



SUMMARY OF TENDER COST-FACULTY RESIDENTIAL

BLOCK- A & BLOCK-B

AT

G.I.K INSTITUTE TOPI, SWABI

S#	Description	Block-A	Block-B	Total Cost(A+B)
1	Grey Works(Structure)			
2	Finishes Works(Architecture)			
3	External Work			
4	RCC Tanks System			
5	Electrical System			
6	Water Supply			
7	Su Gas			
8	Plumbing/Sewerage (Internal & External)			

Total Cost			
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TOTAL TENDER COST(A+B): Rs. _____

NAME OF FIRM: _____

SIGNATURE & STAMP

Note:- The contractor is responsible for dismantling the existing temporary prefab structure and for complete site clearance, all at their own cost.

BILL OF QUANTITIES

BLOCK-A

FACULTY RESIDENTIAL BLOCK -A

G.I.K INSTITUTE, TOPI

SWABI



BAYAR ASSOCIATES

Architects, Engineers And Planners

OFF.NO 85 2ND FLOOR, MOBEE PLAZA
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SUMMARY OF COST - FACULTY RESIDENTIAL BLOCK -A
G.I.K INSTITUTE TOPI, SWABI

S #	Description	Total Cost
1	Grey Works (Structure)	
2	Finishes Works (Architecture)	
3	External Work	
4	RCC Tanks System	
5	Electrical System	
6	Water Supply	
7	Sui Gas	
8	Plumbing / Sewerage (Internal & External)	
<i>Total Cost</i>		

**PROJECT: FACULTY RESIDENTIAL BLOCK -A
G.I.K INSTITUTE TOPI, SWABI**

BILL OF QUANTITY
(Grey & Finish Civil Work)

ENGINEERS COST ESTIMATE

SUB SUMMARY OF COST

S/No				Amount (Rs.)
A)	GREY WORKS CIVIL (Structure)			
1.0	Ground-Floor		-	-
2.0	First-Floor		-	-
3.0	Second-Floor		-	-
4.0	Mumty		-	-
		Total (Rs.)	-	-
B)	FINISH WORKS CIVIL (Architecture)			
1.0	Ground-Floor		-	-
2.0	First-Floor		-	-
3.0	Second-Floor		-	-
4.0	Mumty		-	-
		Total (Rs.)	-	-
		GRAND Total (Rs.) A+B (Building Only)	-	-
C)	OTHER WORK			
1.0	External Work			-
2.0	RCC TANKS SYSTEMS			-
		Total (Rs.)		-
		GRAND Total (Rs.)	-	-

PROJECT: FACULTY RESIDENTIAL BLOCK -A G.I.K INSTITUTE TOPI

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
A)	GROUND FLOOR				
1	Excavation				
	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead up to one chain (30 m) in ordinary soil.	Cft	13,027		
2	Compaction				
	Compaction of Natural Ground up to 95% Modified AASHTO density all as specified.	Sft	5,311		
3	Sand/Gassu Filling 2" thcik				
	Supplying and filling sand under floor; or plugging in wells	Cft	6,568		
4	Anti termite				
	Anti termite Treatment with "ABILITY 2.5% EC" by HextarGroup(Malasian care systems) to mix ABILITY 01 litre with 250 liters of water to make spray emulsion at foundation trenches (Bed & sides) under floor before laying hard core material and outside under plinth protection	Sft	17,017		
5	PCC Lean				
	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 4: 8 1500 PSI Cubical				
a)	PCC Lean Under Footings	Cft	603		
b)	PCC Lean Under Floor	Cft	867		
6	Brick Masonry Work (Sub Structure)				
	Providing & Fixing Brick work Walls First Class A Quality in Cement, sand mortar:-Ratio 1:6 in Foundation complete in all respects:	Cft	1,258		
7	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: - (nominal mix 1: 2: 4) the requisite strenth of 3000 PSI				
a)	Columns	Cft	895		
b)	RCC Plinth Beams	Cft	819		
c)	RCC Footings	Cft	1,656		
d)	RCC Stairs	Cft	129		
f)	RCC Lintels	Cft	101		
g)	RCC Vanity Kitchen	Cft	16		
h)	RCC Vanity Bath Area	Cft	9		
i)	RCC Beams	Cft	547		
j)	RCC Slab	Cft	1,239		

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
8	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars				
b)	Deformed bars (Grade-60)	Kg	16,230		
9	Brick Masonry Work				
	Providing and constructing BRICK MASONRY WORK :- laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.				
a)	9" inch thick Brick Work OPC) Cement mortar (1:5)	Sft	3,876		
b)	4½" inch thick Brick Work Cement mortar (1:4)	Sft	467		
10	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in cement sand mortar, smooth finished curing etc; as per Specifications and as per sample approved by the Engineer.				
a)	Internal Plaster 1:5 cement sand mortar Ratio	Sft	6,514		
b)	External Plaster 1:4 cement sand mortar Ratio	Sft	2,454		
11	Flooring Work				
a)	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate Ratio 1: 2: 4 1.5 to 2" thcik PCC	Sft	3,139		
12	MS/ GI Chowkat				
	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1- 1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box.coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.				
a)	10.5 " wide	Sft	252		
b)	5.5 " wide	Sft	98		
				Total=	-

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
B)	FIRST FLOOR				
1	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: - (nominal mix 1: 2: 4) the requisite strength of 3000 PSI				
a)	Columns	Cft	454		
	RCC Stairs	Cft	118		
c)	RCC Lintels	Cft	101		
d)	RCC Vanity Kitchen	Cft	16		
e)	RCC Vanity Bath Area	Cft	9		
f)	RCC Beams	Cft	547		
g)	RCC Slab	Cft	1,239		
2	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars				
b)	Deformed bars (Grade-60)	Kg	7,449		
3	Brick Masonry Work				
	Providing and constructing BRICK MASONRY WORK :- laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.				
a)	9" inch thick Brick Work OPC) Cement mortar (1:5)	Sft	3,033		
b)	4½" inch thick Brick Work Cement mortar (1:4)	Sft	365		
4	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in cement sand mortar, smooth finished curing etc; as per Specifications and as per sample approved by the Engineer.				
a)	Internal Plaster 1:5 cement sand mortar Ratio	Sft	5,098		
b)	External Plaster 1:4 cement sand mortar Ratio	Sft	2,077		
5	Flooring Work				
a)	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate Ratio 1: 2: 4 1.5 to 2" thick PCC	Sft	2,627		

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
6	MS/ GI Chowkat				
	Providing and fixing 2" wide MS/ GI Chowkat single/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1- 1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, Vcoating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.				
a)	10.5 " wide	Sft	252		
b)	5.5 " wide	Sft	98		
				Total=	-

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
C)	SECOND FLOOR				
1	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: - (nominal mix 1: 2: 4) the requisite strength of 3000 PSI				
a)	Columns	Cft	454		
	RCC Stairs	Cft	118		
c)	RCC Lintels	Cft	101		
d)	RCC Vanity Kitchen	Cft	16		
e)	RCC Vanity Bath Area	Cft	9		
f)	RCC Beams	Cft	547		
g)	RCC Slab	Cft	1,239		
h)	RCC Perapet Wall	Cft	273		
2	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars				
b)	Deformed bars (Grade-60)	Kg	8,267		
3	Brick Masonry Work				
	Providing and constructing BRICK MASONRY WORK :- laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.				
a)	9" inch thick Brick Work OPC) Cement mortar (1:5)	Sft	3,033		
b)	4½" inch thick Brick Work Cement mortar (1:4)	Sft	365		
4	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in cement sand mortar, smooth finished curing etc; as per Specifications and as per sample approved by the Engineer.				
a)	Internal Plaster 1:5 cement sand mortar Ratio	Sft	5,098		
b)	External Plaster 1:4 cement sand mortar Ratio	Sft	2,077		
5	Flooring Work				
a)	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate Ratio 1: 2: 4 1.5 to 2" thcik PCC	Sft	2,627		

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
6	Roof Treatment Chips				
	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble panelling, it will be paid extra as powder in the ratio of 3:1 and two parts of marble chips, laid over 2"(50 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- surface finishing and dividing in Marble panels:- 1½"(40 mm) thick including 3 Coats of Chemical Coating on top PCC	Sft	2,323		
7	MS/ GI Chowkat				
	Providing and fixing 2" wide MS/ GI Chowkat Single/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1- 1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer In charge.				
a)	10.5 " wide	Sft	252		
b)	5.5 " wide	Sft	98		
				Total=	-

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
D)	MUMTY				
1	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: - (nominal mix 1: 2: 4) the requisite strength of 3000 PSI				
a)	Columns	Cft	78		
	RCC Lintels	Cft	7		
c)	RCC Beams	Cft	102		
d)	RCC Slab	Cft	152		

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
2	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars				
b)	Deformed bars (Grade-60)	Kg	1,016		
3	Brick Masonry Work				
	Providing and constructing BRICK MASONRY WORK :- laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.				
a)	9" inch thick Brick Work OPC) Cement mortar (1:5)	Sft	443		
4	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in cement sand mortar, smooth finished curing etc; as per Specifications and as per sample approved by the Engineer.				
a)	Internal Plaster 1:5 cement sand mortar Ratio	Sft	443		
b)	External Plaster 1:4 cement sand mortar Ratio	Sft	590		
5	Flooring Work				
a)	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate Ratio 1: 2: 4 1.5 to 2" thick PCC	Sft	304		
6	Roof Treatment Chips				
	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble panelling, it will be paid extra as powder in the ratio of 3:1 and two parts of marble chips, laid over 2"(50 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- surface finishing and dividing in Marble panels:- 1½"(40 mm) thick including 3 Coats of Chemical Coating on top PCC	Sft	304		
				Total=	-

PROJECT: FACULTY RESIDENTIAL BLOCK -A		G.I.K INSTITUTE TOPI			
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
A)	GROUND FLOOR				
1	Porcelain Tile Flooring				
	Providing and laying Porcelain floor tiles inside building rooms 24"x48" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect with Skirting and best quality Tiles of approved color scheme (Base Rate up to Rs. @ 2000 Sqm) of Oreal /Times Ceramic Brand or equivalent.	Sft	1,977.50		
2	Ceramic Tile (Matt Finish)				
	Providing and laying Porcelain Bath Wall Tiles dados 1/2" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect, as per Specifications, and best quality Tiles of approved color scheme. (Base Rate up to Rs. @ 2000/Sqm) Oreal/Times Ceramic Brand or equivalent.				
a)	Ceramic Bath Floor-Tile	Sft	522.00		
b)	Ceramic Bath Wall-Tile 7' feet Height	Sft	722.00		
c)	Backsplash Tile	Sft	76.50		
3	Marble Top				
	Providing and laying 3/4" thick Buticina of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 500 Sft) Local				
a)	Kitchen Top Marble	Sft	57.38		
b)	Bath Vanity Top Marble	Sft	31.50		
4	Paint Work (Plastic Emulsion)				
	In Internal Walls provide and apply Wall Putty with 2 coats Plastic Emulsion Paint (Brighto or Diamond)				
a)	Internal Walls (Plastic Emulsion)	Sft	6,513.60		
b)	Ceiling (Simple Emulsion)	Sft	2,627.00		
5	POP Ceiling				
	P/L POP ceiling comprising of 5/8" thick plaster of Paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire(16 SWG) duly enriched with POP and flaxen i/c the cost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge.(Measurement will be made as per carpet Area).	Sft	2,369.50		

PROJECT: FACULTY RESIDENTIAL BLOCK -A		G.I.K INSTITUTE TOPI			
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
6	Paint Work (weather shield) (External Walls)				
	On External Walls providing and applying Weather Shield Paint on external surface of building including preparation of surface, application of primer completes in all respect: new surface 2-coats (Brighto or Diamond)				
a)	External Walls (weather shield)	Sft	2,454.40		
7	Flush Door				
	Provide and fixing Flush Pressed Ply Door, including Door Frame using Yellow Pine/Partal Wood, polishing using weather-resistant oil based transparent stain, and all necessary hardware (heavy duty ss hinges, dead lock, door closer, ss studs, sliding bolts etc)				
a)	Single Leaf Door	No	12.00		
8	Wooden Door (D1, 5'x7')				
	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Yellow pine wood Door 1-1/2" thick (40 mm)				
a)	Double Leaf Door	No	2.00		
9	SS Stair Railing				
	Provide and fix heavy-duty railing, comprising best quality Specifications Stainless Steel and 16 SWG thickness, 2" dia stainless steel pipe hand rail and 1-1/2" stainless steel pipe post (pillar) etc, with four rows of 3/4" dia stainless steel pipe bracings argon welded and suitably fixed, including stainless steel flange screwed to step / floor with rawl plugs, as per Hand rail & Baluster Fixing Detail (Typical), complete in all respect as per drawings and as per sample.	Rft	28.50		
11	Stair Marble with 4 " wide Skirting				
	In Stairs Providing and lay Granite Slabs (upto Rs.650/sft) as indicated in sub items below comprising 1:3 cement sand mortar bed on stair, entrance steps / podium including filling joints with white cement and matching pigment.				
a)	Main Stair	Sft	242.50		
b)	Main Entrance Steps	Sft	70.00		
b)	Entrance Steps R & L Sides	Sft	42.00		

PROJECT: FACULTY RESIDENTIAL BLOCK -A G.I.K INSTITUTE TOPI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
12	Aluminum Windows (Double Glazed)				
	Provide and fix aluminum glazed fixed / sliding windows / ventilators using sections of min 100mm wide and 1.3 mm thick in champagne or approved color frames, including best quality local make 6mm thick clear glass as approved, and glazing of "Ghani Glass" make and with all hardware etc; as per existing building. GR Brand Black Coat	Sft	298.50		
13	Kitchen Cabinets				
	Providing and fixing box type Kitchen Cabinet consisting of 3/4" thick both side Laminated MDF sheet shutter and boxes and back of 3 mm thick laminated MDF sheet i/c the cost of PVC edge binding duly hot pressed on all edges of the shutters /panels etc., with machine i/c the cost of self-closing blum type hinges S.S, handles, screws, Glue and rawal plugs, locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Floor Mounted	Sft	70.13		
b)	Wall Mounted	Sft	51.00		
14	MS Grill				
	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Square Bars 18 SWG	Sft	298.50		
15	Marble Sills				
	Providing and laying 3/4" thick Baldel of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 250 Sft).	Sft	71.25		
16	Wardrobe				
	Providing and fixing 24" Deep Box type Wardrobe consisting of 3/4" thick UV coated MDF board(Medium density Fiber board) Sheet both side glazed shutters and box comprising of 3/4" thick laminated MDF sheet i/c the cost of 1mm thick PVC tape duly hot pressed on all edges of the shutters / panels / drawers etc., with machine i/c the cost of self-closing blum type hinges, handles, screws, Glue and rawal plugs, Drawers & locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Dress Area	Sft	182.25		
b)	Store Area	Sft	144.00		
				Total=	-

PROJECT: FACULTY RESIDENTIAL BLOCK -A		G.I.K INSTITUTE TOPI			
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
B)	FIRST FLOOR				
1	Porcelain Tile Flooring				
	Providing and laying Porcelain floor tiles inside building rooms 24"x48" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect with Skirting and best quality Tiles of approved color scheme (Base Rate up to Rs. @ 2000 Sqm) of Oreal /Times Ceramic Brand or equivalent.	Sft	1977.50		
2	Ceramic Tile (Matt Finish)				
	providing and laying Porcelain Bath Wall Tiles dados 1/2" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect, as per Specifications, and best quality Tiles of approved color scheme. (Base Rate up to Rs. @ 2000/Sqm) Oreal/Times Ceramic Brand or equivalent.				
a)	Ceramic Bath Floor-Tile	Sft	522.00		
b)	Ceramic Bath Wall-Tile 7' feet Height	Sft	722.00		
c)	Backsplash Tile	Sft	76.50		
3	Marble Top				
	Providing and laying 3/4" thick Buticina of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 500 Sft) Local				
a)	Kitchen Top Marble	Sft	57.38		
b)	Bath Vanity Top Marble	Sft	31.50		
4	Paint Work (Plastic Emulsion)				
	In Internal Walls provide and apply Wall Putty with 2 coats Plastic Emulsion Paint (Brighto or Dimand)				
a)	Internal Walls (Plastic Emulsion)	Sft	6513.60		
b)	Ceiling (Simple Emulsion)	Sft	2627.00		
5	POP Ceiling				
	P/L POP ceiling comprising of 5/8" thick plaster of paris sheet of required size in approved design with oneline of 6" wideniche all around , hanging with Copper wire(16 SWG) duly enriched with POPand flaxen i/c thecost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge.(Measurement will be made as per carpet Area).	Sft	2369.50		

PROJECT: FACULTY RESIDENTIAL BLOCK -A		G.I.K INSTITUTE TOPI			
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
6	Paint Work (weather shield) (External Walls)				
	On External Walls providing and applying Weather Shield Paint on external surface of building including preparation of surface, application of primer completes in all respect: new surface 2-coats (Brighto or Dimand)				
a)	External Walls (weather shield)	Sft	2452.40		
7	Flush Door				
	Provide and fixing Flush Pressed Ply Door, including Door Frame using Yellow Pine/Partal Wood, polishing using weather-resistant oil based transparent stain, and all necessary hardware (heavy duty ss hinges, dead lock, door closer, ss studs, sliding bolts etc)				
a)	Single Leaf Door	No	12		
8	Wooden Door (D1, 5'x7')				
	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Yellowpine wood Door 1-1/2" thick (40 mm)				
a)	Double Leaf Door	No	2		
9	SS Stair Railing				
	Provide and fix heavy-duty railing, comprising best quality Specifications Stainless Steel and 16 SWG thickness, 2" dia stainless steel pipe hand rail and 1-1/2" stainless steel pipe post (pillar) etc, with four rows of 3/4" dia stainless steel pipe bracings argon welded and suitably fixed, including stainless steel flange screwed to step / floor with rawl plugs, as per Hand rail & Baluster Fixing Detail (Typical), complete in all respect as per drawings and as per sample.				
a)	Mian Stair	Rft	38.50		
b)	Balcony Area	Rft	94.88		
11	Stair Marble with 4 " wide Skirting				
	In Stairs Providing and lay Granite Slabs (upto Rs.650/sft) as indicated in sub items below comprising 1:3 cement sand mortar bed on stair, entrance steps / podium including filling joints with white cement and matching pigment.				
a)	Mian Stair	Sft	242.50		

PROJECT: FACULTY RESIDENTIAL BLOCK -A G.I.K INSTITUTE TOPI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
12	Aluminum Windows (Single Glazed)				
	Provide and fix aluminum glazed fixed / sliding windows / ventilators using sections of min 100mm wide and 1.3 mm thick in champagne or approved color frames, including best quality local make 6mm thick clear glass as approved, and glazing of "Ghani Glass" make and with all hardware etc; as per existing building. GR Brand Black Coat	Sft	298.50		
13	Kitchen Cabinets				
	Providing and fixing box type Kitchen Cabinet consisting of 3/4" thick both side Laminated MDF sheet shutter and boxes and back of 3 mm thick laminated MDF sheet i/c the cost of PVC edge binding duly hot pressed on all edges of the shutters /panels etc., with machine i/c the cost of self-closing blum type hinges S.S, handles, screws, Glue and rawal plugs, locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Floor Mounted	Sft	70.13		
b)	Wall Mounted	Sft	51.00		
14	MS Grill				
	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Square Bars 18 SWG	Sft	298.50		
15	Marble Sills				
	Providing and laying 3/4" thick Baldel of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 250 Sft).	Sft	71.25		
16	Wardrobe				
	Providing and fixing 24" Deep Box type Wardrobe consisting of 3/4" thick UV coated MDF board(Medium density Fiber board) Sheet both side glazed shutters and box comprising of 3/4" thick laminated MDF sheet i/c the cost of 1mm thick PVC tape duly hot pressed on all edges of the shutters / panels / drawers etc., with machine i/c the cost of self-closing blum type hinges, handles, screws, Glue and rawal plugs, Drawers & locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Dress Area	Sft	182.25		
b)	Store Area	Sft	144.00		
				Total=	-

PROJECT: FACULTY RESIDENTIAL BLOCK -A		G.I.K INSTITUTE TOPI			
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
C)	SECOND FLOOR				
1	Porcelain Tile Flooring				
	Providing and laying Porcelain floor tiles inside building rooms 24"x48" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect with Skirting and best quality Tiles of approved color scheme (Base Rate up to Rs. @ 2000 Sqm) of Oreal /Times Ceramic Brand or equivalent.	Sft	1977.50		
2	Ceramic Tile (Matt Finish)				
	Providing and laying Porcelain Bath Wall Tiles dados 1/2" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect, as per Specifications, and best quality Tiles of approved color scheme. (Base Rate up to Rs. @ 2000/Sqm) Oreal/Times Ceramic Brand or equivalent.				
a)	Ceramic Bath Floor-Tile	Sft	522.00		
b)	Ceramic Bath Wall-Tile 7' feet Height	Sft	722.00		
c)	Backsplash Tile	Sft	76.50		
3	Marble Top				
	Providing and laying 3/4" thick Buticina of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 500 Sft) Local				
a)	Kitchen Top Marble	Sft	57.38		
b)	Bath Vanity Top Marble	Sft	31.50		
4	Paint Work (Plastic Emulsion)				
	In Internal Walls provide and apply Wall Putty with 2 coats Plastic Emulsion Paint (Brighto or Dimand)				
a)	Internal Walls (Plastic Emulsion)	Sft	6513.60		
b)	Ceiling (Simple Emulsion)	Sft	2627.00		
5	POP Ceiling				
	P/L POP ceiling comprising of 5/8" thick plaster of Paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire(16 SWG) duly enriched with POP and flaxen i/c the cost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge.(Measurement will be made as per carpet Area).	Sft	2369.50		

PROJECT: FACULTY RESIDENTIAL BLOCK -A		G.I.K INSTITUTE TOPI			
		Finish Work (Civil)			
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
6	Paint Work (weather shield) (External Walls)				
	On External Walls providing and applying Weather Shield Paint on external surface of building including preparation of surface, application of primer completes in all respect: new surface 2-coats (Brighto or Diamond)				
a)	External Walls (weather shield)	Sft	2945.28		
7	Flush Door				
	Provide and fixing Flush Pressed Ply Door, including Door Frame using Yellow Pine/Partal Wood, polishing using weather-resistant oil based transparent stain, and all necessary hardware (heavy duty ss hinges, dead lock, door closer, ss studs, sliding bolts etc)				
a)	Single Leaf Door	No	12		
8	Wooden Door (D1, 5'x7')				
	Providing and fixing 1st class solid wood wrought joinery in paneled or paneled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Yellow pine wood Door 1-1/2" thick (40 mm)				
a)	Double Leaf Door	No	2		
9	SS Stair Railing				
	Provide and fix heavy-duty railing, comprising best quality Specifications Stainless Steel and 16 SWG thickness, 2" dia stainless steel pipe hand rail and 1-1/2" stainless steel pipe post (pillar) etc, with four rows of 3/4" dia stainless steel pipe bracings argon welded and suitably fixed, including stainless steel flange screwed to step / floor with rawl plugs, as per Hand rail & Baluster Fixing Detail (Typical), complete in all respect as per drawings and as per sample.				
a)	Main Stair	Rft	38.50		
b)	Balcony Area	Rft	94.88		
11	Stair Marble with 4 " wide Skirting				
	In Stairs Providing and lay Granite Slabs (upto Rs.650/sft) as indicated in sub items below comprising 1:3 cement sand mortar bed on stair, entrance steps / podium including filling joints with white cement and matching pigment.				
a)	Main Stair	Sft	242.50		

PROJECT: FACULTY RESIDENTIAL BLOCK -A G.I.K INSTITUTE TOPI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
12	Aluminum Windows (Single Glazed)				
	Provide and fix aluminum glazed fixed / sliding windows / ventilators using sections of min 100mm wide and 1.3 mm thick in champagne or approved color frames, including best quality local make 6mm thick clear glass as approved, and glazing of "Ghani Glass" make and with all hardware etc; as per existing building. GR Brand Black Coat	Sft	298.50		
13	Kitchen Cabinets				
	Providing and fixing box type Kitchen Cabinet consisting of 3/4" thick both side Laminated MDF sheet shutter and boxes and back of 3 mm thick laminated MDF sheet i/c the cost of PVC edge binding duly hot pressed on all edges of the shutters /panels etc., with machine i/c the cost of self-closing blum type hinges S.S, handles, screws, Glue and rawal plugs, locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Floor Mounted	Sft	70.13		
b)	Wall Mounted	Sft	51.00		
14	MS Grill				
	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Square Bars 18 SWG	Sft	298.50		
15	Marble Sills				
	Providing and laying 3/4" thick Baldel of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 250 Sft).	Sft	71.25		
16	Wardrobe				
	Providing and fixing 24" Deep Box type Wardrobe consisting of 3/4" thick UV coated MDF board(Medium density Fiber board) Sheet both side glazed shutters and box comprising of 3/4" thick laminated MDF sheet i/c the cost of 1mm thick PVC tape duly hot pressed on all edges of the shutters / panels / drawers etc., with machine i/c the cost of self-closing blum type hinges, handles, screws, Glue and rawal plugs, Drawers & locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Dress Area	Sft	182.25		
b)	Store Area	Sft	144.00		
				Total=	-

PROJECT: FACULTY RESIDENTIAL BLOCK -A		G.I.K INSTITUTE TOPI			
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
D)	MUMTY				
1	Porcelain Tile Flooring				
	Providing and laying Porcelain floor tiles inside building rooms 24"x48" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect with Skirting and best quality Tiles of approved color scheme (Base Rate up to Rs. @ 2000 Sqm) of Oreal /Times Ceramic Brand or equivalent.	Sft	150.00		
2	Paint Work (Plastic Emulsion)				
	In Internal Walls provide and apply Wall Putty with 2 coats Plastic Emulsion Paint (Brighto or Diamond)				
a)	Internal Walls (Plastic Emulsion)	Sft	442.80		
b)	Ceiling (Simple Emulsion)	Sft	267.5		
3	POP Ceiling				
	P/L POP ceiling comprising of 5/8" thick plaster of Paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire(16 SWG) duly enriched with POP and flaxen i/c the cost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge.(Measurement will be made as per carpet Area).	Sft	267.50		
4	Paint Work (weather shield) (External Walls)				
	On External Walls providing and applying Weather Shield Paint on external surface of building including preparation of surface, application of primer completes in all respect: new surface 2-coats (Brighto or Diamond)				
a)	External Walls (weather shield)	Sft	590.40		
5	Wooden Door (D1, 5'x7')				
	Providing and fixing 1st class solid wood wrought joinery in paneled or paneled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Yellow pine wood Door 1-1/2" thick (40 mm)				
a)	Double Leaf Door	No	1		
6	SS Stair Railing				
	Provide and fix heavy-duty railing, comprising best quality Specifications Stainless Steel and 16 SWG thickness, 2" dia stainless steel pipe hand rail and 1-1/2" stainless steel pipe post (pillar) etc, with four rows of 3/4" dia stainless steel pipe bracings argon welded and suitably fixed, including stainless steel flange screwed to step / floor with rawl plugs, as per Hand rail & Baluster Fixing Detail (Typical), complete in all respect as per drawings and as per sample.	---	--		---

PROJECT: FACULTY RESIDENTIAL BLOCK -A		G.I.K INSTITUTE TOPI			
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
a)	Main Stair	Rft			
7	Aluminum Windows (Single Glazed)				
	Provide and fix aluminum glazed fixed / sliding windows / ventilators using sections of min 100mm wide and 1.3 mm thick in champagne or approved color frames, including best quality local make 6mm thick clear glass as approved, and glazing of "Ghani Glass" make and with all hardware etc; as per existing building. GR Brand Black Coat	Sft	31.50		
8	MS Grill				
	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Square Bars 18 SWG	Sft	31.50		
9	Marble Sills				
	Providing and laying 3/4" thick Baldel of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 250 Sft).	Sft	4.38		
				Total=	-

ABSTRACT OF COST TANK SYSTEM WORK

SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
A)	Tanks Systems				
1	Excavation				
	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead up to one chain (30 m) in ordinary soil. 90% to 95% maximum modified AASHO dry density.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Cft	1,436.50		
	Septic Tank 7'x5'x5'	Cft	440.00		
c)	0	Cft	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Cft			
2	PCC Lean				
	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): BLINDING CONCRETE SHALL HAVE A MINIMUM OF 1600 PSI CUBICAL STRENGTH AT 28 DAYS 6" thickness				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Cft	82.50		
b)	Septic Tank 7'x5'x5'	Cft	24.00		
c)	0	Cft	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Cft			
3	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: 3000 P.S.I. CUBICAL STRENGTH AT 28 DAYS.				
	Base Slab Top Slab & Walls				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Cft	320.00		
b)	Septic Tank 7'x5'x5'	Cft	83.00		
c)	0	Cft	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Cft	127.10		
4	Pic-up RCC Columns				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: ALL COLUMNS AND RAFT SHALL HAVE MINIMUM OF 3750 P.S.I CUBICAL STRENGTH AT 28 DAYS.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'				
b)	Septic Tank 7'x5'x5'				
c)	0				
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Cft	6.00		
5	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-Deformed bars (Grade-60)				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	KG	880.00		
b)	Septic Tank 7'x5'x5'	KG	228.25		
c)	0	KG	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	KG	373.53		

ABSTRACT OF COST TANK SYSTEM WORK

SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
A)	Tanks Systems				
6	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in 1:4 cement sand mortar, smooth finished with steel trowel as shown in the drawings including metal lath strips curing etc; as per Specifications and as per sample approved by the Engineer.				
	Internal Plaster & External Plaster				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Sft	1,136.00		
b)	Septic Tank 7'x5'x5'	Sft	380.00		
c)	0	Sft	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Sft	496.00		
7	Manhole Cover				
	Supply and Fixing CI manhole cover 24 Dia inch with frame of approved quality complete as per Specifications and as per sample approved by the Engineer.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Nos	1.00		
b)	Septic Tank 7'x5'x5'	Nos	1.00		
c)	0	Nos			
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Nos	1.00		
8	Monkey Ladder				
	Supplying / Providing fabricating and fixing of MS Monkey Ladder /Access Ladder for tank or where required comprising of 1-1/2" dia MS pipe with structural steel including all required fixing arrangements for complete the job as shown in drawing as per drawing, standard, specifications & direction of the Engineer.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Nos	3.00		
b)	Septic Tank 7'x5'x5'	Nos	3.00		
c)	0	Nos			
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Nos	3.00		
9	Water Stopper				
	Providing embedding Plastic PVC Water Stopper Size 9-inch-Wide B Class Quality Complete in all Respect as Per Engineer Incharge. Using between the Construction Joint of Footing & Retaining Wall only.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Rft	49.00		
b)	Septic Tank 7'x5'x5'	Rft	25.00		
c)	0	Rft			
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Rft	27.00		
				Total=	-

ABSTRACT OF COST TANK EXTERNAL WORK

SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
	External Work				
1	Cut or fill Work				
	Cut or fill in Granular Soil not exceeding 150 mm, compact formation surface by compacting equipment and roller up to 100% Modified AASHTO density, including filling in depression with hard soil complete all as specified.	Sft	7,750.00	-	-
2	PCC Lean				-
	Providing and laying PCC 1:4:8, laid under floor using crushed or broken stones complete all as specified.	Cft	1,937.50	-	-
3	PCC				-
	Providing and laying, PCC 1:2:4 laid in floor, slabs as under layer for Terrazzo / tiles top finished, using crushed or broken stone complete all as specified.	Cft	1,937.50	-	-
4	Tuff Pavers				
	Providing and laying, PCC Paving stone, 50 mm thick in natural colour, as in floors, drive-way, walk-way etc., any pattern and any shape, (Hydraulically compressed), laid and jointed in sand, including 50mm thick sand bed as laying course complete all as specified.	Sft	7,750.00	-	-
				Total=	-

BILL OF QUANTITIES - MEP WORKS - FACULTY RESIDENTIAL BLOCK -A
G.I.K INSTITUTE TOPI, SWABI

<u>Ser</u>	<u>Description</u>	<u>Amount (Rs)</u>
1	Electrical System	
2	Water Supply	
3	Sui Gas	
Total Amount: (Rs)		

**BILL OF QUANTITIES - ELECTRICAL - FACULTY RESIDENTIAL BLOCK -A
G.I.K INSTITUTE TOPI, SWABI**

S.No	Description	Unit	Qty	Rate	Amount
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GENERAL NOTE

a	Scope (Application to all sections) Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				
1 Wiring					
a)	Supply, installation, testing & commissioning of electrical wiring, consisting One light point / Fan / bell Point with 3 x 1.5 mm ² copper pvc wires of Pakistan CABLES, Newage or Allied or Fast Cables as approved in PVC conduits of appropriate size, of Popular/Dedex/Plasco recessed in walls/ columns/ roof slab/ Floor or fixed on surface with metal saddles, complete with accessories such as bends, sockets, circular boxes, junction boxes etc., cost to be included from Switch Board/DB to first point / first socket as per drawing of the circuit, complete in all respect including connections as required.	Points	248		
b)	As above but point to point (lights/fan)with 2 x 1.5 mm ² +1 x 1.5 copper PVC (ECC) wires.	Points	216		
c)	As above but from DB to switch box,5 Amp, 10/13 Amp and 15 Amp Switch Socket of 2 x4 mm ² C + 1 x 2.5 mm ² Copper	Points	66		
d)	As above but from But socket to Socket,5 Amp, 10/13 Amp and 15 Amp Switch Socket of 3 x2.5 mm ² Copper PVC wires	Points	168		
e)	Supply, installation, testing & commissioning of Coaxial cable incl pipe concealed PVC Conduit complete in all respect	Points	18		

S.No	Description	Unit	Qty	Rate	Amount
2 Cables					
	Supply, installation, Testing & Commissioning of cables of given sizes of Pakistan cables or equivalent, approved in PVC conduits/ pipe with termination kits/ Thimbles including Cable gland and Tagging of appropriate size as approved in accordance with the situation and approval of consultant.				
a)	2C x 16 mm ² Copper Pvc/Pvc cable to DB	RM	240		
b)	1C x 10mm ² Copper Pvc(Ecc) cable	RM	240		
c)	2C x 4mm ² Copper Pvc/Pvc cable, To Mumty DB	RM	120		
d)	1C x 1.5mm ² Copper Pvc(Ecc) cable	RM	120		
e)	1C x 6mm ² Copper Pvc (P+N) cable For ACs	RM	480		
f)	1C x 4mm ² Copper Pvc (Ecc) cable For ACs	RM	240		
3 WIRING ACCESSORIES & CABLE TRAYS					
	Supply & installation testing & commissioning of switch sheet & sockets including switches with back box of appropriate size (concealed in floor /wall or as per site requirement) of Legrand or equivalent as per manufacturer's list as approved of following description.				
	SWITCHES				
a)	1 or 2 gang one way	No	34		
b)	3 gang one way	No	6		
c)	4 gang one way	No	6		
d)	5 gang one way	No	20		
e)	2 gang Two way	No	14		
f)	Fan Dimmer	No	24		
g)	Bell	No	6		
g)	SOCKETS				
h)	5 Amp switch Socket	No	210		
i)	15 A switch socket	No	60		
j)	TV Socket	No	18		
4 LIGHT FIXTURES					
	Supply & installation testing & commissioning Lighting fixture complete in all respect (LED Light Minimum 90 ~100 Lumens / Watt) or equivalent as per manufacturer's list as approved of following description.				
a)	15/17W LED ceiling / recessed light fixture	No	246		
b)	12W LED Ceiling / recessed light fixture	No	16		

S.No	Description	Unit	Qty	Rate	Amount
5 Fans					
	Supply & installation testing & commissioning Fan / Exhaust Fan with ceiling rose / sheet. as per manufacturer's list as approved of following description.				
a)	Ceiling Fan 56/48" Energy efficient (Inverter Type) Ceiling Fan complete in all respect as manufacturer's list as approved .	No	48		
b)	Plastic Ceiling t fan as per manufacturer's list as approved .	No	6		
c)	Full Plastic 18" Dia Exhaust Fan complete in all respect as per manufacturer's list as approved .	No	12		
6 LV PANEL, DISTRIBUTION BOARDS					
a)	Supply, installation, testing and commissioning of Main Low Voltage (LV) Panel as per approved drawings, fabricated from 16 SWG sheet steel with angular frame, fully powder-coated and furnace baked in approved colour, complete with MCCB incomer, copper busbars, voltmeter, ammeter, energy analyzer, selector switches, R.Y.B phase indicators, PVC wiring ducts, imported locks, internal control wiring, terminations, earthing and all necessary accessories, complete in all respects. Make: Craft Engineering or approved equivalent	Job	1		
b)	Supply, installation, testing and commissioning of floor-wise / area-wise Distribution Boards (DBs) as per approved drawings, fabricated from heavy gauge sheet steel, powder coated finish, complete with incomer MCCB/isolator, outgoing MCBs, copper busbars, neutral and earth bars, R.Y.B indicators (where required), internal wiring, labeling, termination, earthing and all necessary accessories, complete in all respects. Make: Craft Engineering or approved equivalent	Job	7		
7 EARTHING SYSTEM					
a)	Earthing having earth value less than 1 ohm (One for Neutral and one for Body of transformer) complete in all respect as per drawing or recommendation of Engineer in charge	Job	2		
8 Energy Meters					
a)	Supply, installation, testing & commissioning of Energy meter , as per IESCO Standard complete in all respect.	Job	6		
TOTAL					

**BILL OF QUANTITIES - WATER SUPPLY - FACULTY RESIDENTIAL
BLOCK-A G.I.K INSTITUTE TOPI, SWABI**

S.No	Description	Unit	Qty	Rate	Amount
GENERAL NOTE					
	Scope (<i>Application to all sections</i>)				
	Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				
	<u>GI Pipes Water Tank to Bath Rooms</u>				
1	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, Elbow, Union using G.I. pipes of IIL-L Karachi complete in all respects.				
a	25 mm dia	Rft	60.00		
b	50 mm dia	Rft	570.00		
	<u>Gate Valve, Non Return / Strainer Valve</u>				
2	Providing and fixing gun metal Peet/gate valve (screwed):- (Kids / Econosto make)				
a	50 mm(2") dia	Each	8.00		
b	25 mm(1") dia	Each	6.00		
c	Non return valve with Strainer 50 mmdia	Each	2.00		
	<u>PPRC Pipe</u>				
3	Supply and Fixing of PPRC Pipe heavy duty for Cold/ Hot Water with all fitting Tee, Elbow union sockets etc fitting and testing with pressure pump concealed in walls & floor i/c hocks etc complete. RAK-THEARAM UAE or equivalent				
a	20 mm dia	Rft	120.00		
b	25 mm dia	Rft	390.00		
c	50 mm dia	Rft	300.00		
	<u>Double Bib Cock</u>				
4	Bib cock double chromium plated 1/2"Ø with muslim shower etc complete	Each	12.00		

S.No	Description	Unit	Qty	Rate	Amount
	<u>CP Vanity Mixer</u>				
5	C.P. Vanity/ Basin mixer fancy head any pattern and shape screw down high pressure; lettered "HOT" and "COLD" with long screw shanks any fly nuts complete, supply and fixing	Each	12.00		
a	Same as above but Sink Mixer	Each	6.00		
b	Same as above but Shower Mixer	Each	12.00		
	<u>Stop/ Tee cock</u>				
6	Stopcock chromium plated screw down high pressure; fancy type; but tee stop cock	Each	36.00		
	<u>Water Cooler</u>				
7	Providing and Fixing Water Cooler General, Supreme imported compressor copper condenser, copper motor, food grade storage tank one year warranty 35 Ltr (Orient / Heire or Equivalent)	Each	0	—	—
	<u>Water Pump</u>				
8	Providing and Fixing Water Pump Discharge 80 GPM , Head 60 meter including valve and non-return valve, KSB make or equivalent with Complete Electric Fitting complete in all respect as directed by the Engineer in Charge	Job	2.00		
9	Providing and Fixing Pressure Water Pump including valve and non-return valve WITH PRESSURE TANK AND SWITCH, KSB make or equivalent with Complete Electric Fitting complete in all respect as directed by the Engineer in Charge	Nos	2.00		
Total Amount Rs =					

**BILL OF QUANTITIES - GAS WORK - FACULTY RESIDENTIAL BLOCK -A
G.I.K INSTITUTE TOPI, SWABI**

S.No	Description	Unit	Qty	Rate	Amount
GENERAL NOTE					
	Scope (<i>Application to all sections</i>)				
	Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				
	<u>GI Pipes</u>				
1	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, Elbow, Union using G.I. pipes of IIL-M Karachi complete in all respects.				
a	25 mm dia	Rft	560.00		
b	20 mm dia	Rft	210.00		
	<u>Gate Valve, Non Return / Strainer Valve</u>				
2	Providing and fixing gun metal Peet/gate valve (screwed):- (Kids / Econosto make)				
a	25 mm(1") dia	Each	6.00		
b	20 mm(1") dia	Each	30.00		
	<u>Gas Heater and Cooking Range</u>				
3	Providing and Fixing gas heater(NASGAS, Singer or equivalent) Two Plate type complete fitting etc in all respect	Each	24.00		
a	Providing and Fixing 3 burner cooking range (NASGAS, Singer or equivalent) Two Plate all as dual system electric & gas complete fitting etc in all respect	Each	6.00		
	<u>Gas meter</u>				
4	Providing and Fixing Gas Meter including valve and regulator, mullar tee, as per SNGPL Standard with Complete Fitting in all respect as directed by the Engineer in Charge	Job	6.00		
Total Amount Rs =					

BILL OF QUANTITIES - PLUMBING WORKS - FACULTY RESIDENTIAL
BLOCK-A G.I.K INSTITUTE TOPI, SWABI

Ser	Description	Qty	Unit	Rate	Amount
Internal Sewerage Work					
1	Supply and fix, u-PVC, Soil and waste pipe 50 mm dia, complete, with plain end and solvent cement joint complete all a specified.	39.02	Metre		
2	Supply and fix, uPVC Elbow/bend, 90° 50 mm dia, complete with solvent cement joint complete all a specified.	24.00	Each		
3	Supply and fix, u-PVC, Soil and waste pipe 75 mm dia, complete, with plain end and solvent cement joint complete all a specified.	78.64	Metre		
4	Supply and fix Socket 75 mm dia complete with solvent cement joint complete all a specified.	14.00	Each		
5	Supply and fix, uPVC Elbow/bend, 90° 75 mm dia, complete with solvent cement joint complete all a specified.	20.00	Each		
6	Supply and fix, uPVC, Access/ door T 75 mm dia, complete with solvent cement joint, all as specified.	12.00	Each		
7	Supply and fix, uPVC Equal T, 75 mm dia, complete with solvent cement joint complete all as specified.	8.00	Each		
8	Supply and fix, uPVC Y- T, 75 mm dia, complete with solvent cement joint complete all as specified.	6.00	Each		
9	Supply and fix, u-PVC, Soil and waste pipe 110 mm dia, complete, with plain end and solvent cement joint complete all a specified.	148.44	Metre		
10	Supply and fix Socket 110 mm dia complete with solvent cement joint complete all a specified.	20.00	Each		
11	Supply and fix, uPVC Elbow/bend, 90° 110 mm dia, complete with solvent cement joint complete all a specified.	16.00	Each		
12	Supply and fix, uPVC, Access/ door T 110 mm dia, complete with solvent cement joint, all as specified.	16.00	Each		
13	Supply and fix, uPVC Equal T, 110 mm dia, complete with solvent cement joint complete all as specified.	12.00	Each		
14	Supply and fix, uPVC Y- T, 110 mm dia, complete with solvent cement joint complete all as specified.	12.00	Each		

Ser	Description	Qty	Unit	Rate	Amount
15	Supply and fix Eccentric Reducer 50mm x 110mm dia complete with solvent cement joint complete all as specified.	28.00	Each		
16	Supply and fix uPVC Vent pipe 50mm bore (outside dia) complete with plain end and solvent cement joint complete all as specified.	27.44	Metre		
17	Supply and fix uPVC Vent Cowl 50mm dia on top of ventilating pipes complete all as specified.	12.00	Each		
18	Providing, installing and fixing heavy duty approved quality and make uPVC AGM type or equivalent floor trap with "Faisal" make stainless steel grating including all material for fixing complete in all respect and as per specifications and directions of the Engineer.	42.00	Each		
19	Supply and fix water closet apparatus European pattern, complete (like porta design or equivalent) complete (coupled set) comprising closet, 13 litres flushing cistern glazed in white/ivory colour complete imported (China) fixed to concrete brick stone or wood work best quality	12.00	Each		
20	Supply and fixing of over-counter vanity wash basin (bowl type) of best quality glazed ware, single-hole type, complete with chrome-plated bottle trap, waste coupling, chain and plug, long-neck mixer tap, all necessary fittings and	12.00	Each		
21	Providing, installing and testing "faisal" make Muslim shower(hand spray) of approved quality and colour for water closet complete with Wall hook/bracket, flexible pipe, etc as per specifications and directions of the Engineer.	12.00	Each		
22	Supply and Fix Accessories bath set plastic consisting of shelf, towel rail, ring, brush holder, toilet paper holder, soap dish and mirror, complete all as specified.	12.00	Each		
23	Supply and fix, 25 mm thick, marble slab around vanity bowl, with brackets etc including cutting in any shape with machine, rubbing, polishing and making the joints water tight complete all as specified.	7.52	Sqm		

Ser	Description	Qty	Unit	Rate	Amount
24	Providing and fixing water storage Electric/Gas Water Heater (Geyser), 25-gallon capacity, complete with thermostat, safety valve, inlet/outlet valves, pressure relief valve, and all necessary fittings/accessories. The unit shall be installed, tested, and commissioned as per specifications and directions of the Engineer. (Make: Nasgas, Master Heat, or equivalent approved)	12.00	Each		
25	Dual Electric & Gas Oven Supply, installation, testing, and commissioning of dual-fuel oven, comprising gas-operated cooktop and electric baking oven. Unit shall include all necessary fittings, safety valves, ignition system, temperature controls, wiring connections, and gas pipeline interfaces. Complete in all respects as per manufacturer's specifications and site requirements. (Nasgas, or equivalent)	12.00	Each		
26	Supply and fix, Mirror, (any shape and pattern), 5 mm thick, edges ground, complete all as specified.	13.38	Sqm		
(A) Total For Internal Sewerage Work (Rs)					-
External Sewerage Work					
1	Excavation as in Hard Soil up to 1.5 M depth, in foundation and pipe trenches up to 1.5 M wide, in shafts, wells and independent holes up to 30 sqm each and throw earth clear of edges of excavation within 10m complete all a specified.	20.07	Cum		
2	Supply and fix uPVC Soil and waste pipe 160mm bore (outside dia) complete with plain end and solvent cement joint complete all a specified.	82.29	Metre		
3	Supply and fix 160mm dia socket complete with solvent cement joint all as specified.	21.00	Each		
4	Manholes, complete, rectangular or circular as described, not exceeding 600 mm deep from invert to surface of cover, including main channel, set in CM 1:1, 230 mm thick brick walls (except manhole cover) complete all as specified.	3.39	Cum		
5	Supply and fix, Manhole CI cover with frame, 450 mm, circular or rectangular exceeding 7.50kg each, but not exceeding 10kg/each, set in CM and hunching in Concrete complete all as specified.	9.00	Each		

Ser	Description	Qty	Unit	Rate	Amount
6	Cutting into existing manholes for connecting new drains, making goods to pipes and rendering cutting out existing benching and reforming benching as required for new drains, making goods to existing walls etc., complete 150mm bore of pipe complete all as specified.	2.00	Each		
(B)	Total For External Sewerage Work			(Rs)	-
				Total Value (A+B)	(Rs) -

BILL OF QUANTITIES

BLOCK-B

FACULTY RESIDENTIAL BLOCK –

G.I.K INSTITUTE, TOPI

SWABI



BAYAR ASSOCIATES

Architects, Engineers And Planners

OFF.NO 85 2ND FLOOR, MOBEE PLAZA

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SUMMARY OF COST - FACULTY RESIDENTIAL BLOCK -B
G.I.K INSTITUTE TOPI, SWABI

S #	Description	Total Cost
1	Grey Works (Structure)	
2	Finishes Works (Architecture)	
3	External Work	
4	RCC Tanks System	
5	Electrical System	
6	Water Supply	
7	Sui Gas	
8	Plumbing / Sewerage (Internal & External)	
<i>Total Cost</i>		

**PROJECT: FACULTY RESIDENTIAL BLOCK -B
G.I.K INSTITUTE TOPI, SWABI**

BILL OF QUANTITY
(Grey & Finish Civil Work)

ENGINEERS COST ESTIMATE

SUB SUMMARY OF COST

S/No			Rate/Sft	Amount (Rs.)
A)	GREY WORKS CIVIL (Structure)			
1.0	Ground-Floor		-	-
2.0	First-Floor		-	-
3.0	Second-Floor		-	-
4.0	Mumty		-	-
	Total (Rs.)		-	-
B)	FINISH WORKS CIVIL (Architecture)			
1.0	Ground-Floor		-	-
2.0	First-Floor		-	-
3.0	Second-Floor		-	-
4.0	Mumty		-	-
	Total (Rs.)		-	-
	GRAND Total (Rs.) A+B (Building Only)		-	-
C)	OTHER WORK			
1.0	External Work			-
2.0	RCC TANKS SYSTEMS			-
	Total (Rs.)			-
	GRAND Total (Rs.)		-	-

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
A)	GROUND FLOOR				
1	Excavation				
	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead up to one chain (30 m) in ordinary soil.	Cft	13,027		
2	Compaction				
	Compaction of Natural Ground up to 95% Modified AASHTO density all as specified.	Sft	5,311		
3	Sand/Gassu Filling 2" thcik				
	Supplying and filling sand under floor; or plugging in wells	Cft	6,568		
4	Anti-termite				
	Anti-termite Treatment with "ABILITY 2.5% EC" by Hextar Group(Malaysian care systems) to mix ABILITY 01 litre with 250 liters of water to make spray emulsion at foundation trenches (Bed & sides) under floor before laying hard core material and outside under plinth protection	Sft	17,017		
5	PCC Lean				
	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 4: 8 1500 PSI Cubical				
a)	PCC Lean Under Footings	Cft	603		
b)	PCC Lean Under Floor	Cft	867		
6	Brick Masonry Work (Sub Structure)				
	Providing & Fixing Brick work Walls First Class A Quality in Cement, sand mortar:-Ratio 1:6 in Foundation complete in all respects:	Cft	1,258		
7	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: - (nominal mix 1: 2: 4) the requisite strength of 3000 PSI				
a)	Columns	Cft	895		
b)	RCC Plinth Beams	Cft	819		
c)	RCC Footings	Cft	1,656		
d)	RCC Stairs	Cft	129		
f)	RCC Lintels	Cft	101		
g)	RCC Vanity Kitchen	Cft	16		
h)	RCC Vanity Bath Area	Cft	9		
i)	RCC Beams	Cft	547		
j)	RCC Slab	Cft	1,239		

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
8	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars				
b)	Deformed bars (Grade-60)	Kg	16,230		
9	Brick Masonry Work				
	Providing and constructing BRICK MASONRY WORK :- laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.				
a)	9" inch thick Brick Work OPC) Cement mortar (1:5)	Sft	3,876		
b)	4½" inch thick Brick Work Cement mortar (1:4)	Sft	467		
10	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in cement sand mortar, smooth finished curing etc; as per Specifications and as per sample approved by the Engineer.				
a)	Internal Plaster 1:5 cement sand mortar Ratio	Sft	6,514		
b)	External Plaster 1:4 cement sand mortar Ratio	Sft	2,454		
11	Flooring Work				
a)	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate Ratio 1: 2: 4 1.5 to 2" thick PCC	Sft	3,139		
12	MS/ GI Chowkat				
	Providing and fixing 2" wide MS/ GI Chowkat single/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1- 1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer In charge.				
a)	10.5 " wide	Sft	252		
b)	5.5 " wide	Sft	98		
				Total=	-

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
B)	FIRST FLOOR				
1	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: - (nominal mix 1: 2: 4) the requisite strength of 3000 PSI				
a)	Columns	Cft	454		
	RCC Stairs	Cft	118		
c)	RCC Lintels	Cft	101		
d)	RCC Vanity Kitchen	Cft	16		
e)	RCC Vanity Bath Area	Cft	9		
f)	RCC Beams	Cft	547		
g)	RCC Slab	Cft	1,239		
2	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars				
b)	Deformed bars (Grade-60)	Kg	7,449		
3	Brick Masonry Work				
	Providing and constructing BRICK MASONRY WORK :- laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.				
a)	9" inch thick Brick Work OPC) Cement mortar (1:5)	Sft	3,033		
b)	4½" inch thick Brick Work Cement mortar (1:4)	Sft	365		
4	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in cement sand mortar, smooth finished curing etc; as per Specifications and as per sample approved by the Engineer.				
a)	Internal Plaster 1:5 cement sand mortar Ratio	Sft	5,098		
b)	External Plaster 1:4 cement sand mortar Ratio	Sft	2,077		
5	Flooring Work				
a)	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate Ratio 1: 2: 4 1.5 to 2" thick PCC	Sft	2,627		

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
6	MS/ GI Chowkat				
	Providing and fixing 2" wide MS/ GI Chowkat single/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1- 1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge.				
a)	10.5 " wide	Sft	252		
b)	5.5 " wide	Sft	98		
				Total=	-

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
C)	SECOND FLOOR				
1	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: - (nominal mix 1: 2: 4) the requisite strength of 3000 PSI				
a)	Columns	Cft	454		
	RCC Stairs	Cft	118		
c)	RCC Lintels	Cft	101		
d)	RCC Vanity Kitchen	Cft	16		
e)	RCC Vanity Bath Area	Cft	9		
f)	RCC Beams	Cft	547		
g)	RCC Slab	Cft	1,239		
h)	RCC Parapet Wall	Cft	273		
2	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars				
b)	Deformed bars (Grade-60)	Kg	8,267		
3	Brick Masonry Work				
	Providing and constructing BRICK MASONRY WORK :- laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.				
a)	9" inch thick Brick Work OPC) Cement mortar (1:5)	Sft	3,033		
b)	4½" inch thick Brick Work Cement mortar (1:4)	Sft	365		
4	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in cement sand mortar, smooth finished curing etc; as per Specifications and as per sample approved by the Engineer.				
a)	Internal Plaster 1:5 cement sand mortar Ratio	Sft	5,098		
b)	External Plaster 1:4 cement sand mortar Ratio	Sft	2,077		
5	Flooring Work				
a)	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate Ratio 1: 2: 4 1.5 to 2" thick PCC	Sft	2,627		

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
6	Roof Treatment Chips				
	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble paneling, it will be paid extra as powder in the ratio of 3:1 and two parts of marble chips, laid over 2"(50 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing:- surface finishing and dividing in Marble panels:- 1½"(40 mm) thick including 3 Coats of Chemical Coating on top PCC	Sft	2,323		
7	MS/ GI Chowkat				
	Providing and fixing 2" wide MS/ GI Chowkat single/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1- 1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer In charge.				
a)	10.5 " wide	Sft	252		
b)	5.5 " wide	Sft	98		
				Total=	-

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
D)	MUMTY				
1	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: - (nominal mix 1: 2: 4) the requisite strength of 3000 PSI				
a)	Columns	Cft	78		
	RCC Lintels	Cft	7		
c)	RCC Beams	Cft	102		
d)	RCC Slab	Cft	152		

Abstract of Cost 'Grey Work (Civil)					
SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
2	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars				
b)	Deformed bars (Grade-60)	Kg	1,016		
3	Brick Masonry Work				
	Providing and constructing BRICK MASONRY WORK :- laying 4.1/2" & 9" 1st Class burnt Brick masonry of any height with (in straight or curved walls, including scaffolding, racking out joints and curing etc. complete in all respect or as directed by the Engineer-in-charge.				
a)	9" inch thick Brick Work OPC) Cement mortar (1:5)	Sft	443		
4	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in cement sand mortar, smooth finished curing etc; as per Specifications and as per sample approved by the Engineer.				
a)	Internal Plaster 1:5 cement sand mortar Ratio	Sft	443		
b)	External Plaster 1:4 cement sand mortar Ratio	Sft	590		
5	Flooring Work				
a)	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate Ratio 1: 2: 4 1.5 to 2" thcik PCC	Sft	304		
6	Roof Treatment Chips				
	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble paneling, it will be paid extra as powder in the ratio of 3:1 and two parts of marble chips, laid over 2"(50 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing: - surface finishing and dividing in Marble panels: - 1½"(40 mm) thick including 3 Coats of chemical Coating on top PCC	Sft	304		
				Total=	-

Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
A)	GROUND FLOOR				
1	Porcelain Tile Flooring				
	Providing and laying Porcelain floor tiles inside building rooms 24"x48" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect with Skirting and best quality Tiles of approved color scheme (Base Rate up to Rs. @ 2000 Sqm) of Oreal /Times Ceramic Brand or equivalent.	Sft	1,977.50		
2	Ceramic Tile (Matt Finish)				
	providing and laying Porcelain Bath Wall Tiles dados 1/2" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect, as per Specifications, and best quality Tiles of approved color scheme. (Base Rate up to Rs. @ 2000/Sqm) Oreal/Times Ceramic Brand or equivalent.				
a)	Ceramic Bath Floor-Tile	Sft	522.00		
b)	Ceramic Bath Wall-Tile 7' feet Height	Sft	722.00		
c)	Backsplash Tile	Sft	76.50		
3	Marble Top				
	Providing and laying 3/4" thick Buticina of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 500 Sft) Local				
a)	Kitchen Top Marble	Sft	57.38		
b)	Bath Vanity Top Marble	Sft	31.50		
4	Paint Work (Plastic Emulsion)				
	In Internal Walls provide and apply Wall Putty with 2 coats Plastic Emulsion Paint (Brighto or Dimand)				
a)	Internal Walls (Plastic Emulsion)	Sft	6,513.60		
b)	Ceiling (Simple Emulsion)	Sft	2,627.00		
5	POP Ceiling				
	P/L POP ceiling comprising of 5/8" thick plaster of Paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire(16 SWG) duly enriched with POP and flaxen i/c the cost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge.(Measurement will be made as per carpet Area).	Sft	2,369.50		

PROJECT: FACULTY RESIDENTIAL BLOCK -B G.I.K INSTITUTE TOPI, SWABI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
6	Paint Work (weather shield) (External Walls)				
	On External Walls providing and applying Weather Shield Paint on external surface of building including preparation of surface, application of primer completes in all respect: new surface 2-coats (Brighto or Diamond)				
a)	External Walls (weather shield)	Sft	2,454.40		
7	Flush Door				
	Provide and fixing Flush Pressed Ply Door, including Door Frame using Yellow Pine/Partal Wood, polishing using weather-resistant oil based transparent stain, and all necessary hardware (heavy duty ss hinges, dead lock, door closer, ss studs, sliding bolts etc)				
a)	Single Leaf Door	No	12.00		
8	Wooden Door (D1, 5'x7')				
	Providing and fixing 1st class solid wood wrought joinery in paneled or paneled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Yellow pine wood Door 1-1/2" thick (40 mm)				
a)	Double Leaf Door	No	2.00		
9	SS Stair Railing				
	Provide and fix heavy-duty railing, comprising best quality Specifications Stainless Steel and 16 SWG thickness, 2" dia stainless steel pipe hand rail and 1-1/2" stainless steel pipe post (pillar) etc, with four rows of 3/4" dia stainless steel pipe bracings argon welded and suitably fixed, including stainless steel flange screwed to step / floor with rawl plugs, as per Hand rail & Baluster Fixing Detail (Typical), complete in all respect as per drawings and as per sample.	Rft	28.50		
11	Stair Marble with 4 " wide Skirting				
	In Stairs Providing and lay Granite Slabs (up to Rs.650/sft) as indicated in sub items below comprising 1:3 cement sand mortar bed on stair, entrance steps / podium including filling joints with white cement and matching pigment.				
a)	Main Stair	Sft	242.50		
b)	Main Entrance Steps	Sft	70.00		
b)	Entrance Steps R & L Sides	Sft	42.00		

PROJECT: FACULTY RESIDENTIAL BLOCK -B G.I.K INSTITUTE TOPI, SWABI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
12	Aluminum Windows (Single Glazed)				
	Provide and fix aluminum glazed fixed / sliding windows / ventilators using sections of min 100mm wide and 1.3 mm thick in champagne or approved color frames, including best quality local make 6mm thick clear glass as approved, and glazing of "Ghani Glass" make and with all hardware etc; as per existing building. GR Brand Black Coat	Sft	298.50		
13	Kitchen Cabinets				
	Providing and fixing box type Kitchen Cabinet consisting of 3/4" thick both side Laminated MDF sheet shutter and boxes and back of 3 mm thick laminated MDF sheet i/c the cost of PVC edge binding duly hot pressed on all edges of the shutters /panels etc., with machine i/c the cost of self-closing blum type hinges S.S, handles, screws, Glue and rawal plugs, locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Floor Mounted	Sft	70.13		
b)	Wall Mounted	Sft	51.00		
14	MS Grill				
	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Square Bars 18 SWG	Sft	298.50		
15	Marble Sills				
	Providing and laying 3/4" thick Baldel of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 250 Sft).	Sft	71.25		
16	Wardrobe				
	Providing and fixing 24" Deep Box type Wardrobe consisting of 3/4" thick UV coated MDF board(Medium density Fiber board) Sheet both side glazed shutters and box comprising of 3/4" thick laminated MDF sheet i/c the cost of 1mm thick PVC tape duly hot pressed on all edges of the shutters / panels / drawers etc., with machine i/c the cost of self-closing blum type hinges, handles, screws, Glue and rawal plugs, Drawers & locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Dress Area	Sft	182.25		
b)	Store Area	Sft	144.00		
				Total=	-

PROJECT: FACULTY RESIDENTIAL BLOCK -B G.I.K INSTITUTE TOPI, SWABI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
B)	FIRST FLOOR				
1	Porcelain Tile Flooring				
	Providing and laying Porcelain floor tiles inside building rooms 24"x48" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect with Skirting and best quality Tiles of approved color scheme (Base Rate up to Rs. @ 2000 Sqm) of Oreal /Times Ceramic Brand or equivalent.	Sft	1978.00		
2	Ceramic Tile (Matt Finish)				
	providing and laying Porcelain Bath Wall Tiles dados 1/2" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect, as per Specifications, and best quality Tiles of approved color scheme. (Base Rate up to Rs. @ 2000/Sqm) Oreal/Times Ceramic Brand or equivalent.				
a)	Ceramic Bath Floor-Tile	Sft	522.00		
b)	Ceramic Bath Wall-Tile 7' feet Height	Sft	72200		
c)	Backsplash Tile	Sft	77.00		
3	Marble Top				
	Providing and laying 3/4" thick Boticina of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 500 Sft) Local				
a)	Kitchen Top Marble	Sft	58.00		
b)	Bath Vanity Top Marble	Sft	31.50		
4	Paint Work (Plastic Emulsion)				
	In Internal Walls provide and apply Wall Putty with 2 coats Plastic Emulsion Paint (Brighto or Diamond)				
a)	Internal Walls (Plastic Emulsion)	Sft	6513.60		
b)	Ceiling (Simple Emulsion)	Sft	2627.00		
5	POP Ceiling				
	P/L POP ceiling comprising of 5/8" thick plaster of Paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire(16 SWG) duly enriched with POP and flaxen i/c the cost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge.(Measurement will be made as per carpet Area).	Sft	2369.50		

PROJECT: FACULTY RESIDENTIAL BLOCK -B G.I.K INSTITUTE TOPI, SWABI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
6	Paint Work (weather shield) (External Walls)				
	On External Walls providing and applying Weather Shield Paint on external surface of building including preparation of surface, application of primer completes in all respect: new surface 2-coats (Brighto or Dimand)				
a)	External Walls (weather shield)	Sft	2454.40		
7	Flush Door				
	Provide and fixing Flush Pressed Ply Door, including Door Frame using Yellow Pine/Partal Wood, polishing using weather-resistant oil based transparent stain, and all necessary hardware (heavy duty ss hinges, dead lock, door closer, ss studs, sliding bolts etc)				
a)	Single Leaf Door	No	12		
8	Wooden Door (D1, 5'x7')				
	Providing and fixing 1st class solid wood wrought joinery in paneled or paneled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Yellow pine wood Door 1-1/2" thick (40 mm)				
a)	Double Leaf Door	No	2		
9	SS Stair Railing				
	Provide and fix heavy-duty railing, comprising best quality Specifications Stainless Steel and 16 SWG thickness, 2" dia stainless steel pipe hand rail and 1-1/2" stainless steel pipe post (pillar) etc, with four rows of 3/4" dia stainless steel pipe bracings argon welded and suitably fixed, including stainless steel flange screwed to step / floor with rawl plugs, as per Hand rail & Baluster Fixing Detail (Typical), complete in all respect as per drawings and as per sample.				
a)	Main Stair	Rft	38.50		
b)	Balcony Area	Rft	94.88		
11	Stair Marble with 4 " wide Skirting				
	In Stairs Providing and lay Granite Slabs (upto Rs.650/sft) as indicated in sub items below comprising 1:3 cement sand mortar bed on stair, entrance steps / podium including filling joints with white cement and matching pigment.				
a)	Main Stair	Sft	242.88		

PROJECT: FACULTY RESIDENTIAL BLOCK -B G.I.K INSTITUTE TOPI, SWABI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
12	Aluminum Windows (Single Glazed)				
	Provide and fix aluminum glazed fixed / sliding windows / ventilators using sections of min 100mm wide and 1.3 mm thick in champagne or approved color frames, including best quality local make 6mm thick clear glass as approved, and glazing of "Ghani Glass" make and with all hardware etc; as per existing building. GR Brand Black Coat	Sft	298.50		
13	Kitchen Cabinets				
	Providing and fixing box type Kitchen Cabinet consisting of 3/4" thick both side Laminated MDF sheet shutter and boxes and back of 3 mm thick laminated MDF sheet i/c the cost of PVC edge binding duly hot pressed on all edges of the shutters /panels etc., with machine i/c the cost of self-closing blum type hinges S.S, handles, screws, Glue and rawal plugs, locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Floor Mounted	Sft	70.13		
b)	Wall Mounted	Sft	51.00		
14	MS Grill				
	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Square Bars 18 SWG	Sft	298.50		
15	Marble Sills				
	Providing and laying 3/4" thick Baldel of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 250 Sft).	Sft	71.25		
16	Wardrobe				
	Providing and fixing 24" Deep Box type Wardrobe consisting of 3/4" thick UV coated MDF board(Medium density Fiber board) Sheet both side glazed shutters and box comprising of 3/4" thick laminated MDF sheet i/c the cost of 1mm thick PVC tape duly hot pressed on all edges of the shutters / panels / drawers etc., with machine i/c the cost of self-closing blum type hinges, handles, screws, Glue and rawal plugs, Drawers & locking arrangement complete in all respect as approved and directed by Engineer Incharge.				
a)	Dress Area	Sft	182.25		
b)	Store Area	Sft	144.00		
				Total=	-

Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
C)	SECOND FLOOR				
1	Porcelain Tile Flooring				
	Providing and laying Porcelain floor tiles inside building rooms 24"x48" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect with Skirting and best quality Tiles of approved color scheme (Base Rate up to Rs. @ 2000 Sqm) of Oreal /Times Ceramic Brand or equivalent.	Sft	1977.50		
2	Ceramic Tile (Matt Finish)				
	providing and laying Porcelain Bath Wall Tiles dados 1/2" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect, as per Specifications, and best quality Tiles of approved color scheme. (Base Rate up to Rs. @ 2000/Sqm) Oreal/Times Ceramic Brand or equivalent.				
a)	Ceramic Bath Floor-Tile	Sft	522.00		
b)	Ceramic Bath Wall-Tile 7' feet Height	Sft	722.00		
c)	Backsplash Tile	Sft	76.50		
3	Marble Top				
	Providing and laying 3/4" thick Buticina of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 500 Sft) Local				
a)	Kitchen Top Marble	Sft	57.38		
b)	Bath Vanity Top Marble	Sft	31.50		
4	Paint Work (Plastic Emulsion)				
	In Internal Walls provide and apply Wall Putty with 2 coats Plastic Emulsion Paint (Brighto or Diamond)				
a)	Internal Walls (Plastic Emulsion)	Sft	6513.60		
b)	Ceiling (Simple Emulsion)	Sft	2627.00		
5	POP Ceiling				
	P/L POP ceiling comprising of 5/8" thick plaster of Paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire(16 SWG) duly enriched with POP and flaxen i/c the cost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge.(Measurement will be made as per carpet Area).	Sft	2369.50		

PROJECT: FACULTY RESIDENTIAL BLOCK - G.I.K INSTITUTE TOPI, SAWABI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
6	Paint Work (weather shield) (External Walls)				
	On External Walls providing and applying Weather Shield Paint on external surface of building including preparation of surface, application of primer completes in all respect: new surface 2-coats (Brighto or Dimand)				
a)	External Walls (weather shield)	Sft	2945.28		
7	Flush Door				
	Provide and fixing Flush Pressed Ply Door, including Door Frame using Yellow Pine/Partal Wood, polishing using weather-resistant oil based transparent stain, and all necessary hardware (heavy duty ss hinges, dead lock, door closer, ss studs, sliding bolts etc)				
a)	Single Leaf Door	No	12		
8	Wooden Door (D1, 5'x7')				
	Providing and fixing 1st class solid wood wrought joinery in paneled or paneled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Yellow pine wood Door 1-1/2" thick (40 mm)				
a)	Double Leaf Door	No	2		
9	SS Stair Railing				
	Provide and fix heavy-duty railing, comprising best quality Specifications Stainless Steel and 16 SWG thickness, 2" dia stainless steel pipe hand rail and 1-1/2" stainless steel pipe post (pillar) etc, with four rows of 3/4" dia stainless steel pipe bracings argon welded and suitably fixed, including stainless steel flange screwed to step / floor with rawl plugs, as per Hand rail & Baluster Fixing Detail (Typical), complete in all respect as per drawings and as per sample.				
a)	Main Stair	Rft	38.50		
b)	Balcony Area	Rft	94.88		
11	Stair Marble with 4 " wide Skirting				
	In Stairs Providing and lay Granite Slabs (upto Rs.650/sft) as indicated in sub items below comprising 1:3 cement sand mortar bed on stair, entrance steps / podium including filling joints with white cement and matching pigment.				
a)	Main Stair	Sft	242.50		

PROJECT: FACULTY RESIDENTIAL BLOCK -B G.I.K INSTITUTE TOPI, SWABI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
12	Aluminum Windows (Double Glazed)				
	Provide and fix aluminum glazed fixed / sliding windows / ventilators using sections of min 100mm wide and 1.3 mm thick in champagne or approved color frames, including best quality local make 6mm thick clear glass as approved, and glazing of "Ghani Glass" make and with all hardware etc; as per existing building. GR Brand Black Coat	Sft	298.50		
13	Kitchen Cabinets				
	Providing and fixing box type Kitchen Cabinet consisting of 3/4" thick both side Laminated MDF sheet shutter and boxes and back of 3 mm thick laminated MDF sheet i/c the cost of PVC edge binding duly hot pressed on all edges of the shutters /panels etc., with machine i/c the cost of self-closing blum type hinges S.S, handles, screws, Glue and rawal plugs, locking arrangement complete in all respect as approved and directed by Engineer In charge.				
a)	Floor Mounted	Sft	70.13		
b)	Wall Mounted	Sft	51.00		
14	MS Grill				
	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer In charge. 3/8" Square Bars 18 SWG	Sft	298.50		
15	Marble Sills				
	Providing and laying 3/4" thick Baldel of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 250 Sft).	Sft	71.25		
16	Wardrobe				
	Providing and fixing 24" Deep Box type Wardrobe consisting of 3/4" thick UV coated MDF board(Medium density Fiber board) Sheet both side glazed shutters and box comprising of 3/4" thick laminated MDF sheet i/c the cost of 1mm thick PVC tape duly hot pressed on all edges of the shutters / panels / drawers etc., with machine i/c the cost of self-closing blum type hinges, handles, screws, Glue and rawal plugs, Drawers & locking arrangement complete in all respect as approved and directed by Engineer In charge.				
a)	Dress Area	Sft	182.25		
b)	Store Area	Sft	144.00		
				Total=	-

PROJECT: FACULTY RESIDENTIAL BLOCK -B G.I.K INSTITUTE TOPI, SWABI					
Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
D)	MUMTY				
1	Porcelain Tile Flooring				
	Providing and laying Porcelain floor tiles inside building rooms 24"x48" over thick plaster of cement sand mortar (1:4) i/c filling joints in white cement and matching pigment complete in all respect with Skirting and best quality Tiles of approved color scheme (Base Rate up to Rs. @ 2000 Sqm) of Oreal /Times Ceramic Brand or equivalent.	Sft	257.50		
2	Paint Work (Plastic Emulsion)				
	In Internal Walls provide and apply Wall Putty with 2 coats Plastic Emulsion Paint (Brighto or Dimand)				
a)	Internal Walls (Plastic Emulsion)	Sft	442.80		
b)	Ceiling (Simple Emulsion)	Sft	257.50		
3	POP Ceiling				
	P/L POP ceiling comprising of 5/8" thick plaster of Paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire(16 SWG) duly enriched with POP and flaxen i/c the cost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the In charge.(Measurement will be made as per carpet Area).	Sft	267.50		
4	Paint Work (weather shield) (External Walls)				
	On External Walls providing and applying Weather Shield Paint on external surface of building including preparation of surface, application of primer completes in all respect: new surface 2-coats (Brighto or Diamond)				
a)	External Walls (weather shield)	Sft	590.40		
5	Wooden Door (D1, 5'x7')				
	Providing and fixing 1st class solid wood wrought joinery in paneled or paneled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer In charge Yellow pine wood Door 1-1/2" thick (40 mm)				
a)	Double Leaf Door	No	1		
6	SS Stair Railing				
	Provide and fix heavy-duty railing, comprising best quality Specifications Stainless Steel and 16 SWG thickness, 2" dia stainless steel pipe hand rail and 1-1/2" stainless steel pipe post (pillar) etc, with four rows of 3/4" dia stainless steel pipe bracings argon welded and suitably fixed, including stainless steel flange screwed to step / floor with rawl plugs, as per Hand rail & Baluster Fixing Detail (Typical), complete in all respect as per drawings and as per sample.				

Finish Work (Civil)					
SR	Description	ENGINEERS COST ESTIMATE			
		Units	Qty	Rate	Amount
a)	Main Stair	Rft	5.00		
7	Aluminum Windows (Single Glazed)				
	Provide and fix aluminum glazed fixed / sliding windows / ventilators using sections of min 100mm wide and 1.3 mm thick in champagne or approved color frames, including best quality local make 6mm thick clear glass as approved, and glazing of "Ghani Glass" make and with all hardware etc; as per existing building. GR Brand Black Coat	Sft	31.50		
8	MS Grill				
	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer In charge. 3/8" Square Bars 18 SWG	Sft	31.50		
9	Marble Sills				
	Providing and laying 3/4" thick Baldel of approved quality, colour shade and texture for kitchen slabs set over 3/4" thick 1:3 cement sand mortar i/c rounding off front edge complete in all respect as shown in the drawings and / or as directed by the Engineer. (Base Rate@ 250 Sft).	Sft	4.38		
				Total=	-

ABSTRACT OF COST TANK SYSTEM WORK

SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
A)	Tanks Systems				
1	Excavation				
	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead unto one chain (30 m) in ordinary soil. 90% to 95% maximum modified AASHO dry density.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Cft	1,436.50		
	Septic Tank 7'x5'x5'	Cft	440.00		
c)	0	Cft	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Cft			
2	PCC Lean				
	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):BLINDING CONCRETE SHALL HAVE A MINIMUM OF 1600 PSI CUBICAL STRENGTH AT 28 DAYS 6" thickness				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Cft	82.50		
b)	Septic Tank 7'x5'x5'	Cft	24.00		
c)	0	Cft	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Cft	--	-----	
3	RCC Work				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: 3000 P.S.I. CUBICAL STRENGTH AT 28 DAYS.				
	Base Slab Top Slab & Walls				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Cft	320.00		
b)	Septic Tank 7'x5'x5'	Cft	83.00		
c)	0	Cft	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Cft	127.10		
4	Pic-up RCC Columns				
	Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or pre stressed members cast in situ, complete in all respects: ALL COLUMNS AND RAFT SHALL HAVE MINIMUM OF 3750 P.S.I CUBICAL STRENGTH AT 28 DAYS.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'				
b)	Septic Tank 7'x5'x5'				
c)	0				
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Cft	6.00		
5	Steel				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-Deformed bars (Grade-60)				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	KG	880.00		
b)	Septic Tank 7'x5'x5'	KG	228.25		
c)	0	KG	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	KG	373.53		

ABSTRACT OF COST TANK SYSTEM WORK

SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
A)	Tanks Systems				
6	Plaster				
	Supply, make, apply and cure 1/2" thick smooth finished plaster in 1:4 cement sand mortar, smooth finished with steel trowel as shown in the drawings including metal lath strips curing etc; as per Specifications and as per sample approved by the Engineer.				
	Internal Plaster & External Plaster				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Sft	1,136.00		
b)	Septic Tank 7'x5'x5'	Sft	380.00		
c)	0	Sft	-		
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Sft	496.00		
7	Manhole Cover				
	Supply and Fixing CI manhole cover 24 Dia inch with frame of approved quality complete as per Specifications and as per sample approved by the Engineer.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Nos	1.00		
b)	Septic Tank 7'x5'x5'	Nos	1.00		
c)	0	Nos			
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Nos	1.00		
8	Monkey Ladder				
	Supplying / Providing fabricating and fixing of MS Monkey Ladder /Access Ladder for tank or where required comprising of 1-1/2" dia MS pipe with structural steel including all required fixing arrangements for complete the job as shown in drawing as per drawing, standard, specifications & direction of the Engineer.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Nos	3.00		
b)	Septic Tank 7'x5'x5'	Nos	3.00		
c)	0	Nos			
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Nos	3.00		
9	Water Stopper				
	Providing embedding Plastic PVC Water Stopper Size 9 inch Wide B Class Quality Complete in all Respect as Per Engineer In charge. Using between the Construction Joint of Footing & Retaining Wall only.				
a)	Under Ground Water Tank (UGWT) 14'x10'x6'	Rft	49.00		
b)	Septic Tank 7'x5'x5'	Rft	25.00		
c)	0	Rft			
d)	Over Head Water Tank (OHWT) 8'x5'x6'	Rft	27.00		
				Total=	-

ABSTRACT OF COST TANK EXTERNAL WORK

SR	Description	BILL OF QUANTITY (BOQ)			
		Units	Qty	Rate	Amount
	External Work				
1	Cut or fill Work				
	Cut or fill in Granular Soil not exceeding 150 mm, compact formation surface by compacting equipment and roller unto 100% Modified AASHTO density, including filling in depression with hard soil complete all as specified.	Sft	7,750.00	-	-
2	PCC Lean				-
	Providing and laying PCC 1:4:8, laid under floor using crushed or broken stones complete all as specified.	Cft	1,937.50	-	-
3	PCC				-
	Providing and laying, PCC 1:2:4 laid in floor, slabs as under layer for Terrazzo / tiles top finished, using crushed or broken stone complete all as specified.	Cft	1,937.50	-	-
4	Tuff Pavers				
	Providing and laying, PCC Paving stone, 50 mm thick in natural colour, as in floors, drive-way, walk-way etc., any pattern and any shape, (Hydraulically compressed), laid and jointed in sand, including 50mm thick sand bed as laying course complete all as specified.	Sft	7,750.00	-	-
				Total=	-

BILL OF QUANTITIES - MEP WORKS - FACULTY RESIDENTIAL BLOCK -B
G.I.K INSTITUTE TOPI, SWABI

<u>Ser</u>	<u>Description</u>	<u>Amount (Rs)</u>
1	Electrical System	
2	Water Supply	
3	Sui Gas	
Total Amount: (Rs)		

**BILL OF QUANTITIES - ELECTRICAL - FACULTY RESIDENTIAL BLOCK -B
G.I.K INSTITUTE TOPI, SWABI**

S.No	Description	Unit	Qty	Rate	Amount
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GENERAL NOTE

a	Scope (Application to all sections) Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				
1	Wiring				
a)	Supply, installation, testing & commissioning of electrical wiring , consisting One light point / Fan / bell Point with 3 x 1.5 mm ² copper pvc wires of Pakistan, Newage or Allied or Fast Cables as approved in PVC conduitsof appropriate size, of Popular/Dedex/Plasco recessed in walls/ coloumns/ roof slab/ Floor or fixed on surface with metal saddles, complete with accessories such as bends, sockets,circular boxes, junctionboxes etc.,cost to be included from Switch Board/DB to first point / first socket as per drawing of the circuit, complete in all respect including connections as required.	Points	248		
b)	As above but point to point (lights/fan)with 2 x 1.5 mm ² +1 x 1.5 copper PVC (ECC) wires.	Points	216		
c)	As above but from DB to switch box,5 Amp, 10/13 Amp and 15 Amp Switch Socket of 2 x4 mm ² C + 1 x 2.5 mm ² Copper	Points	66		
d)	As above but from But socket to Socket,5 Amp, 10/13 Amp and 15 Amp Switch Socket of 3 x2.5 mm ² Copper PVC wires	Points	168		
e)	Supply, installation, testing & commissioning of Coaxial cable incl pipe concladed PVC Conduit complete in all respect	Points	18		

S.No	Description	Unit	Qty	Rate	Amount
2 Cables					
	Supply, installation, Testing & Commissioning of cables of given sizes of Pakistan cables or equivalent, approved in PVC conduits/ pipe with termination kits/ Thimbles including Cable gland and Tagging of appropriate size as approved in accordance with the situation and approval of consultant.				
a)	2C x 16 mm ² Copper Pvc/Pvc cable to DB	RM	240		
b)	1C x 10mm ² Copper Pvc(Ecc) cable	RM	240		
c)	2C x 4mm ² Copper Pvc/Pvc cable, To Mumty DB	RM	120		
d)	1C x 1.5mm ² Copper Pvc(Ecc) cable	RM	120		
e)	1C x 6mm ² Copper Pvc (P+N) cable For ACs	RM	480		
f)	1C x 4mm ² Copper Pvc (Ecc) cable For ACs	RM	240		
3 WIRING ACCESSORIES & CABLE TRAYS					
	Supply & installation testing & commissioning of switch sheet & sockets including switches with back box of appropriate size (concealed in floor /wall or as per site requirement) of Legrand or equivalent as per manufacturer's list as approved of following description.				
SWITCHES					
a)	1 or 2 gang one way	No	34		
b)	3 gang one way	No	6		
c)	4 gang one way	No	6		
d)	5 gang one way	No	20		
e)	2 gang Two way	No	14		
f)	Fan Dimmer	No	24		
g)	Bell	No	6		
SOCKETS					
h)	5 Amp switch Socket	No	210		
i)	15 A switch socket	No	60		
j)	TV Socket	No	18		
4 LIGHT FIXTURES					
	Supply & installation testing & commissioning Lighting fixture complete in all respect (LED Light Minimum 90 ~100 Lumens / Watt) or equivalent as per manufacturer's list as approved of following description.				
a)	15/17W LED ceiling / recessed light fixture	No	246		
b)	12W LED Ceiling / recessed light fixture	No	16		

S.No	Description	Unit	Qty	Rate	Amount
5 Fans					
	Supply & installation testing & commissioning Fan / Exhaust Fan with ceiling rose / sheet. as per manufacturer's list as approved of following description.				
a)	Ceiling Fan 56/48" Energy efficient (Inverter Type) Ceiling Fan complete in all respect as manufacturer's list as approved .	No	48		
b)	Plastic Ceiling t fan as per manufacturer's list as approved .	No	6		
c)	Full Plastic 18" Dia Exhaust Fan complete in all respect as per manufacturer's list as approved .	No	12		
6 LV PANEL, DISTRIBUTION BOARDS					
a)	Supply, installation, testing and commissioning of Main Low Voltage (LV) Panel as per approved drawings, fabricated from 16 SWG sheet steel with angular frame, fully powder-coated and furnace baked in approved colour, complete with MCCB incomer, copper busbars, voltmeter, ammeter, energy analyzer, selector switches, R.Y.B phase indicators, PVC wiring ducts, imported locks, internal control wiring, terminations, earthing and all necessary accessories, complete in all respects. Make: Craft Engineering or approved equivalent	Job	1		
b)	Supply, installation, testing and commissioning of floor-wise / area-wise Distribution Boards (DBs) as per approved drawings, fabricated from heavy gauge sheet steel, powder coated finish, complete with incomer MCCB/isolator, outgoing MCBs, copper busbars, neutral and earth bars, R.Y.B indicators (where required), internal wiring, labeling, termination, earthing and all necessary accessories, complete in all respects. Make: Craft Engineering or approved equivalent	Job	7		
7 EARTHING SYSTEM					
a)	Earthing having earth value less than 1 ohm (One for Netural and one for Body of transformer) complete in all respect as per drawing or recommendation of Engineer in charge	Job	2		
8 Energy Meters					
a)	Supply, installation, testing & commissioning of Energy meter , as per IESCO Standard complete in all respect.	Job	6		
TOTAL					

**BILL OF QUANTITIES - WATER SUPPLY - FACULTY RESIDENTIAL
BLOCK-B G.I.K INSTITUTE TOPI, SWABI**

S.No	Description	Unit	Qty	Rate	Amount
GENERAL NOTE					
	Scope (<i>Application to all sections</i>)				
	Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				
	<u>GI Pipes Water Tank to Bath Rooms</u>				
1	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, Elbow, Union using G.I. pipes of IIL-L Karachi complete in all respects.				
a	25 mm dia	Rft	60.00		
b	50 mm dia	Rft	570.00		
	<u>Gate Valve, Non Return / Strainer Valve</u>				
2	Providing and fixing gun metal Peet/gate valve (screwed):- (Kids / Econosto make)				
a	50 mm(2") dia	Each	8.00		
b	25 mm(1") dia	Each	6.00		
c	Non return valve with Strainer 50 mmdia	Each	2.00		
	<u>PPRC Pipe</u>				
3	Supply and Fixing of PPRC Pipe heavy duty for Cold/ Hot Water with all fitting Tee, Elbow union sockets etc fitting and testing with pressure pump concealed in walls & floor i/c hocks etc complete. RAK-THEARAM UAE or equivalent				
a	20 mm dia	Rft	120.00		
b	25 mm dia	Rft	390.00		
c	50 mm dia	Rft	300.00		
	<u>Double Bib Cock</u>				
4	Bib cock double chromium plated 1/2"Ø with muslim shower etc complete	Each	12.00		

S.No	Description	Unit	Qty	Rate	Amount
	<u>CP Vanity Mixer</u>				
5	C.P. Vanity/ Basin mixer fancy head any pattern and shape screw down high pressure; lettered "HOT" and "COLD" with long screw shanks any fly nuts complete, supply and fixing	Each	12.00		
a	Same as above but Sink Mixer	Each	6.00		
b	Same as above but Shower Mixer	Each	12.00		
	<u>Stop/ Tee cock</u>				
6	Stopcock chromium plated screw down high pressure; fancy type; but tee stop cock	Each	36.00		
	<u>Water Cooler</u>				
7	Providing and Fixing Water Cooler General, Supreme imported comperssor copper condenser, copper motor, food grade storage tank one year warranty 35 Ltr (Orient / Heire or Equivalent)	Each	0	--	-----
	<u>Water Pump</u>				
8	Providing and Fixing Water Pump Discharge 80 GPM , Head 60 meter including valve and non-return valve, KSB make or equivalent with Complete Electric Fitting complete in all respect as directed by the Engineer in Charge	Job	2.00		
9	Providing and Fixing Pressure Water Pump including valve and non-return valve WITH PRESSURE TANK AND SWITCH, KSB make or equivalent with Complete Electric Fitting complete in all respect as directed by the Engineer in Charge	Nos	2.00		
Total Amount Rs =					

**BILL OF QUANTITIES - GAS WORK - FACULTY RESIDENTIAL BLOCK-B
G.I.K INSTITUTE TOPI, SWABI**

S.No	Description	Unit	Qty	Rate	Amount
GENERAL NOTE					
	Scope (<i>Application to all sections</i>)				
	Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				
	<u>GI Pipes</u>				
1	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, Elbow, Union using G.I. pipes of IIL-M Karachi complete in all respects.				
a	25 mm dia	Rft	560.00		
b	20 mm dia	Rft	210.00		
	<u>Gate Valve, Non Return / Strainer Valve</u>				
2	Providing and fixing gun metal Peet/gate valve (screwed):- (Kids / Econosto make)				
a	25 mm(1") dia	Each	6.00		
b	20 mm(1") dia	Each	30.00		
	<u>Gas Heater and Cooking Range</u>				
3	Providing and Fixing gas heater(NASGAS, Singer or equivalent) Two Plate type complete fitting etc in all respect	Each	24.00		
a	Providing and Fixing 3 burner cooking range (NASGAS, Singer or equivalent) Two Plate all as spd. dual system electric & gas complete fitting etc in all respect	Each	6.00		
	<u>Gas meter</u>				
4	Providing and Fixing Gas Meter including valve and regulator, mullar tee, as per SNGPL standard with Complete Fitting in all respect as directed by the Engineer in Charge	Job	6.00		
Total Amount Rs =					

BILL OF QUANTITIES - PLUMBING WORKS - FACULTY RESIDENTIAL
BLOCK-B G.I.K INSTITUTE TOPI, SWABI

Ser	Description	Qty	Unit	Rate	Amount
Internal Sewerage Work					
1	Supply and fix, u-PVC, Soil and waste pipe 50 mm dia, complete, with plain end and solvent cement joint complete all a specified.	39.02	Metre		
2	Supply and fix, uPVC Elbow/bend, 90° 50 mm dia, complete with solvent cement joint complete all a specified.	24.00	Each		
3	Supply and fix, u-PVC, Soil and waste pipe 75 mm dia, complete, with plain end and solvent cement joint complete all a specified.	78.64	Metre		
4	Supply and fix Socket 75 mm dia complete with solvent cement joint complete all a specified.	14.00	Each		
5	Supply and fix, uPVC Elbow/bend, 90° 75 mm dia, complete with solvent cement joint complete all a specified.	20.00	Each		
6	Supply and fix, uPVC, Access/ door T 75 mm dia, complete with solvent cement joint, all as specified.	12.00	Each		
7	Supply and fix, uPVC Equal T, 75 mm dia, complete with solvent cement joint complete all as specified.	8.00	Each		
8	Supply and fix, uPVC Y- T, 75 mm dia, complete with solvent cement joint complete all as specified.	6.00	Each		
9	Supply and fix, u-PVC, Soil and waste pipe 110 mm dia, complete, with plain end and solvent cement joint complete all a specified.	148.44	Metre		
10	Supply and fix Socket 110 mm dia complete with solvent cement joint complete all a specified.	20.00	Each		
11	Supply and fix, uPVC Elbow/bend, 90° 110 mm dia, complete with solvent cement joint complete all a specified.	16.00	Each		
12	Supply and fix, uPVC, Access/ door T 110 mm dia, complete with solvent cement joint, all as specified.	16.00	Each		
13	Supply and fix, uPVC Equal T, 110 mm dia, complete with solvent cement joint complete all as specified.	12.00	Each		
14	Supply and fix, uPVC Y- T, 110 mm dia, complete with solvent cement joint complete all as specified.	12.00	Each		

Ser	Description	Qty	Unit	Rate	Amount
15	Supply and fix Eccentric Reducer 50mm x 110mm dia complete with solvent cement joint complete all as specified.	28.00	Each		
16	Supply and fix uPVC Vent pipe 50mm bore (outside dia) complete with plain end and solvent cement joint complete all as specified.	27.44	Metre		
17	Supply and fix uPVC Vent Cowl 50mm dia on top of ventilating pipes complete all as specified.	12.00	Each		
18	Providing, installing and fixing heavy duty approved quality and make uPVC AGM type or equivalent floor trap with "Faisal" make stainless steel grating including all material for fixing complete in all respect and as per specifications and directions of the Engineer.	42.00	Each		
19	Supply and fix water closet apparatus European pattern, complete (like porta design or equivalent) complete (coupled set) comprising closet, 13 litres flushing cistern glazed in white/ivory colour complete imported (China) fixed to concrete brick stone or wood work best quality	12.00	Each		
20	Supply and fixing of over-counter vanity wash basin (bowl type) of best quality glazed ware, single-hole type, complete with chrome-plated bottle trap, waste coupling, chain and plug, long-neck mixer tap, all necessary fittings and	12.00	Each		
21	Providing, installing and testing "faisal" make Muslim shower(hand spray) of approved quality and colour for water closet complete with Wall hook/bracket, flexible pipe, etc as per specifications and directions of the Engineer.	12.00	Each		
22	Supply and Fix Accessories bath set plastic consisting of shelf, towel rail, ring, brush holder, toilet paper holder, soap dish and mirror, complete all as specified.	12.00	Each		
23	Supply and fix, 25 mm thick, marble slab around vanity bowl, with brackets etc including cutting in any shape with machine, rubbing, polishing and making the joints water tight complete all as specified.	7.52	Sqm		

Ser	Description	Qty	Unit	Rate	Amount
24	Providing and fixing water storage Electric/Gas Water Heater (Geyser) , 25-gallon capacity, complete with thermostat, safety valve, inlet/outlet valves, pressure relief valve, and all necessary fittings/accessories. The unit shall be installed, tested, and commissioned as per specifications and directions of the Engineer. (Make: Nargas, Master Heat, or equivalent approved)	12.00	Each		
25	Dual Electric & Gas Oven Supply, installation, testing, and commissioning of dual-fuel oven, comprising gas-operated cooktop and electric baking oven. Unit shall include all necessary fittings, safety valves, ignition system, temperature controls, wiring connections, and gas pipeline interfaces. Complete in all respects as per manufacturer's specifications and site requirements. (Nargas, Master Heat or equivalent)	12.00	Each		
26	Supply and fix, Mirror, (any shape and pattern), 5 mm thick, edges ground, complete all as specified.	13.38	Sqm		
(A) Total For Internal Sewerage Work (Rs)					-
External Sewerage Work					
1	Excavation as in Hard Soil upto 1.5 M depth, in foundation and pipe trenches upto 1.5 M wide, in shafts, wells and independent holes upto 30 sqm each and throw earth clear of edges of excavation within 10m complete all a specified.	20.07	Cum		
2	Supply and fix uPVC Soil and waste pipe 160mm bore (outside dia) complete with plain end and solvent cement joint complete all a specified.	82.29	Metre		
3	Supply and fix 160mm dia socket complete with solvent cement joint all as specified.	21.00	Each		
4	Manholes, complete, rectangular or circular as described, not exceeding 600 mm deep from invert to surface of cover, including main channel, set in CM 1:1, 230 mm thick brick walls (except manhole cover) complete all as specified.	3.39	Cum		
5	Supply and fix, Manhole CI cover with frame, 450 mm, circular or rectangular exceeding 7.50kg each, but not exceeding 10kg/each, set in CM and hunching in Concrete complete all as specified.	9.00	Each		

Ser	Description	Qty	Unit	Rate	Amount
6	Cutting into existing manholes for connecting new drains, making goods to pipes and rendering cutting out existing benching and reforming benching as required for new drains, making goods to existing walls etc., complete 150mm bore of pipe complete all as specified.	2.00	Each		
(B) Total For External Sewerage Work				(Rs)	-
Total Value (A+B)				(Rs)	-