

BILL OF QUANTITIES

VOLUME II

FOR

INTERIOR RENOVATION OF SECP CRO, 3RD & 4TH FLOOR, ASSOCIATED HOUSE, EGERTON ROAD, LAHORE

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: 051-5512245, 051-5511587, Fax: 051-5125075
E mail: mail@saka.net.pk, Web: www.saka.net.pk

**INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE**

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MAIN SUMMARY OF COST

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

6	OWNER'S SUPPLY ITEMS COST (ELECTRICAL WORK)	
GRAND TOTAL		

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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.)
Note:- 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.					
3rd & 4th Floor					
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.				
m.	Dismantling of existing planters any type as directed by the Engineer-in-charge.				
2	BRICK MASONRY WORK :- Providing and laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (OPC) Cement mortar (1:4) in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.	Cft	1320		
3	FAIR FACE BLOCK MASONRY:- Providing and laying of approved 4" Thick both side Fair Face Block solid wall Compressive strength 1500psi 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, 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	318		

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4	FAIR FACE CLADDING WALL 3" THICK(Lift Wall): Providing and laying approved 1.1/2" Thick Fair Face Block where required, Compressive strength 1500psi 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, 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	340		
5	RCC LINTEL :- 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	254		
6	REINFORCEMENT:- 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	86		
7	NEW PLASTER:- 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	5570		
8	REPAIR WORK PLASTER:- Providing and laying 1/2" thick 1:3 cement sand plaster on chipping, trenching for electrical wiring and conduits 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	1800		

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9	PCC (1:2:4):- 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	187		
10	GYPSUM BOARD DRY WALL (3" Thick) :- 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	2808		
11	WOODEN PARTITION (3" Thick) :- 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	399		
12	CEMENT BOARD DRY WALL (3" Thick) :- 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	177		

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13	CEMENT BOARD BOX:- 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	126		
14	WOODEN PLY BOX :- Providing & fixing of Ash ply box, 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	351		
15	GYPSUM BOARD BOX :- 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	162		
16	WOODEN PLY PANELING ON WALL :- Providing & fixing of Ash ply box, 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	451		
17	LOW HEIGHT PARTITION:- 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 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	829		
18	WOODEN PANELING :- Providing & fixing of wooden paneling, made of 3/4" thick imported ash ply with wood frame 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	91		

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19	GRANITE CLADDING ON COLUMN:- 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. MARKET BASE RATE 1000/SFT Excl GST	Sft	1239		
20	MARBLE / TILE CLADDING ON WALL:- Providing and fixing neatly cut to specified sizes and geometry pre-polished ¾" thick marble / tilecladding 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. MARKET BASE RATE MARBLE / TILE 375/SFT Excl GST	Sft	149		
21	GYPSUM BOARD FALSE CEILING:- Providing and fixing of Gypsum Board false ceiling, at least 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) complete in all respects.	Sft	1633		
22	PLY WOOD CEILING:- Providing and fixing ply wood ceiling made of 2"x2" acacia wood frame, with 19mm thick 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.	Sft	1125		

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23	PORCELAIN TILE FLOOR:- 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. Market Tile Base Rate Rs. 3500/- Sqm Excl GST	Sft	11645		
24	PORCELAIN TILE FLOOR & WALL (TOILETS) :- Providing & laying laser cut imported Porcelain tiles 12" x 24" 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. Tile Base Rate Rs. 2600/- Sqm Excl GST	Sft	2203		
25	BASE FLOOR PLASTER :- 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. (excluding back filling and pcc)	Sft	1416		
26	CAPET TILE FLOORING (CONFERENCE ROOM & CHAIRMAN ROOM):- 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. Market Base rate Rs.360/Sft Excl GST	Sft	959		
27	CARPET FLOORING IN PRAYER AREA:- Provide and Supply Carpet dinarsu/Edge make low pile nylon based for Prayer Area PA 6.6 with underlay complete in all respects with 5 years warranty. Market Base rate Rs. 280/Sft Excl GST	Sft	238		

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28	SPORTS VINYL FLOOR (Day Care Center): - Supply & Fixing sports vinyl flooring in the P1 category (complies with in Standard 14904) 25 to 35% of shock absorption Triple strength, two fiberglass grids and one veil for an outstanding indentation resistance excellent resistance to heavy loads (static and rolling) Abrasion resistance three times greater than that required by the Standard ,cleaning of surface & using suitable adhesive to give smooth & even floor complete in all respect as per drawings and as per manufacture specification as approved by the Architect or as directed by the Engineer-in-Charge.	Sft	218		
29	12MM IMPORTED GLASS PARTITION :- Providing and fixing of 12mm thick imported Guardian make glass partition with frosted sheet of approved design, 1-1/2" aluminum concealed ' U' channel, complete in all respect as per drawings and as approved by the Architect or as directed by the Engineer-in-Charge.	Sft	1380		
30	WOOD FRAME FOR GLASS DOOR :- Providing and fixing of 1-1/2" x 5" 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	361		
31	WOODEN DROP BOX FOR GLASS PARTITION:- 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	553		
32	GLASS DOORS :- 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	545		

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33	SLIDING GLASS DOORS :- 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	58		
34	MELAMINE DOOR (TOILETS):- 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	276		
35	FIRE RATED DOOR (SERVER & ELECTRICAL ROOM) :- 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	51		
36	WINDOW MARBLE SILL:- 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.. MARKET BASE RATE 450/SFT Excl GST	Sft	190		

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37	PRE-POLISHED MARBLE TOP AND WALL:- 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. Granite Base Rate 450/Sft Excl GST	Sft	43		
38	BASE CABINETS (KITCHEN):- 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	31		
39	OVER HEAD CABINETS:- 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	28		
40	FULL HEIGHT FILLING CABINETS:- Provide and install 15" deep cabinets made up of ¾" thick imported MDF lamination sheet used for box and shutter of approved color, including 3/4" thick ash ply with wood edge lipping on exposed sides wooden pelmet, 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	1392		
41	LOW HEIGHT FILLING CABINETS WITH MS FRAME:- Provide and install 15" deep cabinets made up of ¾" thick imported MDF lamination sheet used for box and shutter of approved color, with 1.1/2"x 3" x 16 gauge MS pipe with 2mm MS plate with deco finish, fixed rawl bolt in floor, including 3/4" 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	50		

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42	PRINTING AREA CABINETS:- Provide and install 24" deep and 30" high base cabinets made up of ¾" thick MDF lamination used for box and shutter approved color with pvc edge lipping, imported Kitchen Concealed hinges, magnetic catchers, locks, SS handles, including 3/4" thick marble top fixed with marble jelly complete with all hardware used as per drawing ,complete in all respect.	Sft	127		
43	DAY CARE CABINETS:- Provide and install 15" deep cabinets made up of ¾" thick imported MDF lamination sheet used for box and shelves with pvc edge lipping of approved color, complete with hardware, complete with all hardware used as per drawing ,complete in all respect.	Sft	120		
44	PVC JANITORIAL CABINETS:- Provide and install 24" deep and 8 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	52		
45	EMULSION PAINT : 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	11288		
46	PAINT ON EXISTING CEILING: Providing and Painting of any surface 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	16299		

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47	IMPORTED ARCHI + CONCRETE WALL COATING: 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. Market Base rate 550/sft	Sft	654		
48	PVC SKIRTING:- Provide and fixing Pvc wooden texture skirting matching with floor color & grain, 3/4" thick and 4" height with all hardware used complete in all respect. MARKET BASE RATE 200 / Rft Excl Gst	Rft	2755		
49	ROLLER BLIND:- 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. (Market Base rate Rs.240 Per sft) Excl GST	Sft	2376		
50	MIRROR:- 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	77		
51	ANTI SHATTER FILM:- Providing and install 150 micron anti shutter film on external glass, as per drawing as per manifesting specifications as approved by the Architect or as directed by the Engineer-in-charge..	Sft	0		

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52	TEA BAR COUNTER:- Providing and install 18" deep and 30" high made up of ¾" thick imported MDF lamination sheet with ¾" thick marble top finish fixed on MS bracket, as per drawings and as approved by the Architect or as directed by the Engineer-in-Charge. Marble Market Base rate 450/ sft	Sft	23		
53	ALUMINUM DOORS (DUCT):- 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	150		
54	WINDOWS GRILL:- Provide & install Windows Grill, 1/2" dia MS pipe with ¾"x3/4"x 16 gauge MS pipe outer frame structure welded together, fixed on inner side of existing windows, including, enamel paint finish with three coats over a red oxide coat along with required coats of steel Putty Filling and preparation surface complete at any height at any floor, finished smooth as desired by Engineer-Incharge.	Sft	979		
55	FACILITATION COUNTERS:- Providing and Fixing Facilitation Counters, 3.1/2" thick top two levels with 24" & 6" vide, made up of ¾" thick lamination board cladding with 12mm thick Corian fixed on top & front panel and ¾" thick ply fixed on front panel, including polish finish approved manufacture 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. (Size 10'-6" x 24" x 2'-6" & 3'-6")	job	1		
56	PAINTING:- Supplying and installation oil painting of different size with wood frame as per drawing or as directed by architect. complete with all accessories.	NO	6		




**INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE**

BILL OF QUANTITIES





INTERIOR WORKS

Sr. No	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
Note:- 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	SIGNAGE:- Providing and install Aluminium 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.				
57.1	6"x 12" Classic Signage	No	18		
57.2	6"x 30" Classic Signage	No	10		
57.3	8"x 6" Classic Signage	No	12		
57.4	6"x 6" Classic Signage	No	10		
58	MAIN LOGO:- 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	1		
59	3D LETTERING:- 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.				
59.1	BUSNISS CENTER	job	1		
59.2	INSPECTION	job	1		
59.3	INCORPORATION	job	1		
60	DECO PAINT ON EXISTING CABINETS:- Providing and applying of deco paint on existing filing cabinet. The work include scraping entire surfaces; filling cracks with paint manufacturer's approved material. Prepare the surface using manufacturer's recommended primer. along with required coats of steel Putty Filling and preparation of surface complete at any height at any floor, finished smooth as desired by Engineer-Incharge.	Sft	720		
61	MARBLE THERSHOLD:- Providing and fixing of 3/4" thick factory grinded and polished Grade A, thershold 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.. MARKET BASE RATE 450/SFT Excl GST	Sft	125		
62	SOLID WOOD POST :- Providing and fixing of 1-1/2" x 3" Ash wood post with 2mm MS plate, fixed with rawl bolt in floor and ceilling as per drawings, including polish with all suface preparation, complete in all respect. as approved by the Architect or as directed by the Engineer-in-charge	Rft	185		
Total Amount					




INTERIOR RENOVATION OF SECP CRO,
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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
3rd FLOOR FURNITURE								
INCHARGE ROOM FURNITURE								
1	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"x 2'-6")		NO	1		
2	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	Exective 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, (Interwood or Equivalent).			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		


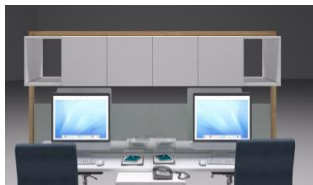

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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
8	Coat Hanger	Providing and supplying coat hanger made up of ash wood frame, hanger and legs in teak finish semi glazed. as per manufactures specification or as directed by architect, as shown in picture (interwood or Equivalent)			NO	1		
3rd FLOOR WORKING ZONE FURNITURE								
8	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 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	29		
9	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	29		




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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
10	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.		 <p>Austin WG Chair CH WG 06</p>	No	58		
11	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	29		




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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
WORK STATION								
12	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 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	21		
13	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	21		
14	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.		 Director-J		21		




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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
PS WORK STATION								
15	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 with all cable management system, complete all hardware used and Quality as per manufactures specification or as directed by site incharge.	4'-0"X 2'-0"X 2'-6" Side Rack 2'-6"x 1'-3"x2'-6"		No	2		
16	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	2		
17	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.		 Director-J	No	2		




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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
18	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.		 <p>Austin WG Chair CH WG 06</p>	No	1		
19	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" maarle clad wood box for CPU and other accessories complete as picture and manufacturer's specifications.			No	15		
20	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
21	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	10		
22	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		
MEETING ROOM-01 FURNITURE								
23	TABLE	Providing & supplying meeting table 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 all cable management system complete as per manufactures specification or as directed by architect, As Shown in picture.	(5'-0"X 2'-3"X 2'-6")		No	1		




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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
24	CHAIR	Providing & supplying chair with S.S legs and frame and PU seat and back, finish as per approved color and sample as shown in picture or equivalent as per manufacturer's specification, or as directed by architect,			No	4		
FACILITATION COUNTER								
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.		 Director-J	No	2		
CONFERENCE ROOM FURNITURE								
26	MEETING TABLE 17 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	(19'-0"X 4'-6"X 2'-6")		No	1		





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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
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	31		
RECEPTION AREA FURNITURE								
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 manufacture 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: 6'-0"xW: 2'-0" x H: 2'-6",3'-0" & 3'-6"		No	1		
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		




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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
30	SOFA CHAIR	Providing and supplying Sofa with Oak wood frame and legs in teak polish finish. 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	3		
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	1		
KITCHEN AREA FURNITURE								
32	BAR STOOL	Providing & supplying Bar stool made up of Seat PU frame with hydraulic action with 15" dia S.S Base plate and foot rest, Imported Hardware complete in all respect as per Picture as per manufacturer's specification, or as directed by architect,			No	6		

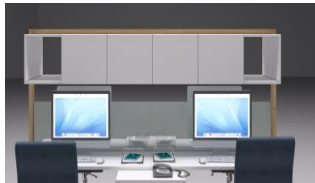



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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
33	VISITOR CHAIR	Providing & supplying chair with Oak wood legs and frame, seat and back cushion of 1st quality molty foam, covered with fabric finish as per approved color and sample as shown picture design or equivalent as per manufacturer's specification, or as directed by architect,			No	2		
34	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	1		
4TH FLOOR Work Zone								
35	MANAGER 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 having 03 drawer & shelves with all cable management system complete as per manufactures specification or as directed by architect, As Shown in picture.	(5'-6"X 2'-6"X 2'-6") Side Rack : (5'-6"X 1'-6"X 2'-6")		No	10		
36	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	10		


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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
37	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.		 <p>Austin WG Chair CH WG 06</p>	No	20		
38	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"		No	10		
WORK STATION								
39	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 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	6		




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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
40	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	6		
41	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.		 Director-J	No	6		
MEETING ROOM								
42	MEETING ROOM 8 PERSON	Providing & supplying Meeting Table Top to be made of 50 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 approved color, Imported Hardware with brass screws, with all cable management system with top Grommettes complete as per manufactures specification or as directed by architect, As Shown in picture.	7'-6"X 4'-0" & 3'-8" "X 2'-6"		No	1		
43	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.		 Director-J	No	8		





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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
DOCTOR'S ROOM								
44	WORKSTATION WITH SIDE RACK	Providing and supplying Table top made up of imported melamine laminated 25mm thick top with 2mm thick pvc edge lipping with Ms powder coated frame complete all hardware used and Quality as per manufactures specification or as directed by site incharge.	(7'-3"X 1'-3"X 2'-6")		No	1		
45	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	1		
46	MEDICAL BED PATIENT	Providing and supplying Medical bed patient made of heavy duty Ms powder coated frame and leg with protective and top made of High-density stretchy sponge and Artificial Leather, 2pcs gas spring adjustable head board ,1pc imported hydraulic pump control hi-low height, head adjustable 87-35 degree, Weight capacity: 230 Kg Quality, as per manufactures specification or as directed by site incharge.	6'-0"x2'-6"x 2'-6"		No	1		



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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
47	MEDICAL STAINLESS STEEL TROLLEY	Providing and supplying Medical stainless steel trolley made of Stainless steel structure, with rail at top, One drawer, 4 castors, Smooth handmade welding, durable & load bearing caster wheels and as shown in picture as per approved color and sample,			No	1		
48	MEDICAL STOOL	Providing and supplying medical stool made of Stainless steel structure, Economical, fashionable and comfortable, load capacity 200kg, durable & load bearing caster wheels and as shown in picture as per approved color and sample,	Seat size: 16" diameter Seat height: 23" to 25"		No	1		
49	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		

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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
DAY CARE CENTER								
50	BABY COTS	Providing & supplying wooden cots with 3" thick master molty foam, as shown in picture, as per manufacturer's specification, or as directed by architect, complete in all respect	48" x 26" x 36" (L X W X H)		No	2		
51	EASY CHAIR	Providing & supplying easy chair with ottoman, Oak wood frame and legs in teak polish finish, fixed with 1st quality molty foam and covered Leatherette of Approved color and shade. wood size, design and hardware as per manufacturer's specifications as shown in picture or equivalent, or as directed by architect.			No	1		
52	FLOOR PUZZLE FOAM MATT	Providing and supplying 20 XL Puzzle foam matt floor for play area toy, approved color, infant baby kids approved by the consultant, complete in all respect	Tile size 60x60x 1cm		Sft	36		
53	CENTER TABLE WITH CHAIR FOR KIDS	Providing and supplying center table with chair made up of imported PVC and powder coated Ms frame, approved color complete as per manufactures specification, as Shown in picture	Table Size (15"X 24"&18") HEIGHT		Set	4		

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FURNITURE WORKS								
Sr #	Description	Specifications	Dimensions	Shape	Unit	Qty	Rate	Amount
PRAYER AREA								
54	QURAN CABINET	Providing and book shelves made up of 3/4" imported MDF sheet used for box and sheleves with deco paint finish, approved color, complete as per manufactures specification, As Shown in picture	4'-0"X 1'-3*X 30"		No	1		
55	SHOE RACK	Providing & making shoe rack painted made up of 3/4" thick MS pipe with approved color, complete all hardware used and Quality as per manufactures specification or as directed by site incharge,	4'-0"x12"x3'-0"		No	1		
56	CHAIR	Providing & supplying chair with S.S legs and frame and PU seat and back, finish as per approved color and sample as shown in picture or equivalent as per manufacturer's specification, or as directed by architect,			No	2		
TOTAL AMOUNT								

INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE

MEP WORKS BILL OF QUANTITIES

INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES

MEP SUMMARY OF COST
SECP LAHORE OFFICE

Electrical Works

1.0 Vol-1 Electrical Works

Rs.

Total Rs.

HVAC Works

1.0 Vol-1 HVAC Works

Rs.

Total Rs.

Plumbing Works

1.0 Vol-1 Plumbing

Rs.

Total Rs.

Owner's Supply Items Cost

1.0 Owner's Items

Rs.

Total Rs.

Signed & Stamped Of Contractor

**INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES**

SUMMARY OF COST (Electrical Works)

Vol-1

0.1	INVERTER (INSTALLATION)	Rs.
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	Rs.
7.0	CC TV SYSTEM	Rs.
8.0	EARTHING SYSTEM	Rs.
9.0	ACCESS CONTROL SYSTEM (ONLINE)	Rs.
10.0	WI-FI NETWORKING SYSTEM	Rs.
11.0	MISCELLANEOUS ITEMS	Rs.

		Total Rs. _____

Signed & Stamped Of Contractor

**INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES**

ELECTRICAL & ALLIED WORKS**Vol-1**

S. No.	Description	Qty	Unit	Rate	Amount
0.1	<u>INVERTER (INSTALLATION)</u>				
a	Installation at designated location, connection of cables, and commissioning of owner's supplied Inverter (UPS) with Dry Batteries Bank of following size: UPS "20 KVA", (3-Phase-In; 3-Phase Out 415V) with 15 minutes back-up time with battery module cabinet.	1	Set		
1.0	<u>LT SWITCHGEARS</u>				
1.01	<u>Main Panel Board (MPB-3F)</u> 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. 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 bus bars of 99.8% purity electrolytic copper with tin plating, including cost of cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments and control all accessories complete in all respects. 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. 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. Also note that For Control Purpose 2Amps SP MCBs should be used & RS-485 Terminals should be provided for remote monitoring through EAs. <u>Incoming From Existing Source</u>				

1.02	<p>01-250 Amps 3 pole Moulded Case Circuit Breaker (MCCB) having rupturing capacity =>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> <p>03-Air cooled ring type current transformers ratio 250/5 Amps having suitable output and accuracy.</p> <p>3-Phase indication lamps of colour Red, Yellow, Blue.</p> <p>1-Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.</p> <p>03-Digital type Voltmeter square shaped scaled 0-500 V.</p> <p>03-Digital type Ammeter square shaped scaled 0-250 Amps of appropriate size suitable for operation with CTs.</p> <p>1-Energy analyzer make Smart controller type X - 485.</p> <p>2-Breaker ON-OFF indication lamp.</p> <p>1-Under Voltage Trip (UVT).</p> <p>1-Shunt Trip (ST).</p> <p><u>Outgoing</u></p> <p>05-30 Amps 3 pole Moulded Case Circuit Breaker (MCCB) having rupturing capacity =>15 KA at 415 V.</p> <p>02-50 Amps 3 pole Moulded Case Circuit Breaker (MCCB) having rupturing capacity =>15 KA at 415 V.</p> <p>01-60 Amps 3 pole Moulded Case Circuit Breaker (MCCB) having rupturing capacity =>15 KA at 415 V.</p> <p>01-100 Amps 3 pole Moulded Case Circuit Breaker (MCCB) having rupturing capacity =>15 KA at 415 V.</p> <p>3-Spaces for installation of MCCBs in future</p> <p>Brass Cable Glands & Space for BTD/Cable as per SLD</p> <p>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.</p> <p>Tube light with rod to be installed inside each cubicle with micro switch on each door.</p> <p><u>Complete in all respect as per single line diagram.</u></p> <p><u>Distribution Boards:</u></p>	1	No		
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	<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 & 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 & 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 & control fuses on incoming. All breakers & 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 <u>conforming to single line diagram.</u></p> <p>Conforming to same constructional specification as 1.20 but equipped with following:</p>				
i	<p><u>Distribution Board DBL-3F</u></p> <p><u>Incoming:</u> 1-30 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch</p> <p><u>Outgoing:</u> 18-10 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures</p>	1	Nos		
ii	<p><u>Distribution Board DBP-3F</u></p> <p><u>Incoming:</u> 1-50 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch</p> <p><u>Outgoing:</u> 39-10/16 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures</p>	1	Nos		
iii	<p><u>Distribution Board DBAC-3F</u></p> <p><u>Incoming:</u></p>				

iv	1-100 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 5-20 ATP MCB (RC=>6 KA) 18-20 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
	<u>Distribution Board DBU-3F</u> <u>Incoming:</u> 1-60 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch 2- 5 Pin 63 Amps Three Phase Industrial Power Socket. <u>Outgoing:</u> 1-30 ATP MCCB (RC=>10 KA) 21-16 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
v	<u>Distribution Board DBL-4F</u> <u>Incoming:</u> 1-30 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 12-10 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
	<u>Distribution Board DBP-4F</u> <u>Incoming:</u> 1-30 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 21-10/16 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
vi	<u>Distribution Board DBP-4F</u> <u>Incoming:</u> 1-30 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 21-10/16 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
	<u>Distribution Board DBP-4F</u> <u>Incoming:</u> 1-30 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 21-10/16 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
vii	<u>Distribution Board DBAC-4F</u> <u>Incoming:</u> 1-50 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 2-20 ATP MCB (RC=>6 KA)				
	<u>Distribution Board DBAC-4F</u> <u>Incoming:</u> 1-50 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 2-20 ATP MCB (RC=>6 KA)				

viii	12-20 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
	<u>Distribution Board DBU-4F</u> <u>Incoming:</u> 1-30 ATP MCCB (RC=>10 KA) 03- Phase Indication Light 01 - Voltmeter 0 - 500V (Smart Control) with Volt selector switch <u>Outgoing:</u> 12-20 ASP MCB (RC=>6 KA) 3- MCB Single Pole - Spaces For Futures	1	Nos		
SUB TOTAL SECTION (1.0)					
2.0	CIRCUIT POINT WIRING				
2.01	Note:- For list of approved manufacturer's see Annexure "A". Supply and wiring of light circuit from DB to switchboard / Presence Detector (PD) 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. Complete with all conduit accessories junction boxes, pull boxes as required complete in all respects as per specifications and drawings.	20	Each		
2.02	Same as item # 2.01, circuit point wiring from switch board to switch board (Loop Circuit).	6	Each		
2.03	Supply and wiring of first light / Exhaust fan point consisting of one point controlled by one switch 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 including all conduit accessories junction boxes, pull boxes, pull wire, 2.5mm ² 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.	88	Each		
2.04	Same as item No. 2.03 above but point to point wiring.	160	Each		

2.05	Supply and wiring of first light / wall / Exhaust fan point / Occupancy Sensor with 2x2.5mm ² (P+N) PVC insulated 300/500 volt grade wire from distribution board breaker in and including PVC conduits recessed in walls/R.C.C. slab, or installed on ceilings including all conduit accessories junction boxes, pull boxes, pull wire, 2.5mm ² cable as PC, complete in all respects as per drawing & specifications.	2	Each		
2.06	Same as item No. 2.05 above but point to point wiring.	20	Each		
2.07	Same as item No. 2.03 above but wiring of ceiling 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.	5	Each		
2.08	Supply and wiring of first 2 pin 5/10 Amps socket outlet point make as approved by consultant (annexure-A) from nearest switch board with single core 2x1.5mm ² 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 ² cable as PC ; & including 16 SWG sheet steel board recessed in walls complete in all respects and as per specifications & drawings.	15	Each		
2.09	Supply and Wiring of one 15A power sockets outlet with 2x 4mm ² single core cables (P+N) and 2.5 mm ² as CPC from DB to point including cost of one Nos. 15A 3 pin switch socket outlet make as approved by consultant (annexure-A) installed on & including 16 SWG sheet steel boards recessed in walls /columns, Complete in all respects.	30	Each		
2.10	Same as item No.2.09 above but loop wiring of 15A power sockets outlet with 2x 4mm ² single core cables (P+N) and 2.5 mm ² as CPC from point to point 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.	16	Each		
2.11	Supply and Wiring of one 5A light sockets outlet with 2x 2.5mm ² single core cables (P+N) and 2.5 mm ² as CPC from DB to point including cost of one Nos. 5A 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.	30	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 point to point including cost of one Nos. 5A 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.	53	Each		
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 DB to point 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.	65	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 point to point 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.	150	Each		
2.15	Wiring for Group Control emergency & Exit Light Fixtures 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.	2	Each		
2.16	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.	75	Each		
SUB TOTAL SECTION (2.0)					
3.0	POWER CABLES AND CONDUITS				

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	<u>1 Core Cable PVC/PVC</u>				
i	1 core 120mm.sq	79	Rm		
> ii	1 core 185mm.sq	45	Rm		
3.01 B	<u>4 Core Cable PVC/PVC</u>				
i	4 core 10mm.sq.	38	Rm		
ii	4 core 16mm.sq.	20	Rm		
iii	4 core 25mm.sq.	15	Rm		
iv	4 core 35mm.sq.	23	Rm		
3.01 D	<u>Circuit Protective Conductor (CPC)</u>				
i	1 core 6mm sq. PVC insulated colour Green/Yellow.	76	Rm		
ii	1 core 10mm sq. PVC insulated colour Green/Yellow.	40	Rm		
iii	1 core 16mm sq. PVC insulated colour Green/Yellow.	76	Rm		
iv	1 core 70mm sq. PVC insulated colour Green/Yellow.	62	Rm		
3.02 A	<u>P.V.C. Conduit and Accessories</u>				

	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)	190	Rft		
ii	2" dia. PVC conduit. (Class D)	125	Rft		
iii	3" dia. PVC conduit. (Class D)	102	Rft		
3.02 B	<u>PVC Pipe and Accessories</u>				
	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.	15	Rft		
3.02 C	<u>Powder Coated Ceiling Suspended / Horizontal Cable Tray in Corridor</u>				
	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 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	6" X 3" Cable Tray 14 SWG & Cover 18 SWG (For redressing of electrical cables inside Archive Room)	200	Rft		
b	9" X 3" Cable Tray 14 SWG & Cover 18 SWG (For redressing of electrical cables inside Archive Room)	150	Rft		

c	12" X 3" Cable Tray 14 SWG & Cover 18 SWG (For Electrical Room)	25	Rft		
SUB TOTAL SECTION (3.0)					
4.0	FITTING FIXTURES AND FANS				
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	Damp Proof LED tube light with 1x18 Watt having color temperature ranging from 2700K to 4500K, lumen efficacy of 80 lm/W (Lumen/Watt) and operational power factor of 0.9 with necessary hanging/fixing arrangement, complete in all respects.	5	Each		
ii	Providing & fixing of Mirror / Glass / Picture Light 1x8 Watt 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.	8	Each		
iii	Supply and installation of Ceiling suspended hanging light with 1x12/15 Watt LED Lamp installed complete hanging arrangement, complete in all respects.	106	Each		
iv	Supply and installation of 4 feet long 1x30 Watt 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)	50	Each		
v	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.	17	Each		
vi	Supply & Installation of dual head "Emergency Light" No. CFS-EMG 300 battery operated (2xHLD Lamp) make Alco / Honeywell or approved by the consultant.	22	Each		
vii	Supply and installation of Ultra sonic rodent repeller complete in all respects.	12	Each		

viii	Supply and installation of 1'x1' open type LED panel with 1x15 Watt 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. (For Archieve Area)	90	Each		
ix	Supply and installation of Downlight Covered with Glass 1x3/4 Watt SMD 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.	10	Each		
x	Supply and installation of Downlight Covered with Glass 1x7/9 Watt SMD 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.	35	Each		
xi	Supply and installation of Downlight Covered with Glass 1x3 Watt COB 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.	10	Each		
xii	Supply and installation of Downlight Covered with Glass 1x7/9 Watt COB 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.	35	Each		
xii	Supply and installation of rope light complete in all respects.	200	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.	8	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. i) Exhaust fan 12" dia (Plastic Body one way)	2	Each		

4.05	ii) Wall bracket fan 18" dia (Plastic Body one way)	1	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	1	Each		
	ii) 2'x2' False ceiling Recessed Revolving fan	2	Each		
SUB TOTAL SECTION (4.0)					
5.0	TELECOMMUNICATION SYSTEM: TELEPHONE ,DATA & MATV				
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	11934	Rft		
5.02	Supply & Installation of adjustable 12 SWG die cast aluminum 12"x12"x4" Floor boxes 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.	5	Each		
5.03	Supply & Installation of 12 SWG die cast aluminum 18"x12"x4" Technology Boxes 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.	92	Each		
5.04	Supply and installation of RJ-11 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		
5.05	Supply and installation of RJ-45 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.	106	Each		
5.06	Supply, Installation & connecting of 4 pair UTP CAT-6 cable from each telephone to telephone junction box for telephone system to be drawn in given prelaidd PVC pipe complete in all respects.	8466	Rft		
5.07	Supply, Installation & connecting of 4 pair UTP CAT-6 cable from each computer to computer junction box for computer networking to be drawn in given prelaidd PVC pipe complete in all respects.	10812	Rft		

5.08	Supply, Installation & connecting of 4 pair STP CAT-6 cable from each networking switch to main server rack as secondary backbone to be drawn in given prelaidd PVC pipe complete in all respects.	100	Rft		
5.09	Installation of owner's supplied Network Switch with all necessary accessories, complete in all respects.				
i	48 Ports	3	Each		
5.10	Installation of owner's supplied Core Network Switch with all necessary accessories, complete in all respects.				
i	8 Ports	1	Each		
5.11	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		
5.12	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 27 U data Cabinet	2	Each		
5.13	Supply and installation of Patch Cord , 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)	10	Nos		
5.14	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		

5.15	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.		
5.16	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	1	No.		
5.17	Supply, Installation & Connecting up of Telephone cables 0.6mm solid conductor, polyethylene insulated, 2 insulated conductors twisted together and PVC sheathed of following pairs:				
i	20 Pairs cable	100	Rft		
ii	80 Pairs cable	75	Rft		
5.18	Supply at site, installation, testing and commissioning of telephone distribution boards with following telephone points to be terminated, complete in all respects:				
i	Telephone DB (20 pair)	1	Each		
ii	100 Pair Main Distribution Frame (MDF)	1	Each		
5.19	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		
5.20	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 complete in all respect.	7	Each		
5.21	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 complete in all respect.	7	Each		
5.22	Supply and installation of (1 to 8)Way MATV splitter with HDTV booster complete in all respects.	1	Each		
5.23	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		
5.24	Fluke testing of Telecommunication nodes complete in all respects.	189	Point		
SUB TOTAL SECTION (5.0)					

6.0	FIRE ALARM SYSTEM				
	<u>Note:- The contractor shall provide warranty of parts & service for one year, from authorized Distributor in Pakistan. Supply & Installation of fire Alarm system conforming to EN-54 & NFPA-72 comprising of following components / equipment</u>				
	<u>Addressable System</u>				
6.01	Supply, installation and connecting of addressable manual call stations press glass type with test key, 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.	2	Each		
6.02	Supply, installation and connecting of electronic alarm sounders ,complete in all respects and conforming to general specifications.	2	Each		
i	Same as above but outdoor hooter for fire alarm of high pitch as approved by the consultant	2	Each		
6.03	Supply, installation and connecting of addressable optical smoke detectors, complete in all respects and conforming to general specifications.	30	Each		
6.04	Same as above 6.03 but addressable heat detector rate of temperature rise type ,complete in all respects .	5	Each		
> 6.05	Same as above 6.03 but addressable gas / Carbon Monoxide detectors ,complete in all respects .	12	Each		
6.06	Supply, installation and connecting of addressable isolator modules, complete in all respects and conforming to general specifications.	4	Each		
6.07	Supply, installation and connecting of addressable fire alarm panel of following mentioned loops. Panel should be equipped with LCD display, integrated BMS Module/Remote Monitoring complete in all respects and conforming to general specifications FACP to be installed at appropriate place as mentioned in drawings.				
i)	FACP 2 Loop	1	Each		
6.08	Supply and wiring of Smoke / Heat detector/Manual Call Point/Sounder/Hooter 30 min Fire Rated Fire Alarm (FA) 1x2 core (1.23mmsq) cable in and excluding cost of 1" dia PVC/Steel conduit with all installing accessories, complete in all respect as per drawings and specification.	57	Nos		

6.09	Supply, installation of fire alarm junction boxes 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects. i) Fire alarm junction boxes of appropriate size 4"x7"x4" deep.	1	Each		
6.10	Supply at site of PVC/GI conduit heavy duty, to be installed on RCC slabs, walls, floor or as required as per site conditions including cost of all PVC/GI conduit accessories, steel pull wires, complete in all respects. i) 1" dia. PVC conduit.	2052	Rft.		
6.11	Testing and Commissioning of fire alarm system as per NFPA-72.	1	Job		
SUB TOTAL SECTION (6.0)					
7.0	CC TV SYSTEM (IP BASED)				
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 (excluding cost of pipe) make Plasco / Beta Pipes, complete in all respects.	17	Each		
7.02	Supply at site, installation, testing & commissioning of Full HD Indoor Box Type 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.	14	Each		
7.03	Same as above but dome type make Alco/Honeywell.	3	Each		
7.04	Supply at site, installation, testing & commissioning of 24 channel NVR 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 Interface, 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 following Ports Data Networking POE switch Layer-2 type , consisting of following Data 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 following port Data Patch panels , 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:				
ii	1 Meter long	40	Nos.		
ii	3 Meter Long	5	Nos.		
7.08	Supply at site, installation, testing & commissioning of coloured CCTV monitor LCD 32" , including cost of all necessary accessories and materials (like bracket and mounting arrangements), complete in all respect.	1	Each		
7.08A	Supply at site, installation, testing & commissioning of Android Ethernet/Wifi Supported LED 40" , including cost of all necessary accessories and materials (like bracket and mounting arrangements), complete in all respect.	7	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.	1326	Rft.		
	Note:- Above mentoned system should be complete in all respect for proper functioning including cost of items mentioned or not.				
SUB TOTAL SECTION (7.0)					

8.0	EARTHING SYSTEM				
>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 2x120mm2 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 2x70mmsq cable in 2" dia GI Pipe (EL Class) as shown in drawings.	1	Each		
8.03	Same as item # 8.01 (A), but wired with 2x25mmsq cable in 1½" dia GI Pipe (EL Class) as shown in drawings.	1	Each		
8.04	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.	30	Nos		
8.05	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.	3	Each		
8.06	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	40	Rm		
ii	70mm2	40	Rm		
> iii	120mm2	50	Rm		
SUB TOTAL SECTION (8.0)					
9.00	ACCESS CONTROL SYSTEM (ONLINE)				
9.01	Wiring 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.	2	Nos.		

9.02	Supply at site, installation, testing and commissioning of Proximity Cards ISO bar code card 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 Wifi Operated Magnetic Drop Bolt Lock 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	7	Nos.		
b)	Double Door	1	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. Note:- Above mentoned system should be complete in all respect for proper functioning including cost of items mentioned or not.	1	Nos.		
SUB TOTAL SECTION (9.0)					
10.0	WI-FI NETWORKING SYSTEM				
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 (excluding cost of pipe) make Plasco / Beta Pipes, complete in all respects.	6	Each		
10.02	Supply and installation of WIRELESS Indoor WIFI access point having Dual Band Zone Flex R510 2x2:2 MIMO with Directional Antennas and Beamflex+ technology. With 2 gigabit Ethernet Ports with secure mounting bracket complete with necessary mounting arrangement make Huawei Wifi-6/ Rukus complete in all respects. Model: Rukus R510 / Equivalent	6	No.		

10.03	Supply at site, installation, tagging, connections, testing and commissioning of following PoE Data Networking switch Layer-2 type , consisting of following Data 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 Trendnet/or approved equivalent.				
i	8 Ports PoE Data Switch	1	Each		
10.04	Supply at site, installation, tagging and connections of following Data Patch panels , installed in Data Rack or as per site. Including cost of all accessories and materials required. Complete in all respect.				
i	8 Ports	1	Each		
10.05	Supply and installation of Patch cord of following sizes.				
a	1 Meter long patch cord	10	No.		
b	3 Meter long patch cord	5	No.		
10.06	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"x4".	1	Each		
10.07	Supply, Installation & connecting of STP CAT-6 cable from each networking switch to main server rack as secondary backbone to be drawn in given prelaidd PVC pipe complete in all respects.	150	Rft		
10.08	Programming, testing, commissioning of complete system in the presence of site engineer. And training of staff .	1	Job		
	Note:- Above mentioned system should be complete in all respect for proper functioning including cost of items mentioned or not.				
SUB TOTAL SECTION (10.0)					
11.0	MISCELLANEOUS ITEMS				
11.01	Supply and installation of Fire fighting equipment for critical and non critical areas complete in all respects.				
i	Dry Powder Fire Balls	5	Each		
ii	25 kg Carbon Dioxide AFFF Fire Trolley	1	Each		
iii	5kg Carbon Dioxide Fire Extinguishers	5	Each		

11.02	Dismantleing of old items as far as electrical items are concerned and there handing over to the client as where is basis.	1	Job		
<i>SUB TOTAL SECTION (11.0)</i>					
<i>Total Carried Over to Summary of Costs</i>				<i>Rs.</i>	

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.

Signed & Stamped Of Contractor

**INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES
SUMMARY OF COST (Electrical Works)**

Vol-2

0.1	INVERTER (SUPPLY)	Rs.
1.0	ALL IN ONE / KISOK PC	Rs.
2.0	QUE MANAGEMENT / SELF SERVICE KISOK SYSTEM	Rs.
3.0	NETWORK SWITCHES (SUPPLY)	Rs.
4.0	MULTI MEDIA PROJECTOR	Rs.
5.0	KITCHEN EQUIPMENT	Rs.
Total Rs.		_____

Signed & Stamped Of Contractor

**INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES**

ELECTRICAL & ALLIED WORKS**Vol-2**

S. No.	Description	Qty	Unit	Rate	Amount
0.1	INVERTER (SUPPLY)				
	Supply at designated location/site, testing and commissioning of Online-Inverter (UPS) with Dry Batteries Bank (as specified below) suitable for operation at 50° C (Max) manufactured by any one of the manufacturers as specified assembled in accordance with their provided drawings, energized by the incoming main supply, battery charger, set of spare Copper battery thimble, radio interference suppressors, voltmeter displays and other allied safeties. Suitable for 400 / 230 volts, 50 cycles/second, including cost of all necessary material / accessories, conforming to technical specifications mentioned below. Technical Specification of Inverter: Prime Rating: - On-Line, Normal and Bypass AC inputs, Interface Port Output: Efficiency at Full Load :>92% Load Power Factor: >0.9 Output Voltage Distortion :Less than 2% Output Frequency:50Hz Output Voltage Regulation: +-1% Waveform Type :True Sine wave Efficiency at full load: =(should not less than) >90% Bypass :Internal Bypass (Automatic and Manual) Input: Total Harmonic Distortion Index < 3% Bypass :Internal Bypass (Automatic and Manual) Input: Batteries & Runtime Battery Type :Maintenance-free sealed deep discharged GEL Type battery Control panel LED status display Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm Emergency Power Off (EPO) :Yes Rack Height :6U Surge Protection & Filtering - Warranty:				
a)	UPS "20 KVA", (3-Phase-In; 3-Phase Out 415V) with 15 minutes back-up time with battery module cabinet.	1	Set		

1.00	ALL IN ONE / KISOK PC				
1.01	Supply, Installation, Testing and Commissioning of "All in one PC" with following mentioned specifications complete in all respects: <ul style="list-style-type: none"> i Processor Generation: 9th Generation or above ii Processor specifications: Core i5, 6C/6T/9MB, 2.2Ghz base upto 3.7Ghz Turbo (Or Better) iii Processor specifications: Core i5, 6C/6T/9MB, 2.2Ghz base upto 3.7Ghz Turbo (Or Better) iv Memory: Single DIMM 8GB DDR4 latest specs/ speed (2666 or more) and Upgradable to 16GB v Hard Disk: 512GB PCIe NVMe – M2 Internal SSD vi Display: 23 inches or more, Full HD (1920x1080), Antiglare vii Wireless: 802.11ac (wave-2) MU-MIMO viii Sound: Integrated, 3.5 mm audio/ combo jack ix Camera: Integrated HD minimum 720p x Keyboard: Included (Wired) with Universal English language. xi Mouse: Included (Wired) with optical tracking. xii Interface: Minimum 1x USB2.0 ports, 4xUSB3.1, 1x HDMI Integrated GbE xiii Operating System: With Windows 10 xiv Warranty: 1 year Standard warranty 	15	Each		
	SUB TOTAL SECTION (1.0)				
2.00	QUE MANAGEMENT / SELF SERVICE KISOK SYSTEM				
2.01	Supply and Wiring of Queue Management system using PVC insulated,CPT Type STP Cat-6 cable make VeniluxInc/Clipsal Cat-6 cables from Q-matic dispenser unit to each Q Matic Display unit and to control switch at each teller's station in 1" dia heavy duty PVC conduitl; complete as per the owner supplied equipment's specifications.	180	Rft		
2.02	Supply at site, installation, testing & commissioning of kisok devices touch button with ticket printer etc make Qnet as approved by electrical consultant, complete in all respects.	1	Nos		
2.02	Supply at site, installation, testing & commissioning of main display panels make Qnet as approved by electrical consultant, complete in all respects.with 42 inches screen.	1	Nos		
2.03	Supply at site, installation testing & commissioning of counter display panels make Qnet as approved by electrical consultant, complete in all respects.	2	Nos		

2.04	Supply at site, installation testing & commissioning of controller keypad make Qnet as approved by electrical consultant, complete in all respects.	2	Nos		
2.05	Supply at site, installation & commissioning of main server devices including software package ,necessary power feeding devices Qnet or as approved by electrical consultant, complete in all respects.	1	Job		
2.06	Supply at site of PVC conduit heavy duty make Plasco / Beta Pipes, 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.	243	Rft		
2.07	Programming, testing, commissioning of complete system in the presence of site engineer. And training of staff. Note:- Above mentoned system should be complete in all respect for proper functioning including cost of items mentioned or not.	1	Job		
SUB TOTAL SECTION (2.0)					
3.00	NETWORK SWITCHES (SUPPLY)				
3.01	Supply at site of networking switch for under mentioned nodes, consisting of following Gigabit Data 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/Rukus or approved equivalent. (Layer-2)				
i	48 Ports	3	Each		
3.02	Supply at site of Core Network switch for under mentioned nodes, consisting of following Gigabit Data 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/Rukus or approved equivalent. (Layer-2)				
i	8 Ports	1	Each		

SUB TOTAL SECTION (3.0)					
4.00	MULTI MEDIA PROJECTOR				
4.01	Supply and installation of Multimedia Digital Projector, resolution 1024x768 with wall bracket, HDMI video, VGA inputs make Samsung/Panasonic or approved equivalent with all accessories complete in all respects.	2	Each		
4.02	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		
SUB TOTAL SECTION (4.0)					
5.00	KITCHEN EQUIPMENT				
5.01	Supply and installation of Electric Kitchen Hob with 4 Zones and Front Mounted Touch Controls complete in all respects. (Base price should not be more than 25,000/-)	1	Each		
5.02	Supply and installation of digital control type 220-250 VAC operated 1000 Watt kitchen embedded type microwave oven make Delonghi/Fuji/or as approved by the consultant complete in all respects.	1	Each		
SUB TOTAL SECTION (5.0)					
Total Carried Over to Summary of Costs				Rs.	

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.

Signed & Stamped Of Contractor

LIST OF APPROVED MANUFACTURERS (M)					(Annexure-A)
Sr #	Particulars	Manufacturers / Vendors	Origin	Landline	Mobile / Cell
1	<u>LT / HT PANELS & DB's / Street Poles</u>				
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	<u>CIRCUIT BREAKERS</u>				
a)	<u>ACBs/TP MCCBS</u>				
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)	<u>SP MCBS / ELCBS</u>				
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	<u>CONTACTORS</u>				
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	<u>SELECTOR SWITCHES</u>				
i)	GGT	E-Links	EU		0321 4404025
ii)	KRAUS & NAIMER	E-Links	EU		0321 4404025
5	<u>VOLTMETER, AMPEREMETERS, FREQUENCY METERS, ENERGY ANALYZERS / ENERGY METERS</u>				
i)	Smart Controller	Index Technology	UK	042-38939166	0300-8184203
ii)	Lovato	Jubilee Corporation	Italy	042-111-000-520	0300-8548550
6	<u>INDICATION LIGHTS</u>				
i)	Telemechanique / Schneider	Schneider Pakistan	EU	042-35912571	
ii)	GGT	E-Links	EU		0321 4404025
7	<u>SWITCHES & SOCKETS</u>				
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	<u>LT CABLES</u>				
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	<u>EARTHING CONDUCTORS</u>				
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	<u>PVC CONDUIT & ACCESSORIES</u>				
i)	PLASCO PIPE	PLASCO PIPE	Pakistan	053-3589621	0321 4113938
ii)	BETA PIPES	BETA PIPES	Pakistan	042-8880161	
11	<u>LIGHTING FIXTURES</u>				
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	<u>FANS</u>				
i)	Lahore Fan	Lahore Fan	Pakistan	042-35113741	
ii)	Royal Fans	Royal Fans	Pakistan	042 - 35761308	
13	<u>TELEPHONE CABLES</u>				
i)	Ventilux	Index Technologies	UK	042-38939166	0300-8184203
ii)	ELAN Cables	Index Technologies	USA		0300-8184203
iii)	Clipsal	Clipsal Pakistan	Australia		0322-2880041
14	<u>Data Cables (CAT-6 UTP)</u>				
i)	Ventilux	Index Technologies	UK		0300-8184203
ii)	ELAN Cables	Index Technologies	EU		0300-8184203
15	<u>Co-Axial Cables (RG-6/7)</u>				
i)	Ventilux	Index Technologies	UK		0300-8184203
ii)	ELAN Cables	Index Technologies	EU		0300-8184203
iii)	3M	ESP Solutions	USA		0333-4666986
16	<u>TELEPHONE, JUNCTION BOXES & PATCH PANELS</u>				
i)	TESCO	Index Technology			0300-8184203
ii)	3M	ESP Solutions	USA		0333-4666986
17	<u>TELEPHONE OUTLETS</u>				
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	<u>FIRE ALARM SYSTEM</u>				
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	<u>CC TV SYSTEM</u>				
i)	SAMSUNG	Vital International	China	042-35290613	0306-6831111
ii)	ALCO	Index Technology	USA	042-35872817	0300-8184203
20	<u>PUBLIC ADDRESS SYSTEM</u>				
i)	TOA	Index Technology	Japan		0300-8184203
ii)	ITC	Index Technology	China		0300-8184203
21	<u>Cable Trunking / Ladders</u>				
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	<u>Bus Tie Duct / BTD</u>				
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	<u>Early Streamer Emission Lightning Protection Systems:</u>				
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	<u>MV Switchgear</u>				
	<u>Ring Main Unit / LBS</u>				
i)	ABB	ABB	EU		0303-4443327
ii)	Siemens	Siemens	EU	042-37636408	
25	<u>Transformers (Dry Type)</u>				
i)	Trafo Elettro	C-Xor Engineering	EU		0300 8477751
ii)	TMS	Jubilee Corporation	EU	042-111-000-520	0300-8548550
26	<u>Oil Type</u>				
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	<u>Generator</u>				
i)	Cummins	Innovative Energy Sol			0333-0525552
		KAN Engineering			
ii)	Scania	Services	EU		0301-8402312
iii)	Mitsubishi	Masco Energy	Japan		0300-7834336
iv)	Powerlink	Meccatech	UK		0300-0889690
27	<u>Generator Control Modules</u>				
i)	Sices	Hub Engineering	EU		0301-6020372

ii)	Deep Sea	Pyramid Automation	UK		0333-4561619
28	<u>Occupancy Sensor</u>				
i)	Ventilux	Index Technology	UK		0300-8184203
ii)	Clipsal/Schneider Electric	Clipsal Pakistan			0333-5386439
29	<u>Wifi Router</u>				
i)	Ruckus	Netsoft	Australia		0321-8480227
ii)	Huawei	CMC	China		0330-7470125
30	<u>GPON Primary Infrastructure</u>				
i)	Ruckus	Netsoft	Australia		0321-8480227
ii)	Huawei	CMC	China		0330-7470125
31	<u>Lifts/Escalator/Dump Waiters</u>				
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	<u>PFI Relay</u>				
i)	Klemsan	E-Links	Turkey		0321 4404025
ii)	Nokian	Jubilee Corporation	Finland	042-111-000-520	0300-8548550
33	<u>Terminal Blocks</u>				
i)	Klemsan	E-Links	Turkey		0321 4404025
ii)	Onka	E-Links	Turkey		0321 4404025
34	<u>PFI Capacitors</u>				
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	<u>Current Transformers</u>				
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	<u>Access Control/Door Locks</u>				
i)	Salto	ESP Solutions	UK		0333-4666986
ii)	Ventilock				
37	<u>Inverter</u>				
i)	APC by Schneider	Innovative Energy Sol.	EU		0300-8504838
ii)	Emerson / Liebert	CMC	USA		0330-7470125
iii)	ABB	CXOR	China		0300-8431263
38	<u>Qmatic System</u>				
i)	Qnet	Matrix Sol.			0321-5022100

INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES

SUMMARY OF COST (HVAC WORKS)

1.0 HVAC Works

Rs.

Total Rs.

Signed & Stamped Of Contractor

**INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES**

HEATING, VENTILATION AND AIR CONDITIONING

ITEM	SCOPE OF WORK	UNIT	QTY	UNIT PRICE	TOTAL PRICE
1.0	SINGLE SPLIT (INVERTER TYPE) AIR CONDITIONING SYSTEM Supply & Installation of heat Pump (Heat & Cool inverter type) DX Split Type Air Conditioning Units, As Specified & Scheduled including unloading, Lifting, Placing and Fixing at foundations as shown on the drawings				
	Cassette Type Units				
1.0.1	CCU-A (Net Cap: 1.5 Tons)	No.	5		
1.0.2	CCU-B (Net Cap: 2.0 Tons)	No.	8		
1.0.3	CCU-C (Net Cap: 3.0 Tons)	No.	7		
1.0.4	CCU-D (Net Cap: 4.0 Tons)	No.	6		
	Wall Mounted Units				
1.0.3	WMU-A (Net Cap: 1.5 Tons)	No.	1		
1.0.4	WMU-B (Net Cap: 2.0 Tons)	No.	2		
2.0	Ventilation Fans Supply & installation of inline centrifugle ventilation fans as specified below complete with un-loading, lifting and placing at locations as shown on the drawings				
	Exhaust Air Fans				
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	Duct Works				
3.1	Galvanized Steel Ducts 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		
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		
	Total Carried to Collection				

5.0	Air Devices 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	Sft	6		
6.0	REFRIGRANT PIPING SYSTEM 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	1512		
6.0.2	Ø 1/2"	Rft	576		
6.0.3	Ø 3/8"	Rft	1512		
6.0.4	Ø 1/4" <i>Note:</i> Sizes & Lengths of Refrigerant pipes and Amount of required refrigerant will be verified by the contractor.	Rft	576		
6.1	REFRIGRANT PIPING INSULATION 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	1512		
6.1.2	Ø 1/2"	Rft	576		
6.1.3	Ø 3/8"	Rft	1512		
6.1.4	Ø 1/4"	Rft	576		
7.0	Supply, fabrication and installation of U-PVC Class E piping & fittings, including hangers, anchor bolts, rubber vibration mounts etc.				
7.0.1	Dia 0.75 Inch	Rft	160		
7.0.2	Dia 1.0 Inch	Rft	720		
7.0.2	Dia 1.25 Inch	Rft	88		
	Total Carried to Collection				

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 2.5mm2 as CPC 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	16		
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 2.5mm2 as CPC 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	13		
9.0	<u>Powder Coated Ceiling Suspended / Horizontal Cable Tray in Corridor</u> 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 6" X 3" Cable Tray 14 SWG & Cover 18 SWG c 12" X 3" Cable Tray 14 SWG & Cover 18 SWG				
		Rft	186		
		Rft	100		
		Rft	573		
8.0	Inspection, testing, Gas Charging, Commissioning and Air Balancing of Complete system	Job	1		
Total Carried to Collection					
Carried to Summary					

Sr #	Equipment/Material	Approved Manufacturer	Approved Country of Origin
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	-----

INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES
SUMMARY OF COST (PLUMBING)

1.0 Plumbing Works

Rs.

Total Rs.

Signed & Stamped Of Contractor

**INTERIOR RENOVATION OF SECP CRO,
3RD & 4TH FLOOR, ASSOCIATED HOUSE,
EGERTON ROAD, LAHORE
BILL OF QUANTITIES**

Plumbing Works BOQ

Sr. No.		UNIT	QTY	UNIT PRICE	TOTAL PRICE
1	2	3	4	(Rs.) 5	(Rs.) 6
1.0	Sanitary Fixtures:				
1.1	Supply and install Lavatories semi pedestal Type, 1.9LPM maximum Flow rate with Faucets including Flexible pipes, valves, Traps & all other required fittings & Accessories to complete the work, as per the Drawings, Specifications and Standards & for aesthetic details, types and size follow architectural drawings and specifications	No.	8		
1.3	Supply and install floor mounted Western Water Closet with 6L/Flush including Perennial Spray, valves, Traps & all other required fittings & Accessories to complete the work, as per the Drawings, Specifications and Standards & for aesthetic details, types and size follow architectural drawings and specifications	No.	8		
1.4	Supply and install Kitchen Sinks (types according to architectural design) including Flexible pipes, valves & all other required fittings, Traps & Accessories to complete the work, as per the Drawings, Specifications and Standards.	No.	1		
1.5	Supply and Install prefabricated ablution unit with 1.9LPM maximum Flow rate with Faucets including Flexible pipes, valves, Traps & all other required fittings & Accessories to complete the work, as per the Drawings, Specifications and Standards & for aesthetic details, types and size follow architectural drawings and specifications	No.	2		
	Total Carried to Collection				

2.0	Potable Water Supply:				
2.1	Electric Water Heater				
	Supply and install vertical electric storage water heater of 6.0 Liters capacity, glass lined commercial type including control panel, connections, operating control, control valve, strainer, valves, temperature gauges, pressure gauges, safety valves, heating coil, vessel, with all necessary accessories required to complete the work as per the Drawings,	No	3		
2.2	Potable Pipeworks & accessories:				
	Supply and install Potable Water Supply above Grade PPR pipes of PN 16 with Fittings and Joints or Mechanical Coupling Complete with supports, hangers and all type of accessories like Water hammer arrestors , as per the Drawings, Specifications and Standards.				
	2" dia PPR Pipe	ft	14		
	1.5" dia PPR Pipe	ft	88		
	1" dia PPR Pipe	ft	42		
	3/4" dia PPR Pipe	ft	148		
	1/2" dia PPR Pipe	ft	128		
2.3	Hot Water Pipe Insulation:				
	Supply & installation of Elastomeric/Epdm Closed Cell FM approved Foam Type insulation of density 65 Kg/m3 and thermal conductivity 0.035 W/M of fire performance conforming to UK building regulation of Class-0 rating protected with fire retardent type high density closely woven				
	1" dia	ft	28		
	3/4" dia	ft	52		
	1/2" dia	ft	102		
2.4	Valves				
	Gate Valves				
	Supply & installation of Gate Valve, 2" dia (Brass)	No.	1		
	Supply & installation of Gate Valve, 1-1/2" dia (Brass)	No.	3		
	Supply & installation of Gate Valve, 1" dia (Brass)	No.	2		
	Total Carried to Collection				

3.0	Sanitary Drainage :				
3.1	Supply and install of UPVC Type Floor complete in all respect as per the Drawings, Specifications and Standards.				
	Floor Drains				
	2" dia	No.	11		
	4" dia	No.	7		
3.2	Drainage Pipeworks & accessories:				
	Supply and install below Grade soil/Waste drainage pipe work of UPVC class D Pipe including fittings & supports, as per the Drawings, Specifications and Standards.				
	4" dia UPVC Class D	ft	54		
	3" dia UPVC Class D	ft	62		
	2" dia UPVC Class D	ft	82		
3.3	Grease Trap:				
	Supply & Installation 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		
3.4	Bone Crusher				
	Supply, install, testing & 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 .				
	Bone Crusher 2000ml	1	No		
	Total Carried to Collection				
	Carried to Summary				

Sr #	Equipment/Material	Approved Manufacturer	Approved Country of Origin
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 CRO, 3RD & 4TH FLOOR, ASSOCIATED HOUSE, EGERTON ROAD, LAHORE

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: 051-5512245, 051-5511587, Fax: 051-5125075
E mail: mail@saka.net.pk, Web: www.saka.net.pk

List of Approved Civil Manufacturer / Supplier

Item / Work	Manufacturer	Suppliers / Representatives
Termite	Chemical FMC Bi Flex approved by RE	<u>CHEMICAL FMC BI FLEX</u> Office # 07 First Floor Aneeq Arcade I-8 Markaz Islamabad Mobile: 0333-4261815 -
Reinforcement Steel	Pak Steel, Nomi Steel approved by RE	-
Gypsum board Ceiling	Elephant or equivalent approved by RE	
Aluminum	Alcop, Chawla Aluminum, Prime Aluminum, Gulf Extrusion approved by RE	<u>CHAWLA ALUMINUM,</u> 44 College Road, Block 1 Sector C-1 Block 1 Twp Sector C 1 Township, Lahore, Cell : 0300-8016410
BRICK	A Class Lahore bricks approved by RE	
Fair Face Block / Cladding Work,	Concrete Concepts or equivalent approved by RE	<u>CONCRETE CONCEPTS</u> 3rd Floor, Gulberg Heights Near Sherpao Bridge Gulberg II, Lahore, Pakistan UAN: 111-239-239 Phone: 92-42-35873250 Fax: 92-42-35712971 Email: info@concreteconcepts.com.pk
Fire Rated Doors(minimum one hour fire resistance)	HORMANN approved by RE	<u>INTEG ENGINEERING & TRADERS</u> A-1 Street 4, Sulman Sheikh Centre, Block 6, gulshn-e-iqbal, Karachi Tel: 021-34978916 021-34979828 021-34989399 Fax: 021-34977211
Water Proofing chemicals	Sika, or Equivalent , as approved by RE	Engr. Gohar Zaman Mob: 0300-8430243
Paint / Polish	ICI, Nippon, Jotun approved by RE	
Deco Paint		
Crushed Stone Aggregate	Margala approved by RE	
Sand	Ravi sand approved by RE	
Cement	Fauji Cement & Bestway Cement, approved by RE	

Tiles	White Horse Ceramics by PPL, Benitoz, RAK or equivalent approved by RE	<u>PRISM PREMIUM LOSUNGEN</u> GT Road near DHA ii, Rawalpindi Mob: 0300-8569646 <u>BENITOZ</u> DD/91, opp, PSO pump ojri camp Murree Road Rawalpindi Cell: 051-4575956 <u>RAK CREMIC</u> 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	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) <u>051) 2803231</u>
Anti-shatter film	3M or equivalent approved by RE	
Carpet	Interflor, & Pak Carpet or equivalent approved by RE	<u>INTERFLOR</u> Basement Hamayun Arcade, street # 5 Muhammadi Town Sohan, Islamabad- Tel- 051- 2612231 Cell: 0300-5077551 <u>Pak Carpet</u> Suite # 702, 7th Floor, Liberty Gates Plaza, M. M. Alam Road, Gulberg III Lahore. Tell : 042-35771428 flooring@pcigroup.com.pk
Sports Vinyl Floor & Pvc Floor	Interflor, & Pak Carpet or equivalent approved by RE	<u>INTERFLOR</u> Basement Hamayun Arcade, street # 5 Muhammadi Town Sohan, Islamabad- Tel- 051- 2612231 Cell: 0300-5077551 <u>PAK CARPET</u> Suite # 702, 7th Floor, Liberty Gates Plaza, M. M. Alam Road, Gulberg III Lahore. Tell : 042-35771428

		flooring@pcigroup.com.pk
Ply Wood	AL Noor or equivalent approved by RE	NAEEM TRADERS Head Office 22 Cooper Road, Lahore
PVC Sheet	Chawla PVC Board or equivalent approved by RE	44 College Road, Block 1 Sector C-1 Block 1 Twp Sector C 1 Township, Lahore, Cell : 0300-8016410
Melamine sheet	Imported approved by RE	NAEEM TRADERS Head Office 22 Cooper Road, Lahore
Cement Board	SHERA or equivalent approved by RE	<u>DIAMOND THERMOPORE</u> 16 Beadon Road, Lahore, Punjab, Pakistan. Tel: 042-37231295,
Corian	LG (Imported) or equivalent approved by RE	<u>SHAZE</u> Roshan center, Jinnah Avenue Blue Area, Islamabad, Pakistan Mobile # 0300-5557300 NAEEM TRADERS Head Office 22 Cooper Road, Lahore
Archi + Concrete Acrylic Base	Nova color approved by RE	NOVA COLOR 1 st floor Building # 98, DD Phase 4 Commercial Area, Lahore, Pakistan Hafiz Cell: 0321-2000091
Granite		
Marble		
Signage	Australian or equivalent approved by RE	<u>SIGNSCAPESIGNSCAPE</u> 205, Korang Road, I-10/3 Industrial Area, Islamabad – 44000, Pakistan. Tel: 051-2803098-9 Cell: 0345-5566402 www.signscape.pk
FURNITURE	Interwood Mobel (pvt) ltd, Office First & HB Furniture or equivalent approved by Architect	<u>INTERWOOD MOBEL (PVT) LTD,</u> Police Station, Plot # 390, Street No. 16, Potohar Rd, near I- 9/3, Islamabad, Islamabad <u>Phone:</u> (051) 4859103 <u>OFFICE FIRST</u> Unit 7&8, Umer building, 76 west, Main Jinnah Avenue, Blue Area, G 7/3 Blue Area, Islamabad <u>Phone:</u> (051) 2344460