

Sample Bill of Quantities

A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Particular Conditions of Contract, Technical Specifications, and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The rates and prices bid in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clauses 13.4 and 13.5 of the General Conditions.
8. The method of measurement of completed work for payment shall be in accordance with *[insert the name of a standard reference guide, or full details of the methods to be used]*.

B. Work Items

1. The Bill of Quantities usually contains the following part Bills, which have been grouped according to the nature or timing of the work:

Bill No. 1—General Items;
Bill No. 2—Earthworks;
Bill No. 3—Culverts and Bridges;
Bill No. 4—etc., as required;
Daywork Schedule; and
Summary Bill of Quantities.

2. If ITB 16.1 applies, Bidders shall price the Bill of Quantities in the applicable currency or currencies (Local or foreign as the case may be).

[Note to the Procuring agency/Employer: The tables in BOQ must be prepared in accordance with the currency alternative retained in BDS – ITB 16.1.]

Bill of Quantities

CIVIL WORKS

S.NO	DESCRIPTION/SPECIFICATION	QTY	UNIT	RATE	AMOUNT
	DISMANTLING WORKS (where required)				
1	Dismantling and removing of existing masonry walls, False ceiling, cash counters, Flooring/Walls tiles Cladding, Ramps, marble, Steel doors, windows, Glass works, electrical fixtures & fittings , Plumbing fixtures & fittings, M.S grills and any other material etc the dismantled materials to be stacked at desired location within the bank premises as per instructions by BM and Engineer including disposal of debris from site outside the municipality limit complete in all respects as per drawings.	1	job		
1-i	Dismantling R.C.C Wall/Slab of strong room and locker room & basement etc including labor, equipment's, scaffolding, throw all the dismantled unserviceable materials out of municipal limit with transportation. Dismantled Vault/Locker room doors and other serviceable materials shall be handed over to Branch Manager. Complete in all respect.	50	Sft		
1-ii	Dismantling/Removing of existing Standard strong room/Locker room doors and relocate the same to its new desired location as per approved drawing, instructions of BM/Engineer, including fixing and welding with hold fast , levelling , concrete , labour complete in all respect as directed by Engineer Incharge.	1	Job		
1-iii	Shifting/Removing of existing Lockers, Cash Safes and any other related items to new desired location in the branch premises/out side of branch complete including loading/un loading, transportation complete in all respect as directed by BM/ Engineer.	1	Job		
2	REINFORCEMENT CEMENT CONCRETE 3000 PSI				

	Provide, mix, place and vibrate reinforcement cement concrete in the volumetric mix. 1:2:4 at any floor using one part of cement to 2- part sand and 4-parts of crush from the approved source as per specification. cube crushing strength of 3000 psi at 28 days, finishing the necked surface and curing etc, including water tight finishing the necked surfaces and curing etc, form work including its sub-sequent removal, complete in all respects as per drawings, specifications and as directed by the Consultant/Engineer.				
	I) R.C.C Walls .	50	Cft		
	II) Beam / Lintels/ Shelves/Slab etc.	25	Cft		
	STEEL REINFORCEMENT				
3	P/F Grade 60 steel reinforcement deformed bars at any floor with minimum yield strength of 60000 psi as per ASTM standards A-615, including cost of binding wire of 16-SWG, chairs. (Wastage of bars, Over laps etc. is to be Contractors accounts).	150	kgs		
	BRICK MASONRY WORK				
4	Providing and laying brick masonry/ Solid Block with 1:4 cement sand mortar in super structure, including raking out joints, scaffolding, curing, drilling for walls/ Ramps where required at any floor/height complete in all respects as per drawings, specifications and as directed by the Consultant/Engineer.				
	9" (228 mm) Thick or Above	90	Cft		
	6" (150 mm) Thick or Above		Cft		
	4" or 4-1/2" (114 mm) Thick	550	Sft		
	PLASTER WORK				
5	Providing and applying Plaster (thickness and cement / sand ratio as indicate in sub items below) including making edges and corners, curing, scaffolding etc at any floor/height, complete in all respects as per drawings, specifications and as directed by the Consultant/Engineer.				
	12mm Thick in (1:4) on walls	2500	Sft		
	19mm Thick in 1:3 on stairs soffit / ceiling	50	Sft		
6	P.C.C (1:4:8) UNDER FLOOR				

	Providing and laying under floor cement concrete of the nominal mixes by volume as indicated, using 1-1/2" down guage stone ballast as coarse aggregate, including formwork and its removal, compacting, curing etc, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	50	Cft		
7	P.C.C FLOORING (1:2:4)				
	Providing and laying of PCC 1:2:4 under floor using one part ordinary portland cement, two parts of best quality sand and four parts of crush stone including leveling, compacting, curing and surface finishing as required, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.				
	37mm Thick (Rough Finish)	1200	Sft		
	50mm Thick (Smooth Finish)	50	Sft		
8	PORCELAIN TILES				
	Providing and laying floors of Porcelain tiles 1200mm X 600mm (grit white) 11mm thick of Roka ceram tile imported made (UAE/ Malysian or equivalent including base mortar 1-1/2" thick average c.c and matching colour, cement slurry for fixing of tiles, complete in all respects as per drawings, specifications and as directed by the Engineer.	1100	Sft		
8-i	Providing and laying floors of Porcelain tiles 1200mm X 600mm (Conoliaen Brown) 11mm thick of Roka ceram tile imported made (UAE/ Malysian or equivalent including base mortar 1-1/2" thick average c.c and matching colour, cement slurry for fixing of tiles, complete in all respects as per drawings, specifications and as directed by the Engineer.	300	Sft		
8-ii	WOODEN TEXTURED TILE.				
	P/L wooden textured porcelain tile 300mm x 1200mm made of malaysian tile approved imported porcelain tile flooring or equivalent of desired color and shade over existing flooring using dry bond mortar, including joint filling with approved matching color chemical, cutting tiles where required etc, complete in all respect.	110	Sft		
8-iii	WOODEN LAMINATED FLOOR				

	Providing and fixing impored Wooden laminated floor of approved colour and quality make Malysian 4 rating, 8mm thick or equilent with water proof lining, including all necessary joinery details and underlay, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.		Sft		
8-iv	CARPET TILES				
	Providing and laying of Carpet Tiles size 500mm x 500mm of approved quality, pattern, (UAE / MILLEKEN or equivalent) make solution dyed fiber including wastage, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.		Sft		
	GRANITE SKIRTING		450		
9	Providing and laying 19mm thick Pre-polished Cherry Pink / Camel Brown Granite skirting 100mm high of including base mortar and matching colour, cement slurry for fixing of tiles, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	35	Rft		
9-i	Providing and laying 11mm thick of Conoliaen Brown tile in Skirting 100mm high of takceram tile imported made (UAE/ Malysian or equavilent) including base mortar 1-1/2" thick average and matching colour, cement slurry for fixing of tiles, complete in all respects as per drawings, specifications and as directed by the Engineer.	200	Rft		
	GRANITE ON STAIR AND MAIN ENTRANCE PODIUM				
10	Providing and laying 19mm thick pre-polished Cherry Pink Granite / Camel Brown Granite on stair threshold floor, wall etc, including base mortar and matching colour, cement slurry for fixing of tiles, complete in all respects as per drawing, specifications and as directed by the Consultan	115	Sft		
10-i	GRANITE THRESHOLD				

	Providing and laying 19mm thick pre-polished Cherry Pink Granite / Camel Brown Granite on threshold, including base mortar and matching colour, cement slurry for fixing of tiles, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	20	Sft		
	CONOLIAN BROWN TILE THRESHOLD				
10-ii	Providing and laying on Threshold of Porcelain tiles 1200mm X 600mm (Conoliaen Brown) 11mm thick of takceram tile imported made (UAE/ Malysian or equavilent including base mortar 1-1/2" thick average c.c and matching colour, cement slurry for fixing of tiles, complete in all respects as per drawings, specifications and as directed by the Engineer.	30	Sft		
	PORCELAIN TILES ON TOILET WALLS / Floor				
11	Providing and laying floors/walls of UAE/ Malysian or equavilent Porcelain tiles size 600mm x 300mm (or any other approved size on floors/walls including base mortar and matching colours, cement slurry for fixing of tiles, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	250	Sft		
	VANITY COUNTER				
12	Providing and fixing 19mm thick pre-polished approved Cherry pink or any other approved granite on bath and kitchen counters including base mortar with matching colour cement slurry for fixing, grouting and chamfering of edges, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	10	Sft		
	GLASS DOORS				
13	Providing and fixing Tempered frame less glass door using 12mm clear glass , imported concealed floor door closers GCC made or equavilent, door locks, and approved handles of 4'-0" height on both sides, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	63	Sft		
13-i	Wooden Frame Glass Door				

	Providing and fixing Tempered glass door using 12mm clear glass including top and bottom 4024 Al-NoorTactile sheet H section size 6" x 1.5",including imported concealed floor door closers GCC made or equavilent, door locks,and approved handles of 4'-0" height on both sides, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	25	Sft		
	WOODEN DOORS (38 mm thick)				
14	Providing & Fixing of WOODEN DOOR (WD- 1A), made of 19mm thick Al-Noor Laminated MDF 4024 tactile sheet or approved equavilent with 9mm thick approved solid (seasoned) wood on edging with clear NC lacquer polish/paint, including door frame of 16 SWG GI sheet with red oxide coat followed by two coat of enemal paint/polish of approved shade including complete door hardwares i-e hinges, imported door lock and door stopper, 6" wide stainless steel kick plate on both side of door. etc, complete with all respect as per design and instructioins of Engineer.	125	Sft		
	FLUSH WOODEN DOOR				
15	Providing /fixing 1 ½" thick solid flush wooden door shutter with commercial ply in OAK color in design finished with matt enamel paint of approved shade after preparing surface including all hard ware accessories & (2"x1/2" thick bedding) with lock complete in all respect as per specification or as directed by the Engineer In charge.	0	Sft		
	GLASS PARTITION				
16	Providing and fixing of Glass partition consisting of 12mm thick imported clear tempered glass, with approved aluminum H section frame of approved shade as frame on top and bottom and all necessary joinery details complete in all respects as per drawing, specifications and as directed by the Engineer.	0	Sft		

16-i	Removing of existing glass partition/doors of 12 mm thick or any other size and re-fixing the same to desired location and shape including all required hardwares complete in all respect and as directed by the Engineer.	0	Sft		
16-ii	GLASS PARTITION 12MM THICK WITH APPROVED FITTINGS.				
	Providing and fixing of Glass Partition consisting of 12mm thick imported clear tempered glass with imported GCC or equavilent fittings of required design and including all hardware, job complete in all respects.	150	sft		
16-iii	GLASS PARTITION 12MM THICK WITH WOODEN FRAME.				
	Providing and fixing of Glass Partition consisting of 12mm thick imported clear tempered glass including top and bottom with solid seasoned wood OAK/ASH and fixing 4024 Tactile sheet size upto 6",including GCC made or equavilent fittings, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	20	sft		
17	FRONT GLAZING / CURTAIN WALL				
	Providing and fixing of Glass Partition consisting of 12mm thick imported clear tempered glass including frosting paper in pattern as showin on drawing with approved 2mm thick aluminum section (curtain wall) of chawala or equavilent as frame on top and bottom and all necessary joinery details complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	0	Sft		
18	BULK HEAD/DRY PARTITION				
	Providing and making bulkhead using 2" x 2" partal wooden frame @ 2' c/c horizontal and vertical with 19mm thick Laminated MDF sheet on both sides including paint/polish of approved colour complete in all respectas per drawing, specifications and as directed by the Engineer.	10	Sft		
19	LOW HEIGHT WOODEN PARTITION				

	Providing and making Low height wooden partition using 2" x 2" partial wooden frame @ 2' c/c horizontal and vertical with 19mm thick Al-Noor Laminated MDF 4024 tactile sheet or equivalent on both sides etc upto Min height 4ft. complete in all respects as per drawing, specifications and as directed by the Engineer.	30	Sft		
20	INTERNAL PAINT WORKS				
	Providing and applying Paint on internal/ External walls of ICI or Berger including rubbing with sand stone, filling the uneven surfaces with putty, rubbing with sand paper and preparation of surface perfect in all respects, applying one coat of primer on prepared surface of plastered and finish paint coats as indicated in sub items, complete in all respects as per drawings.				
	Plastic Emulsion Paint ash white (on Internal walls)	2500	Sft		
	Weather shield paint on external walls (approved by the Engineer)	1500	Sft		
20-i	Providing and applying Three coats of ICI deluxe distemper paint for roof/ ceiling after scraping, sand papering, plain surface complete with all material labour, equipment scaffolding etc As per entire satisfaction of Regional Engineer/ Engineer Incharge.	1000	Sft		
21	WOODEN CABINETS				
	P/fixing of wooden filling cabinets low and full height at any height made with 19 mm MDF laminated 4024 AL NOOR with edging made of Tape/U-Tape/Solid wood 3/8" thick, and back box made of lamination chipboard # 7056, including approved handles, hinges, magnetic catchers and shelf as per approved drawing and design. Complete in all respect. (Size upto 4'x8' approx.)	12	No.		
21-i	KITCHEN CABINETS				

	P/fixing of wooden openable KITCHEN cabinets (approx 24in deep) at any height made with 16mm MDF laminated 4024 AL NOOR with edging made of Tape/U-Tape/Solid wood 3/8" thick, and back box made of lamination chipboard # 7056, including approved handles, piano hinges, magnetic catchers and shelf as per approved drawing and design. Complete in all respect. (Size upto 4'x8' approx.)	1	No.		
	GYP SUM SHEET FALSE CEILING				
22	Providing and fixing 12mm thick gypsum sheet False ceiling of approved design with ICI/Berger paint including hanging system, making opening for lights or diffuser complete in all respects as per drawing, specifications and as directed by the Engineer.	1050	Sft		
	FALSE CEILING.				
22-i	Providing and fixing 7.5mm thick Lamination gypsum tile 600mm x 600mm False including hanging system (Black Groove), making opening for lights or diffuser complete in all respects as per drawing, specifications and as directed by the Engineer.	300	Sft		
	DUMPA FALSE CEILING.				
22-ii	Providing & Fixing aluminium perforated 0.6mm thick imported Dumpa false ceiling size 600mm x 600mm including hanging system making opening for lights or diffuser, complete in all respects. (Kitchen/Washrooms area)	50	sft		
	WOODEN FALSE CEILING.				
22-iii	P/F of wooden False Ceiling at required level with MDF lassani sheet imported quality, partial wooden frame internal side of false ceiling size (2"x1-1/2") & (3"x1-1/2") with supports and MS angle supports with appropriate size and ceiling surface finish with approved design by Engineer in charge, including Lacquire polish ICI made in Germany or with 17mm thick approved laminated Tactile sheet # 4024 made by Al-Noor or equivalent with partial wood frame including labor, material and transportation etc. Complete in all respect.	110	Sft		
23	WOODEN RAFTER.				

	P/Fixing wooden Rafters made of 19mm thick tactile sheet 4024 size upto 4" x 6" or any other approved size as per site requirements/approved design complete in all respect as per drawing and instructions of Engineer-In-Charge.	30	Rft		
24	CORNICE				
	Providing and fixing 11mm thick and 75mm high Laminated tactile sheet No.4024 Al-Noor made or equivalent, Cornice architrave on wall and applying of approved paint, including joinery detail and fixing tape on bottom of cornice complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	200	Rft		
25	ALUMINUM WINDOWS				
	Providing and fixing full glazed Anodized Aluminum windows/ Ventilator made of Pakistan cable or equivalent (Sliding/ Fixed) of approved manufacturer using Deluxe quality 2mm thick 4" wide extruded section, glazed with distortion free 6mm thick imported tinted glass with fly screen having best quality mesh and aluminum section including all hardware, handles , PVC/ruber gasket and sealent complete in all respect	15	Sft		
26	ALUMINIUM LOUVER SHUTTER & CABINET.				
	P/Fixing Aluminum Louvers shutters below wash basin & sink with Aluminum frame 2mm thick 4" wide extruded section including fixing Aluminum cabinets as per approved design including handles etc. complete in all respect as directed by the Engineer Incharge	10	Sft		
27	BLINDS				
	Providing and fixing imported synthetic fibre roller Blinds according to the instructions of the manufacturer, complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	150	Sft		
28	RAILING				

	Providing and fixing of Stainless steel pipe grade 304 non-magnetic as Railing of 50mm dia Top and 40mm stainless vertical pipe as blustrade, 12mm dia stainless steel horizontal pipe 3 nos including all necessary joinery details and applying of approved paint complete in all respects as per drawing, specifications and as directed by the Consultant / Engineer.	40	Rft		
29	FRONT ELEVATION.				
	FRONT TILES				
29-i	Providing and laying of Porcelain tiles 1200mm X 600mm, 8.9mm thick imported made or equivalent including base mortar 1-1/2" thick average and matching colour, cement slurry for fixing of tiles, complete in all respects as per drawings, specifications and as directed by the Engineer.	200	Sft		
	FRONT GLAZING				
29-ii	Providing and fixing of Glass on front elevation consisting of 12mm thick imported clear tempered glass with frosting paper in pattern as shown on drawings, with approved aluminum H Section as frame on top and bottom and all necessary joinery details. Complete in all respects as per drawings.	150	Sft		
	GRAFFIATO PAINT/ROCK WALL				
29-iii	P/A Graffiato paint/ Rock wall best quality of approved color on front elevation and design by engineer. Including scaffolding, labor, material etc. upto any floor/height Complete in all respect.	0	Sft		
	ALUCOBOND (Optional)				
29-iv	Aluminum Composite Material (ACM) consists of two sheets of smooth 0.02" aluminum thermobonded to a polyethylene core in a continuous process. pre-finished with a premium Kynar 500 PVDF resin-based coil coating that is in a spectrum of attractive standard approved colors etc, as per entire specification of Engineer Incharge.	0	Sft		
30	SAFETY GRILL				

	Providing/ fabricating & fixing mild steel protective grills to windows made up from steel section of 16mm x 16mm square bar at 6" c/c vertically and 8" c/c horizontally and M.S Flat 1 1/2" X 3/8" frame (as per sketch) including 3 coats of approved shade of ICI Burger Enamel paint 3 copats over a coat of red lead oxide etc. complete as directed by Engineer Incharge.	150	Sft		
	G.I. SHUTTER				
31	Providing fabricating & fixing at any floor, steel roller fence shutters made of standard M.S Channel 3/4"x1/8" M. including roller of C-Iron rail 2-1/2" x1 1/2"x 1/2" with all hangers, bearing box, tracks, guide channel pull handles locking arrangement internal and external, and making good all cut work etc finished with 3 coats of enamel paint to requisite shade over red lead primer, complete in all respect as per specification or as directed by the Engineer Incharge.	0	Sft		
	COLLAPSIBLE DOORS				
32	Providing fabricating & fixing at any floor, steel grill collapsible doors with louver made of standard M.S Channel 3/4"x1/8" M.S Flat 3/4"x1/4" including roller of T-Iron rail 1 1/2" x1 1/2"x 1/2" with all hangers, bearing box, tracks, guide channel pull handles locking arrangement, and vertical louvers making good all cut work etc finished with 3 coats of enamel paint to requisite shade over red lead primer, complete in all respect as per specification or as directed by the Engineer Incharge.	80	Sft		
	STEEL DOOR FOR ATM, GUARD ROOM & EMERGENCY EXIT				
33	Providing and fixing of M.S steel sheet 14SWG on both sides and M.S pipe frame 16SWG frame at inner side of leaf, door frame of M.S angle Iron+M.S dtrip, applying of approved enamel paint and all necessary joinery details, complete in all respect.	42	Sft		
34	WOODEN WALL / COLUMN CLADDING				

	Providing and fixing of wall cladding with 19mm thick approved laminated Tactile sheet # 4024 made by Al-Noor or equivalent with partial wood frame and having vertical stripes 1 1/2 " wide X 3/4"thick 2 1/2 " C/C at both ends of wall up to 24" each side or any other approved design. complete in all respect as per specification or as directed by the Engineer Incharge.	150	Sft		
	PVC WALL PANEL				
35	Providing & Fixing of imported PVC panel of approved shade, design and quality including all required hardwares complete in all respect and as directed by the Engineer.	50	Sft		
	CASH COUNTER				
36	Teller Counter made of MDF lassani sheet best quality imported. Working top made of MDF Sheet thickness 1-1/2" standard pressed pasted with approved laminated Tactile sheet # 4024 made by Al-Noor or equivalent, front and customer top made of corian approved shade and design, customer top having stainless steel tray/ corian approved shade. Including 12mm clear glass with stainless steel clips supported in 2" thick vertical post laminated with imported stainless steel laminated sheet approved designe and shade . wooden haging beem with wooden strips in top and bottom as per drawing, three coats of matt finish paint on end supports . counter sepration partion made of laminated 1-1/2" thick approved color. complete in all respect as per approved sample on head office. Size(mm): W:1200 x D:1813 x H:2440 Exclusive Drawer Pedestsl.	8	Rft		
	WOODEN DRAWER				
37	Providing wooden drawer unit with white formica (size 18"X 17" X 22") having 3 drawers and imported handle running on imported rail with central locking arrangement etc complete as per entire satisfication of Engineer Incharge.	0	No.		
38	TERMITE PROOFING				

	P/A Termite proofing and rat killer spray or chemical best quality imported approved before application inside warehouse etc. Complete in all respect.		job		
39	HYDRAULIC DOOR CLOSER. P/F of hydraulic door closer best quality imported etc. Complete in all respect.		Each		
40	GLASS DOOR MACHINE. P/F of Imported Door machine GCC made or Equivalent at any floor, supporting Internal and External Glass doors as per approved design and as directed by the Engineer.		Each		
41	TUFF TILES Providing and laying of Tough Tiles size 1 ft X 1ft X 2 Inch thick, reinforced with wire mesh in approved colour over 2" thick average P.C.C 1:2:4, and grouting in cement complete in all respect.	50	Sft		
42	FIBER GLASS PARKING SHED. P/F of parking shed canopy with three ply sheet of approved quality and shade, having Main vertical post of MS pipe 3" dia round pipe 16 SWG, with frame of 1-1/2"x1-1/2", 18 SWG square pipe, including excavation in foundation, foundation base concrete (mix ratio of 1:2:4) , Footing size 12" X 12" X 18" , all the structural elements of shade to be coated with three coats of enamel paint ICI/BERGER etc over Primer coat of Red Oxide. Complete job as per approved design and as directed by the Engineer.	0	Sft		
43	WOODEN HANGING BEAM. Fabricating & Fixing Wooden hanging beam for glass partitions using 2" x 2" partial wooden frame @ 2' c/c horizontal and vertical with 11mm thick imported MDF Sheet both sides and 03 coats of paint approved shade etc complete in all respect as per drawing, specifications and as directed by the Engineer.	10	Rft		
44	WOODEN PELMET.				

	P/F of wooden pelmet made of MDF lassani 1'-6" wide and 4" high with partial wooden frame internal structure size 2"x1-1/2" covered with MDF lassani 1/2" thick with holes light holes and apply three coats of mattfinish paint etc. Complete in all respect etc.	0	Rft		
	LOGO/THEME WALL.				
45	Logo wall made of chipboard with 19mm thick approved laminated Tactile sheet # 4024 made by Al-Noor or equivalent with softwood framing, design strip as per approved design. Including complete joinery details. Complete in all respects as per drawing and specifications including approved design, materials, size and preparation of cut off NBP's logo with approved lights complete in all respect.. Size (mm): W: 2590 x T: 75 x H: 2440	1	job		
46	ROOF TREATMENT WORKS.				
	INSULATION BIRCK TILES ON ROOF				
46-i	Roof insulation with 9"x4.5"x1.5" first class burnt brick tiles grouting with cement/sand mortar (1:2) including bitumen coating of approved standards, laying of polythene sheet of specified thickness, mud filling 3-4" thickness with proper slope and making required no. of khuras for proper drainage job complete in all respects.		Sft		
	ROOF SCREEDING.				
46-ii	P/Applying water proofing on roof top 3" thick cement concrete layer mix ratio of 1:2:4 with leveling/ slope and proper finishing with curing to control seepage / ingrence in concrete / cementious etc. complete in all respect.	0	Sft		
	ROOF SCREEDING WITH WATER PROOFING AGENT				
46-iii	P/Applying water proofing on roof top with best quality water proofing agents made of Epoxy/ECO proofing CWP or equivalent over 2-1/2" thick avg: cement concrete layer mix ratio of 1:2:4 with leveling and proper finishing with curing to control seepage / ingrence in concrete / cementious etc. complete in all respect.		Sft		
46-iv	BITUMEN ROOF TREATMENT.				

	Providing and Laying water proof with bitumen flit/ jute in a sold mop coat using and cement plaster speard sand etc i/c repairing the roof using Ultra bond etc. as per entirer specification of Engineer Incharge.	0	Sft		
46-v	ROOF MARBLE ADDITIONAL FLOOR.				
	P/L 1/2" thick boticena marble approved quality at roof top with 2" thick c.c with cement slurry, including marblish griding and polish with machine finaly finish with mension polish best quality imported complete in all respect.		Sft		
46-vi	WATER PROOFING.				
	Water Proofing in Floor to stop seepage with cutting floor, grouting using Eco-shield Epoxy PU Sealant, in basement/Toilet area etc. as instructed by the Engineer complete in all respect.	0	Sft		
47	MAIN HOLE.				
	Construction of Main Holes made with block masonry size 2'-0" x 2'-0" x 2ft deep including excavation,base concrete, plastering inside/outside, provision of holes to connect pipe line including curing etc. complete with P/F main hole cover made of cast iron or pre-cast concrete.	1	Each		
48	CONCRETE PAVER.				
	Providing and laying of pavers size 4"x8" having 3" thick best quality made of envicrete/ hub crete or equvilant with sand cusion approved colour over 2" thick p.c.c avg: and grouting in cement complete in all respect.		Sft		
49	EXCAVATION IN FOUNDATION.				
	Excavation in all types of soil and up to any depth including removal of excavated material from site at desired location, job complete in all respects.		cft		
50	EARTH FILLING.				
	Providing / filling earth from out side and leveling the plot and compact sweet earth with viberator and watering, each layer having 6" thickness. Complete in all respect as per entire satisfcation.	0	P.Cft		
51	STONE SOLING.				

	Providing and Laying Stone soling 6" thick including compaction, watering as in foundation complete in all respect	0	cft		
	DAMP PROOF COURSE (DPC)				
51-i	Providing and Laying of damp proof course of Cem. Con, 1:2:4 (2" Thick), including bitumen coating followed by 1 layer of polythene sheet of specified gauge complete in all respect		sft		
	CPC/ UTILITY COUNTER				
52	Fabrication of cash sorting / binding machine counter wide 36" High 32" deep made up brick/ solid block masonry 3" thick wall and R C C slab finished with 3/4" pre-polished Cherry Pink /Galaxy Granite on working top with nosing, grit white matt finish tiles as on floor and sides of utility counter with D-48 Aluminum section best quality as per sketch / specification. as per entire satisfaction of Engineer Incharge.	0	Rft		
	IMPORTED FROST PAPER				
53	P/F imported glass paper at required places, job complete in all respects	200	sft		
	NBP LOGO'S				
54	P/F NBP Glass logos of approved standards & design	10	No		
	SS PLANTERS.				
55	Providing SS planters Non- Magnetic of approved dia, size and standards job complete in all respects as directed by Engineer Incharge.	3	Nos.		
	SS TRASH BINS.				
56	Providing SS Trash bin Non Magnetic of approved size and shape, complete in all respects	3	Nos.		
	ENEMAL PAINT				
57	Providing and applying Paint on internal/ External walls, steel/wooden structures of ICI or Berger including rubbing with sand stone, filling the uneven surfaces with putty, rubbing with sand paper and preparation of surface perfect in all respects, applying one coat of primer on prepared surface of plastered and finish paint coats as indicated in sub items, complete in all respects as per drawings.	150	Sft		
58	RAMP TILES				

	P/F tiles Class "A" size 12"x12" of approved quality. Colour and design on floors in drybond or 1:1 cement mortar i/c 1-1/2" thick C.C. 1:2:4 average base including cost of all material , labour, transportation complete in all respects.	35	Sft		
	STANDARD STRONG ROOM DOOR				
59	Supply and installation i/c transportation of standard strong room / locker room door of size 7' x 4' x 11", the main frame should be of 9mm thickness angle or U-channel and 6mm thickness main shutter a composite of outer 6mm and inner 3mm. The space between outer and inner sheet should be filled with fire proof material, tale and alum crystals. The outer 6mm plate is reinforced with 3mm thick anti-torch material plate in the locking regions. The lock area should be protected with 1/8x27x30 inch copper sheet. Thickness of door slab is 2". Locking box wall made of wide 4" M.S sheet plate covered with 3mm BS sheet two brass locks with triple control locking system. Hinges made from 2-1/2" dia solid steel bars 9" in length & 12" long 4" wide flat bars with all bearings. Locking system triple control 2 way locking system. Made of 2.5" x 2.5" x 6mm angle iron 2-1/2" long 1-1/2" steel shooting bolts fixed on it with total no 11 bolts 6 at front & 5 at rear. Grill door, main frame and 08 Nos. supporting strips should be of 1/2" M.S Plates with 6/8" solid rounds bars 13-14 at brass locks with master control keys operation with grill door i/c exact alignment, plumb, welding. Placement of strong room door in vertical position in the opening of the strong room with chain kopi and welding of the the angle bars with steel bars of the strong room bars.	1	Each		
60	3D-VIEW DESIGN/DRAWINGS				

	"To Prepare & Submit colored 3D-view design/drawings of the exterior and interior of the project in both Hard & soft copy form, based on the approved Layout Plan of the project & Standard materials been specified in the BOQ of the same. The design should consists of and not limited to the Elevation of the branch, False Ceiling design, Floor Design, Column & Wall Cladding design , over all general view of the interior of the branch, Washroom & Kitchen design etc. The submitted 3D-view design / drawings shall require to be reviewed and approved by the NBP's Engineering Staff and if advised necessary revisions shall be incorporated till the designs / drawing are approved. The finishing of project is mandatory to be in accordance to the approved 3D design and drawings"		Job		
	TOTAL COST OF CIVIL WORKS				

PLUMBING WORKS

S.NO	DESCRIPTION/SPECIFICATION	QTY	UNIT	RATE	AMOUNT
	<u>SECTION-01, SUPPLY & INSTALLATION OF PLUMBING FIXTURES</u>				
	Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications of Consultant.				
1.1	European style W.C. floor mounted type, with seat cover, flush tank, cover plate floor mounted brackets with fixing accessories.				
i.	Type - EWC	1	Nos.		
ii.	P/F ORISA type W.C Manufactured by Master / PORTA Ceramic or equivalent approved quality with integral tread 19" clear opening as measured between flushing rims, C.I. Trap 4" dia Gallons capacity low level flushing cistern of same manufacturers making good in cement concrete (1:2:4) complete.	0	Nos.		
1.2	European style W.C. wall hung type, with seat cover, flush tank, cover plate floor mounted brackets with fixing accessories.				
i.	Type - EWC-WH	0	Nos.		
1.3	Toilet Hand Spray with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect.				
i.	Type - TS	1	Nos.		
1.4	Wash basin (WB) including bottle trap, waste, stop cocks, etc.				
i.	Type - WB	0	Nos.		
ii.	Type - WB - V (Vanity)	1	Nos.		
1.5	Wash basin hot and cold water mixer, etc.				
i.	Type - WB	0	Nos.		
ii.	Type - WB - V (Vanity)	1	Nos.		
iii.	Double Bib Cock for Wash Room	1	Nos.		
1.6	Stainless steel kitchen sink including stop cocks, P-trap / Bottle trap, waste pipe etc complete in all respects.				
i	SK - 1, 40" x 20" single bowl and single drainer.	1	Nos.		
1.7	Sink hot and cold water mixer etc.				
i.	For SK - I	1	Nos.		

1.8	Toilet accessories complete set.				
i.	Soap Dispenser	1	Nos.		
ii.	Towel Rod	1	Nos.		
iii.	Paper Holder	1	Nos.		
iv.	Coat Hooks	1	Nos.		
v.	Hand Dryer	1	Nos.		
vi.	P/F Looking Mirror best quality balgium made fixed with clips complete in all respect and size as per site requirement	10	Sft		
	SECTION-02 WATER SUPPLY SYSTEM				
	Supply, installation, testing and commissioning of complete pipe work for cold and hot water system including all accessories required to complete systems ready to operate as per specification, drawings & instruction of Consultant.				
2.1	Polypropylene Random PP-R pipes PN 20 and fittings with fusion jointing along with all types of unions, tees, bends, sockets, clamps hangers, supports, sleeves, masking plates, chiseling, making holes making good, excavation, bedding backfilling as required complete in all respect.				
i.	Dia. OD 25 mm (also for A.C Drainage)	150	Rft		
ii.	Dia. OD 32 mm (also for A.C Drainage)	100	Rft		
iii.	Dia. OD 40 mm	30	Rft		
iv.	Dia. OD 50 mm		Rft		
v.	Dia. OD 63 mm		Rft		
2.2	Same as above item 2.1 but polypropylene Random PP-R (PN-25) reinforced with Aluminum foil for hot water.				
i.	Dia. OD 25 mm	50	Rft		
ii.	Dia. OD 32 mm	30	Rft		
iii.	Dia. OD 40 mm		Rft		
2.3	Expanded rubber foam insulation 1/2" thick for following pipes sizes complete with PVC tape wrapping protection				
i.	Dia. OD 25 mm	20	Rft		
ii.	Dia. OD 32 mm	10	Rft		
iii.	Dia. OD 40 mm		Rft		

2.4	Providing & fixing joining testing G.I. pipe lines for water supply as per BS 1387 medium quality ILL. Including specials sockets tee, elbow, bedn, reducer plug and union etc) supported on walls suspended from roof slab, including protective coating as per drawing and specification including color coding complete in all respect.				
i.	Dia. 1-1/2"	0	Rft		
ii.	Dia. 1-1/4"	0	Rft		
iii.	Dia. 2"		Rft		
iv.	Dia.3"		Rft		
2.5	Brass body gate valves / ball valves with unions.				
i.	Size 3/4"	1	Nos.		
ii.	Size 1"	1	Nos.		
iii.	Size 1-1/4"		Nos.		
iv.	Size 1-1/2"		Nos.		
v.	Size 2"		Nos.		
vi.	Size 3" (CI body)		Nos.		
2.6	Brass body check valve				
i.	Size 3"		Nos.		
2.7	C.I. Cover with frame for under ground tank & over head tank.				
i.	Round Dia 21" (weight 27 kg)	0	Nos.		
2.8	Goose neck for O/H tank				
i.	Dia 4"		Nos.		
2.9	Supply and Installation of hot water storage heater (Electric) suitable for 60 psi working pressure including thermostate, inlet/outlet connection . Pressure relief valve.				
i.	HWE-10 (10 Gal. storage Capacity)	1	Nos.		
ii.	HWE-20 (20 Gal. storage Capacity)	0	Nos.		
II	P/F 3 ply Water tank having minimum 500 gallons capacity approved company with all accessories including transportation, fixing at site, connection with pipes all things complete etc. as directed by Engineer.	0	Nos.		

2.10	Water transfer pump with electric motor including C.C foundation, inlet outlet connections , valve, unions , flexible rubber connector, pressure gauge, electrical connection with all fixing accessories, water proof electrical connection with all fixing accessories, water proof electrical panel with pump starter automatic filling control system for (U/G and O/H) tanks low and high level , auto stop with overflow, complete in all respects ready to operate.				
i.	WP-01 42 gpm 50 feet head		Nos.		
	<u>SECTION-03 SOIL, WASTE AND RAIN WATER DRAINAGE SYSTEM</u>				
	Supply, fixing, testing and commissioning of equipment, pipe work required to complete the soil, waste, vent and rain water systems in all respects with accessories ready to operate as per specifications, drawings instructions of Consultant.				
3.1	UPVC pipes of approved make along with specials, fittings bends wye, tees sockets , sleeves, masking plates, chiseling , making hole excavation, backfilling making good where as required jointing with rubber ring seal.				
i.	Dia 1-1/2"		Rft		
ii.	Dia 2"	20	Rft		
iii.	Dia 3"	50	Rft		
iv.	Dia 4"	100	Rft		
3.2	Floor trap including S.S grating floor trap, inlet outlet connection complete in all respects.				
i.	FT- with 4" P - trap	2	Nos.		
3.3	Cleanout for soil, waste pipes of approved make				
i.	For 2" di. Pipe. With SS floor cover plate	0	Nos.		
ii.	For 4" di. Pipe. With SS floor cover plate	0	Nos.		
3.5	UPVC rain water grating of approved design with dome type grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary to the structure complete including gasket and clamp complete.				
i.	RWG - 4" size	1	Nos.		

3.6	UPVC cowl for vent pipe of the following dia including all accessories complete.				
i.	size 3"	1	Nos.		
ii.	size 4"	1	Nos.		
	<u>SECTION-04 EXTERNAL SEWER & MANHOLES</u>				
	Supply, fixing, testing and commissioning of equipment, pipe work required to complete the sewerage disposal services in all respects with accessories ready to operate as per specifications, drawings instructions of Consultant.				
4.1	UPVC pipe class "D" for Sewer drainage with push fit rubber joints including excavation in any type of soi, dewatering if required bedding, back filling with selected material, removing of extra materials..				
i.	Dia 6" size	15	Rft		
ii.	Dia 8" size	0	Rft		
4.2	Construction of Gully Trap with material including, excavation , 4" size UPVC P-trap CC base CI cover with frame, CC benching water proof internal plaster inlet/outlet connections etc.				
i.	Type GT, size 10" x 10 "	1	Nos.		
4.3	Construciton of manholes with material including, excavation, base top RCC slab CI cover with frame, GI steps, CC benching water proof internal plaster inlet/outlet connections etc.				
i.	size 18" x 18 "	1	Nos.		
ii.	size 24" x 24 "	1	Nos.		
4.4	Construction of RCC septic tank (15' x 10' x 6' water depth) with material including, excavation, base top slab bedding, GI steps, CI double covers, internal CC water proof plasters, uPVC tees, CC benching, inlet/outlet connection etc, complete in all respects.	0	Nos.		
	<u>SECTION-05 SUNDRIES</u>				
	Contractor will priced the sundries items for all plumbing & Sanitary (P&S) services as per specifications, drawings and instruction of consultant.				

5.1	Submittals, samples, shop drawings, inspection, As built drawings operation and maintenance manuals and the like as required by specification.	0	Job		
5.2	Painting , identificalton and tagging to the P&S installations and equipments.	0	Job		
5.3	Testing and commissioning entire P&S installation as per Engineer's approval.	0	Job		
5.4	Builders work in connection with P&S installation including foundation, bases inertia blocks, core cuttings all sleeves, fire resistant sealant, fire stops requirements etc.		Job		
5.5	Maintenance of the complete P&S works installation as specified (o1 month)		Job		
	TOTAL COST OF PLUMBING WORKS				

ELECTRICAL WORKS

Item No.	Description	Unit	Quantity	Unit Rate	Amount
PART A	WIRING WORKS				
A-1	ELECTRICAL WIRING				
	Supply, laying, connection and testing of following wiring types; in heavy duty PVC Conduit recessed in walls, columns, slabs, floors or fixed at Ceiling above false ceiling or in Dura duct if exposed on walls, with all necessary fixing accessories, conduit/duct accessories, pull boxes, steel pull wires complete in all respects, required as per site conditions. with make/brand of material being specified in Annexure A. (PVC insulated Copper - 300/500 Volt Grade Wires to be used)				
A-1-1	(a) Circuit Wiring (For Switchboard/Light Plug etc.)				
	From DB to Switch Board or 2/3 pin Light Plug (5/10/13A) to be wired with 2x2.5 sq.mm S/C wires and 1 X 2.5 sq.mm S/C wire of Green/Yellow Colour as Circuit Protective Conductor (CPC) in 25 mm dia. heavy duty PVC conduit Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 25 mm dia. PVC conduit.	Nos.	9		
	(b) Switch Board to Switch Board OR Switch Board to Light plug etc. Circuit Wiring				
	Same as item No. A-1-1 (a) but from point to point i.e. Switchboard to Switchboard/Light Plug or Light Plug to Light Plug. (Side by Side or Back to Back Wiring points will not be payable and will be considered to be included in item No. A-1-1 (a))	Nos.	2		

	(c)	Strong & Locker Rooms Wiring Circuit			
		Same as item No A-1-1 (a) but including 40/.076 Cable with 20 A Switch Socket Outlet (SSO), back box etc. for connection to Switchboard in Strong & Locker Rooms complete with connections in all respects.	Nos.	1	
A-1-2	(a)	Point Wiring (Light/Fan etc.)			
		From Switchboard to 1st Point (Light/Fan) with 1 x 1.5 sq.mm S/C wire from Piano Switch and 1 x 2.5 sq.mm wire common neutral including i/c P/F 10A Piano Switch in 20 mm dia. heavy duty PVC conduit, recessed in walls, columns, slabs, floors or fixed at Ceiling above false ceiling with all necessary fixing accessories, conduit accessories, 75 mm high PVC junction boxes, pull boxes, steel pull wires, connectors, M.S. sheet steel switch box 16 SWG with earth terminal with 2 coats of powder coating of orange colour, M.S. box shall be of the same size as that of 1, 2 or 3 upto 6 gangs flush type plate switches complete in all respects, required as per site conditions. (In case of point wiring at Ceiling, 2 X 1.5 sq.mm wires in Flexible Conduit from junction box equiped with PVC gland to light/fan fixture, will also have to be provided). Maximum wiring of 6 points (light/fan) can be pulled through 20 mm dia. PVC conduit.	Nos.	40	
	(b)	Point to Point Wiring (Light/Fan etc.)			
		Same as item No. A-1-2 (a) but from Point to Point and without including cost of Switch and M.S. sheet steel switch box 16 SW. (Maximum	Nos.	75	

		of 05 points can be connected with 1st Point)				
A-1-3	(a)	Wiring Circuit for 1 x 13/15/16 A Simplex/Duplex - Switch Socket Outlet (SSO) installed at Wall/Workstation/Floor Box etc. or any other purpose.				
	(i)	From DB to SSO with 2 x 2.5 sq.mm S/C wire + 1 x 2.5 sq.mm S/C wire of Green/Yellow Colour as Circuit Protective Conductor (CPC) in 25 mm dia. heavy duty PVC conduit, recessed in walls, columns, slabs, floors or fixed at Ceiling above false ceiling with all necessary fixing accessories, conduit accessories, pull boxes, steel pull wires complete in all respects, required as per site conditions. Each circuit shall have independent CPC. (Maximum wiring of 3 circuits can be pulled through 25 mm dia. PVC conduit).	Nos.	10		
	(ii)	Same as item No. A-1-3 (a) (i), but from Point to Point i.e. 1st SSO to 2nd SSO and onwards. (Side by Side or Back to Back Wiring points will not be payable and will be considered to be included in item No. A-1-3 (a) (i) (Maximum of 03 SSO can be connected with 1st SSO).	Nos.	6		
	(b)	Wiring Circuit for 1 x 20 A Switch Socket Outlet (SSO) for AC connection or any other purpose				

		From DB to SSO with 2 x 4.0 sq.mm S/C wire + 1 x 2.5 sq.mm S/C wire of Green/Yellow Colour as Circuit Protective Conductor (CPC) in 25 mm dia. heavy duty PVC conduit, recessed in walls, columns, slabs, floors or fixed at Ceiling above false ceiling with all necessary fixing accessories, conduit accessories, pull boxes, steel pull wires complete in all respects, required as per site conditions. Each circuit shall have independent CPC. (Maximum wiring of 2 circuits can be pulled through 25 mm dia. PVC conduit).	Nos.	7		
	(ii)	Same as item No. A-1-3 (b), but from Point to Point I.e. 1st SSO to 2nd SSO. (Side by Side or Back to Back Wiring points will not be payable and will be considered to be included in item No. A-1-3 (c) (Maximum of 01 SSO can be connected with 1st SSO). This can be used for Heater connection as well.	Nos.	4		
A-1-5	(a)	Wiring for Industrial Sockets for UPS Connections				
	(i)	From UPS DB to Branch UPS I/O Connections (two connections) with 1 x 6.0 sq.mm 3 Core wire in 25 mm dia. heavy duty PVC conduit or PVC Dura duct (appropriate size), with all necessary fixing accessories, complete in all respects, required as per site conditions.	Rft.	80		

	(ii)	From ATM DB/Branch UPS DB/Branch UPS to ATM UPS I/O Connections (two connections) with 1 x 4.0 sq.mm 3 Core PVC/PVC insulated wire in 20 mm dia. heavy duty PVC conduit or PVC Dura duct (appropriate size), with all necessary fixing accessories, complete in all respects, required as per site conditions.	Rft.	100		
	(b)	Wiring from Main DB to UPS DB or any other purpose.				
		Wiring with 1 x 6.0 sq.mm 3 Core PVC/PVC insulated wire in 25 mm dia. heavy duty PVC conduit or PVC Dura duct (appropriate size), with all necessary fixing accessories, complete in all respects, required as per site conditions.	Rft.	30		
A-2	DATA / VOICE / TV WIRING					
	Supply, laying, connection and testing of following wiring types; with make/brand of material being specified in Annexure A.					
A-2-1	(a)	Data points/outlets				
		Wiring for each Data point from Communication Rack (Patch Panel) to each Data point on wall or in M.S floor outlet box with 4 pair Cat. 6E 23 AWG cable in 20 mm dia. heavy duty PVC conduit recessed in walls, columns, slabs, floors or above false ceiling with all necessary fixing accessories as required as per site condition, complete in all respects.	Nos.	16		
	(b)	Voice points/outlets				

	Wiring for each Voice point from Telephone Junction Box to each telephone point on wall or in M.S floor outlet box or in Data Cabinet/Communication (Wall mounted or Floor Standing) with 4 pair Cat. 6E 23 AWG cable in 20 mm dia. heavy duty PVC conduit recessed in walls, columns, slabs, floors or above false ceiling with all necessary fixing accessories as required as per site condition, complete in all respects.	Nos.	7		
A-2-2	Main Telephone Cable Supply, installation and connection of 10 pair telephone cable to be connected from Utility MDF to Telephone Junction Box (TJB) in 25 mm dia PVC conduit including cost of identification tags, all necessary material / accessories complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly checked by Engineer Incharge.	Rft.	150		
A-2-3	TV Point Wiring (For Waiting Hall Area) Wiring for wall mounted TV outlets wired with RG-6 / RG-7 cable or as directed by the Engineer from TV Cable Splitter/distribution to each TV point, including 20 mm dia. heavy duty PVC conduit, recessed in walls, floors, column or as required as per site conditions, all PVC conduit accessories, pull boxes, steel wires etc. complete in all respects.	Nos.	2		

PART B	MAIN / SUB MAIN CABLES
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B-1

ELECTRICAL LT CABLING

P/L, connection, testing and commissioning of PVC insulated PVC sheathed non armoured copper conductor power cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in Annexure A. The cable would be recessed in walls, columns, slabs, floors or fixed at Ceiling above false ceiling with all necessary fixing accessories either in already laid PVC Conduit/Dura duct or otherwise openly laid complete in all respects, required as per site conditions. and approval of Engineer Incharge 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. Actual length of cables to be laid shall be practically measured at site by the Contractor, duly authenticated by the Electrical Engineer / Engineer Incharge / Supervisor before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length laid.

(a)	4 Core 10 sq.mm	Rft.			
(b)	4 Core 16 sq.mm	Rft.			
(c)	4 Core 25 sq.mm	Rft.	40		
(d)	4 Core 35 sq.mm	Rft.			
(e)	4 Core 50 sq.mm	Rft.			
(f)	1 Core 6 sq.mm Green/Yellow Colour as CPC	Rft.			
(g)	1 Core 10 sq.mm Green/Yellow Colour as CPC	Rft.	40		
(h)	Cable Connector (Copper to Silver Cable 70 & 25)	No	4		

PART C	FITTINGS, FIXTURES & ACCESSORIES				
	Supply, Installation, testing and commissioning of following fittings/fixtures as per specified brand/make given in Annexure "A" recessed in or on wall / ceiling / column etc. complete in all respects, duly approved by Engineer Incharge prior to installaion.				
C-1	LIGHTS				
	(The temperature / Colour Index to be got confirmed from Site Engineer before installation)				
	(a) Ceiling mounted LED Panel Light - 48W - 610 x 610 mm (Warm White/Warm/DayLight) recessed in False Ceiling	Nos.	24		
	(b) Same as C-1 (a) but surface mounted	Nos.	0		
	(c) Ceiling mounted LED Down Light - 18/20W - 20 mm dia (Warm White/Warm/DayLight) recessed in False Ceiling	Nos.	60		
	(d) Same as C-1 (c) but Surface mounted	Nos.			
	(e) Ceiling mounted LED Down Light - 10/12W - 15 mm dia (Warm White/Warm/DayLight) recessed in false Ceiling	Nos.			
	(f) Same as C-1 (e) but Surface mounted	Nos.			
	(g) Ceiling mounted LED Spot Light - 7/8W - 7-8 mm dia (Warm White/Warm/DayLight) recessed in False Ceiling	Nos.	125		
	(h) Same as C-1 (g) but Surface mounted	Nos.			
C-2	FANS				
	(a) False Ceiling Fan 14/16 " sweep, Size(2'X2')	Nos.	10		
	(b) Ceiling Fan 56" sweep, complete with capacitor, hanging rod, canopy, blades, ceiling hook, dimmers nuts and bolts etc.	Nos.	0		

	(c)	Wall Bracket Fan 18" sweep - Plastic body louver type	Nos.			
	(d)	Same as C-2 (c) but Metal Body.	Nos.			
	(e)	PVC Duct Exhaust Fan 10" with all fitting acesories	Nos.	2		
	(f)	Same as C-2 (e) but 12" sweep.	Nos.			
C-3	POWER SOCKETS					
C-3-1		Switch Socket Outlet				
		Following SSO complete with back box i.e. M.S. box, made of 16 SWG sheet steel with earth terminal having 2 coats of powder coating of orange colour, M.S. box shall be of the same size as that of SSO.				
	(a)	5 A - 2 Pin Round type SSO (for General Use)	Nos.			
	(b)	10/13 - 3 Pin round type SSO (for General Use)	Nos.			
	(c)	13A Duplex SSO - 3 Pin Flat type / Universal type (for UPS Power)	Nos.			
	(d)	Same as item No. C-3-1 (b) but Simplex SSO (for Normal Power)	Nos.	45		
	(e)	30/32 Amp Wall Switch Button (SSO)(for AC or General Purpose)	Nos.	5		
	(f)	Same as item No. C-3-1 (e) but 20 A Rating	Nos.			
	(g)	Same as item No. C-3-1 (e) but 30 A Rating/ Industrial Sockets/4 Pole Isolater	Nos.	8		
C-3-2		Industrial Sockets (Branch & ATM UPS)				
		Following Industrial Socket Unit (Male & Female Complete Set) complete with back box i.e. M.S. box, made of 16 SWG sheet steel with earth terminal having 2 coats of powder coating of orange colour.				
	(a)	32 A, 3 Pin	Nos.	4		

	(b)	Same as item No. C-3-2 (a) but 16 A Rating	Nos.	0		
C-4	CABLE CONTAINMENT					
C-4-1		P.V.C. Conduit / Dura Duct				
		Supply and installation of following sizes of heavy duty PVC conduits recessed in walls, columns, slabs, floors or fixed at Ceiling above false ceiling or in Dura duct if exposed on walls, with all necessary fixing accessories, conduit/duct accessories, such as junction box, bend, socket, saddle, screws etc. complete in all respects as per site requirement and as per brand/make of material specified in Annexure "A" (These PVC Conduits & Duraducts will be used if missed or not included in any of the item's description of this BOQ)				
	(a)	20 mm dia PVC Conduit	Rft.			
	(b)	25 mm dia PVC Conduit	Rft.			
	(c)	33 mm dia PVC Conduit.	Rft.			
	(d)	38 mm dia PVC Conduit.	Rft.			
	(e)	50 mm dia PVC Conduit.	Rft.			
	(f)	75 mm dia PVC Conduit.	Rft.	75		
	(g)	16 x 16 mm Dura duct with cover	Rft.			
	(h)	16 x 25 mm Dura duct with cover	Rft.			
	(i)	16 x 38 mm Dura duct with cover	Rft.			
	(j)	25 x 25 mm Dura duct with cover	Rft.			
	(k)	25 x 38 mm Dura duct with cover	Rft.			
	(l)	33 x 33 mm Dura duct with cover	Rft.			
	(m)	40 x 40 mm Dura duct with cover	Rft.			
	(n)	50 x 50 mm Dura duct with	Rft.			

		cover				
	(o)	60 x 40 mm Dura duct with cover	Rft.			
	(p)	60 x 60 mm Dura duct with cover	Rft.	75		
C-4-2		Floor Box				
		Fabrication, supply and installation of Floor Box i.e. M.S Box made of mild steel 16 SWG duly painted initially with Red Oxide and finally with approved Colour of appropriate size but not less than 10" x 10" x 4-1/2" deep with openable hinged cover 2.5mm thick, all necessary materials / arrangements for fixation of sockets, holes for passage of outgoing cables, rubber, grommet, earthing terminal, and partition made of backlite. Boxes shall be installed flush with floor and should be suitable for installation of following number of Simplex SSOs or Face Plates. (The cost of SSOs or Face Plates not be included)				
	(a)	Four Nos. Simplex SSOs or Face Plates.				
	(b)	Same as item No. C-4-2 (a) but for Five - SSOs/Face Plates				
	(c)	Same as item No. C-4-2 (a) but for Six - SSOs/Face Plates		3		
C-4-3		TECHNOLOGICAL BOX				
		Fabrication, supply and installation of Technological Box i.e. M.S Box made of M.S 16 SWG duly painted initially with Red Oxide and finally with approved Colour of appropriate size suitable for fixation of following number of Switch Socket Outlets / Face Plates etc.				

		having holes for passage of outgoing cables, rubber, grommet, earthing terminal, and partition made of backlite. (The cost of SSOs or Face Plates not be included)				
	(a)	Four Nos. Simplex SSOs or Face Plates.	Nos.			
	(b)	Same as item No. C-4-3 (a) but for Five - SSOs/Face Plates	Nos.			
	(c)	Same as item No. C-4-3 (a) but for Six - SSOs/Face Plates	Nos.	4		
C-4-4		PULL BOX				
		Fabrication, supply and installation of Pull Box i.e. M.S Box made of 16 SWG sheet having heavy duty SS Top Cover of 16 SWG Sheet of following size, complete in all respects as per site requirements.				
	(a)	300 mm x 300 mm x 62 mm	Nos.			
C-5		DATA / VOICE FIXTURES				
C-5-1		Face Plates with I/Os				
		Following Face Plates white/off white finish, complete with shuttered Click-ins, labels and all accessories including back box i.e. M.S. box, made of 16 SWG sheet steel having 2 coats of powder coating of orange colour. M.S. box shall be of the same size as that of Face Plate.				
	(a)	Dual Face Plate with I/Os (1 x RJ45 and 1 x RJ11)	Nos.			
	(b)	Same as item No. C-5-1 (a) but with I/Os (2 x RJ45)	Nos.	14		
	(c)	Same as item No. C-5-1 (a) but with I/Os (2 x RJ11)	Nos.	7		
	(d)	Simplex Face Plate with 1 x RJ45 I/O	Nos.			

	(e)	Same as item No. C-5-1 (d) but with 1 x RJ11 I/O	Nos.			
	(f)	Simplex Face Plate with RG-6 / RG-7 Connector for TV Cable	Nos.	2		
C-5-2		Supply of Patch / Drop Cords				
		Factory tested (imported) Cords of Cat6 - 23 AWG Cable of following sizes				
	(a)	01 meter Patch Cord	Nos.	8		
	(b)	03 meter Drop Cord	Nos.			
C-5-3		Racks and Panels (Old Rack will bw reused)				
	(a)	19" Rack for Data Communication (Rack Shifting is included in scope)				
		Supply and Installation of 19" - Communication Rack made of M.S Frame, Glass Door, Pull Handle, supported by perforated sides / M.S Cover of following size:				
	(ii)	15U Wall Mounted (shifting charges only)	Nos.	1		
	(b)	Thermostatic type Exhaust/Cooling Fans				
		Supply and Installation of Thermostatic type Exhaust/Cooling Fans in Communication Rack, with proper connections, complete in all respects	Nos.	2		
	(c)	PDU				
		Supply of PDU with 04 x 13 A Flat Pin or International Type Switch Sockets for Communication Rack	Nos.	2		
	(d)	Front Cable Manager				
		Supply and Installation of Front Cable Manager in Communication Rack with proper labelling / tagging / harnessing.	Nos.	1		
	(e)	Patch Panel				

		Supply and Installation of 24 Port - Patch Panel - in Communication Rack with proper labelling / tagging / harnessing.				
	(i)	Unloaded (Without I/Os)	Nos.			
	(ii)	Loaded (With 24 I/Os)	Nos.	1		
	(f)	RJ-45 I/Os for Patch Panel	Nos.			
C-5-4		Telephone Junction Box (TJB)				
		Supply, installation and commissioning of Telephone Junction Box vermin and dust proof, made of M.S 18 SWG sheet with door, handle, anti-rust paint and 2 coats of enamelled paint, locking arrangement, all fixing accessories for following pairs telephone terminal strips (KRONE Strip) with tagging/marketing arrangements including cost of all necessary material to connect incoming and outgoing telephone cables, complete in all respect				
		1 x 10 Pair	Nos.	1		

PART D	DISTRIBUTION BOARDS AND INTERNAL COMPONENTS					
D-1	DISTRIBUTION BOARDS (DBs) Included Surge Protection Devices					
		Fabrication, Supply and installation of DBs from the Manufacturer's Names specified in Annexure "A" at designated walls concealed or opened, made up of M.S Sheet of 16 SWG, with flexible earthing straps, degreased and de-rusted, zinc phosphated, finished with electrostatic powder coating of 15 microns thickness in approved colour, housing to comply with Protection Class IP-40, with hinged door, lockable handle, all auxiliaries, internal wiring,				

	combs, designation labels on breakers, earthing bar, numbering beads on the control wires, suitable for System Voltage of 415 V, 50 Hz, 3/1 Phase and earthing with 01 or 02 neutral bus bars of 99.98% pure electrolytic Copper, including appropriate size Cable termination lugs and brass cable glands for incoming and outgoing cables, wiring from breakers, indication lamps (Voltmeter type with voltage reading) and fuses, with M.S Sheet cover beneath front door, gaskets shall also be provided, where necessary, complete in all respects as per Site requirement and approval of Bank's Engineer Incharge.				
	(a)	Size 15" x 18"	Nos.		
	(b)	Size 15" x 21"	Nos.		
	(c)	Size 15" x 24"	Nos.		
	(d)	Size 18" x 21"	Nos.		
	(e)	Size 18" x 24"	Nos.	2	
	(f)	Size 18" x 36"	Nos.	2	
	(g)	Size 24" x 36"	Nos.		
	(h)	Size 42" x 48"	Nos.		
D-2	INTERNAL COMPONENTS OF DBs				
	Providing, installation, testing and commissioning of following Components as per brands/makes specified in Annexure "A" in already installed or to be installed DBs with proper connections and tagging, complete in all respects, as per Site requirements and prior approval of Bank's Engineer Incharge. (Included Surge Protection Devices)				
D-2-1		Miniature Circuit Breakers (MCBs) Rail Type, C Type, 6 K - RC			
	(a)	Single Pole (SP) - RC-6 KA			
	(i)	6/10 A	Nos.	15	
	(ii)	16/20/32 A	Nos.	15	

	(iii)	40 A	Nos.			
	(b)	Double Pole (DP) - RC - 10 KA				
	(i)	16/32 A	Nos.	5		
	(c)	Three Pole (TP) - RC - 10 KA				
	(i)	16/20/32/40 A	Nos.			
	(ii)	63 A	Nos.			
D-2-2		Moulded Case Circuit Breakers (MCCBs)TP, C Type, RC - 10 KA				
	(a)	40/50/60 A	Nos.			
	(b)	75/100 A	Nos.	2		
	(c)	150/200A (18KA)	Nos.			
D-2-3		Four Position Phase Selector Switch - (0-1-2-3-4)				
	(a)	32 A	Nos.			
	(b)	40/50 A	Nos.			
	(c)	63 A	Nos.			
	(d)	75/80 A	Nos.			
	(e)	100 A	Nos.			
D-2-4		Change Over Switch 1-0-2				
	(a)	Double Pole (DP)				
	(i)	16 A	Nos.			
	(ii)	32 A	Nos.			
	(b)	Four Pole (FP)				
	(i)	32 A	Nos.			
	(ii)	40/50 A				
	(iii)	63 A	Nos.	1		

PART E	BURGLAR ALARM SYSTEM
E-1	WIRING

	Supply, laying, connection and testing of following wiring types; in already laid heavy duty PVC Conduit recessed in walls, columns, slabs, floors or fixed at Ceiling above false ceiling or in already laid Dura duct if exposed on walls, with all necessary fixing accessories, conduit/duct accessories, pull boxes, steel pull wires complete in all respects, required as per site conditions. with make/brand of material being specified in Annexure A. due in consultation with & recommendation of any one of Bank's approved Security Company for different security sensing components, devices, sirens, smoke detector etc. complete with connections in all respect.				
	(a) 1 x 5 Pair Cable	Rft.	300		
	(b) 1 x 2 Pair Cable	Rft.			
E-2	DEVICES / COMPONENTS ETC.				
	P/F & connections of undernoted security sensing components, devices and siren etc. with the consultation & recommendations of one of the Bank's approved Security Company, complete with testing & commissioning in all respects.				
	(a) Alarm Panel DSC with Keypad	Nos.	1		
	(b) PCB - DSC	Nos.	1		
	(c) Keypad Extra (DSC)	Nos.	1		
	(d) Battery 12Volts 6/7 Ah	Nos.	1		
	(e) Regulated Power Supply	Nos.	1		
	(f) Magnetic Contact (Flush)	Nos.	2		
	(g) Magnetic Contact (Surface)	Nos.	2		
	(h) Audible Warning Device (Siren)	Nos.	3		
	(i) Foot Panic switch	Nos.	3		
	(j) Panic Switch (Fixed)	Nos.	2		
	(k) Passive Infrared Detector (PIR)	Nos.	3		

	(l)	Auto Telephone Switch (ATS)	Nos.	1		
	(m)	Smoke Detectors	Nos.	8		
	(n)	Heat Detector	Nos.	2		
PART F	EARTHING SYSTEM					
	Supply, installation, testing and commissioning of Earthing / Grounding System including all material, boring, labor, tools, transportation, construction of appropriate sized Main Hole Pit (1' x 1' or 13" dia) with CI Cover, other accessories etc. Complete in all respects with detailed test report. The Earth Resistance should be below 05-OHM / Neutral to Ground potential less than 03V otherwise earthing would not be acceptable and neither payable.					
F-1	CHEMICAL TYPE					
	Supply, installation, testing and commissioning of Chemical Enhanced Earthing System comprises of the following:					
	(a)	1-1/2" dia - 10 ft Copper pipe filled with soil conditioning material/chemical with termination Clamps for Wire connections.	Job	0		
	(b)	11 ft or more boring of 6" dia and placing above Copper pipe in it.				
	(c)	Back filling of 6" dia boring with Chemical to enhance Conductivity.				
	(d)	Fixing of 02 Nos. Copper Equipotential bars made with 150 mm wide, 50 mm high, 5 mm thick Earth Connecting Points (ECP) respectively with holes for fixing of Copper Conductor.				
	(e)	Interconnection of ECP with termination Clamps of Chemical Pipe with 2 x 8 SWG Solid Copper Conductor or 2 x 10 sq.mm bare flexible Copper				

	Conductor				
OR					
F-2	COPPER PLATE OR ROD TYPE				
	P/M Earth system with 10' long 3/4" dia copper bar as required complete with connections with 2 x 10 mmsq. bare flexible copper conductor or 2 x 8 SWG solid copper conductor in 1"dia PVC conduit (holes at every 1") upto permanent water table, terminated on ECPs, with suitable watering arrangement complete as per site requirement or equivalent method i.e by excavation of dig of appropriate size, with copper plate (1-1/2' x 1-1/2' x 1/4"), earth material (salt, coal 15 Kg each & nitric acid 4 liter), appropriate size PVC conduit with tee etc and Fixing of 02 Nos. Copper Equipotential bars made with 150 mm wide, 50 mm high, 5 mm thick Earth Connecting Points (ECP) respectively with holes for fixing of Copper Conductor.as directed by Engineer Incharge.	Job	2		
PART G	MISCELLANEOUS ITEMS				
G-1	FIRE EXTINGUISHER				
	Providing & placement / fixing of under noted Fire Extinguishers at selected/identified locations by the Engineer Incharge.				
	a	Dry Chemical Powder (DCP) portable type 06Kg	Each	2	
	b	CO2 Fire Extinguisher 06 Kg alongwith wall mounted bracket.	Each	3	
G-2	CAR PARKING LIGHT				
	a	Supply & installation of water proof shad car parking light, 100/w LED fixture, sunlight/opple/philips/turkplast, or equivalent, as approved by the engineer incharge. Complete with all accessories.	Nos.	1	

		GATE LIGHT				
	b	Supply & installation of water proof gate light, 50/w LED fixture, sunlight/opple/philips/turkplast, or equivalent, as approved by the engineer incharge. Complete with all accessories.	Nos.	1		
G-3		CCTV WIRING				
	i	Providning & Lying Cat-6 Cable 23 AWG (as mentioned in attached annexure) for CCTV Camera with splitter Complete PVC pipe/duct as per site requirement	Each	12		
TOTAL COST OF ELECTRICAL WORKS						

(ANNEXURE "A")**(List of approved Brands/ Manufacturers)**

S. #	DESCRIPTION	MAKE
1	PVC Pipes & Accessories	Galco
		Jeddah
		Adamjee
2	PVC Channel Patti / Dura Duct	Adamjee
		Jeddah
3	MS Back Box/Pull Box/ Technological Box etc.	Local Made
4	Floor Box	Clopal
		Schneider
5	Switch Socket Outlets (SSOs) / Switches	Schneider
		Clipsal
		Bosch
6	Industrial Sockets	Schneider
		Clipsal
7	DATA/ Voice Face Plates, RJ45/RJ11 I/Os / Connectors	3M
		Schneider
8	Factory tested Patch / Drop Cords	3M
		Schneider
9	Data Cabinet / Communicatio Rack (14SWG) Powder Coated	Local Made
10	Patch Panel	3M
		Schneider
11	Front Cable Manager	Local Made
12	Telephone Junction Box	Local made
13	Telephone Tag Block	Krone
14	Telephone Cable 10 Pair	Pony
		Pakistan Cables
15	Cat 6E, 23 AWG Cable	3M
		Orange
		Schneider
16	Electrical Wires / Cables	Pakistan Cables
		Newage Cables
		Fast Cables
17	Burglar Alarm Cables	Million cables
		Pakistan Cables
18	Lights (all types)	Philips
		Osram
		Osaka
19	Fans (all types)	Pak

		GFC
		Voldam
20	Distribution Board	Universal
		Engineers & Engineers
		Prem Engineering
21	Circuit Breakers	ABB
		Terasaki
		Schneider
22	Change Over Switch	OPAS
		Kraus & Naimer
		Gave
23	Phase Selecter Switch	OPAS
		Kraus & Naimer
		Gave
24	Control Fuse	DF
		ETI
25	Cable Termination Connector Block in D.Bs	Legrand
		GE
26	Earth Copper Plate / Rod	Local made

Note: Material if installed other than manufacturers listed above will not be entertained/paid.

AIR-CONDITIONING WORKS

Sr.#	Description	Qty.	Unit	Rate	Amount
1	Supply & installation of 220-240 V/1-Ph/50Hz Wall Mounted DC Inverter AC Unit , Comprising Indoor & Outdoor units with DC Rotary compressor (T3) R-410a/R-32 with all electrical ,control & Mechanical safties including Installation Kit Copper pipe foam insulation with power & Control Cable,drain pipe, PVC duct 4x4" etc upto 10 RFT (as per standard), through hole, sealing of hole with white cement appropriate sealent, handling charges (loading, unloading, transportation at designated branch etc.) included. Testing commissioning & satisfactory performance along with factory & onsite Test reports, complete in all respect as per drawings & specifications attached. The specifications of quoted AC must be filled in Evaluation Criteria for scrutiny (Annexure B– TECHNICAL SPECIFICATIONS.) Capacities are mentioned as below				
	i) Capacity 12000 BTU / HR (1.0 Ton), Heat & Cool (For ATM, BM Room, & Teller Room)	3	Nos.		
	ii) Capacity 18000 BTU / HR (1.5 Ton), Heat & Cool (for main hall)	2	Nos.		
2	Supply, Laying and connecting of concealed/surface Extra Copper Piping for 1.0/1.5/2.0 ton AC Wall mounted , 22 Gauge (Muller Brand or Equivalent) with seprate Foam pipe insulation 3/8" thick wraping tape 3" wide (white/Black) ,Insulation each for suction, liquid line and 4-Core x 1.5 sqmm Control Wire & Power cable 3-Core x 1.5 sqmm upto 1.5 Ton and 3-Core x2.5 sqmm for 2.0Ton (Pakistan/Pioneer/Fast Cable or Equivalent). Additional refrigerant charge above standard length of copper pipe distance b/w indoor/outdoor unit 25~30 gram /meter, Complete in all respect as per drawings & specifications attached.	200	Rft		

3	Supply & Installation of L-type wall mounted or Floor mounted frame for outdoor unit (as per site requirement) , powder Coated Steel angle iron frame size 1-1/2" x 1-1/2" x 1/8" thick fixed in wall/floor with sleeve Anchors/Rawal Bolts,Complete in all respect as per drawings & specifications attached.	5	Pair /Each		
4	Supply & Installation of UPVC duct size : 4" x 4" for installation kit i-e(copper pipe cables, drain pipes etc) including all necessary fittings and accessories; as per site requirement. Complete in all respect as per drawings & specifications attached.	100	Rft		
5	Supply & fixing of underground/surface drain piping of UPVC Class-B/Sch-40 (Dadex, Pak Arab,Popular Beta Pipes or equivalent) 1" dia along with Fittings, Elbows, Joints, Tee ,sockets, Unions saddles etc with cutting and patch works for A.C unit etc, darin in surface or concealed. (drain must be connected with nearest drain point) Complete in all respect as per drawings & specifications attached.	175	Rft		
6	Removal / Dismantling /Re-installation of split AC unit capacity 1.0, 1.5 , 2.0 & 4.0 Ton wall mounted / window type / Floor Standing AC units including General service ,gas charging , dressing of copper pipes foam insulation etc testing, commisioning & satisfactory performance. complete in all respect as per drawings & specifications attached. Utilization of Existing Air conditioner As Instructed by Engineer Incharge	3	Nos.		
TOTAL COST OF AIR-CONDITIONING WORKS					

TECHNICAL SPECIFICATIONS

1 x TON WALL MOUNTED (HEAT & COOL) AIR CONDITIONER (INVERTER TYPE)

			Bank Proposed Range/Parameter	Technical Data to be filled by Bidder	Compliance Remarks by NBP
Brand Model #					
System		Unit			
T3 Cooling	Cooling	W	3517 (12000 BTU/hr)		
	Power Consumption	W	1240		
	Running Current	Amp	5.75		
	EER Cooling	BTU/w	9.00 (High)		
Power Supply Source		V/Ph/Hz	220-240V-1-50Hz		
Operating Voltage Range (min-max)		V	140-280V		
Refrigerant		-	R410a		
Indoor Temperature Set Point Range		Deg C	16-32		
Operating Range Summer/Winter		Deg C	16~+55/-15~+24		
Control wiring Cable (Core x Ø sqmm)			4 x 1.5 sqmm		
Power Cable (Core x Ø sqmm)			3 x 1.5 sqmm		
Control type			Wireless Remote Control		
Display			LED/LCD		
Indoor Unit Body			Decorative Type Plastic		
On/Off			Auto Restart		
Noise Level Indoor (+/-3db)		db (A)	40		
Noise Level outdoor (+/-3db)		db (A)	52		
Indoor unit weight(Net/Gross)		Kg	9/11		
Outdoor unit weight(Net/Gross)		Kg	24/27		
Indoor Unit					
Air Flow (Turbo/Hi/Mi/lo)		Cum/h	600/530/450/380/320		
Fan	Motor type	AC/DC	AC/DC		
	Speed(Turbo/Hi/Mi/Lo)	rpm	1350/1200/1030/850/750		
Evaporator Coil	No of Rows		Two (02)		
	Tube Material &Type		Inner –grooved copper		
	Tube diameter	mm	7 Ø		
	Fin Material		Hydrophilic Aluminum Foil		
	Fin Spacing	mm	1.5		
Outdoor Unit					

Casing	Material		Powder Coated painted GI Sheet		
	Paint Thickness	micron	>80µm		
Compressor	Type	DC	DC Rotary		
	Make/Brand		GMCC, Hitachi, Mitsubishi or equivalent		
Condenser	No of Tube Rows	Row	1		
	Tube Type & material		Inner groove copper		
	Tube Diameter	mm	9.52 Ø		
	Pitch tube x row	mm	25.4		
	Fin Material		Hydrophilic Aluminum Foil		
Fan	Blade Type		Axial Flow		
	Motor Type	DC	DC		
	Motor Power output	watt	30		
Outdoor Packing Dimension (W x D x H)		mm	-		
Indoor Packing Dimension (W x D x H)		mm	-		
Spare Parts Replacement Warranty without Cost			1 Year or More		
PCB Card Replacement Warranty without Cost			4 Year or More		
Compressor Warranty			5 Years or More		
Accessories					
Copper Piping with Foam Insulation		m	3m- included		
Power Cable		m	1.5m -included		
Control cable		m	3.5 m -included		
Wireless Remote Control with batteries			Included		
Remote control Holder			Included		

TECHNICAL SPECIFICATIONS

1.5 x TON WALL MOUNTED (HEAT & COOL) AIR CONDITIONER (INVERTER TYPE)

			Bank Proposed Range/Parameter	Technical Data to be filled by Bidder	Compliance Remarks by NBP
Brand Model #					
System		Unit			
T3 Cooling	Cooling	W	5276 (18000 BTU/hr)		
	Power Consumption	W	1860		
	Running Current	Amp	8.63		
	EER Cooling	BTU/w	9.00 (High)		
Heating	Heating	W	5276 (18000 BTU/hr)		
	Power Consumption	W	1520(560~2350)		
	Running Current	Amp	7.05(2.6~10.9)		
	COP Heating	BTU/w	12.00		
Power Supply Source		V/Ph/Hz	220-240V-1-50Hz		
Operating Voltage Range (min-max)		V	140-280V		
Refrigerant		-	R410a		
Indoor Temperature Set Point Range		Deg C	16-32		
Operating Range Summer/Winter		Deg C	16~+55/-15~+24		
Control wiring Cable (Core x Ø sqmm)			4 x 1.5 sqmm		
Power Cable (Core x Ø sqmm)			3 x 1.5 sqmm		
Control type			Wireless Remote Control		
Display			LED/LCD		
Indoor Unit Body			Decorative Type Plastic		
On/Off			Auto Restart		
Noise Level Indoor (+/-3db)		db (A)	45		
Noise Level outdoor (+/-3db)		db (A)	54		
Indoor unit weight(Net/Gross)		Kg	14/17		
Outdoor unit weight(Net/Gross)		Kg	31/34		
Indoor Unit					
Air Flow (Turbo/Hi/Mi/lo)		Cum/h	1200/1100/990/820/660		
Fan	Motor type	AC/DC	AC/DC		
	Speed(Turbo/Hi/Mi/Lo)	rpm	1250/1150/1030/850/750		
Evaporator Coil	No of Rows		Two (02)		
	Tube Material &Type		Inner –grooved copper		
	Tube diameter	mm	7 Ø		
	Fin Material		Hydrophilic Aluminum		

			Foil		
	Fin Spacing	mm	1.5		
Outdoor Unit					
Casing	Material		Powder Coated painted GI Sheet		
	Paint Thickness	micron	>80µm		
Compressor	Type	DC	DC Rotary		
	Make/Brand		GMCC, Hitachi, Mitsubishi or equivalent		
Condenser	No of Tube Rows	Row	2		
	Tube Type & material		Inner groove copper		
	Tube Diameter	mm	7 Ø		
	Pitch tube x row	mm	25.4 *18.2		
	Fin Material		Hydrophilic Aluminum Foil		
Fan	Blade Type		Axial Flow		
	Motor Type	DC	DC		
	Motor Power output	watt	30		
Outdoor Packing Dimension (W x D x H)		mm	-		
Indoor Packing Dimension (W x D x H)		mm	-		
Spare Parts Replacement Warranty without Cost			1 Year or More		
PCB Card Replacement Warranty without Cost			4 Year or More		
Compressor Warranty			5 Years or More		
Accessories					
Copper Piping with Foam Insulation		m	3m- included		
Power Cable		m	1.5m -included		
Control cable		m	3.5 m -included		
Wireless Remote Control with batteries			Included		
Remote control Holder			Included		

FURNITURE WORKS

S.NO	DESCRIPTION/SPECIFICATION	QTY	UNIT	RATE (Rs)	AMOUNT (Rs)
1	<u>BRANCH MANAGER TABLE</u> Table Size: L 5'-0" X D 3'-0" X H 2'-6",Return Table size: L 5'-0" X D 1'-6" X H 2'-0". Supply of Branch Manager Table made of chipboard / MDF lassani Covered with oak ply 5mm thick pressed unde 100-150 Kg/Cm2 of air pressure and 60 C of temperature and backing with ply underneath, with approved shade of wall nut polish germany made and having leatherite writing pad on top. Having solid and seasoned Oak wood toothing joint between top & Sides with wall nut polish finish. Having front strip panel made of solid oak wood finished Top fixed with return (Side) table with stainless steel spacers, including return table with two drawers and provide 5mm thick glass brown shade finished edges. Drawers run on imported roller (sample available in Picture). COMplete in all respect as per Drawing & specification.(Polish Shade approved by Engineer)	1	Each		

2	OFFICER TABLE Size: L 4'-6" X D 6'-0" X H 2'-6" Supply of Office Wooden Table. Table top and bottom frame made of steel rectangular section made by ILL steel, verticale frame sides size 3"x1" and horizontal frame size 2"x1" finbished white texture powder coating made. Table top 1-1/2" thick made by Chipboard / MDF Lassani with formica alnoor Artical No. 4070 / Partak - White) pressed under 100-150 Kg/Cm2 of air pressure and 60 degree of temprature on front side and backing formica underneath witk same lipping edging . Including same shade of vanity panel and front panel chipboard same sheet and shade with side rack having 2 shelf and 3 drawers of Al-Noor Sheet # 4025 with locking system, imported quality hings, roller runners / chanel etc deco paint. (Sample available in Picture) etc Completed in all respect	3	Each		
3	CREDENZA FOR MANAGER Size (5'-0" X 1'-6" X 2'-6")Supply of Credenza made of Chipboard covered with oak ply 5mm thick with approved Oak Veneer pressed under 100-150 Kg/ Cm2 of air pressure and 60 C of temppressure and backing veneer on other side with Oak wood toothing. Finish with approved wallnut polish shade , Having storage and drawers with imported roller runner,hinges, etc complete in all respect as per specification or directed by Engineer. (Sample of Polish Shade approved By Engineer)	1	Each		
4	DRAWER PEDESTAL (DP-1) Size (1'-8" X 1'-6" X 2'-2") Suppy of Drawer Pedestal made of Chipboard covered with oak ply 5mm thick pressed under 100-150 Kg/Cm2 air pressur and 60 C of temperature and backing formica underneath. Drawer pedestal having three drawer on imported roller runners including lokcs, pull and footing / glide. Complete in all	6	Each		

	respect as per specification and drawings.				
5	CPU TROLLEY (CPU-1) Size (Standard Size) Supply of CPU Trolley made of mild steel sheet with deco black paint finish. Complete in all respect and drawing	6	Each		
5	Officer / Staff / Teller Counter Revolving Chair				
	Supply of Officer Revolving Chair Master make, Master Mesh LBC (B3006-1-WB) arms seat and back in one piece 12mm thick malaysian imported commercial ply pasted over different size of foam (density 1.52 pound per cft), covered with approved FABRIC/ LETHERITE , seat and back reclining, having five spoke nylon base with twin caster wheel, adjustable height with hydraulic base. Complete in all respects as per specifications.	5	Each		
6	Officer / Staff VisitoR Chair				
	Supply of Officer NON-Revolving Chair Master make Master Mesh VC (D3006-1-WB-BFR) arms seat and back in one piece 12mm thick malaysian imported commercial ply pasted over different size of foam (density 1.52 pound per cft), covered with approved FABRIC / LETHERITE , seat and back reclining, . Complete in all respects as per specifications.	4	Each		

7	<u>MANAGER REVOLVING CHAIR (HIGH Back) C-2</u> Supply of Officer Revolving Chair with approved shade of walnut polish with Oak wood arms made in 4 pieces joinery (all joints made in epoxy and two sided screws), seat and back in one piece 12 mm thick Malaysian imported commercial ply pasted over different size of foam (denisty 1.52 pound per cft), covered with approved Fabric Fabric made by A-1 Fabrics NBP Design NS-21 fabric or equivalent,seat and back reclining, having five spoke nylon base with twin caster wheel, adjustable height with hydraulic base, complete in all respect as per specification & drawings. (Sample of walnut Polish Shade approved By Engineer)				
	<u>MANAGER REVOLVING CHAIR (HIGH Back)</u> Supply of Officer Revolving Chair Master make M-16 arms seat and back in one piece 12mm thick malaysian imported commercial ply pasted over different size of foam (density 1.52 pound per cft), covered with approved LETHERITE, seat and back reclining, having five spoke nylon base with twin caster wheel, adjustable height with hydraulic base. Complete in all respects as per specifications.	1	Each		
8	<u>MANAGER VISITOR'S CHAIR (VC- 9)</u> Supply of officer Visitor's Chair, structure made of solid & seasoned Oak wood all joints made in epoxy and two sided screw, seat and back upholstered with foam and approved Fabric made by A-1 Fabrics NBP Design NS-21 Fabric / leatherite or equivalent. Wood parts finished with approved shade of walnut polish. Complete in all respect as per specification and drawings.	2	Each		

9	<u>WAITING BENCH THREE SEAT (VS-3)</u> Supply of 3 Seater Waiting Bench, structure and armrest made of Stainless steel pipe, seat & Back upholstered with good quality of foam and Fabric made by A-1 Fabrics NBP Design NS-21 approved Fabric / Leatherite or equivalent. Complete in all respect as per specification and drawings.	1	Each		
10	<u>WAITING BENCH TWO SEAT (VS-2)</u> Supply of 2 Seater Waiting Bench, structure and armrest made of Stainless steel pipe, seat & Back upholstered with good quality of foam and approved Fabric made by A-1 Fabrics NBP Design ns-21 fabric / Leatherite or equivalent. Complete in all respect as per specification and drawings.	1	Each		
11	<u>RECEPTION CHAIR C-3</u> Supply of Reception Chair with adjustable PU arm, seat and back made of 12mm thick imported commercial ply, upholstered with approved Fabric made by A-1 Fabrics NBP Design NS-21 fabric or equivalent, adjustable height with gas lift, spring loaded back, nylon base with twin caster wheels, complete in all respect as per drawing and specification.	0	Each		
12	<u>SINGLE SEAT SOFA (S-10)</u> Supply of single seat sofa, base made of solid & seasoned Oak Wood with approved lacquer finish polish shade, internal structure made of Acacia wood. Seat and back upholstered with good quality foam and approved Fabric made by A-1 Fabrics NBP Design NS-21 fabric or equivalent. Complete in all respect as per drawing and Specification.	2	Each		

13	<u>TWO SEAT SOFA (S-10)</u> Supply of Two seat sofa, base made of solid & seasoned Oak Wood with approved lacquer finish p[olish shade, internal structure made of Acacia wood. Seat and back uphoistered with good qulaity foam and approved Fabric made by A-1 Fabrics NBP Design ns-21 fabric or equivalent. Complete in all respect as per drawing and Specification.	0	Each		
14	<u>THREE SEAT SOFA (S-10)</u> Supply of Three seat sofa, base made of solid & seasoned Oak Wood with lacquer finish approved shade, internal structure made of Acacia wood. Seat and back uphoistered with good qulaity foam and approved Fabric made by A-1 Fabrics NBP Design NS-21 fabric or equivalent. Complete in all respect as per drawing and Specification.	0	Each		
15	<u>CENTER TABLE (CT-5A-A8)</u> Size: W 3'-6" X D 2'-0" X H 1'-6" Supply of Center Table, sides made with 50 mm thick Chipboard with Oak veneer pressed on both sides under 100-150 Kg/Cm2 of air pressure and 60 C of temperature, with approved colour leather on top & solid and seasoned Oak wood toothing joint between top & sides. Finish with approved shade of walnut polish. Complete in all respect as per specification and drawings.	1	Each		
16	<u>SIDE TABLE (CT-5A-A9)</u> Size: W 1'-6" X D1'-6" X H 1'-6" Supply of Side Table, sides made with 50 mm thick Chipboard with Oak veneer pressed on both sides under 100-150 Kg/Cm2 of air pressure and 60 C of temperature, with approved colour leather on top & solid and seasoned Oak wood toothing joint between top & sides. Finish with approved shade of walnut polish. COMplete in all respect as per specification and drawings.	1	Each		

17	<u>RECEPTION COUNTER</u> Reception counter made of of MDF with oak veneer pressed under 100-150 kg/ cm2 of air pressure and 60 degree of temmpreture and backing veneer underneath with solid partal wood framing and solid & seasoned oak wood lipping. NC lacquer polish finiosh including three drawer, railing on drawer runner, having handle, nails, screws glue etc. Cutomer top and skirting in approved corian. Complete in all respect. Size W:2590x D:762x H: 990	0	Each	
				Total Rs.
				Transportation
				Grand Total Rs.

[Note to the Procuring agency/Employer:

- (i) *A “Daywork Schedule” is commonly found in contracts where the likely incidence of unforeseen work cannot be covered by definitive descriptions and approximate quantities in the Bill of Quantities. The preferred alternative is to value the additional work in accordance with the Conditions of Contract. A Daywork Schedule normally has the disadvantage of not being competitive among bidders, who may therefore load the rates assigned to some or all the items. If a Daywork Schedule is to be included at all in the bidding documents, it is preferable to include nominal quantities against the items most likely to be used, and to carry the sum of the extended amounts forward into the Bid Summary in order to make the basic Schedule of Daywork Rates competitive.*
- (ii) *The total amount assigned to such competitive daywork is normally 3–5 percent of the estimated base Contract Price and is regarded as a Provisional Sum for contingencies to be expended under the direction and at the discretion of the Engineer.*

General

1. Reference should be made to Sub-Clause 13.5 of the General Conditions. Work shall not be executed on a daywork basis except by written order of the Engineer. Bidders shall enter basic rates for daywork items in the Schedules, which rates shall apply to any quantity of daywork ordered by the Engineer. Nominal quantities have been indicated against each item of daywork, and the extended total for Daywork shall be carried forward as a Provisional Sum to the Summary Total Bid Amount. Unless otherwise adjusted, payments for daywork shall be subject to price adjustment in accordance with the provisions in the Conditions of Contract.

Daywork Labour

2. In calculating payments due to the Contractor for the execution of daywork, the hours for labour will be reckoned from the time of arrival of the labour at the job site to execute the particular item of daywork to the time of return to the original place of departure, but excluding meal breaks and rest periods. Only the time of classes of labour directly doing work ordered by the Engineer and for which they are competent to perform will be measured. The time of gangers (charge hands) actually doing work with the gangs will also be measured but not the time of foremen or other supervisory personnel.
3. The Contractor shall be entitled to payment in respect of the total time that labour is employed on daywork, calculated at the basic rates entered by the Contractor in the **Schedule of Daywork Rates: 1. Labour**, together with an additional percentage payment on basic rates representing the Contractor’s profit, overheads, etc., as described below:
 - (a) The basic rates for labour shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labour, transportation time, overtime, subsistence allowances, and any sums paid to or on behalf of such labour for social benefits in accordance with law of the land. The basic rates will be payable in PKR only.

- (b) The additional percentage payment to be quoted by the bidder and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities, and insurances and allowances to labour, timekeeping, and clerical and office work, the use of consumable stores, water, lighting, and power; the use and repair of stagings, scaffolding, workshops, and stores, portable power tools, manual plant, and tools; supervision by the Contractor's staff, foremen, and other supervisory personnel; and charges incidental to the foregoing. Payments under this item shall be made in the Pakistani Rupee:

[Note to the Procuring agency/Employer:

This method of indicating profit and overheads separately facilitates the addition of further items of daywork, if needed, the basic costs of which can then be checked more easily. An alternative is to make Daywork rates all-inclusive of the Contractor's overhead and profit, etc., in which case this paragraph and the relevant Daywork Schedule should be modified accordingly.

Daywork Materials

4. The Contractor shall be entitled to payment in respect of materials used for daywork (except for materials for which the cost is included in the percentage addition to labour costs as detailed heretofore), at the basic rates entered by the Contractor in the **Schedule of Daywork Rates: 2. Materials**, together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:
- (a) the basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the Site. The basic rates shall be quoted in the currency specified in the BDS.
 - (b) the additional percentage payment shall also be made in the currency specified in BDS:
 - (c) the cost of hauling materials for use on work ordered to be carried out as daywork from the store or stockpile on the Site to the place where it is to be used will be paid in accordance with the terms for Labour and Construction in this schedule.

Daywork Contractor's Equipment

5. The Contractor shall be entitled to payments in respect of Contractor's Equipment already on Site and employed on daywork at the basic rental rates entered by the Contractor in the **Schedule of Daywork Rates, Contractor's Equipment**. Said rates shall be deemed to include due and complete allowance for depreciation, interest, indemnity, and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit, and administrative costs related to the use of such equipment.

[Note to the Procuring agency/Employer: *This is an example of wording to include overhead and profit, etc., in the daywork rates. A separate percentage addition could be used as for labour and*

materials.] The cost of drivers, operators, and assistants will be paid for separately as described under the section on Daywork Labour. An alternative, sometimes adopted for administrative convenience, is to include the cost of drivers, operators, and assistants in the basic rates for Contractor's Equipment. The last sentence of this paragraph 5 should then be modified accordingly.]

6. In calculating the payment due to the Contractor for Contractor's Equipment employed on daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the Site where the Contractor's Equipment was located when ordered by the Engineer to be employed on daywork and the time for return journey thereto shall be included for payment.
 - (a) The basic rental rates for Contractor's Equipment employed on daywork shall be stated in the currency specified in the BDS and the payment to the Contractor will be made in the currency specified in BDS.

Schedule of Daywork Rates: 1. Labour

[illegible]

Schedule of Daywork Rates: 2. Materials

[illegible]

Schedule of Daywork Rates: 3. Contractor's Equipment

[illegible]

¹ To be entered by the bidder.

Daywork Summary

	<i>Amount</i> ()
1. Total for Daywork: Labour	
2. Total for Daywork: Materials	
3. Total for Daywork: Contractor's Equipment	
Total for Daywork (Provisional Sum) (carried forward to Bid Summary, p. ____)	_____

Summary of Specified Provisional Sums

<i>Bill no.</i>	<i>Item no.</i>	<i>Description</i>	<i>Amount</i>
1			
2			
3			
4			
		[To be entered by the Procuring agency/Employer; Delete if not applicable:] provisional sums for additional ES outcomes.	
etc.			
Total for Specified Provisional Sums (carried forward to Grand Summary (B), p. _)			

Grand Summary

Contract Name: _____

Contract No.: _____

1.	Cost of Civil Work	Rs.	
2.	Cost of Plumbing Work	Rs.	
3.	Cost of Electrical Work	Rs.	
4.	Cost of Air-Conditioning Work	Rs.	
5.	Cost of Furniture Work	Rs.	
	TOTAL COST	Rs.	

Amount in Words

THE QUOTED RATES / AMOUNT SHALL BE INCLUSIVE OF ALL APPLICABLE FEDERAL/PROVINCIAL GOVT. TAXES/DUTIES AND CHARGES FOR INLAND TRANSPORTATION AND OTHER RELATED SERVICES ETC.

Contractor's

Signature

(Seal & Signature)

Technical Proposal

- **Site Organization**
- **Method Statement**
- **Mobilization Schedule**
- **Construction Schedule**
- **Equipment**

Site Organization

Method Statement

Mobilization Schedule

In accordance with the Particular Conditions, Sub-Clause 4.1, the Contractor shall not carry out mobilization to Site unless the Engineer gives consent.

Construction Schedule

1.

Form EQU: Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment ☐ Owned ☐ Rented ☐ Leased ☐ Specially manufactured	

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	