERIOR RENOVATION OF SECP COMPANY REGISTRATION OFFICE  
AT 4TH FLOOR, STATE LIFE BUILDING NO 2,  
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BILL OF QUANTITIES**

**HEATING, VENTILATION AND AIR CONDITIONING**

ITEM	SCOPE OF WORK	UNIT	QTY	Rate	TOTAL PRICE
1.0	<b>SINGLE SPLIT (INVERTER TYPE) AIR CONDITIONING SYSTEM</b>  Supply & Installation of reversable (Heat & Cool inverter type) Split Type Air Conditioning Units including the cost of indoor & outdoor units with necessary beackets, mounting arrangements as per the consultant advise. All AC's should have 110.076 flexiable 3 / 5 core control cable from indoor to outdoor, As Specified & Scheduled including unloading, Lifting, Placing and Fixing at metal / massonary foundations as shown on the drawings / as per the instruction of MEP consultant.				
	<b>Cassette Type Units</b>				
1.0.1	CCU-A (Net Cap: 1.5 Tons) (AC # 01)	No.	1		
1.0.2	CCU-B (Net Cap: 2.0 Tons) (AC # 02)	No.	1		
1.0.3	CCU-C (Net Cap: 3.0 Tons) (AC # 10 & 18) = 02 Nos	No.	2		
1.0.4	CCU-D (Net Cap: 4.0 Tons) (AC # 03, 05, 08, 09 & 19) = 05 Nos	No.	5		
	<b>Wall Mounted Units</b>				
1.0.3	WMU-A (Net Cap: 1.5 Tons) (From AC # 11 & 17)	No.	2		
1.0.4	WMU-B (Net Cap: 2.0 Tons) (From AC # 04, 06, 07, 12, 13, 14, 15, 16 & 20)	No.	9		
2.0	<b>Ventilation Fans</b>  Supply & installation of inline centrifugle ventilation fans as specified below complete with un-loading, lifting and placing at locations as shown on the drawings				
	<b>Exhaust Air Fans</b>				
2.0.1	EAF-01 (Airflow: 350 CFM & ESP of 0.3" W.C)	No.	1		
2.0.2	EAF-02 (Airflow: 280 CFM & ESP of 0.3" W.C)	No.	1		
2.0.3	PF-01 (Airflow: 100 CFM & ESP of 0.05" W.C)	No.	1		
2.0.4	Supply & Installation Decorative type Kitchen Hoods complete in all respect, all to the satisfaction / approval of the Client / Consultants.	No.	1		
3.0	<b>Duct Works</b>				
3.1	<b>Galvanized Steel Ducts</b>  Supply, Fabrication and Installation of G.I. ducting & Sheet Metal work complete with hangers, bracings, splitter dampers etc				
3.1.1	24 gauge	Sft	212		



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**HEATING, VENTILATION AND AIR CONDITIONING**

ITEM	SCOPE OF WORK	UNIT	QTY	Rate	TOTAL PRICE
3.2	Supply & installation of 18 gauge G.I. Sheet Back Draft dampers as specified	Sft	4		
3.3	Supply & Installation of pre-assembled flexible duct connectors factory fabricated with coated woven fabric and G.I. Collars both by means of double lock seam on each side as specified and scheduled	Rft	18		
4.0	Supply & Installation of Air Curtains as specified & scheduled including unloading, lifting, placing and fixing at location as shown on the drawings				
4.0.1	ACN-01	No	2		
	<b>Total Carried to Collection</b>				
5.0	<b>Air Devices</b> Supply and install ceiling type air outlets along with GI, insulated, plenum box, dampers, accessories and related flexible duct as per drawings& specs.				
5.0.1	Exhaust Air Diffuser (4-way) 6"X6"	No.s.	10		
5.0.2	Exhaust Air Louvers with Bird Screen	Sft	6		
5.0.3	Wire Mesh Stopper Sheet / Panel	Sft	6		
6.0	<b>REFRIGRANT PIPING SYSTEM</b> Supply and Installation of Gas & Liquid Copper Piping Complete with control wiring between Indoor Units & Outdoor Unit, clamps/hangers/supports and all other related material for installation purpose complete in all respect as specified.				
6.0.1	Ø 5/8"	Rft	1455		
6.0.2	Ø 1/2"	Rft	500		
6.0.3	Ø 3/8"	Rft	1400		
6.0.4	Ø 1/4"	Rft	615		
	<u><b>Note:</b></u> <u><b>The contractor would be bound to measure exact "Sizes &amp; Lengths" of Refrigerant pipes, Ducts, insulation &amp; wiring Etc; as recommended by the engineer's incharge or by the brands duly advised by the MEP consultant. The payment will be paid to the contractor on actual measurement duly verified by the RE + consultant.</b></u>				
6.1	<b>REFRIGRANT PIPING INSULATION</b> Supply and Installation of Elastomeric Closed Cell Foam insulation of density 65 Kg/m3 with factory applied fiberglass aluminum embossed jacketing and all other related material for installation purpose complete in all respect as specified.				
6.1.1	Ø 5/8"	Rft	1455		
6.1.2	Ø 1/2"	Rft	500		
6.1.3	Ø 3/8"	Rft	1400		
6.1.4	Ø 1/4"	Rft	615		
7.0	Supply, fabrication / laying and installation of U-PVC Class E piping duly wrapped with specified insulation fiber black tape & fittings, including hangers, anchor bolts, rubber vibration mounts etc.				
7.0.1	Dia 0.75 Inch	Rft	160		

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**HEATING, VENTILATION AND AIR CONDITIONING**

ITEM	SCOPE OF WORK	UNIT	QTY	Rate	TOTAL PRICE
7.0.2	Dia 1.0 Inch	Rft	720		
7.0.2	Dia 1.25 Inch	Rft	88		
	<b>Total Carried to Collection</b>				
7.1	Supply & installation of 1/4" thick polyethylene insulation (Jumbolon) covered with PVC taping for condensate drain piping				
7.1.1	Dia 0.75 Inch	Rft	160		
7.1.2	Dia 1.0 Inch	Rft	720		
7.1.2	Dia 1.25Inch	Rft	88		
8.1.1	Supply and wiring of Split AC/Ceiling Casette Units with 2x 6mm2 single core cables (P+N) from Distribution board breaker to the point and <u>2.5mm2 as CPC</u> in including the cost of PVC conduit recessed in COLUMNS/slabs (as advised by engineer incharge) with all necessary accessories and fittings complete in all respects. This item Includes the cost of flexible control cable 110/0.076 multi core (or as recommended by the manufacturer's manual) (For 1.5 Tons / 2.0 Ton Units)	Each	4		
8.1.2	Supply and wiring of Ceiling Casette Units with 4x 6mm2 single core cables (3P+N) from Distribution board breaker to the point and <u>2.5mm2 as CPC</u> in including the cost of PVC conduit recessed in COLUMNS/slabs (as advised by engineer incharge) with all necessary accessories and fittings complete in all respects. This item Includes the cost of flexible control cable 110/0.076 multi core (or as recommended by the manufacturer's manual) (For 3 Tons / 04 Ton Units)	Each	16		
9.0	<b><u>Powder Coated Ceiling Suspended / Horizontal Cable Tray in Corridor</u></b> Fabrication, supply at site and installation of perforated cable tray made of M.S. sheet 14 SWG 8 ft. to 10 ft. long with sides 3" high with cover of cable tray made of 18 SWG M.S sheet to be installed on wall, or in vertical, or above false ceiling in horizontal position or as shown on drawing, including cost of the following:-  -2 M.S threaded hanging rod 1/2" dia. Length 12" or as required as per site -M.S strip 2" wide x 1/4" thick. -Hilti rawal bolts as per required quantity & size. -2 coats of antirust paint. -2 coats of enamel paint (Oven hot) or powder coating of approved colour -Complete hanging system shall be installed at every 36". The above mentioned cable tray shall be complete in all respects including cost of all accessories / materials. Cable tray shall be of the following sizes a 4" X 3" Cable Tray 14 SWG & Cover 18 SWG b 9" X 3" Cable Tray 14 SWG & Cover 18 SWG c 12" X 3" Cable Tray 14 SWG & Cover 18 SWG				
		Rft	350		
		Rft	200		
		Rft	50		
8.0	Inspection, testing, Gas Charging, Commissioning and Air Balancing of Complete system	Job	1		
	<b>Total Carried to Collection</b>				
	<b>Carried to Summary</b>				

Sr #	Equipment/Material	Approved Manufacturer	Approved Country of Origin
1A	Air Conditioners	Haier, Gree, Midea, Clint, Daikin, LG, Index	China, EU, Korea
1	Ventilation Fans	Casal, Sisteven, Vent, System Air	Spain, Turkey
2	Air Curtains	Acson, Fast, Theodore	Malaysia, China
3	Galvanized Iron Sheet	AISL, Pakistan Steel or Imported	Pakistan, China
4	Duct Flexible Connection	Dura Dyne, Duct Mate, AFS	USA
5	Round Flexible Duct	Atco, AFS	USA
6	Air Devices, Dampers, Filters	Steel Craft, Pak Premier, EAP, Shan	Pakistan
7	Refrigerant Copper Piping & Fittings	Golden Dragon, SAMPO, KHC	Korea, China
8	PVC Condensate Pipe & Fittings (Class-D)	Dadax, Beta, Plasco	Pakistan
9	Closed Cell Type Copper Pipe Insulation	Armacell, Aeroflex, Durkee	China
10	Closed Cell Foam Type Duct Insulation and	Armacell, Aeroflex, Durkee	China
13	Power Cables	Pakistan Cables, Newage, Fast Cables, Golden Star, Coppergat	Pakistan
14	Supports & Anchors	Fabricated as per approved sample	-----
15	Gaskets	Imported Make	-----
16	Concrete Fasteners	Rawl Plug Co, Fischer, Hilti	West Europe
17	Vapour Barrier Coating	Foster, Zahabiya	USA, Pakistan.
18	Duct Sealant	Ductmate	-----
19	White Glue	Hoechst	Pakistan
20	Steel Members	Mughal Steel or Equal	Pakistan
21	Paints	ICI, Berger.	Pakistan
22	Any item not listed above	Subject to approval of the Project Director/Consultants	-----

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**BILL OF QUANTITIES**

**PLUMBING WORKS**

Sr. No.	Description	Unit	Qty.	Unit Rate (PKR)	Total Amount (PKR)
<b>1</b>	<b>SUPPLY &amp; INSTALLATION OF PLUMBING SYSTEM</b>				
<b>A</b>	<b>Sanitary Fixtures:</b>				
1.1	Supply and install Ceramic Lavatories (Wash Basin) <b>Semi Pedestal Type</b> , 1.9LPM maximum Flow rate with Manual Faucets including Flexible pipes, valves, Under Vanity Brass P-Traps & all other required fittings & Accessories to complete the work, as per the Drawings, Specifications and Standards.	No.	6		
1.2	Supply and Install White Vitreous China "Wall Mounted" type Water Closet (European Type W.C. Pan) with Normal Seat Cover, Concealed Cistern with Frame, Single Flow Push Button & Rectangular Single Flush Button Plate (ABS Chrome Plated) with Control Cock & Elbow set & Muslim shower with flexible hose complete with adjustable Sleeve and Wall Flange; with all fittings and fixtures complete including cutting and making good the walls and floors wherever required. as per the Drawings, Specifications and Standards.	No.	6		
1.3	Providing and fixing Floor Drain with Multifloor-Trap, jointing with solvent cement followed by application of leak proof adhesive like FRP paste complete including cutting and making good the walls and floors.	No.	9		
1.4	Supply, Install, testing and commissioning of PVC Cleanout (with a spigot and cleanout connection) with a Maximum Working Pressure of 5 psi to complete the work, as per the Drawings, Specifications and Standards.	No.	4		
1.5	Providing, Installing, fixing, testing and commissioning of Grease Trap of Holding capacity 8 gallons (size= 8"X10"X10") including all accessories & fittings required for its operation as per drawings, specifications & standards.	No.	1		

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**PLUMBING WORKS**

Sr. No.	Description	Unit	Qty.	Unit Rate (PKR)	Total Amount (PKR)
1.5b	Providing, Installing, fixing, testing and commissioning of Bone Crusher with installed magnetic motor, anti-jam SS Impeller, SS grinding components & corrosion proof sound insulated grinding chamber & power cord attached complete as per drawings. (2000ml)	No.	1		
1.6	Providing, Installing, fixing, testing and commissioning of ABS body refillable Wall Mounted Manual Liquid Soap Dispenser for all wash basins as per the Drawings, Specifications and Standards.	No.	6		
1.7	Supply and fixing of Mirror, any shape and pattern, 5 mm thick, Imported , edges polished, fixed with S.S fitting complete, fixed to concrete, block, stone or wood work all as per drawing and specification complete in all respect, as directed by the Engineer-in-charge	Sft	72		
1.8	Providing, Installing, fixing, testing and commissioning of C.P. brass twin robe hooks as per the Drawings, Specifications and Standards.	No.	6		
<b>B</b>	<b>Non-Potable Water Supply Piping (Hot and Cold):</b>				
	Supply and install Non-Potable Water Supply Above/Below Grade PPR DIN 8077, Type SDR 6, PN 20 pipes with Fittings and Joints or Mechanical Coupling Complete with supports, hangers, Valves and all type of accessories like Water hammer arrestor , other specials like civil works related thereto required for complete the work, as per the Drawings, specifications and Standards.				
1.9	Ø25 MM	ft	147		
1.10	Ø32 MM	ft	42		
1.11	Ø40 MM	ft	13		
1.12	Ø50 MM	ft	16		
<b>C</b>	<b>Hot Water Supply System:</b>				

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**PLUMBING WORKS**

Sr. No.	Description	Unit	Qty.	Unit Rate (PKR)	Total Amount (PKR)
	Supply & Installation of Gas/Electric storage hot water heater complete with all check valves & fittings as per the drawings and specifications.				
1.13	IWG-I DUTY (MAXIMUM FLOW DEMAND: 5.5 GPM; MAXIMUM POWER OUTPUT: 36.4 kW; MAX ΔT=25 DEGREE C)	No.	1		
1.14	IWG-II-B DUTY (MAXIMUM FLOW DEMAND: 8.8 GPM; MAXIMUM POWER OUTPUT: 58.2 kW; MAX ΔT=25 DEGREE C)	No.	1		
<b>D</b>	<b>Ball Valves</b>				
	Supply and Installation of Ball Valves, Lever Operated, Full Port Flooating Ball, Stainless Steel body, flanged ends & complete with all fittings.				
1.15	Ø25 MM	No.	4		
1.16	Ø32 MM	No.	1		
1.17	Ø40 MM	No.	1		
1.18	Ø50 MM	No.	1		
<b>E</b>	<b>Sanitary Drainage &amp; Storm Piping</b>				
	Supply and install Above Grade Sanitary Drainage, Vent & Stormwater pipe work of UPVC Pipe BS EN 1329 including fittings & supports, as per the Drawings, Specifications and Standards.				
1.19	Ø2 INCH	ft	113		
1.20	Ø4 INCH	ft	194		
<b>TOTALS (EXCLUDING GST)</b>					

<b>Sr #</b>	<b>Equipment/Material</b>	<b>Approved Manufacturer</b>	<b>Approved Country of Origin</b>
1	Sanitary Fixtures	KALE, Porta, Grohe, Approved Equal	Turkey, China
2	Electric Water Heater	Ariston, IME, Approved Equal	Pakistan, China
3	Potable Water Pipes	Dadex, BETA, Plasco, Approved Equal	Pakistan, China
4	Drainage Pipes	Dadex, BETA, Plasco, Vesbo, Approved Equal	Pakistan, China
5	Hot Water Pipe Insulation	mco, Knauf, Thermobreak, Approved Equal	Kuwait, UAE
6	Valves	Tozzen, Scon, Approved Equal	Pakistan, China
7	Grease Trap	Alpine Steel, Pakeeza, Approved Equal	Pakistan
8	Bone Crusher	Bone Crusher, Approved Equal	China
9	Any item not listed above	Subject to approval of the Project Director/Consultants	

# **BILL OF QUANTITIES**

## **VOLUME II**

### **FOR**

**INTERIOR RENOVATION OF SECP  
COMPANY REGISTRATION OFFICE AT  
4TH FLOOR, STATE LIFE BUILDING NO 2,  
WALLACE ROAD, I.I. CHUNDRIGARH  
ROAD, KARACHI**

Issued To : \_\_\_\_\_

Issued On : \_\_\_\_\_

Sign of Issuing Officer : \_\_\_\_\_



**SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN**

**Sohail A Khan Associates**

**Architecture and Designing**

159, Street no 4, Race Course Rd, Rawalpindi

Tel: 051-5174329, 051-5174098, Fax: 051-5125075

E mail: mail@saka.net.pk, Web: www.saka.net.pk



### **List of Approved Civil Manufacturer / Supplier**

<b>Item / Work</b>	<b>Manufacturer</b>	<b>Suppliers / Representatives</b>
Termite	Chemical FMC Bi Flex approved by RE	<b><u>CHEMICAL FMC BI FLEX</u></b>
Reinforcement Steel	Etihad Steel Industries, approved by RE	-
Gypsum board Ceiling	Elephant or equivalent approved by RE	
Aluminum	Alcop, Chawla Aluminum, Prime Aluminum, Gulf Extrusion approved by RE	<b><u>CHAWLA ALUMINUM,</u></b> Unnamed Road,, Korangi, Karachi, Karachi City, Sindh Phone: (021) 35141273  <b><u>PRIME ALUMINUM</u></b> Jail Rd, Hyderabad Colony Karachi, Karachi City, Sindh <b><u>Phone:</u></b> (021) 34126768
Block	Envicrete Limited approved by RE	<b><u>Envicrete Limited</u></b> CL 6/5, Abdullah Haroon Road, (Opp. Hotel Marriott), Karachi – 75530. UAN: 111-456-567 Tel: 021-3521-0015-18, 021-3867 9031-6, 021-3879 8571-6 Fax: 021-3521-3044
Cement	DG Cement & Bestway Cement, or equivalent approved by RE	
Sand	SUPER HIGH WAY sand approved by RE	
Crushed Stone Aggregate	HUB BALOCISTAN approved by RE	
Fair Face Block / Cladding Work,	Envicrete Limited approved by RE	<b><u>Envicrete Limited</u></b> CL 6/5, Abdullah Haroon Road, (Opp. Hotel Marriott), Karachi – 75530. UAN: 111-456-567 Tel: 021-3521-0015-18, 021-3867 9031-6, 021-3879 8571-6 Fax: 021-3521-3044
Fire Rated Doors(minimum one hour fire resistance )	HORMANN approved by RE	<b><u>INTEG ENGINEERING &amp; TRADERS</u></b> A-1 Street 4, Sulman Sheikh Centre, Block 6, gulshn-e-iqbal, Karachi <b><u>Tel:</u></b> 021-34978916

		021-34979828 021-34989399 Fax: 021-34977211
Water Proofing chemicals	Sika, or Equivalent , as approved by RE	<b><u>SIKA PAKISTAN</u></b> Mezzanine Floor Plot # 20, Sector 16 Korangi Industrial Area Karachi Office <b>Phone: +92 21 3505 2323</b>
Paint / Polish	ICI, Nippon, Jotun approved by RE	
Deco Paint		
Tiles	White Horse Ceramics by PPL, Benitoz, RAK approved by RE	<b><u>PRISM PREMIUM LOSUNGEN</u></b> GT Road near DHA ii, Rawalpindi Mob: 0300-8569646  <b><u>BENITOZ</u></b> DD/91, opp, PSO pump ojri camp Murree Road Rawalpindi Cell: 051-4575956  <b><u>RAK CREMIC</u></b> Plot no 19, sanitary 1-11/3 Islamabad, Metro Cash & Carry Cell: 0321-9460056
Tile Grout	Quartz Lock Grout approved by RE	(Mr. Shahzeb) GT Road near DHA ii, Rawalpindi Mob: 0300-8569646
Glass Non specifics use	Guardian or equivalent approved by RE	
Glass Processing	<b>(PAKISTAN CABLES)</b> Pakistan Safety Glass, Gunj Glass, Al Fateh or equivalent approved by RE	
Frosting Sheet	3M or equivalent approved by RE	
Roller Blind	Selection Interior or equivalent approved by RE	Selection Interior( Aslam) Phone :051) 2803231
Anti-shatter film	3M or equivalent	

	approved by RE	
Carpet	Interflor, & Pak Carpet or equivalent approved by RE	<p><b><u>INTERFLOR</u></b> Basement Hamayun Arcade, street # 5 Muhammadi Town Sohan, Islamabad- Tel- 051- 2612231 Cell: 0300-5077551</p> <p><b><u>Pak Carpet</u></b> Suite # 702, 7th Floor, Liberty Gates Plaza, M. M. Alam Road, Gulberg III Lahore. Tell : 042-35771428 flooring@pcigroup.com.pk</p>
Sports Vinyl Floor & Pvc Floor	Interflor, & Pak Carpet or equivalent approved by RE	<p><b><u>INTERFLOR</u></b> Basement Hamayun Arcade, street # 5 Muhammadi Town Sohan, Islamabad- Tel- 051- 2612231 Cell: 0300-5077551</p> <p><b><u>PAK CARPET</u></b> Suite # 702, 7th Floor, Liberty Gates Plaza, M. M. Alam Road, Gulberg III Lahore. Tell : 042-35771428 flooring@pcigroup.com.pk</p>
Ply Wood	AL Noor or equivalent approved by RE	
PVC Sheet	Chawla PVC Board or equivalent approved by RE	<p><b><u>CHAWLA ALUMINUM,</u></b> Unnamed Road,, Korangi, Karachi, Karachi City, Sindh Phone: (021) 35141273</p>
Melamine sheet	Imported approved by RE	<p><b><u>NAEEM TRADERS</u></b> Head Office 22 Cooper Road, Lahore</p>
Cement Board	SHERA or equivalent approved by RE	<p><b><u>Fiber Cement Board</u></b> 86c 11th Commercial St, D.H.A Phase II Extension Phase 2 Commercial Area Defence Housing Authority, Karachi, Karachi City, Sindh Phone: 0346 2688346</p>
Corian	LG (Imported ) or equivalent approved by RE	<p><b><u>SHAZE</u></b> Roshan center, Jinnah Avenue Blue Area, Islamabad, Pakistan Mobile # 0300-5557300</p> <p><b><u>NAEEM TRADERS</u></b> Head Office 22 Cooper Road, Lahore</p>
Archi + Concrete Acrylic Base	Nova color approved by RE	<p><b><u>NOVA COLOR</u></b> 1<sup>st</sup> floor Building # 98, DD Phase 4 Commercial Area, Lahore, Pakistan</p>

		Hafiz Cell: 0321-2000091
Granite		
Marble		
Signage	Australian make or equivalent approved by RE	<b><u>SIGNSCAPE</u></b> 205, Korang Road, I-10/3 Industrial Area, Islamabad – 44000, Pakistan. Tel: 051-2803098-9 Cell: 0345-5566402 <a href="http://www.signscape.pk">www.signscape.pk</a>
<b>FURNITURE</b>	Interwood Mobel (pvt) ltd, Office First & HB Furniture or equivalent approved by Architect	<b><u>INTERWOOD MOBEL (PVT) LTD,</u></b> Police Station, Plot # 390, Street No. 16, Potohar Rd, near I- 9/3, Islamabad, Islamabad <b><u>Phone:</u></b> (051) 4859103  <b><u>OFFICE FIRST</u></b> Unit 7&8, Umer building, 76 west, Main Jinnah Avenue, Blue Area, G 7/3 Blue Area, Islamabad <b><u>Phone:</u></b> (051) 2344460