



**Government of Pakistan**  
Ministry of Defence  
Survey of Pakistan  
Directorate of Printing & Geodesy  
Establishment of New Generation  
National Geodetic Datum of Pakistan

## **CORRIGENDUM**

### **PPRA tender No. TS530503E & PID No. PID(I)4357-23**

This refers to the advertisement for the above-mentioned tender that was published at PPRA website and the daily Jang and daily. The News. Please acknowledge the changes in the specifications due to some unavoidable circumstances. The date of opening the tender will remain unchanged.

The Bill of Quantities along with some changes in specification of work required are updated and whole BoQ may be read as follows:

### **BILL OF QUANTITIES**

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
<b><u>RENOVATION OF GEODETIC UNIT (GROUND FLOOR)</u></b>					
<b><u>A. Ceiling</u></b>					
1.	Providing & Fixing PoP sheet 2' x 2' x 6mm tiles complete in all aspects	Sft	8250		
	Total =A				
<b><u>B. Paint Work</u></b>					
1.	Distempering with vinyl distemper of approved make and shade in three coats including sand papering, dusting and filling the holes, cracks and inequalities, if any, complete in all aspects	Sft	14150		
2.	Weather shield of approved make & shade, at least 2 coats outside, including repairs/ patch work.	sft	12000		
	Total = B				
<b><u>C. Door Work</u></b>					

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
1.	Taking out carefully shutters of doors and windows in ground floor and stacking as directed within three chains (91.5m)	No	22		
2.	Taking out door and window frames with or without hold fast in ground floor including cutting walls, stacking salvaged material (serviceable) and disposing off unserviceable material as directed within three chains (91.5m)	No	22		
3.	P/F 12mm thick tempered glass, swing door, pak made as per approved manufacturers (fixing through their approved fabricators), D-lock, silicon moving machines all accessories, cutting holes etc and making good damages etc complete in all aspects as required as per direction of engineer incharge	Sft	224		
4.	Providing and fixing aluminum partition frames with 5mm tempered glass at appropriate	Sft	396		
5.	aluminum sliding door of approved design, to required size, with two operating keys, as per direction of engineer incharge	No.	24		
6.	Providing and fixing with brass screws or specially supplied screws hydraulic door closer Rayobi of approved design, No. 62, Japan Make, cutting wood etc, to required shape and size as per engineer incharge	No.	22		
7.	Providing and fixing aluminum doors of 1.6mm thickness of approved design/ make/ size (Chawla or equivalent) with hydraulic door closer & at the bottom each door should contain aluminum kick plate of 12 inch.	Sft	504		
8.	Provision and fixing including doors+ Chogats with termite treatment				
	Total = C				
<b>D. <u>Aluminum Windows</u></b>					
1.	Providing and fixing fully glazed Champagne anodized aluminum sliding windows as per as per approved quality, A grade (fixing through their approved fabricators), Prime model box section 101mm x 30mm and 2mm thick including the cost of aluminum netting, fittings, with all accessories cutting hole etc. complete in all aspects as per direction of engineer incharge. (accessories of khaas brand)	Sft	1082		

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
2.	Providing and fixing plain tempered glass panes 5mm thick to 1.6 mm Aluminum doors, windows and ventilators etc including the cost of labour complete in all respects. (Chawla/ equivalent powdered Aluminum windows /1.6mm tempered glass)	Sft	1005		
Total = D					
<b>E. <u>Blinds</u></b>					
1.	P/F windows roll blinds sunscreen, dark out or translucent fabric-any color/ shade, best quality (Imported) with manual roll up arrangement complete in all aspects with all other required accessories and hardware from the approved supplier/manufacturers	Sft	1082		
Total = E					
<b>F. <u>Cabinets</u></b>					
1.	Providing and laying first class solid burnt brick masonry set in cement mortar 1:6 in straight or cured walls 9 to 13-1/2 inches (229 mm to 343 mm) thick including scaffolding, raking, out joints and curing etc. complete in ground floor superstructure.	Cft	180		
2.	½" (13mm ) thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mazzanine and ground floor including making edges, corners, and curing etc. complete.	Sft	890		
3.	P/F kitchen cabinet wall mounted of ¾" thick laminated board with best quality deodar wood frame and beading 1/8" thick hard board backing required section in approved pattern etc. fixed on wall with reawal pugs, screws i/c cost of glue, null, piano hinges, handles and painting or polishing etc. as drawing complete all as respect.	Sft	46		
4.	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete in all aspects.	Sft	250		

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
5.	Providing and fixing approved quality stainless steel sink 33" x 18" pak make (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls 1/2" dia CP sink mixer 1-41/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of hole in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	No	1		
6.	As per layout workstation/ kitchen cabinets/ conference room cabinets. High class engineered material				
Total = F					
<b>G. Tiles Flooring</b>					
1.	Removing tiles in 3 rooms/ skirting including base mortar and stacking salvaged material service-able and disposing off unserviceable as directed within three chains, complete in all respects.	Sft	756		
2.	Providing and laying glazed/ nonskid vitrified porcelain tiles (polished) 2ft x 4ft each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filer of approved quality as per directions of engineer in charge, complete in all respects	Sft	7810		
3.	Providing & laying floor of 3/4 inches (19mm) thick granite stone, Pakistani original, more than 5 sq ft upto 7 sq ft (0.46 sq m upto 0.65 sq m) size fine dressed on the surface without winding in ground floor over 1 inch (25mm) lime mortar 1:2 (one lime, two sand) complete, including the cost of motor, in all aspects	Sft	632		
4.	High class tiles fixer (skilled)				
5.	Staircase marble- Parlino without joints, Inside & Outside stairs.				
Total = G					
<b>H. Renovation of Bathrooms</b>					
1.	Taking out carefully shutters of doors and window in ground floor and stacking as directed within three chains (91.5 meter)	No.	6		

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
2.	Taking outdoor and window frames with or without hold fasts in ground floor including cutting walls stacking salvaged material (serviceable and disposing off unserviceable material as directed within three chains (91.5 meter)	No.	6		
3.	Dismantling burnt brick masonry inline or cement mortar foundation, basement, plinth and ground floor including stacking salvaged material (serviceable and disposing off surplus material as directed within three chains (91.5 meter)	CFT	65		
4.	Dismantling lime or cement concrete in foundation or under floor basement, plinth and ground floor and disposing off surplus material as directed within three chains (91.5 meter)	CFT	486		
5.	Providing and laying first class solid burnt brick masonry set in cement mortar 1: 6 in straight or curved walls 9 to 13-1/2 inches (229mm to 343mm) thick including scaffolding, racking, out joints and curing etc. Complete in ground floor superstructure.	Cft	155		
6.	1/2" (13mm) thick cement plaster 1: 4 on walls in columns etc. in basement, plinth, mezzanine, and ground floor including making edges, corners, and curing etc. complete.	Sft	1158		
7.	Providing and fixing unplasticized polyvinyl chloride pipe (UPVC) B class (A grade) and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 ft deep, refilling, watering, ramming and disposal off surplus earth within one chain and after cleaning the pipe and cartage (Working pressure 12KG/cm <sup>2</sup> ).				
	3 inches (40mm) dia pipe.	Rft	290		
	4 inches (100mm) dia pipe.	Rft	120		
	6 inches (125mm) dia pipe.	Rft	150		
	2 inches (100mm) dia pipe.	Rft	40		
8.	Providing and fixing PPRC pipe of approved make and specials including cost of cutting, jointing, fitting etc. completed as directed by Engineer In-charge.				
	(i) 25 mm dia pipe:	Rft	310		
	(ii) 32 mm dia pipe:	Rft	540		

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
9.	Providing and fixing UPVC multi floor trape of size with gratings including cutting making holes in walls columns and making good in 1:2:4	No.	8		
10.	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded stone ballast 2 inches (51 mm) and down gauge in foundation including levelling compacting and curing etc complete	Cft	223		
11.	Providing & fixing 1.6 mm aluminum doors for washrooms with 1 feet kick plate at the bottom and 5mm tempered glass complete in all aspects	No	11		
12.	Providing and laying 1/4" (6mm approx) thick of Pakistani make first grade-coloured glazed tiles from 1.5 Sft to 3 Sft size in dado and skirting in ground floor over 1/2" (13mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joint with white cement slurry to matching the colour and washing the tile, curing and cleaning etc complete in all aspects	Sft	2268		
13.	Providing and laying floor of 1/4" (6mm approx) thick of Pakistani make first grade-coloured glazed tiles from 1 Sft to 2 Sft size in dado and skirting in ground floor over 1" (25mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joint with white cement slurry to matching the colour and washing the tile, curing and cleaning etc complete in all aspects	Sft	936		
14.	Providing and fixing best available quality Indian style white colour glazed earthenware Wash Down W.C pan complete with and including cost of Plastic seat 3 Galns (13.6 liters) Ivory Glazed earthenware low level flushing cistern with siphon fittings 1-1/2 inches (40 mm) dia white porcelain enamelled flush bend 3/4 inch (20 mm) dia G.I warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	No.	5		

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
15.	Providing and fixing best available quality European style white colour glazed earthenware Wash Down W.C pan complete with and including cost of Plastic seat, 3 Galns (13.6 liters) Ivory Glazed earthenware low level flushing cistern with siphon fittings 1-1/2 inches (40 mm) dia, white porcelain enamelled flush bend 3/4 inch (20mm) dia G.I warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	No.	6		
16.	Providing and fixing approved quality earthen ware glazed vanity basin standard size (White/light color) and including the cost of 1-1/4" dia brass waste 1-1/4" rubber plug and chrome plated brass chain PVC waste pipe 1-1/4" dia of approved pattern etc. complete	No.	4		
17.	Providing and fixing 22 inches cross 16 inches (560 x 406 mm) laboratory basin in white glazed earthenware (Pakistani) complete with and including the cost of brass oxidize board kit build into wall 1/2 inches (15 mm) dia Chrome plated mixer 1-1/4 inches (32 mm) rubber plug and Chrome plated brass chain 1-1/4 inches (32 mm) dia Bros waste of approved pattern 1-1/4 inches (32 mm) dia Chrome plated battle trap with unions and making requisite number of holes in walls plinth and floor for pipe connections and make good and cement concrete 1:2:4	No.	4		
18.	Providing and laying floor of 3/4 inches (19 mm) thick Granite stone Pakistani Original more than 5 sq. ft. upto 7 Sq. ft. (0.46 Sq.m. upto 0.65 sq.m) size fine dressed on the surface without winding in ground floor over 1 inch (25 mm) lime mortar 1:2 (one lime, two sand) setting the marble tile with grey cement slurry including curing rubbing and polishing etc. complete, including the cost of mortar	Sft	32		
19.	Providing and laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs, per sq inch (15.52 N/mm <sup>2</sup> at 28 days with a mix not leaner than 1:2:4 in shelves 1-1/2 inches to 2 inches (38 to 51 mm) thick cast in situ including form works and its removal, compacting and curing etc complete	Cft	7		

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
20.	Providing and laying ribbed deformed steel reinforcement bars with guaranteed minimum yield stress of 40,000 psi with and including the cost of straightening cutting bending binding wastage complete in all kinds of RCC work	Kg	20		
21.	Providing and fixing CP tee stopcock (A grade) 1/2 inch dia of approved quality	No	20		
22.	Providing and fixing CP bib cock (A grade) 1/2 inch dia of approved quality with muslim shower.	No.	14		
23.	Providing and fixing bath room accessories of set of 6 pieces consist (A grade) of one cosmetic shelf, one towel rod with bracket one soap dish, one tooth brush holder with glass and cover one tissue paper holder one double hook one towel ring etc complete of approved quality	No.	4		
24.	Providing and fixing 1/2-inch (15 mm) dia plastic connection (1 metre) complete with two brass nuts and lining jointed to plastic pipe	No.	6		
25.	Providing and fixing CP bib cock (Top quality) 1/2-inch dia of approved quality	No.	6		
26.	Distempering with vinyle distemper (Top Quality) of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering dusting and filling the holes, cracks and inequalities, if any, at any height in any floor	Sft	610		
27.	Providing and fixing approved quality CP brass Toilet paper holder (A grade)	No.	6		
28.	Providing and fixing CP Mixer 1/2 inches (15 mm) (Top quality) of approved make and model lever type Pakistani complete in all respect	No.	4		



Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
29.	Providing manhole type 'A' size 2 feet x 1-1/2 feet or 610 mm x 457 mm (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches (100 mm to 305 mm) dia Pipes upto 3 feet-11 inches (1.19 m) depth with 16 inches (406 mm dia (inside) cast iron cover and frame (weight 1 Cwt 1. Qtr) (63.5 kg) fixed in R.CC 1:2:4 slab 4 inches (102 mm) (thick burnt brick masonry walls 9 inches (229 mm) thick set in 1:4 cement mortar 6 inches (150 mm) 1:3:6 CC in foundation, 1:2:4 CC in benching and 1/2 inch (13 mm) thick cement plaster in 1:3 CM, to all inside walls surfaces channels and benching etc and to top including making requisite number of main and branches channels	No.	3		
30.	Providing and fixing approved brass sliding bolts or aldrop bolts 9" x 5/8" (229 mm x 16 mm) size with necessary brass screws and iron bolts and nuts	No.	10		
31.	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	No.	10		
	Total = H				
<b>I. <u>SH: Electrification</u></b>					
1.	Dismantling of light and fan or call bell point all system of Wiring except wiring in recessed conduit including finishing and making good the wall as required.	pts	188		
2.	Dismantling of ordinary Plug point of all system of Wiring except wiring in recessed conduit including finishing and making good the wall as required.	pts	16		
3.	Dismantling of two way light point for stair or other similar purposes of all system of wiring except wiring in recessed conduit including finishing and making good the wall as required.	Nos	2		
4.	Dismantling of sub-main up-to 7/0.036 or 7/0.044 (6 mm <sup>2</sup> or 10 mm <sup>2</sup> ) all type of wiring except wiring in recessed conduit including finishing and making good the wall as required.	Mtr	350		
5.	Dismantling Of all type of fittings including finishing and making good the wall as required.	Nos	200		

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
6.	Re-Wiring for light, fan or call bell point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire in 20 mm (3/4") dia PVC conduit fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required (concealed in walls)	points	200		
7.	Re-Wiring for plug point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire in 20 mm (3/4") dia PVC conduit fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	points	16		
8.	Replacement of u/s and w/o SP switch with new one 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips).	Nos	200		
9.	Replacement of u/s and w/o SP switch 13 Amp with new one 13 Amps Polycarbonate flame retardant 3Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips).	Nos	70		
10.	Replacement of u/s and W/o SP switch 15 Amp with new one 15 Amps Polycarbonate flame retardant 3Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	Nos	38		
11.	Supplying & fixing or Wireless remote bell of superior quality complete in all respect as approved by the Engineer Incharge as required.	Nos	12		
12.	Replacement of u/s and W/o LED tube light With new one recessed / surface mounted LED Panel Light including driver, having warm / neutral White / cool white colour, 80-100 lm/watts efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (Top Quality)				
a.	34-36 Watts (2 x 2)	Nos	2		

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
13.	Replacement of u/s and W/o LED tube light with new one recessed / surface mounted ceiling lights / downlights including driver, having warm / neutral white / cool white colour, 80-90 lm/watts efficiency, 0.9 or above power factor, 20000 - 25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (Top Quality)				
a.	11-13 Watts	Nos	50		
b.	22-24 Watts	Nos	115		
14.	Replacement of u/s and W/o LED tube light with new one LED Batten Lights including driver, having warm Neutral White / cool white colour, 90 -100 lm/watts efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (Top Quality)				
a.	7-9 Watts	Nos	7		
15.	Replacement of u/s and W/o Ceiling Fan with new one Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, standard length of down rod including connection with 14.0076" flexible wire complete as required. (Top Quality).	Nos	39		
16.	Replacement of u/s and W/o Fan dimmer with new one Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated powder coated. metal board recessed In the wall or column Including connection as required (Top Quality )	Nos	39		
17.	Replacement of u/s and W/o wall bracket fan dimmer with new one 45 Cm (18") sweep wall bracket fan complete with blades. regulator & puling cord switch. fitted on wall or column With GI clip including connection as required (Top Quality)	Nos	2		
18.	Replacement of u/s and W/o Exhaust fan 30 Cm (12") sweep. metallic body Exhaust fan complete with blades, motor. etc fitted In existing hole including connection With 14/.0076" flexible wire complete as required (Top Quality)	Nos	1		

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
19.	Replacement of u/s and W/o Exhaust fan 30 Cm (12") sweep. Plastic body Exhaust fan complete with blades. motor. etc fixed in existing hole Including connection with 14/.0076" flexible wire complete as required A grade/ Top Quality	Nos	6		
20.	Providing & installing False Ceiling Fan (Box Fan) With remote, size including connections. complete in all respect as approved by the Engineer Incharge	Nos	1		
21.	Re-Wiring for sub-main with 2x 2.5 mm <sup>2</sup> , PVC Insulated wire 300/500 volts grade, single core. stranded copper conductor wire in 20 mm (3/4") diauPVC conduit recessed in the wall, column and roof etc including 1.5 mm <sup>2</sup> PVC insulated wire single core wire as ECC as required.	Mtr	550		
22.	Re-Wiring for sub-main with 2x 4 mm <sup>2</sup> , PVC insulated Wire 300/500 volts grade, single core. stranded copper conductor wire in 20 mm (3/4") diauPVC conduit recessed in the wall, column and roof, etc. Including 1.5 mm <sup>2</sup> PVC insulated wire single core wire as ECC as required	Mtr	650		
23.	Re-Wiring for sub-man with 2x 6 mm <sup>2</sup> . PVC insulated Wire 300/500 volts grade. Single core, stranded copper conductor wire in 25 mm (1") diauPVC conduit recessed in the wall. column and roof, etc. including 2.5 mm <sup>2</sup> PVC Insulated Wire single core Wire as ECC as required	Mtr	200		
24.	Supply & fixing 50mm (2") diauPVC conduit With all especial such as bends. sockets, Junction etc. fitted on surface as required	Mtr	100		
25.	Supply & fixing 20mm ( 3/4") diauPVC conduit With all especial such as bends. sockets. Junction etc. recessed in the wall or column as required	Mtr	500		
26.	Supply & fixing 25mm (1") diauPVC conduit with all especial such as bends, Sockets, Junction etc. recessed in the wall or column as required	Mtr	700		
27.	Replacement of un-serviceable and burnt out 6 to 32 Amps single pole moulded case circuit breaker with new one as per existing size and sample as required	Nos	70		
28.	Replacement of un-serviceable and burnt out 15 to 60 Amps (Low breaking Capacity) Triple pole moulded case circuit breaker with new one as per existing size and sample as required.	Nos	2		

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
29.	Replacement of un-serviceable and burnt out 75 to 100 Amps (Low breaking Capacity) Triple pole moulded case circuit breaker with new one as per existing size and sample as required.	Nos	2		
30.	Replacement of un-serviceable cubical type metal sheed distribution board with new one cubical type metal sheet vermin protected LT panel board as per drawing with locking arrangement duly powder coated l/c all fastening devices and electrical wire/ leads for internal connection, incoming and outgoing breakers complete in all respect as following with components (Top Quality).				
	<b><u>Incoming</u></b>				
	1 No.x TP MCCB 250-400 A Adj				
	1 No. x Busbar				
	2 Nos. x Selector Switch				
	1 No. x Volt meter				
	1 No. x Ammeter				
	3 Nos x Indication lights				
	<b><u>Outgoing</u></b>				
	4 No. x TP MCCB 100 Amp	Job	1		
31.	Replacement of un-serviceable cubical type metal sheed distribution board with new one cubical type metal sheet vermin protected Distribution board as per drawing with locking arrangement duly powder coated l/c all fastening devices and electrical wire/ leads for internal connection, incoming and outgoing breakers complete in all respect as following with components (Top Quality)				
32.	AVRs (Top Quality)				
33.	AC conduiting, Internet/ intercom conduiting + labeling, External electrical conduiting, Conduiting will be completed in floors and walls using Pakistan cables, Top quality switches and sockets				
	<b><u>Incoming</u></b>				
	1 No x TP MCCB 10-60 A				
	1 No x Busbar				
	2 Nos x Selector Switch				
	1 No x Volt meter				
	1 No x Ammeter				
	3 Nos x Indication lights				
	<b><u>Outgoing</u></b>				

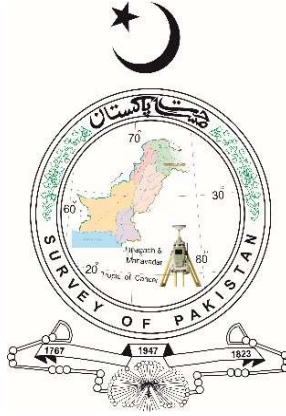
Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	36 No x SP MCCB 6-32 Amp	Job	2		
	Total = I				
<b>J. Passive work for creation of 200 nodes of Networking</b>					
1.	Supply Of Branded UTP Cat-6 RJ-45 Toolless I/O With Shuttered White, 1G Supported (Top Quality)	Nos	200		
2.	Supply Of Branded 24 Port Patch Panel with Top Label Holder including 24 Cat-6 Toolless I/O With Shuttered Fully Loaded, 1G Supported (Top Quality)	Nos	10		
3.	Supply Of Branded Front Cable Manager Horizontal, IU, PVC (Top Quality)	Nos	05		
4.	Supply Of Branded Copper Patch Cord, UTP Cat-6 Patch Cord, RJ45 to RJ45, 1-Meter, PVC, 1G Supported (Top Quality)	Nos	-		
5.	Supply Of Branded Copper Patch Cord, UTP Cat-6 Patch Cord, RJ45 to RJ45, 3-Meter, PVC, 1G Supported (Top Quality)	Nos	200		
6.	Supply Of Branded 4-Pair UTP Cat-6 Cable, Solid Copper, PVC, 305-Meter Box, 1G Supported (Top Quality)	Roll	22		
7.	ODF (Top Quality)	Point	-		
8.	Fiber Splicing with Testing (Top Quality)	Splice	-		
	<b>Total =J</b>				
<b>Grand Total = A + B + C + D +E +F +G +H +I +J =</b>					

**(ASIFULLAH KHAN MEHSUD)**  
 CHAIRMAN CIVIL WORKS COMMITTEE  
 DEPUTY DIRECTOR  
 SURVEY OF PAKISTAN RAWALPINDI  
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**Government of Pakistan  
SURVEY OF PAKISTAN  
DIRECTORATE OF PRINTING & GEODESY**

**PROJECT OF ESTABLISHMENT OF NEW GENERATION NATIONAL GEODETIC  
DATUM OF PAKISTAN**



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**Renovation of Geodetic Unit Building for Establishment of Geodetic Data Center  
At  
Head Quarters Survey of Pakistan, Faizabad Murree Road, Rawalpindi**

**TENDER DOCUMENT**

**January, 2024**

Directorate of Printing & Geodesy  
**Headquarters Survey of Pakistan**  
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**Government of Pakistan**  
Ministry of Defence  
**Survey of Pakistan**  
**Directorate of Printing & Geodesy**  
Establishment of New Generation  
National Geodetic Datum of Pakistan

## **INVITATION TO BID**

**Subject: - RENOVATION OF GEODETIC UNIT BUILDING & ESTABLISHMENT OF GEODETIC DATA CENTER FOR DATUM PROJECT AT HQ SURVEY OF PAKISTAN, FAIZABAD, MURREE ROAD, RAWALPINDI**

1. Survey of Pakistan a National Surveying & Mapping Agency invites sealed bids under the project titled “**Establishment of New Generation National Geodetic Datum of Pakistan**”, as per PPRA rule article 36(a) under Single Stage-single Envelope procedure from the reputed contractors, duly licensed from PEC registered with Pak PWD / MES / NHA / FWO. Tender documents are available for the interested bidders at website of Public Procurement Regulatory Authority, ([www.ppra.org.pk](http://www.ppra.org.pk)), which can be downloaded or also can be obtained from Directorate of Printing and Geodesy, HQ Survey of Pakistan, Rawalpindi. Before submission of bid/rates, please visit HQ Survey of Pakistan site for assessment of work in detail on working days.
2. The contractors will have to deposit bid security equivalent to 5% or total cost of work (out of which 2% shall be accompanied with tender/offer as earnest money and remaining 3% after acceptance of tender/offer as security deposit). The quotation/tender should reach this office latest by **6<sup>th</sup> Feb 2024 up to 10:30 am** which will be opened on the same day at 11:00 am noon in the presence of contractors or their representatives who may like to be present. The outer envelope should clearly mention “**Tender for Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**”.
3. SoP reserves the right to accept or reject any or all offers/quotations in accordance with the relevant clause of PPRA, Government or Pakistan Rules.

**(Asif Ullah Khan Mehsood)**  
Chairman Civil Works Committee  
Deputy Director  
Survey of Pakistan  
Contact No: 051-9290210

## **SURVEY OF PAKISTAN**

DIRECTORATE OF PRINTING & GEODESY

### **RENOVATION OF GEODETIC UNIT BUILDING & ESTABLISHMENT OF GEODETIC DATA CENTER FOR DATUM PROJECT AT HQ SURVEY OF PAKISTAN, FAIZABAD, MURREE ROAD, RAWALPINDI**

Last date for receipt of Tender is 6<sup>th</sup> February 2024 up to 10:30 a.m and will be opened at 11:00 am on the same date at Directorate of Printing & Geodesy, Survey of Pakistan situated at Faizabad, Murree Road, Rawalpindi in the presence of such Tenderers or representatives who may wish to be present.

#### **TERMS AND CONDITIONS OF THE CONTRACT**

##### **1. THE EMPLOYER**

The Employer means "Survey of Pakistan (SoP). "Employer's Representative" is Director Printing & Geodesy (Project Director), or any other person/ appointed by and be responsible to the Employer and shall carry out such duties and exercise such authority as may be delegated to him by the Employer.

##### **2. BIDDER OR TENDERER OR CONTRACTOR**

The Bidder, Tenderer or Contractor means any person or persons, company, corporation or firm submitting a Bid or Tender. Contractor means bidder or Tenderer who wins the contract, and execute the work under this contract.

##### **3. TENDER**

"Tender" is synonymous with "Bid" and the word "Tender Documents" with "Bidding Documents".

##### **4. CONTRACT OR PROJECT**

The words "Contract" and "Project" are synonymous to each other here and within the meanings of this document, Contract or Project mean "**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**"

##### **5. LANGUAGE AND LAW**

The Contract Documents shall be drawn up in the English language and the Contract shall be subject to the Laws of Islamic Republic of Pakistan.

##### **6. SOURCE OF FUNDS**

Survey of Pakistan (SoP), also called the Employer, has its funds under the project “Establishment of New Generation National Geodetic Datum of Pakistan”, which will be used for payments to successful bidder under the Contract for which these Bidding Documents are issued.

#### 7. ELIGIBLE BIDDERS

This Invitation for Bids is open to all bidders meeting the following requirements:

- (1). Duly licensed by the Pakistan Engineering Council (PEC) in the category relevant to the value of the Works.
- (2). Duly registered with any of the departments Pak PWD or NHA or MES or FWO.

#### 8. ONE BID PER BIDDER

Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid will be disqualified.

#### 9. MATERIAL/PRODUCT/SPECIFICATION

The required specification/configuration & other details, available with Tender document can be filled in the attached schedule or company's letterhead

#### 10. PRICE

The prices quoted would be inclusive of all charges/Taxes livable by the local Authority/Provincial/Federal Governments including loading/un-loading, lifting & transportation charges to the place of work.

#### 11. BID OR CONTRACT PRICE

Bid or Contract Price means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works, subject to such additions thereto or deductions there from as may be made, and remedying of any defects therein in accordance with the provisions of the Contract

#### 12. INSPECTION

The goods shall be subjected to Inspection by or representatives of the Company nominated by the Management / purchase committee and the decision of the Inspection Officer shall be final and binding on the Contractor/Supplier. In the event of rejection of the material, the rejected material shall be removed from the SoP's premises at the cost of the Contractor/Supplier.

### 13. BID SECURITY

All bidders are required to submit amount of bid security @ 5% of total value of contract (out of which 2% shall be accompanied as earnest money with Tender/offer and remaining 3% after acceptance of Tender as security deposit). The detail is as under:

#### (1). EARNEST MONEY

No tender shall be considered as valid unless it is accompanied by the Earnest Money equal to 2% of the total value of contract in the form of a Bank Pay Order in favor of Survey of Pakistan from any scheduled Bank. No other form of payment of Earnest Money shall be acceptable. The earnest money shall be liable for forfeiture, in case the tenderer withdraws his tender during the period the tenders are opened for acceptance. The Earnest Money of unsuccessful Tenderers will be returned to them after expiry of the validity of the tender/offer.

#### (2). SECURITY DEPOSIT

The successful tenderer shall furnish a Bank Pay Order equal to 3% of the total value of contract in the form of a Bank Pay Order in favor of Project Director, Establishment of New Generation National Geodetic Datum of Pakistan from a scheduled Bank within (3) three days from the date of acceptance of the tender. No interest shall be payable by the Project Director, Establishment of New Generation National Geodetic Datum of Pakistan on these deposits. In the event of breach of any terms of the contract, apart from forfeiture of the earnest money & security deposit, Project Director, Establishment of New Generation National Geodetic Datum of Pakistan shall have the right to purchase the un-supplied quantity of Stores at the risk and cost of Suppliers.

#### (3). REFUND OF EARNEST MONEY AND SECURITY DEPOSIT

Earnest money & Security Deposit shall be refundable on completion of supplies/services and satisfactory performance of all the terms of the contract.

### 14. CURRENCIES OF BID AND PAYMENT

The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. The rates of exchange to be used by the bidder for currency conversion shall be the TT&OD Selling Rates published or authorized by the State Bank of Pakistan prevailing on the date 28 days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the Contract.

15. BID VALIDITY

Bids shall remain valid for the period of 90 days. In exceptional circumstances, prior to expiry of the original bid validity period, the SoP may request that the bidders to extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid but will be required to extend the validity of his Bid Security for the period of the extension.

16. SEALING AND MARKING OF BIDS

- (1). Each bidder shall submit ORIGINAL Bid duly sealed and put in envelope and marked as such, **Chairman Purchase Committee, Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**". It will also bear the name and identification number of the contract as defined above.
- (2). If the outer envelope is not sealed and marked as above, the SoP will assume no responsibility for the misplacement or premature opening of the Bid.

17. CORRECTION OF ERRORS

- (1). Bids will be checked for any arithmetic errors. Errors will be corrected by SoP as per following:
  - a. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
  - b. where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the SoP there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line-item total as quoted will govern and the unit rate will be corrected.
- (2). The amount stated in the Bill of Quantities will be adjusted by the SoP in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, shall be considered as binding upon the bidder.

- (3). If the bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited.

18. LATE BIDS

Any bid received by SoP after the deadline for submission of bids will be returned unopened to such bidder. Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse.

19. MODIFICATION AND SUBSTITUTION OF BIDS

No bidder may modify and/or substitute his bid after submission.

20. TIME SCHEDULE FOR COMPLETION OF WORK

The completion time of the work is **90 days** from the date of signing of Contract Agreement.

21. PAYMENT SCHEDULE

- (1). Payment will be made as per following schedule:
- a. NO ADVANCE SHALL BE PAID.
  - b. 50% of the payment will be released after the finishing in all respects the works
    - Finishing in all respect of ceiling works
    - Finishing in all respect of door installations
    - Exemplary execution of aluminum window installations
    - Finishing in all respect of tiles flooring
    - Finishing in all respect of renovation of bathrooms
  - c. 20% of the payment will be released after the finishing in all respects the works
    - Finishing in all respect of of paint works
    - Finishing in all respect of blinds installation
    - Finishing in all respect of cabinets
    - Finishing in all respect of electrification works
    - Finishing in all respect of networking works
  - d. 30% will be released after completion of work as per satisfaction of the employer.
- (2). The Payment will be made on production of bill(s) along with relevant satisfactory inspection certificates and official receipt from the contractor.

22. INCOME TAX/GST

The amount of the Income Tax & General Sales Tax shall be deducted/ levied from the total amount of bill (s) at source, if applicable as per Standing Instructions of the Government.

23. SIGNATURE OF THE TENDERERS AND CORRECTION/ALTERATION, IF ANY

The person signing the quotation/offer on behalf of the tenderer must specify the capacity like Proprietor, Manager, Partner in which he is signing the quotation/offer and the authority to do so, further any correction or alteration in the quotation/offer must be signed in full by the same person who has signed the quotation/ offer for and on behalf of the tenderer.

24. REJECTION OR ACCEPTANCE OF TENDERS

Survey of Pakistan (SoP) reserves the right to accept or reject any or all tenders wholly or partially in accordance with the relevant clause of PPRA, Government of Pakistan Rules. It shall also have full authority to split the tender and distribute the supply among various tenderers and the tenderer shall supply the quantity for which his tender has been accepted.

25. DEFECTIVE STORES

If the material/goods used or any portion thereof is declared defective by the Inspection Committee nominated by the Company. or found defective/substandard at the time of ultimate use, the same will stand rejected under the terms & conditions of the contract and the Tenderer shall replace such material at their risk and cost.

26. LIQUIDATED DAMAGES

SoP reserves the right to grant extension of time in work completion period for such period as it deems fit in case of delay. Unless, otherwise decided, any extension so granted shall be subject to payment of liquidated damages. The tender form should be signed in token of acceptance of the terms & conditions of the Tender.

27. NOTIFICATION OF AWARD

Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted.

28. SIGNING OF CONTRACT AGREEMENT

Within 5 days from the acceptance by the successful bidder the Contract Agreement will be signed between the parties.

29. GENERAL PERFORMANCE OF THE BIDDERS

The Employer may, in case of consistent poor performance of the Bidder as reported to him from any source, inter alia, may reject his bid.

30. Termination of Contract for Employer's Convenience

The Employer shall be entitled to terminate the Contract at any time for the Employer's convenience after giving 7 days prior notice to the Contractor.

All forms and schedules of the tender attached herewith shall be duly filled in and signed by the Bidder.

**(Name & Designation)**  
**Foregoing Terms & Conditions are accepted.**

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SEAL & SIGNATURES OF THE TENDERER WITH FULL  
NAME AND DESIGNATION OF THE SIGNATORY IN  
BLOCK LETTER



### **FORM OF CONTRACT AGREEMENT**

1. THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the \_\_\_\_\_ day of \_\_\_\_\_ (month) 20\_\_\_\_ between \_\_\_\_\_ (hereafter called the "Employer") of the one part and \_\_\_\_\_ (hereafter called the "Contractor") of the other part.

2. WHEREAS the Employer desires execution of work titled "**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**" by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

3. NOW this Agreement witnesseth as follows:

- (1). In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- (2). The following documents after incorporating addenda, if any, shall be deemed to form and be read and construed as part of this Agreement, viz:
  - ii. This Contract Agreement
  - iii. Letter of Acceptance
  - iv. Terms and Conditions of the Contract
  - v. General Conditions – Part I Terms & Conditions of the Contract (Particular Conditions of the Contract Part – II).
  - vi. Bill of Quantities
  - vii. Completed Appendices to Bid
  - viii. Drawings, if any
  - ix. Specifications, if any
  - x. \_\_\_\_\_ (any other)
- (3). In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants

with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.

- (4). The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

4. IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor  
(with Official Seal)

Signature of Employer  
(with Official Seal)

Date: \_\_\_\_\_

5. Signed, Sealed and Delivered in the presence of:

Witness:  
(Name, CNIC and Address)

Witness:  
(Name, CNIC and Address)

Date: \_\_\_\_\_

**SURVEY OF PAKISTAN**  
**DIRECTORATE OF PRINTING & GEODESY**  
**RAWALPINDI**

**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**

**BILL OF QUANTITIES**

1. The Bill of Quantities (BoQ) shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the BoQ are estimated and provisional and are given to provide a common basis for bidding.
3. The basis of payment will be based on the actual quantities of work executed and measured and verified.
4. The rates and prices entered in the Priced BoQ shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
5. No claim for extra payment will be admissible on account of anticipated profit or variation in overheads expenditure.
6. No adjustment in the unit rate set forth in the Priced BoQ be made because of any increase or decrease in the quantities indicated therein.
7. The following abbreviations for the Units have been used in the Priced Bill of Quantities:

<b>Unit</b>	<b>Abbreviations</b>
Running foot	Rft or rft
Square foot	Sft or sft
Cubic foot	Cft or cft.
Kilogram	Kg or kg.
Number	No. / Each
Lump Sum Job	Job

**SURVEY OF PAKISTAN**  
**DIRECTORATE OF PRINTING & GEODESY**  
**RAWALPINDI**

**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**

**SUMMARY OF BILL OF QUANTITIES**

<b>SL NO.</b>	<b>WORK</b>	<b>ESTIMATED COST</b>
1.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Ceiling)</b>	Rs.       /-
2.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Paint Work)</b>	Rs.       /-
3.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Door)</b>	Rs.       /-
4.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Aluminum Windows)</b>	Rs.       /-
5.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Blinds)</b>	Rs.       /-
6.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Cabinets)</b>	Rs.       /-
7.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Tiles Flooring)</b>	Rs.       /-
8.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Renovation of Bathrooms)</b>	Rs.       /-
9.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(SH: Electrification)</b>	Rs.       /-
10.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Passive work for creation of 200 nodes of Networking)</b>	Rs.       /-
<b><u>Grand Total:</u></b>		<b><u>Rs. _____/-</u></b>

**SURVEY OF PAKISTAN**  
**DIRECTORATE OF PRINTING & GEODESY**  
**RAWALPINDI**

**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**

**BILL OF QUANTITIES**

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b><u>RENOVATION OF GEODETIC UNIT (GROUND FLOOR)</u></b>					
<b><u>A. Ceiling</u></b>					
2.	Providing & Fixing Gypsum Board 2' x 2' x 12mm tiles ceiling including aluminum T & L angle 1" x1" i.e. hanger clips, jointing clips & G.I wire etc complete in all aspects	Sft			
	Total =A				
<b><u>B. Paint Work</u></b>					
3.	Painting Woodwork with synthetic enamel paint of approved make and shade two coats over and including cost of one priming coat complete at any height complete in all aspects	Sft			
4.	Distempering with vinyl distemper (ICI) Dulux paintex of approved make and shade in two coats over and including cost of one priming coat of lime wash including sand papering, dusting and filling the holes, cracks and inequalities, if any, at any height complete in all aspects	Sft			
	Total = B				
<b><u>C. Door Work</u></b>					
9.	Taking out carefully shutters of doors and windows in ground floor and stacking as directed within three chains (91.5m)	No			
10.	Taking out door and window frames with or without hold fast in ground floor including cutting walls, stacking salvaged material (serviceable) and disposing off unserviceable material as directed within three chains (91.5m)	No			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
11.	Providing and fixing M.S. moulded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" (38 mm x 12mm) provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (38mm x 6mm) (2 Nos 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet ( point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4' x 3/16' section, treated with special red oxide primer coat all round including cutting holes and filling the cavity with cement concrete 1:2:4 etc. in any floor at any height complete as directed by the engineer	Rft			
12.	Providing and fixing on frames etc., with sunken iron screws, best quality deodar wood moulding, beading, architrave etc., of approved design over one square inch (6.45 sqm) and upto 2 square inches (13 sqm.) in cross section as required	Rft.			
13.	P/F 12mm thick tempered glass, swing door, upak made as per approved manufacturers (fixing through their approved fabricators), D-lock, silicon moving machines all accessories, cutting holes etc and making good damages etc complete in all aspects as required as per direction of engineer incharge	Sft			
14.	Providing and fixing wooden partition fully flushed with hard board (Masonite) on both face and side fixed on second quality deodar wood frame 3" x 1-1/4" (76mm x 32mm) at spacing not exceeding 24 inches (610 mm) horizontal x 18 inches (457mm) vertical including necessary wooden beading etc as required	Sft			
15.	Providing and fixing with C.P brass screws main door handle type yale lock (Italy made) of approved design, cutting wood etc, to required size, with two operating keys, as per direction of engineer incharge	No.			
16.	Providing and fixing with brass screws or specially supplied screws hydraulic door closer Rayobi of approved design, No. 62, Japan Make, cutting wood etc, to required shape and size as per engineer incharge	No.			

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
17.	Providing and fixing 1-1/2 inches (38 mm) thick solid core deodar wood flushed veneered door shutters, with and including the cost of 3/8 inch Ash press facing on both faces, fixed over best quality deodar wood frame 2 inches wide around 6 inches wide lock rail and 2 <sup>nd</sup> class deodar wood solid core, i/c, 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement, complete in all aspects.	Sft			
18.	Providing and fixing 3/4-inch thick MDF door shutter of super gloss including frame 1-1/2 x 2 inch with necessary screws, lipping around and locking arrangements as directed by engineer incharge. and complete in all respect.	Sft			
	Total = C				
<b>D. <u>Aluminum Windows</u></b>					
3.	Providing and fixing fully glazed Champagne anodized aluminum sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan Cables and A.C.P (fixing through their approved fabricators), Prime model box section 101mm x 30mm and 2mm thick including the cost of aluminum netting, fittings, with all accessories cutting hole etc. complete in all aspects as per direction of engineer incharge.	Sft			
4.	Providing and fixing Tinted glass panes 5mm thick to M.S Box pipe/ Aluminum doors, windows and ventilators etc including the cost of labour complete in all respects.	Sft			
	Total = D				
<b>E. <u>Blinds</u></b>					
2.	Supplying and fixing venation Strip blinds horizontal and vertical of approved shade, quality & design including the cost of all accessories, complete in all respects.	Sft			
3.	P/F windows roll blinds sunscreen, dark out or translucent fabric-any color/ shade, best quality (Imported) with manual roll up arrangement complete in all aspects with all other required accessories and hardware from the approved supplier/manufacturers	Sft			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	Total = E				
<b>F. <u>Cabinets</u></b>					
7.	Dismantling burnt brick masonry in lime or cement mortar foundation. Basement, plinth and ground floor including staking salvaged material (Serviceable) and disposing of surplus material as directed within three chains chains (91.5m)	Cft			
8.	Providing and laying first class solid burnt brick masonry set in cement mortar 1:6 in straight or cured walls 9 to 13-1/2 inches (229 mm to 343 mm) thick including scaffolding, raking, out joints and curing etc. complete in ground floor superstructure.	Cft			
9.	1/2" (13mm ) thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mazzanine and ground floor including making edges, corners, and curing etc. complete.	Sft			
10.	Lacquer polishing including sealer on wood work on any height in any floor.	Sft			
11.	P/F kitchen cabinet wall mounted of 3/4" thick laminated board with best quality deodar wood frame and beading 1/8" thick hard board backing required section in approved pattern etc. fixed on wall with reawal pugs, screws i/c cost of glue, null, piano hinges, handles and painting or polishing etc. as drawing complete all as respect.	Sft			
12.	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor.	Sft			
13.	Providing and fixing approved quality stainless steel sink 33" x 18" pak make (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls 1/2" dia CP sink mixer 1-41/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of hole in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	No			
	Total = F				



Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b>G. Tiles Flooring</b>					
6.	Dismantling cement/ tiled floor, dado or skirting in basement, plinth and ground floor including base mortar and stacking salvaged material service-able and disposing off unserviceable as directed within three chains, complete in all respects.	Sft	545		
7.	Providing and laying glazed/ nonskid vitrified porcelean tiles (polished) exceeding 3600 sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filer of approved quality as per directions of engineer in charge , complete in all respects	Sft			
8.	Providing & laying floor of 3/4 inches (19mm) thick granite stone, Pakistani original, more than 5 sq ft upto 7 sq ft (0.46 sq m upto 0.65 sq m) size fine dressed on the surface without winding in ground floor over 1 inch (25mm) lime mortar 1:2 (one lime, two sand) setting the marble tiles with grey cement slurry including curing, rubbing and polishing etc. complete, including the cost of motor, in all aspects	Sft			
Total = G					
<b>H. Renovation of Bathrooms</b>					
32.	Taking out carefully shutters of doors and window in ground floor and stacking as directed within three chains (91.5 meter)	No.			
33.	Taking outdoor and window frames with or without hold fasts in ground floor including cutting walls stacking salvaged material (serviceable and disposing off unserviceable material as directed within three chains (91.5 meter)	No.			
34.	Dismantling burnt brick masonry inline or cement mortar foundation, basement, plinth and ground floor including stacking salvaged material (serviceable and disposing off surplus material as directed within three chains (91.5 meter)	CFT			
35.	Dismantling lime or cement concrete in foundation or under floor basement, plinth and ground floor and disposing off surplus material as directed within three chains (91.5 meter)	CFT			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
36.	Dismantling cement tiled floor, dado or stacking in basement plinth ground floor including base mortar concrete in foundation or under floor basement, plinth and ground floor and stacking salvaged material (serviceable and disposing off surplus stuff as directed within three chains (91.5 meter)	Sft			
37.	Providing and laying first class solid burnt brick masonry set in cement mortar 1: 6 in straight or curved walls 9 to 13-1/2 inches (229mm to 343mm) thick including scaffolding, racking, out joints and curing etc. Complete in ground floor superstructure.	Cft			
38.	1/2" (13mm) thick cement plaster 1: 4 on walls in columns etc. in basement, plinth, mezzanine, and ground floor including making edges, corners, and curing etc. complete.	Sft			
39.	Providing and laying first class solid burnt brick masonry set in cement mortar 1: 6 in straight or curved walls 4-1/2 inches (114 mm) or less thickness including scaffolding, racking, out joints and curing etc. Complete in foundation, basement, and plinth (foundation and basement masonry up to 5 (1.52 Ru.m.) feet depth and plinth up to 4 feet (1.2 Ru.m.) height from ground level.	Cft			
40.	Providing and fixing unplasticized polyvinyl chloride pipe (UPVC) D class and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 ft deep, refilling, watering, ramming and disposal off surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 KM) (Working pressure 12KG/cm <sup>2</sup> ).				
	3 inches (40mm) dia pipe.	Rft			
	4 inches (100mm) dia pipe.	Rft			
	5 inches (125mm) dia pipe.	Rft			
	2 inches (100mm) dia pipe.	Rft			
41.	Providing and fixing PPRC pipe of approved make and specials including cost of cutting, jointing, fitting etc. completed as directed by Engineer In-charge.				
	(i) 25 mm dia pipe:	Rft			
	(ii) 32 mm dia pipe:	Rft			
42.	Providing and fixing Upvc multi floor trape of size with gratings including cutting making holes in walls columns and making good in 1:2:4	No.			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
43.	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded stone ballast 2 inches (51 mm) and down gauge in foundation including levelling compacting and curing etc complete	Cft			
44.	Providing and fixing MS moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to BSS 1245 having a single rebate size 1- 1/2" x 1/2" (38 mm x 13 mm) with provision of 3 Nos MS plate section 1-1/2" x 1/4" (38 mm x 6 mm) (2 Nos 6 inch long welded with frame at not less than 10 points and 1 No. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges fitted with one locking box of same sheet (point welded inside the frames). 6 Nos 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:2:4 etc in any floor at any height complete as directed by the Engineer In-Charge	Rft			
45.	Providing and laying 1/4" (6mm approx) thick of Pakistani make first grade-coloured glazed tiles from 1.5 Sft to 3 Sft size in dado and skirting in ground floor over 1/2" (13mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joint with white cement slurry to matching the colour and washing the tile, curing and cleaning etc complete.	Sft			
46.	Providing and laying floor of 1/4" (6mm approx) thick of Pakistani make first grade-coloured glazed tiles from 1 Sft to 2 Sft size in dado and skirting in ground floor over 1" (25mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joint with white cement slurry to matching the colour and washing the tile, curing and cleaning etc complete	Sft			
47.	P/F 1-1/2 inch (38 mm) thick best quality PVC/UPVC door shutter panelled (approved design) approved iron hinges and tower bolt, etc as required	Sft			

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
48.	Providing and fixing best available quality Indian style white colour glazed earthenware Wash Down W.C pan complete with and including cost of Plastic seat 3 Galns (13.6 liters) Ivory Glazed earthenware low level flushing cistern with siphon fittings 1-1/2 inches (40 mm) dia white porcelain enamelled flush bend 3/4 inch (20 mm) dia G.I warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	No.			
49.	Providing and fixing best available quality European style white colour glazed earthenware Wash Down W.C pan complete with and including cost of Plastic seat, 3 Galns (13.6 liters) Ivory Glazed earthenware low level flushing cistern with siphon fittings 1-1/2 inches (40 mm) dia, white porcelain enamelled flush bend 3/4 inch (20mm) dia G.I warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	No.			
50.	Providing and fixing approved quality earthen ware glazed vanity basin standard size (White/light color) and including the cost of 1-1/4" dia brass waste 1-1/4" rubber plug and chrome plated brass chain PVC waste pipe 1-1/4" dia of approved pattern etc. complete	No.			
51.	Providing and fixing 22 inches cross 16 inches (560 x 406 mm) laboratory basin in white glazed earthenware (Pakistani) complete with and including the cost of brass oxidize board kit build into wall 1/2 inches (15 mm) dia Chrome plated mixer 1-1/4 inches (32 mm) rubber plug and Chrome plated brass chain 1-1/4 inches (32 mm) dia Bros waste of approved pattern 1-1/4 inches (32 mm) dia Chrome plated battle trap with unions and making requisite number of holes in walls plinth and floor for pipe connections and make good and cement concrete 1:2:4	No.			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
52.	Providing and laying floor of 3/4 inches (19 mm) thick Granite stone Pakistani Original more than 5 sq. ft. upto 7 Sq. ft. (0.46 Sq.m. upto 0.65 sq.m) size fine dressed on the surface without winding in ground floor over 1 inch (25 mm) lime mortar 1:2 (one lime, two sand) setting the marble tile with grey cement slurry including curing rubbing and polishing etc. complete, including the cost of mortar	Sft			
53.	Providing and laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs, per sq inch (15.52 N/mm <sup>2</sup> at 28 days with a mix not leaner than 1:2:4 in shelves 1-1/2 inches to 2 inches (38 to 51 mm) thick cast in situ including form works and its removal, compacting and curing etc complete	Cft			
54.	Providing and laying ribbed deformed steel reinforcement bars with guaranteed minimum yield stress of 40,000 psi with and including the cost of straightening cutting bending binding wastage complete in all kinds of RCC work	Kg			
55.	Providing and fixing CP tee stopcock (Faisal) 1/2 inch dia of approved quality	No			
56.	Providing and fixing CP bib cock (Faisal) 1/2 inch dia of approved quality with muslim shower.	No.			
57.	Providing and fixing bath room accessories of set of 6 pieces consist (Farsal 4108) of one cosmetic shelf, one towel rod with bracket one soap dish, one tooth brush holder with glass and cover one tissue paper holder one double hook one towel ring etc complete of approved quality	No.			
58.	Providing and fixing 1/2-inch (15 mm) dia plastic connection (1 metre) complete with two brass nuts and lining jointed to plastic pipe	No.			
59.	Providing and fixing CP bib cock (Faisal) 1/2-inch dia of approved quality	No.			
60.	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor	Sft			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
61.	Distempering with vinyl distemper (ICI) Dulux Paint of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering dusting and filling the holes, cracks and inequalities, if any, at any height in any floor	Sft			
62.	Providing and fixing approved quality CP brass Toilet paper holder	No.			
63.	Providing and fixing CP Mixer 1/2 inches (15 mm) (Faisal/Master or equivalent) lever type Pakistani complete in all respect	No.			
64.	Providing manhole type 'A' size 2 feet x 1-1/2 feet or 610 mm x 457 mm (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches (100 mm to 305 mm) dia Pipes upto 3 feet-11 inches (1.19 m) depth with 16 inches (406 mm dia (inside) cast iron cover and frame (weight 1 Cwt 1. Qtr) (63.5 kg) fixed in R.CC 1:2:4 slab 4 inches (102 mm) (thick burnt brick masonry walls 9 inches (229 mm) thick set in 1:4 cement mortar 6 inches (150 mm) 1:3:6 CC in foundation, 1:2:4 CC in benching and 1/2 inch (13 mm) thick cement plaster in 1:3 CM, to all inside walls surfaces channels and benching etc and to top including making requisite number of main and branches channels	No.			
65.	Providing and fixing approved brass sliding bolts or aldrop bolts 9" x 5/8" (229 mm x 16 mm) size with necessary brass screws and iron bolts and nuts	No.			
66.	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	No.			
	Total = H				
<b>I. <u>SH: Electrification</u></b>					
34.	Dismantling of light and fan or call bell point all system of Wiring except wiring in recessed conduit including finishing and making good the wall as required.	pts			
35.	Dismantling of ordinary Plug point of all system of Wiring except wiring in recessed conduit including finishing and making good the wall as required.	pts			

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
36.	Dismantling of two way light point for stair or other similar purposes of all system of wiring except wiring in recessed conduit including finishing and making good the wall as required.	Nos			
37.	Dismantling of sub-main up-to 7/0.036 or 7/0.044 (6 mm <sup>2</sup> or 10 mm <sup>2</sup> ) all type of wiring except wiring in recessed conduit including finishing and making good the wall as required.	Mtr			
38.	Dismantling Of all type of fittings including finishing and making good the wall as required.	Nos			
39.	Re-Wiring for light, fan or call bell point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire in 20 mm (3/4") dia PVC conduit fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	points			
40.	Re-Wiring for plug point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire in 20 mm (3/4") dia PVC conduit fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	points			
41.	Replacement of u/s and w/o SP switch with new one 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips ).	Nos			
42.	Replacement of u/s and w/o SP switch 13 Amp with new one 13 Amps Polycarbonate flame retardant 3Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips ).	Nos			
43.	Replacement of u/s and W/o SP switch 15 Amp with new one 15 Amps Polycarbonate flame retardant 3Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	Nos			
44.	Supplying & fixing or Wireless remote bell of superior quality complete in all respect as approved by the Engineer Incharge as required.	Nos			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
45.	Replacement of u/s and W/o LED tube light With new one recessed / surface mounted LED Panel Light including driver, having warm / neutral White / cool white colour, 80-100 lm/watts efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (PHILIPS/SIGNIFY. OSRAM, GE, Thorn)				
a.	34-36 Watts (2 x 2)	Nos			
46.	Replacement of u/s and W/o LED tube light with new one recessed / surface mounted ceiling lights / downlights including driver, having warm / neutral white / cool white colour, 80-90 lm/watts efficiency, 0.9 or above power factor, 20000 - 25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (PHILIPS/SIGNIFY, OSRAM, GE, Thorn)				
a.	11-13 Watts	Nos			
b.	22-24 Watts	Nos			
47.	Replacement of u/s and W/o LED tube light with new one LED Batten Lights including driver, having warm Neutral White / cool white colour, 90 -100 lm/watts efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (PHILIPS/SIGNIFY, OSRAM, GE, Thorn)				
a.	7-9 Watts	Nos			
48.	Replacement of u/s and W/o Ceiling Fan with new one Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, standard length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Pak, Royal, GFC, Younas, Millat.	Nos			
49.	Replacement of u/s and W/o Fan dimmer with new one Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated powder coated. metal board recessed In the wall or column Including connection as required (Schneider / Philips )	Nos			



Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
50.	Replacement of u/s and W/o wall bracket fan dimmer with new one 45 Cm (18") sweep wall bracket fan complete with blades. regulator & puling cord switch. fitted on wall or column With GI clip including connection as required Pak, Royal, GFC, Younas, Millat	Nos			
51.	Replacement of u/s and W/o Exhaust fan 30 Cm (12") sweep. metallic body Exhaust fan complete with blades, motor. etc fitted In existing hole including connection With 14/.0076" flexible wire complete as required Pak. Royal, GFC, Younas, Millat	Nos			
52.	Replacement of u/s and W/o Exhaust fan 30 Cm (12") sweep. Plastic body Exhaust fan complete with blades. motor. etc fixed in existing hole Including connection with 14/.0076" flexible wire complete as required Pak. Royal, GFC, Younas, Millat	Nos			
53.	Providing & installing False Ceiling Fan (Box Fan) With remote, 24"(2' x 2') size including connections. complete in all respect as approved by the Engineer Incharge (Voldam / Pak / Royal)	Nos			
54.	Re-Wiring for sub-main with 2x 2.5 mm <sup>2</sup> , PVC Insulated wire 300/500 volts grade, single core. stranded copper conductor wire in 20 mm (3/4")diauPVC conduit recessed in the wall, column and roof etc including 1.5 mm <sup>2</sup> PVC insulated wire single core wire as ECC as required.	Mtr			
55.	Re-Wiring for sub-main with 2x 4 mm <sup>2</sup> , PVC insulated Wire 300/500 volts grade, single core. stranded copper conductor wire in 20 mm (3/4")diauPVC conduit recessed in the wall, column and roof, etc. Including 1.5 mm <sup>2</sup> PVC insulated wire single core wire as ECC as required	Mtr			
56.	Re-Wiring for sub-man with 2x 6 mm <sup>2</sup> . PVC insulated Wire 300/500 volts grade. Single core, stranded copper conductor wire in 25 mm (1")diauPVC conduit recessed in the wall. column and roof, etc. including 2.5 mm <sup>2</sup> PVC Insulated Wire single core Wire as ECC as required	Mtr			
57.	Replacement of w/o main cable with new one 4 core, PVC Insulated & PVC sheathed. 600/1000 volts grade with stranded copper conductor, un armored. L.T cable in existing all kind of conduit or cable duct as per Pak P.W.D specification as required				
a.	16 mm <sup>2</sup>	Mtr			

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
58.	Supply & fixing 50mm (2") diauPVC conduit With all especial such as bends. sockets, Junction etc. fitted on surface as required	Mtr			
59.	Supply & fixing 20mm ( 3/4") diauPVC conduit With all especial such as bends. sockets. Junction etc. recessed in the wall or column as required	Mtr			
60.	Supply & fixing 25mm (1") diauPVC conduit with all especial such as bends, Sockets, Junction etc. recessed in the wall or column as required	Mtr			
61.	Replacement of un-serviceable and burnt out 6 to 32 Amps single pole moulded case circuit breaker with new one as per existing size and sample as required	Nos			
62.	Replacement of un-serviceable and burnt out 15 to 60 Amps (Low breaking Capacity) Triple pole moulded case circuit breaker with new one as per existing size and sample as required.	Nos			
63.	Replacement of un-serviceable and burnt out 75 to 100 Amps (Low breaking Capacity) Triple pole moulded case circuit breaker with new one as per existing size and sample as required.	Nos			
64.	Replacement of un-serviceable cubical type metal sheed distribution board with new one cubical type metal sheet vermin protected LT panel board as per drawing with locking arrangement duly powder coated l/c all fastening devices and electrical wire/ leads for internal connection, incoming and outgoing breakers complete in all respect as following with components (Pel. Electrech, Electromech, JEI, CEEC, Power Tech or equivalent).				
	<b><u>Incoming</u></b>				
	1 No.x TP MCCB 250-400 A Adj				
	1 No. x Busbar				
	2 Nos. x Selector Switch				
	1 No. x Volt meter				
	1 No. x Ammeter				
	3 Nos x Indication lights				
	<b><u>Outgoing</u></b>				
	4 No. x TP MCCB 100 Amp	Job			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
65.	Replacement of un-serviceable cubical type metal sheed distribution board with new one cubical type metal sheet vermin protected Distribution board as per drawing with locking arrangement duly powder coated l/c all fastening devices and electrical wire/ leads for internal connection, incoming and outgoing breakers complete in all respect as following with components (Pel Electrech, Electromech, JEI CEEC Power Tech or equivalent)				
	<b>Incoming</b>				
	1 No x TP MCCB 10-60 A				
	1 No x Busbar				
	2 Nos x Selector Switch				
	1 No x Volt meter				
	1 No x Ammeter				
	3 Nos x Indication lights				
	<b>Outgoing</b>				
	36 No x SP MCCB 6-32 Amp	Job			
	Total = I				
<b>J. Passive work for creation of 200 nodes of Networking</b>					
9.	Supply Of Branded UTP Cat-6 RJ-45 Toolless I/O With Shuttered White, 1G Supported	Nos			
10.	Supply Of Branded 24 Port Patch Panel with Top Label Holder including 24 Cat-6 Toolless I/O With Shuttered Fully Loaded, 1G Supported	Nos			
11.	Supply Of Branded Front Cable Manager Horizontal, IU, PVC	Nos			
12.	Supply Of Branded Copper Patch Cord, UTP Cat-6 Patch Cord, RJ45 to RJ45, 1-Meter, PVC, 1G Supported	Nos			
13.	Supply Of Branded Copper Patch Cord, UTP Cat-6 Patch Cord, RJ45 to RJ45, 3-Meter, PVC, 1G Supported	Nos			
14.	Supply Of Branded 4-Pair UTP Cat-6 Cable, Solid Copper, PVC, 305-Meter Box, 1G Supported	Roll			
15.	ODF	Point			
16.	Fiber Splicing with Testing	Splice			
	<b>Total =J</b>				

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b>Grand Total = A + B + C + D +E +F +G +H +I +J =</b>					

**Appendix-A****SPECIAL STIPULATIONS**

1.	Employer's Authority to issue Variation in emergency	10% of the Contract Price
2.	Time for Furnishing Program	Within 5 days from the date of receipt of Letter of Acceptance.
3.	Time for Commencement	Within 5 days from the date of signing of Contract Agreement.
4.	Time for Completion	18 Weeks for whole of the works
5.	Amount of Liquidated Damages	0.1% of Contract Price for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price.
6.	Amount of Bonus	Nil and NA.
7.	Defects Liability Period	90 days from the effective date of Taking Over Certificate.
8.	Percentage of Retention Money	10 % of the contract amount
9.	Minimum amount of Interim Payment Certificates (Running Bills)	Rs. 100,000/-
10.	Time of Payment from delivery of Engineer's Interim Payment Certificate to the Employer.	7 days
11.	Mobilization Advance (interest free)	Nil and NA.
12.	Price Adjustment	Nil and NA.

**TENTATIVE CONSTRUCTION SCHEDULE**

The bidder/contractor shall take into consideration the following tentative construction schedule of works while preparing the Schedule;

<b>Section of works</b>	<b>Time for Completion from the receipt of Engineer's Notice to Commence</b>
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Ceiling)</b>	4 week
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Paint Work)</b>	2 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Door)</b>	1 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Aluminum Windows)</b>	1 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Blinds)</b>	1 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Cabinets)</b>	1 week
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Tiles Flooring)</b>	2 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Renovation of Bathrooms)</b>	4 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(SH; Electrification)</b>	1 week
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Passive work for creation of 200 nodes of Networking)</b>	1 week
<b>Total:</b>	<b><u>18 Weeks</u></b>

**LIST OF MAJOR EQUIPMENT**

The Bidder will provide a list of all major equipment and related items to carry out the Works. The information shall include make, type, capacity, and number of all equipment which shall be in sufficient to complete the work.

<b>Sr. No.</b>	<b>Equipment</b>	<b>Description</b>	<b>No.</b>
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

**LIST OF RECOMMENDED MANUFACTURERS**

The manufacturer references provided here below are indicative of minimum quality and specifications required for such materials. Any other manufacturer items having at least the same quality and specifications are acceptable subject to the approval of the Employer/Engineer.

The Contractor should note that only material from those manufacturers specified in the list of recommended manufacturers shall be allowed to be used on this Project. The Contractor shall submit literature/catalogue/samples etc. of all the items from each of the specified manufacturer to the Engineer who shall then decide and approve the sample and the manufacturer after consent from the Employer. Where the item involves any finishes such as paints, external coatings, etc. the Contractor shall erect mock-up samples of the specified manufacturers for the selection and approval of the Engineer.

The responsibility lies with the Contractor for establishing the genuineness of any material/product/item for its make and origin as specified below:

**CIVIL WORKS**

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
1. 1.	Brick, Sand, fair face Brick (Gutka) Crushed Stone Aggregate	Source as approved by the "Engineer" ,
2.	Steel Reinforcement	Manufactured from Pakistan Steel Mill billet, and should conform to the Technical Specifications.
3.	Paints & Varnish	ICI Dulux Burger Robbialac Nippon Paint
4.	Hardware Stays and Handles	Pistol Sitara Milas or approved equivalent
5.	Mirror (looking glass)	Best quality locally available as approved by the Engineer
6.	Glass for Windows & Ventilators	Best quality locally available as approved by the Engineer
7.	Concrete Pavers	Primecrete Tuff Pavers Envicrete or Approved Equivalent
8.	False Ceiling & Paneling for Doors	DAMPA Industries OWA Industries or Approved Equivalent
9.	Aluminum Works	ALCON, Chawla Aluminum Pakistan ALCO (Pvt.) Ltd. Global. Lucky



<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
		Sana Aluminum Industries (Pvt.) Ltd. Or approved equivalent
10.	Admixture	Sika Silver Streak (Pvt) Ltd
11.	Termite Proofing	MIRAGE 5% SC Biflex Wonder 25SC
12.	Ceramic Tiles	Stile Master Forte
13.	Porcelain Tiles	RAK Grannito
14.	Textured Coating	Rock Shield Rock Wall Grit Wall Finishes Or approved equivalent
15.	PP-PU Doors	AuVitronics Limited Or approved equivalent

#### PLUMBING WORKS

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
1.	Sanitary Fixtures	Porta Or approved equivalent.
2.	Sanitary Fitting	Sonex Master Or approved equivalent
3.	Polyethylene (PE) Pipes	Dadex BBJ IIL HITECH BETA PELIKAN Pipe (CIVIC) Or approved equivalent
4.	Fittings in Polyethylene (PE)	As recommended by the manufacturer.

#### ELECTRIC WORKS

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
1.	Circuit Breakers MCCBs, MCBs	Legrand (EU origin) Schneider Electric (EU origin) ABB (EU origin)

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
		Or approved equivalent
2.	LT/ HT Cables, Single Core & Multi Core	Pakistan Cables (Pakistan) Newage Cables (Pakistan) Pioneer Cables (Pakistan) Fast Cables (Pakistan) Or approved equivalent
3.	Wiring Accessories (Switches, Sockets)	Clipsal (By Schneider Electric (Australia)) Legrand (France) ABB (EU origin) Or approved equivalent
4.	ON / OFF Push Buttons	Maruyasu (Japan) Legrand (France) Fuji (Japan) Or approved equivalent
5.	PVC Conduits & accessories	Dadex (Pakistan) Beta (Pakistan) AdamJee (Pakistan) Or approved equivalent
6.	Fans (Ceiling, Bracket, Exhaust)	Lahore (Pakistan) Millat (Pakistan) Pak Fan (Pakistan) Or approved equivalent
7.	Lighting Fixtures	Philips (Pakistan/ China) Pierlite (Pakistan/ China) Sunlight (Pakistan/ China) Paklite (Pakistan) Or approved equivalent

NOTE: The bidder should note that only equipment/materials from the above approved manufacturers or approved equal shall be allowed to be used on this project provided their products meet the specified requirements. All equipment/material must be supplied from authorized/sole distributors. Manufacturer's authorization certificate in original must be provided.

Authorized Signature and official Seal:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**GENERAL CONDITIONS OF THE CONTRACT**  
**[Notes on the Conditions of Contract]**

The Conditions of Contract comprise two parts:

- (a) Part I - General Conditions of Contract**
- (b) Part II - Particular Conditions of Contract - Covered in Section A**

Part I – General Conditions of Contract is based on FIDIC (Federation International des Ingenieurs-Conseils) Condition of Contracts fourth edition, 1987, reprinted in 1992 with further amendments.

The standard text of the General Conditions of Contract chosen has been retained intact to facilitate its reading and interpretation by bidders and its review by the Client. Any amendments and additions to the General Conditions, specific to the contract in hand, has been introduced in the Particular Conditions of Contract.

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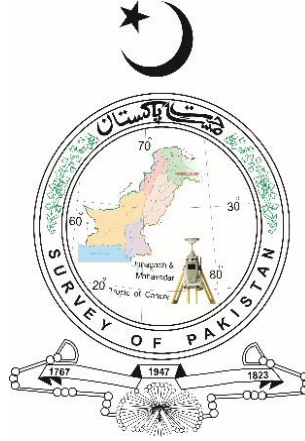
“Copies of the FIDIC Conditions of Contract can be obtained from:  
FIDIC Secretariat  
P.O. Box 86  
1000 Lausanne 12  
Switzerland  
e-mail: [fidic.pub@fidic.org](mailto:fidic.pub@fidic.org) – [FIDIC.org/bookshop](http://FIDIC.org/bookshop)]

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**Government of Pakistan  
SURVEY OF PAKISTAN  
DIRECTORATE OF PRINTING & GEODESY**

**PROJECT OF ESTABLISHMENT OF NEW GENERATION NATIONAL GEODETIC  
DATUM OF PAKISTAN**



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**Renovation of Geodetic Unit Building for Establishment of Geodetic Data Center  
At  
Head Quarters Survey of Pakistan, Faizabad Murree Road, Rawalpindi**

**TENDER DOCUMENT**

**January, 2024**

Directorate of Printing & Geodesy  
**Headquarters Survey of Pakistan**  
Faizabad, Murree road, Rawalpindi  
Tele: +92-51-9290206, Fax: +92-51-9290229

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**Government of Pakistan**  
Ministry of Defence  
**Survey of Pakistan**  
**Directorate of Printing & Geodesy**  
Establishment of New Generation  
National Geodetic Datum of Pakistan

## **INVITATION TO BID**

**Subject: - RENOVATION OF GEODETIC UNIT BUILDING & ESTABLISHMENT OF GEODETIC DATA CENTER FOR DATUM PROJECT AT HQ SURVEY OF PAKISTAN, FAIZABAD, MURREE ROAD, RAWALPINDI**

1. Survey of Pakistan a National Surveying & Mapping Agency invites sealed bids under the project titled “**Establishment of New Generation National Geodetic Datum of Pakistan**”, as per PEPPRA rule article 36(a) under Single Stage-single Envelope procedure from the reputed contractors, duly licensed from PEC registered with Pak PWD / MES / NHA / FWO. Tender documents are available for the interested bidders at website of Public Procurement Regulatory Authority, ([www.ppra.org.pk](http://www.ppra.org.pk)), which can be downloaded or also can be obtained from Directorate of Printing and Geodesy, HQ Survey of Pakistan, Rawalpindi. Before submission of bid/rates, please visit HQ Survey of Pakistan site for assessment of work in detail on working days.
2. The contractors will have to deposit bid security equivalent to 5% or total cost of work (out of which 2% shall be accompanied with tender/offer as earnest money and remaining 3% after acceptance of tender/offer as security deposit). The quotation/tender should reach this office latest by **6<sup>th</sup> Feb 2024 up to 10:30 am** which will be opened on the same day at 11:00 am noon in the presence of contractors or their representatives who may like to be present. The outer envelope should clearly mention “**Tender for Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**”.
3. SoP reserves the right to accept or reject any or all offers/quotations in accordance with the relevant clause of PPRA, Government or Pakistan Rules.

**(Asif Ullah Khan Mehsood)**  
Chairman Civil Works Committee  
Deputy Director  
Survey of Pakistan  
Contact No: 051-9290210

## **SURVEY OF PAKISTAN**

DIRECTORATE OF PRINTING & GEODESY

### **RENOVATION OF GEODETIC UNIT BUILDING & ESTABLISHMENT OF GEODETIC DATA CENTER FOR DATUM PROJECT AT HQ SURVEY OF PAKISTAN, FAIZABAD, MURREE ROAD, RAWALPINDI**

Last date for receipt of Tender is 6<sup>th</sup> February 2024 up to 10:30 a.m and will be opened at 11:00 am on the same date at Directorate of Printing & Geodesy, Survey of Pakistan situated at Faizabad, Murree Road, Rawalpindi in the presence of such Tenderers or representatives who may wish to be present.

#### **TERMS AND CONDITIONS OF THE CONTRACT**

##### **1. THE EMPLOYER**

The Employer means "Survey of Pakistan (SoP). "Employer's Representative" is Director Printing & Geodesy (Project Director), or any other person/ appointed by and be responsible to the Employer and shall carry out such duties and exercise such authority as may be delegated to him by the Employer.

##### **2. BIDDER OR TENDERER OR CONTRACTOR**

The Bidder, Tenderer or Contractor means any person or persons, company, corporation or firm submitting a Bid or Tender. Contractor means bidder or Tenderer who wins the contract, and execute the work under this contract.

##### **3. TENDER**

"Tender" is synonymous with "Bid" and the word "Tender Documents" with "Bidding Documents".

##### **4. CONTRACT OR PROJECT**

The words "Contract" and "Project" are synonymous to each other here and within the meanings of this document, Contract or Project mean "**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**"

##### **5. LANGUAGE AND LAW**

The Contract Documents shall be drawn up in the English language and the Contract shall be subject to the Laws of Islamic Republic of Pakistan.

##### **6. SOURCE OF FUNDS**

Survey of Pakistan (SoP), also called the Employer, has its funds under the project “Establishment of New Generation National Geodetic Datum of Pakistan”, which will be used for payments to successful bidder under the Contract for which these Bidding Documents are issued.

#### 7. ELIGIBLE BIDDERS

This Invitation for Bids is open to all bidders meeting the following requirements:

- (1). Duly licensed by the Pakistan Engineering Council (PEC) in the category relevant to the value of the Works.
- (2). Duly registered with any of the departments Pak PWD or NHA or MES or FWO.

#### 8. ONE BID PER BIDDER

Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid will be disqualified.

#### 9. MATERIAL/PRODUCT/SPECIFICATION

The required specification/configuration & other details, available with Tender document can be filled in the attached schedule or company's letterhead

#### 10. PRICE

The prices quoted would be inclusive of all charges/Taxes livable by the local Authority/Provincial/Federal Governments including loading/un-loading, lifting & transportation charges to the place of work.

#### 11. BID OR CONTRACT PRICE

Bid or Contract Price means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works, subject to such additions thereto or deductions there from as may be made, and remedying of any defects therein in accordance with the provisions of the Contract

#### 12. INSPECTION

The goods shall be subjected to Inspection by or representatives of the Company nominated by the Management / purchase committee and the decision of the Inspection Officer shall be final and binding on the Contractor/Supplier. In the event of rejection of the material, the rejected material shall be removed from the SoP's premises at the cost of the Contractor/Supplier.



### 13. BID SECURITY

All bidders are required to submit amount of bid security @ 5% of total value of contract (out of which 2% shall be accompanied as earnest money with Tender/offer and remaining 3% after acceptance of Tender as security deposit). The detail is as under:

#### (1). EARNEST MONEY

No tender shall be considered as valid unless it is accompanied by the Earnest Money equal to 2% of the total value of contract in the form of a Bank Pay Order in favor of Survey of Pakistan from any scheduled Bank. No other form of payment of Earnest Money shall be acceptable. The earnest money shall be liable for forfeiture, in case the tenderer withdraws his tender during the period the tenders are opened for acceptance. The Earnest Money of unsuccessful Tenderers will be returned to them after expiry of the validity of the tender/offer.

#### (2). SECURITY DEPOSIT

The successful tenderer shall furnish a Bank Pay Order equal to 3% of the total value of contract in the form of a Bank Pay Order in favor of Project Director, Establishment of New Generation National Geodetic Datum of Pakistan from a scheduled Bank within (3) three days from the date of acceptance of the tender. No interest shall be payable by the Project Director, Establishment of New Generation National Geodetic Datum of Pakistan on these deposits. In the event of breach of any terms of the contract, apart from forfeiture of the earnest money & security deposit, Project Director, Establishment of New Generation National Geodetic Datum of Pakistan shall have the right to purchase the un-supplied quantity of Stores at the risk and cost of Suppliers.

#### (3). REFUND OF EARNEST MONEY AND SECURITY DEPOSIT

Earnest money & Security Deposit shall be refundable on completion of supplies/services and satisfactory performance of all the terms of the contract.

### 14. CURRENCIES OF BID AND PAYMENT

The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. The rates of exchange to be used by the bidder for currency conversion shall be the TT&OD Selling Rates published or authorized by the State Bank of Pakistan prevailing on the date 28 days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the Contract.

15. BID VALIDITY

Bids shall remain valid for the period of 90 days. In exceptional circumstances, prior to expiry of the original bid validity period, the SoP may request that the bidders to extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid but will be required to extend the validity of his Bid Security for the period of the extension.

16. SEALING AND MARKING OF BIDS

- (1). Each bidder shall submit ORIGINAL Bid duly sealed and put in envelope and marked as such, **Chairman Purchase Committee, Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**". It will also bear the name and identification number of the contract as defined above.
- (2). If the outer envelope is not sealed and marked as above, the SoP will assume no responsibility for the misplacement or premature opening of the Bid.

17. CORRECTION OF ERRORS

- (1). Bids will be checked for any arithmetic errors. Errors will be corrected by SoP as per following:
  - a. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
  - b. where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the SoP there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line-item total as quoted will govern and the unit rate will be corrected.
- (2). The amount stated in the Bill of Quantities will be adjusted by the SoP in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, shall be considered as binding upon the bidder.

- (3). If the bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited.

#### 18. LATE BIDS

Any bid received by SoP after the deadline for submission of bids will be returned unopened to such bidder. Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse.

#### 19. MODIFICATION AND SUBSTITUTION OF BIDS

No bidder may modify and/or substitute his bid after submission.

#### 20. TIME SCHEDULE FOR COMPLETION OF WORK

The completion time of the work is **98 days (14 weeks)** from the date of signing of Contract Agreement.

#### 21. PAYMENT SCHEDULE

- (1). Payment will be made as per following schedule:
- a. NO ADVANCE SHALL BE PAID.
  - b. 50% of the payment will be released after the finishing in all respects the works
    - Finishing in all respect of ceiling works
    - Finishing in all respect of door installations
    - Exemplary execution of aluminum window installations
    - Finishing in all respect of tiles flooring
    - Finishing in all respect of renovation of bathrooms
  - c. 20% of the payment will be released after the finishing in all respects the works
    - Finishing in all respect of of paint works
    - Finishing in all respect of blinds installation
    - Finishing in all respect of cabinets
    - Finishing in all respect of electrification works
    - Finishing in all respect of networking works
  - d. 30% will be released after completion of work as per satisfaction of the employer.
- (2). The Payment will be made on production of bill(s) along with relevant

satisfactory inspection certificates and official receipt from the contractor.

22. INCOME TAX/GST

The amount of the Income Tax & General Sales Tax shall be deducted/ levied from the total amount of bill (s) at source, if applicable as per Standing Instructions of the Government.

23. SIGNATURE OF THE TENDERERS AND CORRECTION/ALTERATION, IF ANY

The person signing the quotation/offer on behalf of the tenderer must specify the capacity like Proprietor, Manager, Partner in which he is signing the quotation/offer and the authority to do so, further any correction or alteration in the quotation/offer must be signed in full by the same person who has signed the quotation/ offer for and on behalf of the tenderer.

24. REJECTION OR ACCEPTANCE OF TENDERS

Survey of Pakistan (SoP) reserves the right to accept or reject any or all tenders wholly or partially in accordance with the relevant clause of PPRA, Government of Pakistan Rules. It shall also have full authority to split the tender and distribute the supply among various tenderers and the tenderer shall supply the quantity for which his tender has been accepted.

25. DEFECTIVE STORES

If the material/goods used or any portion thereof is declared defective by the Inspection Committee nominated by the Company. or found defective/substandard at the time of ultimate use, the same will stand rejected under the terms & conditions of the contract and the Tenderer shall replace such material at their risk and cost.

26. LIQUIDATED DAMAGES

SoP reserves the right to grant extension of time in work completion period for such period as it deems fit in case of delay. Unless, otherwise decided, any extension so granted shall be subject to payment of liquidated damages. The tender form should be signed in token of acceptance of the terms & conditions of the Tender.

27. NOTIFICATION OF AWARD

Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted.

28. SIGNING OF CONTRACT AGREEMENT

Within 5 days from the acceptance by the successful bidder the Contract Agreement will be signed between the parties.

29. GENERAL PERFORMANCE OF THE BIDDERS

The Employer may, in case of consistent poor performance of the Bidder as reported to him from any source, inter alia, may reject his bid.

30. Termination of Contract for Employer's Convenience

The Employer shall be entitled to terminate the Contract at any time for the Employer's convenience after giving 7 days prior notice to the Contractor.

All forms and schedules of the tender attached herewith shall be duly filled in and signed by the Bidder.

**(Name & Designation)**  
**Foregoing Terms & Conditions are accepted.**

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SEAL & SIGNATURES OF THE TENDERER WITH FULL  
NAME AND DESIGNATION OF THE SIGNATORY IN  
BLOCK LETTER

### **FORM OF CONTRACT AGREEMENT**

1. THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the \_\_\_\_\_ day of \_\_\_\_\_ (month) 20\_\_\_\_ between \_\_\_\_\_ (hereafter called the "Employer") of the one part and \_\_\_\_\_ (hereafter called the "Contractor") of the other part.

2. WHEREAS the Employer desires execution of work titled "**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**" by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

3. NOW this Agreement witnesseth as follows:

- (1). In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- (2). The following documents after incorporating addenda, if any, shall be deemed to form and be read and construed as part of this Agreement, viz:
  - i. This Contract Agreement
  - ii. Letter of Acceptance
  - iii. Terms and Conditions of the Contract
  - iv. General Conditions – Part I Terms & Conditions of the Contract (Particular Conditions of the Contract Part – II).
  - v. Bill of Quantities
  - vi. Completed Appendices to Bid
  - vii. Drawings, if any
  - viii. Specifications, if any
  - ix. \_\_\_\_\_ (any other)
- (3). In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants

with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.

- (4). The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

4. IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor  
(with Official Seal)

Signature of Employer  
(with Official Seal)

Date: \_\_\_\_\_

5. Signed, Sealed and Delivered in the presence of:

Witness:  
(Name, CNIC and Address)

Witness:  
(Name, CNIC and Address)

Date: \_\_\_\_\_

**SURVEY OF PAKISTAN**  
**DIRECTORATE OF PRINTING & GEODESY**  
**RAWALPINDI**

**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for  
Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi”**

**BILL OF QUANTITIES**

1. The Bill of Quantities (BoQ) shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the BoQ are estimated and provisional and are given to provide a common basis for bidding.
3. The basis of payment will be based on the actual quantities of work executed and measured and verified.
4. The rates and prices entered in the Priced BoQ shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
5. No claim for extra payment will be admissible on account of anticipated profit or variation in overheads expenditure.
6. No adjustment in the unit rate set forth in the Priced BoQ be made because of any increase or decrease in the quantities indicated therein.
7. The following abbreviations for the Units have been used in the Priced Bill of Quantities:

<b>Unit</b>	<b>Abbreviations</b>
Running foot	Rft or rft
Square foot	Sft or sft
Cubic foot	Cft or cft.
Kilogram	Kg or kg.
Number	No. / Each
Lump Sum Job	Job



**SURVEY OF PAKISTAN**  
**DIRECTORATE OF PRINTING & GEODESY**  
**RAWALPINDI**

**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**

**SUMMARY OF BILL OF QUANTITIES**

<b>SL NO.</b>	<b>WORK</b>	<b>ESTIMATED COST</b>
1.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Ceiling)</b>	Rs.       /-
2.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Paint Work)</b>	Rs.       /-
3.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Door)</b>	Rs.       /-
4.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Aluminum Windows)</b>	Rs.       /-
5.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Blinds)</b>	Rs.       /-
6.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Cabinets)</b>	Rs.       /-
7.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Tiles Flooring)</b>	Rs.       /-
8.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Renovation of Bathrooms)</b>	Rs.       /-
9.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(SH: Electrification)</b>	Rs.       /-
10.	Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Passive work for creation of 200 nodes of Networking)</b>	Rs.       /-
<b><u>Grand Total:</u></b>		<b><u>Rs.       /-</u></b>

**SURVEY OF PAKISTAN**  
**DIRECTORATE OF PRINTING & GEODESY**  
**RAWALPINDI**

**Renovation of Geodetic Unit Building & Establishment of Geodetic Data Center for Datum Project at HQ Survey of Pakistan, Faizabad, Murree Road, Rawalpindi**

**BILL OF QUANTITIES**

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b><u>RENOVATION OF GEODETIC UNIT (GROUND FLOOR)</u></b>					
<b><u>A. Ceiling</u></b>					
1.	Providing & Fixing Gypsum Board 2' x 2' x 12mm tiles ceiling including aluminum T & L angle 1" x1" i.e. hanger clips, jointing clips & G.I wire etc complete in all aspects	Sft			
	Total =A				
<b><u>B. Paint Work</u></b>					
1.	Painting Woodwork with synthetic enamel paint of approved make and shade two coats over and including cost of one priming coat complete at any height complete in all aspects	Sft			
2.	Distempering with vinyl distemper (ICI) Dulux paintex of approved make and shade in two coats over and including cost of one priming coat of lime wash including sand papering, dusting and filling the holes, cracks and inequalities, if any, at any height complete in all aspects	Sft			
	Total = B				
<b><u>C. Door Work</u></b>					
1.	Taking out carefully shutters of doors and windows in ground floor and stacking as directed within three chains (91.5m)	No			
2.	Taking out door and window frames with or without hold fast in ground floor including cutting walls, stacking salvaged material (serviceable) and disposing off unserviceable material as directed within three chains (91.5m)	No			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
3.	Providing and fixing M.S. moulded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" (38 mm x 12mm) provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (38mm x 6mm) (2 Nos 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet ( point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4' x 3/16' section, treated with special red oxide primer coat all round including cutting holes and filling the cavity with cement concrete 1:2:4 etc. in any floor at any height complete as directed by the engineer	Rft			
4.	Providing and fixing on frames etc., with sunken iron screws, best quality deodar wood moulding, beading, architrave etc., of approved design over one square inch (6.45 sqm) and upto 2 square inches (13 sqm.) in cross section as required	Rft.			
5.	P/F 12mm thick tempered glass, swing door, upak made as per approved manufacturers (fixing through their approved fabricators), D-lock, silicon moving machines all accessories, cutting holes etc and making good damages etc complete in all aspects as required as per direction of engineer incharge	Sft			
6.	Providing and fixing wooden partition fully flushed with hard board (Masonite) on both face and side fixed on second quality deodar wood frame 3" x 1-1/4" (76mm x 32mm) at spacing not exceeding 24 inches (610 mm) horizontal x 18 inches (457mm) vertical including necessary wooden beading etc as required	Sft			
7.	Providing and fixing with C.P brass screws main door handle type yale lock (Italy made) of approved design, cutting wood etc, to required size, with two operating keys, as per direction of engineer incharge	No.			
8.	Providing and fixing with brass screws or specially supplied screws hydraulic door closer Rayobi of approved design, No. 62, Japan Make, cutting wood etc, to required shape and size as per engineer incharge	No.			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
9.	Providing and fixing 1-1/2 inches (38 mm) thick solid core deodar wood flushed veneered door shutters, with and including the cost of 3/8 inch Ash press facing on both faces, fixed over best quality deodar wood frame 2 inches wide around 6 inches wide lock rail and 2 <sup>nd</sup> class deodar wood solid core, i/c, 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement, complete in all aspects.	Sft			
10.	Providing and fixing 3/4-inch thick MDF door shutter of super gloss including frame 1-1/2 x 2 inch with necessary screws, lipping around and locking arrangements as directed by engineer incharge. and complete in all respect.	Sft			
	Total = C				
<b>D. <u>Aluminum Windows</u></b>					
1.	Providing and fixing fully glazed Champagne anodized aluminum sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan Cables and A.C.P (fixing through their approved fabricators), Prime model box section 101mm x 30mm and 2mm thick including the cost of aluminum netting, fittings, with all accessories cutting hole etc. complete in all aspects as per direction of engineer incharge.	Sft			
2.	Providing and fixing Tinted glass panes 5mm thick to M.S Box pipe/ Aluminum doors, windows and ventilators etc including the cost of labour complete in all respects.	Sft			
	Total = D				
<b>E. <u>Blinds</u></b>					
1.	Supplying and fixing venation Strip blinds horizontal and vertical of approved shade, quality & design including the cost of all accessories, complete in all respects.	Sft			
2.	P/F windows roll blinds sunscreen, dark out or translucent fabric-any color/ shade, best quality (Imported) with manual roll up arrangement complete in all aspects with all other required accessories and hardware from the approved supplier/manufacturers	Sft			
	Total = E				

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b>F. <u>Cabinets</u></b>					
1.	Dismantling burnt brick masonry in lime or cement mortar foundation. Basement, plinth and ground floor including staking salvaged material (Serviceable) and disposing of surplus material as directed within three chains chains (91.5m)	Cft			
2.	Providing and laying first class solid burnt brick masonry set in cement mortar 1:6 in straight or cured walls 9 to 13-1/2 inches (229 mm to 343 mm) thick including scaffolding, raking, out joints and curing etc. complete in ground floor superstructure.	Cft			
3.	1/2" (13mm ) thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mazzanine and ground floor including making edges, corners, and curing etc. complete.	Sft			
4.	Lacquer polishing including sealer on wood work on any height in any floor.	Sft			
5.	P/F kitchen cabinet wall mounted of 3/4" thick laminated board with best quality deodar wood frame and beading 1/8" thick hard board backing required section in approved pattern etc. fixed on wall with reawal pugs, screws i/c cost of glue, null, piano hinges, handles and painting or polishing etc. as drawing complete all as respect.	Sft			
6.	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor.	Sft			
7.	Providing and fixing approved quality stainless steel sink 33" x 18" pak make (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls 1/2" dia CP sink mixer 1-41/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of hole in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	No			
	Total = F				
<b>G. <u>Tiles Flooring</u></b>					

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1.	Dismantling cement/ tiled floor, dado or skirting in basement, plinth and ground floor including base mortar and stacking salvaged material service-able and disposing off unserviceable as directed within three chains, complete in all respects.	Sft	545		
2.	Providing and laying glazed/ nonskid vitrified porcelean tiles (polished) exceeding 3600 sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filer of approved quality as per directions of engineer in charge , complete in all respects	Sft			
3.	Providing & laying floor of 3/4 inches (19mm) thick granite stone, Pakistani original, more than 5 sq ft upto 7 sq ft (0.46 sq m upto 0.65 sq m) size fine dressed on the surface without winding in ground floor over 1 inch (25mm) lime mortar 1:2 (one lime, two sand) setting the marble tiles with grey cement slurry including curing, rubbing and polishing etc. complete, including the cost of motor, in all aspects	Sft			
Total = G					
<b>H. Renovation of Bathrooms</b>					
1.	Taking out carefully shutters of doors and window in ground floor and stacking as directed within three chains (91.5 meter)	No.			
2.	Taking outdoor and window frames with or without hold fasts in ground floor including cutting walls stacking salvaged material (serviceable and disposing off unserviceable material as directed within three chains (91.5 meter)	No.			
3.	Dismantling burnt brick masonry inline or cement mortar foundation, basement, plinth and ground floor including stacking salvaged material (serviceable and disposing off surplus material as directed within three chains (91.5 meter)	CFT			
4.	Dismantling lime or cement concrete in foundation or under floor basement, plinth and ground floor and disposing off surplus material as directed within three chains (91.5 meter)	CFT			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
5.	Dismantling cement tiled floor, dado or stacking in basement plinth ground floor including base mortar concrete in foundation or under floor basement, plinth and ground floor and stacking salvaged material (serviceable and disposing off surplus stuff as directed within three chains (91.5 meter)	Sft			
6.	Providing and laying first class solid burnt brick masonry set in cement mortar 1: 6 in straight or curved walls 9 to 13-1/2 inches (229mm to 343mm) thick including scaffolding, racking, out joints and curing etc. Complete in ground floor superstructure.	Cft			
7.	1/2" (13mm) thick cement plaster 1: 4 on walls in columns etc. in basement, plinth, mezzanine, and ground floor including making edges, corners, and curing etc. complete.	Sft			
8.	Providing and laying first class solid burnt brick masonry set in cement mortar 1: 6 in straight or curved walls 4-1/2 inches (114 mm) or less thickness including scaffolding, racking, out joints and curing etc. Complete in foundation, basement, and plinth (foundation and basement masonry up to 5 (1.52 Ru.m.) feet depth and plinth up to 4 feet (1.2 Ru.m.) height from ground level.	Cft			
9.	Providing and fixing unplasticized polyvinyl chloride pipe (UPVC) D class and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 ft deep, refilling, watering, ramming and disposal off surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 KM) (Working pressure 12KG/cm <sup>2</sup> ).				
	3 inches (40mm) dia pipe.	Rft			
	4 inches (100mm) dia pipe.	Rft			
	5 inches (125mm) dia pipe.	Rft			
	2 inches (100mm) dia pipe.	Rft			
10.	Providing and fixing PPRC pipe of approved make and specials including cost of cutting, jointing, fitting etc. completed as directed by Engineer In-charge.				
	(i) 25 mm dia pipe:	Rft			
	(ii) 32 mm dia pipe:	Rft			
11.	Providing and fixing Upvc multi floor trape of size with gratings including cutting making holes in walls columns and making good in 1:2:4	No.			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
12.	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded stone ballast 2 inches (51 mm) and down gauge in foundation including levelling compacting and curing etc complete	Cft			
13.	Providing and fixing MS moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to BSS 1245 having a single rebate size 1- 1/2" x 1/2" (38 mm x 13 mm) with provision of 3 Nos MS plate section 1-1/2" x 1/4" (38 mm x 6 mm) (2 Nos 6 inch long welded with frame at not less than 10 points and 1 No. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges fitted with one locking box of same sheet (point welded inside the frames). 6 Nos 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:2:4 etc in any floor at any height complete as directed by the Engineer In-Charge	Rft			
14.	Providing and laying 1/4" (6mm approx) thick of Pakistani make first grade-coloured glazed tiles from 1.5 Sft to 3 Sft size in dado and skirting in ground floor over 1/2" (13mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joint with white cement slurry to matching the colour and washing the tile, curing and cleaning etc complete.	Sft			
15.	Providing and laying floor of 1/4" (6mm approx) thick of Pakistani make first grade-coloured glazed tiles from 1 Sft to 2 Sft size in dado and skirting in ground floor over 1" (25mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joint with white cement slurry to matching the colour and washing the tile, curing and cleaning etc complete	Sft			
16.	P/F 1-1/2 inch (38 mm) thick best quality PVC/UPVC door shutter panelled (approved design) approved iron hinges and tower bolt, etc as required	Sft			



Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
17.	Providing and fixing best available quality Indian style white colour glazed earthenware Wash Down W.C pan complete with and including cost of Plastic seat 3 Galns (13.6 liters) Ivory Glazed earthenware low level flushing cistern with siphon fittings 1-1/2 inches (40 mm) dia white porcelain enamelled flush bend 3/4 inch (20 mm) dia G.I warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	No.			
18.	Providing and fixing best available quality European style white colour glazed earthenware Wash Down W.C pan complete with and including cost of Plastic seat, 3 Galns (13.6 liters) Ivory Glazed earthenware low level flushing cistern with siphon fittings 1-1/2 inches (40 mm) dia, white porcelain enamelled flush bend 3/4 inch (20mm) dia G.I warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	No.			
19.	Providing and fixing approved quality earthen ware glazed vanity basin standard size (White/light color) and including the cost of 1-1/4" dia brass waste 1-1/4" rubber plug and chrome plated brass chain PVC waste pipe 1-1/4" dia of approved pattern etc. complete	No.			
20.	Providing and fixing 22 inches cross 16 inches (560 x 406 mm) laboratory basin in white glazed earthenware (Pakistani) complete with and including the cost of brass oxidize board kit build into wall 1/2 inches (15 mm) dia Chrome plated mixer 1-1/4 inches (32 mm) rubber plug and Chrome plated brass chain 1-1/4 inches (32 mm) dia Bros waste of approved pattern 1-1/4 inches (32 mm) dia Chrome plated battle trap with unions and making requisite number of holes in walls plinth and floor for pipe connections and make good and cement concrete 1:2:4	No.			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
21.	Providing and laying floor of 3/4 inches (19 mm) thick Granite stone Pakistani Original more than 5 sq. ft. upto 7 Sq. ft. (0.46 Sq.m. upto 0.65 sq.m) size fine dressed on the surface without winding in ground floor over 1 inch (25 mm) lime mortar 1:2 (one lime, two sand) setting the marble tile with grey cement slurry including curing rubbing and polishing etc. complete, including the cost of mortar	Sft			
22.	Providing and laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs, per sq inch (15.52 N/mm <sup>2</sup> at 28 days with a mix not leaner than 1:2:4 in shelves 1-1/2 inches to 2 inches (38 to 51 mm) thick cast in situ including form works and its removal, compacting and curing etc complete	Cft			
23.	Providing and laying ribbed deformed steel reinforcement bars with guaranteed minimum yield stress of 40,000 psi with and including the cost of straightening cutting bending binding wastage complete in all kinds of RCC work	Kg			
24.	Providing and fixing CP tee stopcock (Faisal) 1/2 inch dia of approved quality	No			
25.	Providing and fixing CP bib cock (Faisal) 1/2 inch dia of approved quality with muslim shower.	No.			
26.	Providing and fixing bath room accessories of set of 6 pieces consist (Farsal 4108) of one cosmetic shelf, one towel rod with bracket one soap dish, one tooth brush holder with glass and cover one tissue paper holder one double hook one towel ring etc complete of approved quality	No.			
27.	Providing and fixing 1/2-inch (15 mm) dia plastic connection (1 metre) complete with two brass nuts and lining jointed to plastic pipe	No.			
28.	Providing and fixing CP bib cock (Faisal) 1/2-inch dia of approved quality	No.			
29.	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor	Sft			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
30.	Distemping with vinyle distemper (ICI) Dulux Paintex of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering dusting and filling the holes, cracks and inequalities, if any, at any height in any floor	Sft			
31.	Providing and fixing approved quality CP brass Toilet paper holder	No.			
32.	Providing and fixing CP Mixer 1/2 inches (15 mm) (Faisal/Master or equivalent) lever type Pakistani complete in all respect	No.			
33.	Providing manhole type 'A' size 2 feet x 1-1/2 feet or 610 mm x 457 mm (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches (100 mm to 305 mm) dia Pipes upto 3 feet-11 inches (1.19 m) depth with 16 inches (406 mm dia (inside) cast iron cover and frame (weight 1 Cwt 1. Qtr) (63.5 kg) fixed in R.CC 1:2:4 slab 4 inches (102 mm) (thick burnt brick masonry walls 9 inches (229 mm) thick set in 1:4 cement mortar 6 inches (150 mm) 1:3:6 CC in foundation, 1:2:4 CC in benching and 1/2 inch (13 mm) thick cement plaster in 1:3 CM, to all inside walls surfaces channels and benching etc and to top including making requisite number of main and branches channels	No.			
34.	Providing and foxing approved brass sliding botts or aldrop bolts 9" x 5/8" (229 mm x 16 mm) size with necessary brass screws and iron bolts and nuts	No.			
35.	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	No.			
	Total = H				
<b>I. <u>SH: Electrification</u></b>					
1.	Dismantling of light and fan or call bell point all system of Wiring except wiring in recessed conduit including finishing and making good the wall as required.	pts			
2.	Dismantling of ordinary Plug point of all system of Wiring except wiring in recessed conduit including finishing and making good the wall as required.	pts			

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
3.	Dismantling of two way light point for stair or other similar purposes of all system of wiring except wiring in recessed conduit including finishing and making good the wall as required.	Nos			
4.	Dismantling of sub-main up-to 7/0.036 or 7/0.044 (6 mm <sup>2</sup> or 10 mm <sup>2</sup> ) all type of wiring except wiring in recessed conduit including finishing and making good the wall as required.	Mtr			
5.	Dismantling Of all type of fittings including finishing and making good the wall as required.	Nos			
6.	Re-Wiring for light, fan or call bell point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire in 20 mm (3/4") dia PVC conduit fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	points			
7.	Re-Wiring for plug point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire in 20 mm (3/4") dia PVC conduit fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	points			
8.	Replacement of u/s and w/o SP switch with new one 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips).	Nos			
9.	Replacement of u/s and w/o SP switch 13 Amp with new one 13 Amps Polycarbonate flame retardant 3Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips).	Nos			
10.	Replacement of u/s and W/o SP switch 15 Amp with new one 15 Amps Polycarbonate flame retardant 3Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	Nos			
11.	Supplying & fixing or Wireless remote bell of superior quality complete in all respect as approved by the Engineer Incharge as required.	Nos			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
12.	Replacement of u/s and W/o LED tube light With new one recessed / surface mounted LED Panel Light including driver, having warm / neutral White / cool white colour, 80-100 lm/watts efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (PHILIPS/SIGNIFY. OSRAM, GE, Thorn)				
a.	34-36 Watts (2 x 2)	Nos			
13.	Replacement of u/s and W/o LED tube light with new one recessed / surface mounted ceiling lights / downlights including driver, having warm / neutral white / cool white colour, 80-90 lm/watts efficiency, 0.9 or above power factor, 20000 - 25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (PHILIPS/SIGNIFY, OSRAM, GE, Thorn)				
a.	11-13 Watts	Nos			
b.	22-24 Watts	Nos			
14.	Replacement of u/s and W/o LED tube light with new one LED Batten Lights including driver, having warm Neutral White / cool white colour, 90 -100 lm/watts efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge. (PHILIPS/SIGNIFY, OSRAM, GE, Thorn)				
a.	7-9 Watts	Nos			
15.	Replacement of u/s and W/o Ceiling Fan with new one Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, standard length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Pak, Royal, GFC, Younas, Millat.	Nos			
16.	Replacement of u/s and W/o Fan dimmer with new one Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated powder coated. metal board recessed In the wall or column Including connection as required (Schneider / Philips )	Nos			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
17.	Replacement of u/s and W/o wall bracket fan dimmer with new one 45 Cm (18") sweep wall bracket fan complete with blades. regulator & puling cord switch. fitted on wall or column With GI clip including connection as required Pak, Royal, GFC, Younas, Millat	Nos			
18.	Replacement of u/s and W/o Exhaust fan 30 Cm (12") sweep. metallic body Exhaust fan complete with blades, motor. etc fitted In existing hole including connection With 14/.0076" flexible wire complete as required Pak. Royal, GFC, Younas, Millat	Nos			
19.	Replacement of u/s and W/o Exhaust fan 30 Cm (12") sweep. Plastic body Exhaust fan complete with blades. motor. etc fixed in existing hole Including connection with 14/.0076" flexible wire complete as required Pak. Royal, GFC, Younas, Millat	Nos			
20.	Providing & installing False Ceiling Fan (Box Fan) With remote, 24"(2' x 2') size including connections. complete in all respect as approved by the Engineer Incharge (Voldam / Pak / Royal)	Nos			
21.	Re-Wiring for sub-main with 2x 2.5 mm <sup>2</sup> , PVC Insulated wire 300/500 volts grade, single core. stranded copper conductor wire in 20 mm (3/4")diauPVC conduit recessed in the wall, column and roof etc including 1.5 mm <sup>2</sup> PVC insulated wire single core wire as ECC as required.	Mtr			
22.	Re-Wiring for sub-main with 2x 4 mm <sup>2</sup> , PVC insulated Wire 300/500 volts grade, single core. stranded copper conductor wire in 20 mm (3/4")diauPVC conduit recessed in the wall, column and roof, etc. Including 1.5 mm <sup>2</sup> PVC insulated wire single core wire as ECC as required	Mtr			
23.	Re-Wiring for sub-man with 2x 6 mm <sup>2</sup> . PVC insulated Wire 300/500 volts grade. Single core, stranded copper conductor wire in 25 mm (1")diauPVC conduit recessed in the wall. column and roof, etc. including 2.5 mm <sup>2</sup> PVC Insulated Wire single core Wire as ECC as required	Mtr			
24.	Replacement of w/o main cable with new one 4 core, PVC Insulated & PVC sheathed. 600/1000 volts grade with stranded copper conductor, un armored. L.T cable in existing all kind of conduit or cable duct as per Pak P.W.D specification as required				
a.	16 mm <sup>2</sup>	Mtr			

<b>Item No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
25.	Supply & fixing 50mm (2") diauPVC conduit With all especial such as bends. sockets, Junction etc. fitted on surface as required	Mtr			
26.	Supply & fixing 20mm ( 3/4") diauPVC conduit With all especial such as bends. sockets. Junction etc. recessed in the wall or column as required	Mtr			
27.	Supply & fixing 25mm (1") diauPVC conduit with all especial such as bends, Sockets, Junction etc. recessed in the wall or column as required	Mtr			
28.	Replacement of un-serviceable and burnt out 6 to 32 Amps single pole moulded case circuit breaker with new one as per existing size and sample as required	Nos			
29.	Replacement of un-serviceable and burnt out 15 to 60 Amps (Low breaking Capacity) Triple pole moulded case circuit breaker with new one as per existing size and sample as required.	Nos			
30.	Replacement of un-serviceable and burnt out 75 to 100 Amps (Low breaking Capacity) Triple pole moulded case circuit breaker with new one as per existing size and sample as required.	Nos			
31.	Replacement of un-serviceable cubical type metal sheed distribution board with new one cubical type metal sheet vermin protected LT panel board as per drawing with locking arrangement duly powder coated l/c all fastening devices and electrical wire/ leads for internal connection, incoming and outgoing breakers complete in all respect as following with components (Pel. Electrech, Electromech, JEI, CEEC, Power Tech or equivalent).				
	<b><u>Incoming</u></b>				
	1 No.x TP MCCB 250-400 A Adj				
	1 No. x Busbar				
	2 Nos. x Selector Switch				
	1 No. x Volt meter				
	1 No. x Ammeter				
	3 Nos x Indication lights				
	<b><u>Outgoing</u></b>				
	4 No. x TP MCCB 100 Amp	Job			

Item No	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
32.	Replacement of un-serviceable cubical type metal sheed distribution board with new one cubical type metal sheet vermin protected Distribution board as per drawing with locking arrangement duly powder coated l/c all fastening devices and electrical wire/ leads for internal connection, incoming and outgoing breakers complete in all respect as following with components (Pel Electrech, Electromech, JEI CEEC Power Tech or equivalent)				
	<b>Incoming</b>				
	1 No x TP MCCB 10-60 A				
	1 No x Busbar				
	2 Nos x Selector Switch				
	1 No x Volt meter				
	1 No x Ammeter				
	3 Nos x Indication lights				
	<b>Outgoing</b>				
	36 No x SP MCCB 6-32 Amp	Job			
	Total = I				
<b>J. Passive work for creation of 200 nodes of Networking</b>					
1.	Supply Of Branded UTP Cat-6 RJ-45 Toolless I/O With Shuttered White, 1G Supported	Nos			
2.	Supply Of Branded 24 Port Patch Panel with Top Label Holder including 24 Cat-6 Toolless I/O With Shuttered Fully Loaded, 1G Supported	Nos			
3.	Supply Of Branded Front Cable Manager Horizontal, IU, PVC	Nos			
4.	Supply Of Branded Copper Patch Cord, UTP Cat-6 Patch Cord, RJ45 to RJ45, 1-Meter, PVC, 1G Supported	Nos			
5.	Supply Of Branded Copper Patch Cord, UTP Cat-6 Patch Cord, RJ45 to RJ45, 3-Meter, PVC, 1G Supported	Nos			
6.	Supply Of Branded 4-Pair UTP Cat-6 Cable, Solid Copper, PVC, 305-Meter Box, 1G Supported	Roll			
7.	ODF	Point			
8.	Fiber Splicing with Testing	Splice			
	<b>Total =J</b>				
<b>Grand Total = A + B + C + D +E +F +G +H +I +J =</b>					



**Appendix-A****SPECIAL STIPULATIONS**

1.	Employer's Authority to issue Variation in emergency	10% of the Contract Price
2.	Time for Furnishing Program	Within 5 days from the date of receipt of Letter of Acceptance.
3.	Time for Commencement	Within 5 days from the date of signing of Contract Agreement.
4.	Time for Completion	18 Weeks for whole of the works
5.	Amount of Liquidated Damages	0.1% of Contract Price for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price.
6.	Amount of Bonus	Nil and NA.
7.	Defects Liability Period	90 days from the effective date of Taking Over Certificate.
8.	Percentage of Retention Money	10 % of the contract amount
9.	Minimum amount of Interim Payment Certificates (Running Bills)	Rs. 100,000/-
10.	Time of Payment from delivery of Engineer's Interim Payment Certificate to the Employer.	7 days
11.	Mobilization Advance (interest free)	Nil and NA.
12.	Price Adjustment	Nil and NA.

**TENTATIVE CONSTRUCTION SCHEDULE**

The bidder/contractor shall take into consideration the following tentative construction schedule of works while preparing the Schedule;

<b>Section of works</b>	<b>Time for Completion from the receipt of Engineer's Notice to Commence</b>
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Ceiling)</b>	3 week
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Paint Work)</b>	2 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Door)</b>	1 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Aluminum Windows)</b>	1 weeks (consistent with other jobs)
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Blinds)</b>	1 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Cabinets)</b>	1 week (consistent with other jobs)
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Tiles Flooring)</b>	2 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Renovation of Bathrooms)</b>	4 weeks
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(SH; Electrification)</b>	1 week
Renovation and Rehabilitation of Geodetic Unit, Ground Floor, survey of Pakistan, Rawalpindi <b>(Passive work for creation of 200 nodes of Networking)</b>	1 week (consistent with other jobs)
<b>Total:</b>	<b><u>14 Weeks</u></b>

**LIST OF MAJOR EQUIPMENT**

The Bidder will provide a list of all major equipment and related items to carry out the Works. The information shall include make, type, capacity, and number of all equipment which shall be in sufficient to complete the work.

<b>Sr. No.</b>	<b>Equipment</b>	<b>Description</b>	<b>No.</b>
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

**LIST OF RECOMMENDED MANUFACTURERS**

The manufacturer references provided here below are indicative of minimum quality and specifications required for such materials. Any other manufacturer items having at least the same quality and specifications are acceptable subject to the approval of the Employer/Engineer.

The Contractor should note that only material from those manufacturers specified in the list of recommended manufacturers shall be allowed to be used on this Project. The Contractor shall submit literature/catalogue/samples etc. of all the items from each of the specified manufacturer to the Engineer who shall then decide and approve the sample and the manufacturer after consent from the Employer. Where the item involves any finishes such as paints, external coatings, etc. the Contractor shall erect mock-up samples of the specified manufacturers for the selection and approval of the Engineer.

The responsibility lies with the Contractor for establishing the genuineness of any material/product/item for its make and origin as specified below:

**CIVIL WORKS**

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
1. 1.	Brick, Sand, fair face Brick (Gutka) Crushed Stone Aggregate	Source as approved by the "Engineer",
2.	Steel Reinforcement	Manufactured from Pakistan Steel Mill billet, and should conform to the Technical Specifications.
3.	Paints & Varnish	ICI Dulux Burger Robbialac Nippon Paint
4.	Hardware Stays and Handles	Pistol Sitara Milas or approved equivalent
5.	Mirror (looking glass)	Best quality locally available as approved by the Engineer
6.	Glass for Windows & Ventilators	Best quality locally available as approved by the Engineer
7.	Concrete Pavers	Primecrete Tuff Pavers Envicrete or Approved Equivalent
8.	False Ceiling & Paneling for Doors	DAMPA Industries OWA Industries or Approved Equivalent
9.	Aluminum Works	ALCOP, Chawla Aluminum Pakistan ALCO (Pvt.) Ltd. Global. Lucky

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
		Sana Aluminum Industries (Pvt.) Ltd. Or approved equivalent
10.	Admixture	Sika Silver Streak (Pvt) Ltd
11.	Termite Proofing	MIRAGE 5% SC Biflex Wonder 25SC
12.	Ceramic Tiles	Stile Master Forte
13.	Porcelain Tiles	RAK Grannito
14.	Textured Coating	Rock Shield Rock Wall Grit Wall Finishes Or approved equivalent
15.	PP-PU Doors	AuVitronics Limited Or approved equivalent

#### PLUMBING WORKS

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
1.	Sanitary Fixtures	Porta (China) Or approved equivalent.
2.	Sanitary Fitting	Sonex Master Or approved equivalent
3.	Polyethylene (PE) Pipes	Dadex BBJ IIL HITECH BETA PELIKAN Pipe (CIVIC) Or approved equivalent
4.	Fittings in Polyethylene (PE)	As recommended by the manufacturer.

#### ELECTRIC WORKS

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
1.	Circuit Breakers MCCBs, MCBs	Legrand (EU origin) Schneider Electric (EU origin) ABB (EU origin) Or approved equivalent

<b>Sr No:</b>	<b>Category</b>	<b>Manufacturer's / Supplier (Country of Origin)</b>
2.	LT/ HT Cables, Single Core & Multi Core	Pakistan Cables (Pakistan) Newage Cables (Pakistan) Pioneer Cables (Pakistan) Fast Cables (Pakistan) Or approved equivalent
3.	Wiring Accessories (Switches, Sockets)	Clipsal (By Schneider Electric (Australia)) Legrand (France) ABB (EU origin) Or approved equivalent
4.	ON / OFF Push Buttons	Maruyasu (Japan) Legrand (France) Fuji (Japan) Or approved equivalent
5.	PVC Conduits & accessories	Dadex (Pakistan) Beta (Pakistan) AdamJee (Pakistan) Or approved equivalent
6.	Fans (Ceiling, Bracket, Exhaust)	Lahore (Pakistan) Millat (Pakistan) Pak Fan (Pakistan) Or approved equivalent
7.	Lighting Fixtures	Philips (Pakistan/ China) Pierlite (Pakistan/ China) Sunlight (Pakistan/ China) Paklite (Pakistan) Or approved equivalent

NOTE: The bidder should note that only equipment/materials from the above approved manufacturers or approved equal shall be allowed to be used on this project provided their products meet the specified requirements. All equipment/material must be supplied from authorized/sole distributors. Manufacturer's authorization certificate in original must be provided.

Authorized Signature and official Seal:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**GENERAL CONDITIONS OF THE CONTRACT**  
**[Notes on the Conditions of Contract]**

The Conditions of Contract comprise two parts:

- (a) Part I - General Conditions of Contract**
- (b) Part II - Particular Conditions of Contract - Covered in Section A**

Part I – General Conditions of Contract is based on FIDIC (Federation International des Ingenieurs-Conseils) Condition of Contracts fourth edition, 1987, reprinted in 1992 with further amendments.

The standard text of the General Conditions of Contract chosen has been retained intact to facilitate its reading and interpretation by bidders and its review by the Client. Any amendments and additions to the General Conditions, specific to the contract in hand, has been introduced in the Particular Conditions of Contract.

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“Copies of the FIDIC Conditions of Contract can be obtained from:  
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