

**ESTABLISHMENT OF POST GRADUATE EDUCATION AND RESEARCH CENTER
AT
PIR ABDUL QADIR SHAH JILANI INSTITUTE OF MEDICAL SCIENCES
(PAQSJIMS) GAMBAT
(RESEARCH INSTITUTE)**

BILL OF QUANTITY

Consultant:



M/S. ATIF NAZAR (PVT.) LTD.
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S. NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
A	Schedule Items	
	Add % on (A) PWD Schedule Rates 2012 for Schedule Items= Rs.	129,653,013.87
	TOTAL (A)	
B	Non-Schedule Items	
	TOTAL (B)	
	GRAND TOTAL (A+B)	
2	PLUMBING WORKS	
A	Schedule Items	
	Add % on (A) PWD Schedule Rates 2012 for Schedule Items= Rs.	1,631,320.69
	TOTAL (A)	
B	Non-Schedule Items	
	TOTAL (B)	
	GRAND TOTAL (A+B)	
3	ELECTRICAL WORKS	
A	Schedule Items	
	Add % on (A) PWD Schedule Rates 2012 for Schedule Items= Rs.	5,269,827.01
	TOTAL (A)	
B	Non-Schedule Items	
	TOTAL (B)	
	GRAND TOTAL (A+B)	
4	HVAC WORKS	
A	Non-Schedule Items	
	TOTAL	
	GRAND TOTAL (1 + 2 + 3 + 4)	



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ENGINEERS ESTIMATE

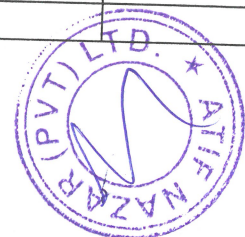
S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
		<u>CIVIL WORKS (Schedule Items)</u>				
1		Clearing and Grubbing				
	102-1	Clearing jungle (ordinary) by cutting, removing all shrubs, trees, upto 6 inches (152 mm) girth, etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless material as directed, included all leads, cost of earth included.	100 Sq.ft	33,464.00	43.43	14,533.42
2		Excavation				
a	103-13	Excavation for raft foundations, underground tanks and septic tanks (rectangular or square) in wet silt clay or mud and back filling the excavated material all round the trenches including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, Including all lead and lift up to 5 feet (1.52 m).	100 Cft	167,319.00	736.23	1,231,852.67
b	103-13 + 28	Add for additional lift of every three feet (5 ft to 8 ft)	100 Cft	33,464.00	813.58	272,256.41
3		Bailing out water.				
	103-40	Bailing or pumping out sub-soil water during excavation, concreting, cast in situ concrete or masonry work in foundation etc. (only three operations to be allowed, trench volume under water to be measured first time for excavation, second time for concreting, and third time for cast in situ concrete or masonry work in foundation etc.,	100 Cft	66,927.00	298.35	199,676.70
4		Stone Solling				
	104-12	Supplying, stacking, spreading and filling stones of required size to required slope from approved quarries in plinth or under floor including filling voids with spawl and chips and consolidation by ramming layers not exceeding 9 inches (229 mm) in depth to full compaction lift upto 5 feet (1.52 m).	100 Cft	33,464.00	2,207.48	738,711.59
5		Lean Concrete				
	105-13	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded stone ballast 2 inches (51 mm) and down gauge in foundation including levelling, compacting and curing etc. complete.	100 Cft	16,732.00	10,415.44	1,742,711.42
6		Situ Wall				



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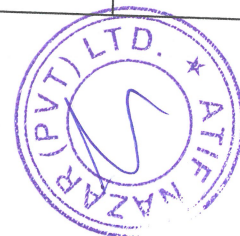
S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
	106-02	Providing and laying in situ 1:3:6 (1 cement 3 sand and 6 coarse aggregate) cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 R.m) depth and plinth up to 4 feet (1.2 R.m) height from ground level.	100 Cft	3,088.00	14,887.24	459,717.97
7		REINFORCED CEMENT CONCRETE (SUB STRUCTURE)				
a		Foundation				
	114-02 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in raft or strip foundation with columns and pillars, of any shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth.	100 Cft.	60,750.00	23,751.95	14,429,309.63
b		Sub-Structure Columns				
	114-04 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth.	100 Cft.	1,824.00	26,704.50	487,090.08
c		Plinth Beam				
	114-08 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth	100 Cft.	6,965.00	26,113.85	1,818,829.65
8		Earth Filling				
	104-8	Supplying earth from approved outside sources including digging, loading and unloading and filling in foundation trenches, plinth or under floor, etc. including breaking clods, dressing, watering and consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction complete with all lead and lift of 5 feet (1.52 m).	100 Cft	243,343.00	2,467.50	6,004,495.83



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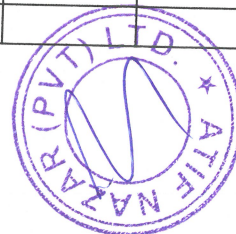
S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
9		Damp Proof Course				
a	108-03	Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded screened bajri of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent.	100 Sq.ft.	2,157.10	2,659.79	57,374.21
b	108-05	Extra for using water proofing agent pudlo in item Nos. 1,2 and 3 (quantity to be used as per manufacturer's specification).	KG	64.71	86.10	5,571.86
10		Super Structure Columns				
a	114-24 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor	100 Cft.	3,295.00	30,389.36	1,001,329.41
b	114-24 + 135 + 138 + 92	First floor	100 Cft.	3,295.00	31,338.56	1,032,605.55
c	114-24 + 138 + 135 + 92 + 93	Second floor	100 Cft.	455.00	32,090.01	146,009.55
11		Shear Wall				
a	114-09 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs.. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth	100 Cft.	1,313.00	27,958.39	367,093.66
b	114-30 + 135 + 138	Plinth to first	101 Cft.	1,807.00	28,692.59	518,475.10
c	114-30 + 135 + 138 + 92	First to Second	102 Cft.	1,710.00	29,641.79	506,874.61
d	114-30 + 135 + 138 + 92 + 93	Roof	103 Cft.	711.00	30,393.24	216,095.94
12		Super Structure Beams				



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S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
a	114-38 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in straight beams, lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement and ground floor.	100 Cft.	5,304.00	28,609.52	1,517,449.10
b	114-38 + 135 + 138 + 92	First floor	100 Cft.	5,845.00	29,558.72	1,727,707.36
c	114-38 + 135 + 138 + 92 + 93	Second floor	100 Cft.	94.00	30,310.17	28,491.56
13		Sills				
a	114-42	Providing and laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:2:4 in sill and bed plates of straight or circular walls including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement and ground floor.	100 Cft.	45.84	19,602.85	8,986.68
b	114-42 + 92	First floor.	100 Cft.	49.92	20,552.05	10,259.97
14		Lintels				
		Providing and laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:2:4 in straight beams, lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement and ground floor.				
a	114-38	Ground floor.	100 Cft.	526.88	19,779.90	104,215.35
b	114-38 + 92	First floor.	100 Cft.	455.63	20,729.10	94,446.96
c	114-38 + 92 + 93	Second floor.	100 Cft.	17.81	21,480.55	3,826.22
15		Coping				



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S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
	109-105 + 111 + 112	Providing and laying in situ 1:3:6 cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge in architraves, coping and cornice etc. of required shape in superstructure including compacting, curing, cost of form work and its removal etc., complete in Second floor .	100 Cft.	207.35	16,148.87	33,483.87
16		Counter Top				
a	114-55	Providing and laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:2:4 in ordinary slab 3 inches (76 mm) to less than 5" (127 mm) thick including form work and its removal compacting and curing etc, complete but excluding the cost of reinforcement, in basement plinth and ground floor.	100 Cft.	43.32	21,234.54	9,199.47
b	114-55 + 92	First Floor	100 Cft.	31.66	22,183.74	7,022.96
17		Slab				
a	114-56 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in ordinary slab 5 inches (127 mm) to 6 inches (152 mm) thick Including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor	100 Cft.	11,563.00	28,084.91	3,247,458.14
b	114-56 + 135 + 138 + 92	First floor	100 Cft.	11,546.00	29,034.11	3,352,278.34
c	114-56 + 135 + 138 + 92 + 93	Second floor	100 Cft.	401.00	29,785.56	119,440.10
18		Stair Case				
a	114-50 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor.	100 Cft.	476.29	33,930.55	161,609.05
b	114-50 + 135 + 138 + 92	First floor	100 Cft.	476.29	34,879.75	166,130.03



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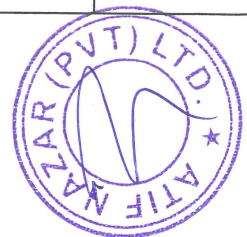
S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
19		Top roof Over head water tank & Under ground water tank				
a	114-10 + 135 +138 + 92 + 93 + 93	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq. inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in straight walls in over head water tank bins, bunkers, intze tanks and silo up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement..	100 Cft.	1,099.41	33,687.42	370,362.44
b	114-09 + 135 + 138	Providing and laying reinforced cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs.. per sq inch (15.52 N/mm ²) at 28 days with a mix not leaner than 1:1:2 in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation, basement and plinth	100 Cft.	621.00	27,958.39	173,621.60
c	114-153	Providing and using pudlo in ordinary portland cement in item of RCC .	KG	51.61	85.37	4,406.14
d	124-93	Providing and fixing plain polyvinyl chloride (PVC) water stops 12" (305 mm) wide in vertical or horizontal expansion joints including cutting and jointing etc. complete in all floors .	Rft	173.67	500.16	86,860.76
20		Brick Massonary				
a	112-25 + 79	Providing and laying first class solid burnt brick masonry set in cement mortar 1:4 in straight or curved walls 9 to 13-1/2 inches (229 mm to 343 mm) thick including scaffolding, raking, out joints and curing etc. complete in ground floor superstructure .	100 Cft.	23,078.67	22,529.54	5,199,518.19
b	112-25 + 79 + 70	First Floor	100 Cft.	26,740.22	23,551.06	6,297,605.85
c	112-25 + 79 + 70 +71	Second Floor	100 Cft.	4,292.09	24,230.54	1,039,997.64
21		Metal lathing for cement plaster (At joints)				
	122-42	Providing and fixing expanded metal or wire net lathing with 3/4" (19 mm) cement plaster 1:4 in 3 layers including curing etc. complete in any floor with expanded metal 2-1 /2" x 3/4" x 12 gauge (64 mm x 1 9 mm x 2.11 mm).	100 Sq.ft.	12,563.28	11,447.18	1,438,141.46
22		Steel Reinforcement				



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		Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or m.s. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.				
a	114-166	G.Floor	Kg	270,000.00	123.02	33,215,400.00
b	114-166 + 174	F.Floor	Kg	110,000.00	124.47	13,691,700.00
c	114-166 + 174 + 176	S.Floor	Kg	10,000.00	125.46	1,254,600.00
23		Roof Columns				
	114-158 + 159 + 160 + 160	Providing and laying RCC columns of any shape and design on lean concrete of 1:12 for temporary coverage of steel including form work and its removal compacting etc. complete but excluding the cost of reinforcement, basement, plinth and ground floor..	100 Cft.	1,237.00	14,606.57	180,683.27
24		Plaster				
a		1/4" (6.4 mm) thick cement plaster 1:4 on soffits of ceiling, cantilever slabs, sides and soffits of beam etc., in basement, mezzanine and ground floor including making edges, corners and curing etc.,. Complete.				
i	122-2	Ground Floor	100 Sq.ft.	8,613.00	1,625.98	140,045.63
II	122-2 + 87	First Floor	100 Sq.ft.	3,360.50	1,779.85	59,811.85
III	122-2 + 87 + 90	Second Floor	100 Sq.ft.	957.88	1,910.31	18,298.47
b		1/2" (13 mm) thick cement plaster 1:5 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, and curing etc., complete..				
i	122-5	Ground Floor	100 Sq.ft.	62,308.14	1,896.49	1,181,667.64
II	122-5 + 88	First Floor	100 Sq.ft.	56,818.26	2,101.65	1,194,120.96
III	122-5 + 88 + 91	Second Floor	100 Sq.ft.	4,318.27	2,275.59	98,266.12
c		3/4" (19 mm) thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, and curing etc., complete.				
i	122-8	Ground Floor	100 Sq.ft.	13,450.05	2,367.12	318,378.29
II	122-8 + 88	First Floor	100 Sq.ft.	12,249.43	2,572.28	315,089.02
III	122-8 + 88 + 91	Second Floor	100 Sq.ft.	11,177.50	2,746.22	306,958.29



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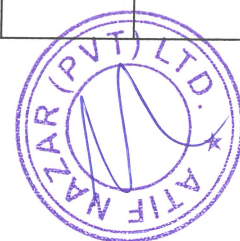
S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
d		UGWT & OHWT				
i	117-5	Providing, and laying floors of 1-1/2 inches (38 mm) thick 1:2:4 cement concrete using graded screened bajri 3/4 inches (19 mm) and down gauge in UGWT including form work, consolidation, finishing, curing etc. complete..	100 Sq.ft.	336.96	2,340.55	7,886.72
II	117-5 +25+26+26+26	Providing, and laying floors of 1-1/2 inches (38 mm) thick 1:2:4 cement concrete using graded screened bajri 3/4 inches (19 mm) and down gauge in OHWT including form work, consolidation, finishing, curing etc. complete..	100 Sq.ft.	544.50	3,167.90	17,249.22
III	122-2	1/4" (6.4 mm) thick cement plaster 1:4 on soffits of ceiling, cantilever slabs, sides and soffits of beam etc., in UGWT including making edges, corners and curing etc., Complete.	100 Sq.ft.	336.96	1,625.98	5,478.90
iv	122-2 + 87 + 90 + 90	1/4" (6.4 mm) thick cement plaster 1:4 on soffits of ceiling, cantilever slabs, sides and soffits of beam etc., in OHWT including making edges, corners and curing etc., Complete.	100 Sq.ft.	544.50	2,040.77	11,111.99
v	122-5	1/2" (13 mm) thick cement plaster 1:5 on walls and columns etc. in UGWT including making edges, corners, and curing etc., complete..	100 Sq.ft.	521.04	1,896.49	9,881.47
vi	122-5 + 88+91+91	1/2" (13 mm) thick cement plaster 1:5 on walls and columns etc. in OHWT including making edges, corners, and curing etc., complete..	101 Sq.ft.	441.97	2,449.53	10,826.19
vii	114-153	Providing and using pudlo in ordinary portland cement in item of RCC .	KG	81.77	85.37	6,980.70
25		Flooring				
a	117-01	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors including packing with spawls and chips and consolidating etc. complete.	100 Cft.	13,809.48	3,251.34	448,993.05
b	117-02	Providing and laying 1:4:8 cement concrete bed under floors using graded stone ballast 2 inches (51 mm) and down gauge with levelling and ramming, watering and curing etc. complete..	100 Cft.	8,660.99	10,315.56	893,430.08
c	117-06	Providing and laying floors of 2 inches (51 mm) thick 1:2:4 cement concrete using graded screened bajri 3/4 inch (19 mm) and down gauge in ground floor laid in panels including form work, consolidation, finishing, and curing etc. complete.	100 Sq.ft.	28,666.35	3,053.25	875,255.12
d	117-06 + 25	First floor	101 Sq.ft.	21,808.03	3,295.21	718,620.07
e	117-06 + 25 + 26	Second floor	102 Sq.ft.	957.88	3,490.34	33,433.26
26		Porcelain tiles				



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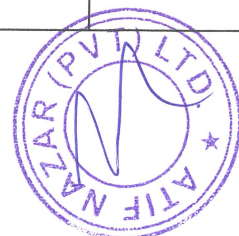
S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
	117-159	Providing and laying light colour, glazed/non skid vitrified porcelean tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	100 Sq.ft.	24,002.97	17,882.39	4,292,304.48
27		Glazed Tiles Flooring				
		Providing and laying floor of 6mm (approx: 1/4") thick white glazed tiles 12" x 12" (304mm x 304mm) of master make (Pakistani) first grade in ground floor laid over 1" (25mm) thick cement mortar 1:2 (1 cement and 2 sand) including jointing and washing the tiles with white cement slurry and curing etc, complete.				
a	117-62	Ground floor	100 Sq.ft.	857.00	16,930.17	145,091.56
b	117-62 + 69	First floor	100 Sq.ft.	951.81	17,125.30	163,000.75
28		Glazed Tiles Dado & Skirting				
		Providing and fixing 1/4"(6mm approx.) thick of Pakistani make first grade coloured glazed tiles 8"x 10" (203mm x 254mm) size in dado and skirting in ground floor over 1/2" (13mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joint with white cement slurry to matching the colour and washing the tile, curing and cleaning etc. complete				
a	118-48	Ground floor	100 Sq.ft.	2,924.50	9,097.31	266,050.83
b	118-48 + 51	First floor	100 Sq.ft.	3,412.50	9,392.79	320,528.96
29		Chequered tiles				
a	117-107	Providing and laying floor 1 inch (25 mm) thick of cement tiles 12" X 12" X 1" (1 1/2" topping and 1 1/2 inch base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in grey cement in ground floor over 1 inch (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar, jointing and washing the tiles with neat cement slurry, polishing and curing etc. complete including the cost of mortar..	100 Sq.ft.	1,721.33	8,065.32	138,830.49
b	118-63	Providing and fixing cement tiles 6" X 6" X 3/4" (152 mm X 152 mm x 19 mm) in dado and skirting in approved dark shade over 1/2 inch (13 mm) thick base in cement mortar 1:3 in ground floor setting of tiles in slurry of grey cement over mortar base, including filling of joints and washing the tiles with cement slurry of the matching colour curing, grinding, rubbing and polishing etc. complete.	100 Sq.ft.	140.17	9,301.82	13,038.27



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ENGINEERS ESTIMATE

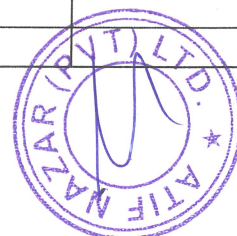
S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
30		False Ceiling				
	124-182 122-151	Providing and fixing Gypsum board 2' x 2'x 12mm tiles ceiling including two coat of distemper, Aluminum T & L angle 1" x 1" i.c hanger clips jointing clips and G.I Wire etc complete as required in any floor.	Sq.ft.	21,727.81	82.22	1,786,491.16
31		Doors and Windows				
a	119-91	Providing and fixing fully glazed Champagne anodized aluminium Swing door with frame as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan Cables and A.C.P. (fixing through their approved fabrocaters), Deluxe model section, 101.6mm x 44.5mm and 2mm thick including the aluminium fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge (Single leaf).	Sq.ft.	3,780.50	528.71	1,998,788.16
b	119-91	Providing and fixing fully glazed Champagne anodized aluminium Swing door with frame as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan Cables and A.C.P. (fixing through their approved fabrocaters), Deluxe model section, 101.6mm x 44.5mm and 2mm thick including the aluminium fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge (Double leaf).	Sq.ft.	602.00	528.71	318,283.42
c	119-120	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc including the cost of labour, M.S. square pipe beading, rubber packing and screw in any floor at any height.	Sq.ft.	3,067.75	106.11	325,506.24
d	119-67 + 120	Providing and fixing fully glazed Champagne anodized aluminium Fixed windows Partition as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators), Economy model box section 76.2mm x 38.1mm and 2mm thick including the cost of aluminium fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, including the cost of glass pans 5mm tinted.	Sq.ft.	218.75	359.51	78,642.81
e	119-79 + 120	Providing and fixing double glazed Champagne anodized aluminium Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators), VIP model section double or single glazed 100mm x 34mm and 1.6mm thick including the cost of aluminium netting ,fitting, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, including the cost of glass pans 5mm tinted.	Sq.ft.	1,950.00	735.43	1,434,088.50



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ENGINEERS ESTIMATE

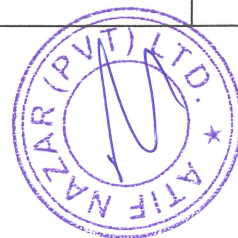
S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
f	121-76	Providing and fixing with brass screws Alpha knob set lock of approved design (No. 7000) Japan make, cutting to required shape and size with two operating keys as per direction of the Engineer-in-Charge.	Each	28.00	2,531.56	70,883.68
g	121-68	Providing and fixing with brass screws or specially supplied screws hydraulic door closer branno of approved design No. 3 (Yugoslavia make), cutting etc., to required shape and size as per direction of Engineer-in-Charge.	Each	148.00	1,943.14	287,584.72
h	121-65	Providing and fixing with brass screws or specially supplied screws yale night latch design of approved design No. 610, Italian make, cutting etc., to required shape and size as per direction of the Engineer-in-charge.	Each	132.00	4,151.49	547,996.02
32		Water Proofing and Roof Screeding				
a	108-12 x 2 + 30 + 30	Providing two coat of bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm) on roof.	100 Sq.ft.	25,819.98	1,489.54	384,598.93
b	108-25A + 37 + 37	Providing and laying water proofing of 1-1/2" to 2 inches (38 to 51 mm) thick 1:2:4 cement concrete using graded screened bajri 3/8 to 3/16 inch (4 to 2 mm) thick in strips 1-1/4' wide laid on next day in full length of the roof with using M/S angle 1-1/2" x 1-1/2" x 3/16" including compecting, curing and removal of angles iron and laying of 6mm dia steel bars @300 mm c/c both ways as directed on roof but excluding the cost of M/S angle and steel bars.	100 Sq.ft.	25,819.98	2,879.92	743,594.77
33		Misc.				
a	124-171	Providing and laying 1/2" (13mm) thick marble patties (pannel strips) up to 1-1/2" (38 mm) depth in floor and dado of any descriptino in all floor.	Rft.	991.00	6.46	6,401.86
b	124-141	Providing and laying gola 3" x 3" (76 mm x 76 mm) concrete 1:2:4 using graded screened bajri at junction of roof slab and walls and finished with cement plaster 1:4 including curing etc. complete.	100 Rft.	899.00	1,368.16	12,299.80
c	124-65	Providing and fixing 4" (100 mm) dia polyvinyle chloride rain water (PVC) down pipe with mild steel clamps, bolts and nuts fixed in cement concrete 1;2:4 etc. complete.	Rft	249.00	283.29	70,540.30
d	124-69	Providing and fixing 4" (100 mm) dia polyvinyle chloride (PVC) bend of any degree for rain water down pipe with clamps, bolts and nuts in cement concrete 1:2:4 etc. complete..	Each	88.00	696.81	61,319.54
e	122-37	Extra if deep cut grooves of approved sizes and design are made on plastered surface of any description in any floor	100 Sq.ft.	460.33	733.11	3,374.74
34		Paint				



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S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
a	122-151	Distempering with vinyl distemper (ICI) Dulux Paintex of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor.	100 Sq.ft.	12,931.00	1,053.54	136,233.41
b	122-162	Painting with (ICI) Dulux plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any height in any floor .	100 Sq.ft.	123,444.67	2,742.08	3,384,951.11
c	122-172	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor.	100 Sq.ft.	11,177.50	1,406.88	157,254.54
35		Wooden Flooring				
	117-147	Providing and fixing with iron screws best quality imported teak wood 1-1/2 inches (38 mm) thick Planking of required width for flooring rebated or tongues and grooved on wooden frame in any floor including necessary jointing finishing etc. complete but excluding the cost of frame..	Sq.ft.	339.14	1,005.78	341,095.70
36		Pavers				
	117-158	Providing and laying in floor C.C. 1:2:4: tuff pavers 2" thick of approved design and colour and pattern (average strength 7000 psi) laid on sand cushion filling of joint with sand and warring etc. complete as per direction of Engineer Incharge. (the cost of sand cushion is included)	Sq.ft.	2,117.50	61.64	130,527.16
37		Kerb Stone				
	127-115 - 116	Providing and laying road kerb of precast cement concrete 1:3:6 (24" long 6" wide and 12" deep (610 mm long 152 mm wide and 305 mm deep) using screened graded bajri, from work and its removal compacting and curing laid in cement mortar 1:4 and cement plaster 1:4 neatly finished including cost of excavation and back filling of excavated stuff and its disposal within one chain lead as desired.	100 Rft	605.00	12,639.16	76,466.92
38		Sky light				
	119-23	Providing and fixing fully glazed fixed steel sky light etc. made to crittal or equivalent standard and of approved section painted with two coats of red oxide paint including, cutting holes and making good damages to walls etc. complete as required in any floor.	Sq.ft.	1,307.25	374.79	489,944.23
Sub Total (Schedule Items) = Rs.						129,653,013.87





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BILL OF QUANTITY

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
		CIVIL WORKS (Non Schedule Items)				
1		Termite Treatement				
	M-R	Providing and applying anti termite treatment in foundation bed of excavated trenches, vertical walls of excavated trenches and under floor of new buildings by approved manufactures/suppliers with ten years guarantee as directed by the engineer incharge (Only Plinth Area three time).To all the earth dressed horizontal and vertical surfaces before laying of concrete etc. for columns and wall foundations as well as trenches for drain lines etc.To all foundations and plinth beams surfaces upto plinth level before earth filling,To completion of stone soling in plinth area complete and also in plinth protection,Note: Payment as per Plinth Area one time.	Sft	26,008.99		
2		Water Proofing				
	M-R	Providing, laying and applying hot bitumen to the vertical surfaces of the columns and the walls in foundation & plinth in two layers with 10/20 at 1.64 kg per sqm, applied hot over the completely dry surfaces of the concrete works, after the curing period is over, complete as per drawings, specifications and as per instructions of Engineer In-charge.	Sft	45,918.86		
3		Marble				
a		Steps (Tread)				
		Providing & laying 3/4" thick polished approved Marble (as approved by Engineer In-charge) in single piece (Upto 6 Sqft) with Polish, bull nose edging on Stairs Steps as shown on drawings including preparation and laying of base plaster / concrete (1" thick) in 1:4 cement sand mortar, filling/grouting joints in white/coloured cement & matching colour grout as required, mechanical cutting complete as per drawing / specification and instructions of Engineer Incharge.	Sft	628.20		
b		Steps (Riser & Skirting)				
		Providing & laying 3/8" thick polished approved Verona Marble (as approved by Engineer In-charge) on Stairs Riser and skirting as shown on drawings including preparation and laying of base plaster / concrete (1/2" thick) in 1:4 cement sand mortar, filling/grouting joints in white/coloured cement & matching colour grout as required, mechanical cutting complete as per drawing / specification and instructions of Engineer Incharge.	Sft	455.68		
c		Floor				

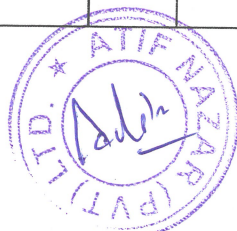




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S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
		Providing & laying 1/2" thick pre polished approved Verona Marble (as approved by Engineer In-charge) size 1' x 2' on floor as shown on drawings including preparation and laying of base plaster / concrete (2-1/2" thick) in 1:4 cement sand mortar, filling/grouting joints in white/coloured cement & matching colour grout as required, mechanical cutting complete as per drawing / specification and instructions of Engineer Incharge.	Sft	720.00		
4		Granite				
a		Steps (Steps and Counter top)				
	M-R	Providing and laying Tread (Single Piece with bull nose) of 3/4 inch (19 mm) thick Granite tiles in any colour & shade upto 8 Sq. ft size fine dressed on the surface without windings in any floor and setting the tiles with 3/8" inch thick dry bond Style) slurry, jointing & washing the tiles with tile grout slurry including curing, rubbing and polishing etc. complete, including the cost of dry bond and filling grout. complete in all respect, as specified	Sft	997.41		
b		Steps (Riser, Skirting and Walls)				
	M-R	Providing and laying Dado, skirting, Riser of 1/2 inch (12 mm) thick Granite tiles in any colour & shade upto 5 Sqft size with bullnose fine dressed on the surface without windings in floor and setting the tiles with 3/8" inch thick dry bond Style slurry, jointing & washing the tiles with tile grout slurry including curing, rubbing and polishing etc. complete, including the cost of dry bond and filling grout. Floor / Landing / Skirting / Threshold/ Coping/ Walls complete in all respect, as specified.	Sft	2,132.01		
c		Floor				
	M-R	Providing and laying floor, of 3/4 inch (19 mm) thick Granite tiles in any colour & shade upto 5 Sq. ft size fine dressed on the surface without windings in any floor and setting the tiles with 3/8" inch thick dry bond Style) slurry, jointing & washing the tiles with tile grout slurry including curing, rubbing and polishing etc. complete, including the cost of dry bond and filling grout. Floor / Landing / Skirting / Threshold/ Coping complete in all respect, as specified	Sft	972.00		
5		Utility Room flooring				
	M-R	Providing and fixing, 32mm thick size 600 x 600 mm 300 mm high , metallic tile with cemented fill complete as per drawing / specification and instructions of Engineer Incharge..	Sft	36.00		





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S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
6		Fairface Plaster				
	M-R	Providing and laying fairface concrete coating (CemTrox or equivalent) to even and smooth plastered vertical surface upto any height or level with one coat of primer/surfacer, two coats of base material and one coat of transparent hardener applied as per approved color and sample complete in all respect and as per manufacturer datasheet and Engineer Incharge.	Sft	27,113.98		
7		S S Handrail				
	M-R	Providing, making and fixing S.S. hand railing in Staircases consisting of 1½" Ø S.S. Vertical Post 2 Nos. at 2½ft interval with fixing arrangement of 16 gauge 4"Ø circular S.S. Plate / cover with Rawal Bolts and horizontal main rail of 2½" Ø S.S. Pipe with design / etching with SS Clamps and including buffing and making joints with finished, welded with high standard all fitting fixtures of S.S.complete as per drawings, specifications, and/or as directed by the Engineer In-charge (Shop drawings shall be provided for the approval of Engineer/Consultant).	Rft	374.27		
8		Specialized Doors				
	M-R	Providing and fixing FDA compliance Specialized fibre reinforcement Door (Double/Single Leaf) with Glazed vision panels, Bio safety air tight doors & G.I frame double action as per standards, manufacturer specifications and as per direction of Engineer Incharge.	Sft	172.00		
9		False Ceiling				
	M-R	Supply and fix metal Panels, galvanized steel or aluminium / stainless steel dimensions 600mm x 1200mm alongwith necessary components for fixing direct or suspended from the soffit complete, incl provision of opening for lights.	Sft	22,463.71		
10		Vinyl Flooring				





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S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
	M-R	Providing and fixing 2.0mm Compact Vinyl with Dry Buffing possibility . The product should have Clean Room certifications and come with Matching Welding rods to weld the floor on all edges to make it seamless. Reinforced with NO WAX NO Polish regime throughout the life. The Vinyl should also be Phthalate Free (Food grade Plasticizers) for low VOC emissions" Anti-Static – Static electrical charge EN 1815 < 2 kV in Roll form. (Roll size 23mx2m) through approved manufacturer as per specification and as per instructions of engineer In charge.	Sft	25,595.74		
Sub Total (Schedule Items)= Rs.						





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AT PAQSJIMS, GAMBAT

BILL OF QUANTITY

MAIN SUMMARY

S.No	ITEMS OF WORKS	COST (Rs.)
	PLUMBING WORKS	
	TOTAL AMOUNT OF SCHEDULE ITEMS	1,631,320.69
	TOTAL AMOUNT OF NON SCHEDULE ITEMS	
	ADD ____ % ON PWD SHEDULE ITEM	
	TOTAL COST RS.	

Amount in words:-





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PLUMBING WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
(i)	SCHEDULE ITEMS: (Schedule of Rates, 2012 PAK P.W.D)					
1	Sub Head code 301-6	Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. (13.6 liters) white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enameled flush bend, 3/4 inch (20mm) dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4..	Each	21	4,804.67	100,898.07
2	Sub Head code 301-1	Providing and fixing best quality squatting type white glazed earthenware W.C Pan, Pakistani (of not less than 18 Inches clear opening as measured between flushing rims) complete with and including the cost of 13.6 litre best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for squatting type with extra bends and length with fittings, C.I. trap 4 inches (100mm) dia and making requisite number of holes in walls, plinth & floor for pipe connection and making good in cement concrete 1:2:4..	Each	9	3,424.92	30,824.24
3	Sub Head code 301-9	Providing and fixing 22 inches x 16 inches (560 x 406 mm) lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into walls 1/2 inches (15 mm) dia. Chrome plated mixer, 1-1/4 inches (32 mm) rubber plug and chrome plated brass chain 1-1/4 inches (32 mm) dia brass waste of approved pattern 1-1/4 inches (32 mm) dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	Each	4	4,628.14	18,512.56
4	Sub Head code 301-25	Providing and fixing approved quality earthen ware glazed vanity basin standard size (White/light colour) and including the cost of 1-1/4" dia brass waste 1-1/4" rubber plug and chrome plated brass chain PVC waste pipe 1-1/4" dia of approved pattern etc. complete.	Each	14	6,611.13	92,555.85





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PLUMBING WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
5	Sub Head code 301-23	Providing and fixing approved quality stainless steel sink 33" x 18" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls ½" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	Each	1	12,406.77	12,406.77
6	Sub Head code 301-17	Providing and fixing 1/2 inch (15 mm) dia plastic connection complete with a 1/2 inch (15 mm) dia brass stop cock two brass nuts and lining jointed to plastic pipe.	Each	136	333.70	45,383.85
7	Sub Head code 301-14	Extra over item No.8 and 9 for providing single hole chromium plated mixer tap 1/2 inch (15 mm) dia (English or approved foreign make)..	Each	53	1,298.55	68,823.15
8	Sub Head code 302-13	Providing & fixing chromium plated Muslim bib-cock with out Muslim Shower of approved quality.	Each	30	720.94	21,628.20
9	S-1044	PVC Muslim shower with one meter flaxible pipe.	Each	30	750.00	22,500.00
10	S-3395	Chromium Plated Brass Bottle Trap with union & pipe, 1-1/2 inches (40mm) dia.	Each	18	1,360.00	24,480.00
11	Sub Head code 302-11	Providing and fixing Royal bath room accessories of set of 7 pieces consist of one cosmetic shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc complete of approved quality as per direction of Engineer in-charge.	Each	6	4,316.62	25,899.72
12	S-1056	Supply & Fixing Royal Soap Dish.	Each	19	346.70	6,587.30
13	Sub Head code 302-2	Providing and fixing 24"x3/4"(610 mm x 20 mm) dia approved quality of chrome plated brass towel rail complete with brackets fixed with 1"(25 mm) long C.P brass screws and rawal plug.	Each	10	968.44	9,684.40
14	Sub Head code 302-3	Providing and fixing approved quality C.P. brass toilet paper holder.	Each	30	854.40	25,632.02





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PLUMBING WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
15	Sub Head code 302-6	Providing and fixing 20 inches x 16 inches (508 mm x 406 mm) Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	Each	18	922.45	16,604.12
16	S-937	uPVC Mutli Floor Trape.	Each	38	774.74	29,439.93
17	Sub Head code 317-12	Fixing floor traps of sizes with gratings including cutting and making the requisite number of holes in walls, plinth and floors and making good in 1:2:4 C.C..	Each	38	294.96	11,208.42
18	Sub Head code 306-21	Providing and fixing un platized polyvinyl chloride pipe (U.P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm ²) 1-1/4 inches (32 mm) dia.				
a)	Sub Head code 306-23	2" dia	P.Rft	825	110.30	90,998.00
b)	Sub Head code 306-24	3" dia	P.Rft	1345	207.10	278,550.32
c)	Sub Head code 306-25	4" dia	P.Rft	1320	328.36	433,431.53
d)	Sub Head code 306-27	6" dia	P.Rft	110	509.08	55,998.32
19	Sub Head code 315-1	Providing manhole type 'A' size 2 feet x 1-1/2 feet or (610 mm x 457 mm) (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches (100 to 305 mm) dia pipes up to 3 feet-11 inches (1.19 m) depth with cast iron cover and frame 16 inches (406 mm) dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches (100 mm) thick RCC 1:2:4 slab, 8 inches (203 mm) thick c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches (150 mm) thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches (13 mm) thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite umber of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame.	Each	11	6,481.67	71,298.34





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PLUMBING WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
20	Sub Head code 315-2	Add for extra depth beyond 2 feet (610 mm) and upto 3 feet-11 inches (1.19 M) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate)..	Inch	22	80.32	1,767.12
21	Sub Head code 315-26	Providing & fixing C.I Cover & Frame 18" dia (460 mm) weight 1 cwt 3 Qtr (88.90 Kg.)	Each	11	8,769.90	96,468.90
22	Sub Head code 305-1	Providing G.I. pipes, specials and clamps etc., including fixing cutting and fitting complete with and including the cost of breaking through walls and roof, making good etc., painting 2 coats after cleaning the pipe etc.; with white zinc paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet (61 M) and cartages within 10 miles (16.09 km.) (ILLM). 1/2 inch (15mm) dia pipe.				
a)	Sub Head code 305-1	15 mm dia.	Rft	320	67.82	21,702.40
b)	Sub Head code 315-2	20 mm dia.	Rft	195	88.28	17,214.60
23	Sub Head 307-16	Providing and fixing 1/2 inches (15 mm) dia ball valve (with PVC Ball) made to B.S.S. 1212				
a)	Sub Head 307-17	15mm dia.	Nos.	4	129.76	519.04
b)	Sub Head 307-18	20mm dia.	Nos.	2	151.76	303.52
TOTAL OF SCHEDULE ITEM						1,631,320.69
(ii)		PART -B				
		NON SCHEDULE ITEM				
		WATER SUPPLY				
1	M.R	Providing, installation, hydrostatic testing, commission, and balancing of PPRC, PN-20, Cold & Hot Water Pipes with all fittings, fixtures and specials like bend, tee, reducing socket, union, nipples etc this piping shall be complete with approved quality hanger & support system which shall be 100% imported with galvanized iron hardware and fully threaded rods, bases and clamps with non aging gaskets, this also includes cutting in wall, slab, provision of sleeves, excavation and back filling in approved manner, complete in all respects as per specifications and drawings and as approved by the Consultant.				





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AT PAQSJIMS, GAMBAT
BILL OF QUANTITY
PLUMBING WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
i	M.R	3/4" (20mm)	Rft	760		
ii	M.R	1" (25mm)	Rft	1100		
iii	M.R	1-1/4" (32mm)	Rft	85		
iv	M.R	1 1/2 (40mm)	Rft	880		
v	M.R	2 (50mm)	Rft	110		
2	M.R	Supply and fixing of Trap for Water Closet P or S Trap.	Each	9		
3	M.R	Ball Valve with Handle				
a)	M.R	S/F Ball Valve with handle 25mm dia for PPR pipe.	Nos.	20		
b)	M.R	S/F Ball Valve with handle 32mm dia for PPR pipe.	Nos.	5		
c)	M.R	S/F Ball Valve with handle 40mm dia for PPR pipe.	Nos.	13		
d)	M.R	S/F Ball Valve with handle 50 dia for PPR pipe.	Nos.	3		
		PLUMBING FIXTURES				
4		Providing and fixing of sink scullery complete all in accordance with the drawing and specifications.	Nos.	34		
		DRAINAGE SPECIALTIES				
5	M.R	Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all				
a)	a)	3"	Nos.	11		
b)	b)	4"	Nos.	10		
		Water Geyser				
5	M.R	Supply and installation of geyser hot water geyser with below mentioned capacity including, 2 nos bass ball valves for piping, accessories, etc., complete all in accordance with the drawing and specifications.				
a)	M.R	35 gallons capacity	Nos	4		
6		(SH.Fire Fighting System)				





ESTABLISHMENT OF POST GRADUATE MEDICAL EDUCATION, INSTRUCTION & RESEARCH CENTER
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BILL OF QUANTITY
PLUMBING WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
(a)	M.R	Providing and fixing Fire Hose Cabinet with rubber hose reel including hydrant valve complete with all accaceries one complete set .	Nos.	6		
(b)	M.R	Providing and fixing Fire Extinguishers filled with carbondioxide 5 kg	Nos.	15		
(c)	M.R	Providing and fixing Check valves dia 3"	Nos.	6		
(d)	M.R	Providing and fixing Gate valves dia 3"	Nos.	4		
(e)	M.R	Providing and fixing Fire landing valve oblique type complete with all respect one complete set .dia 3"	Nos.	2		
(f)	M.R	Providing and fixing Brenching Inlet 3"X 2"	Nos.	1		
(g)	M.R	Supply & Installation Wet Type Fire Hydrant 80MMX63MM Way Pedestal with Control Outlet/Twoway.	Nos.	2		
7		FIRE PIPING NETWORKS				
		SEAMLESS BLACK STEEL PIPE SCH. 40				
8	M.R	Supply & Installation of Seamless black steel schedule 40 pipe conforming to ASTM A-53 along with Pipe Pipe fittings conforming to BS Standard of required diameters as specified along with Piping Support & Painting Materials :				
a)	M.R	Size 3" Dia	Rft	870		
		ISOLATION VALVE				
9	M.R	Supply & Installation of OS & Y Gate Valves alongwith 2 Nos. Flanges, complete with Nut Bolts, Washer (Galvanized) and Rubber Gasket with each valve.				
a)	NSI	Size 3" Dia	Nos.	2		
TOTAL OF NON SCHEDULE ITEM						-





ESTABLISHMENT OF POST GRADUATE MEDICAL EDUCATION,
INSTRUCTION & RESEARCH CENTER AT PAQSJIMS, GAMBAT

BILL OF QUANTITIES

SUMMARY ELECTRICAL WORKS

S.No	ITEMS OF WORKS	COST (Rs.)
B	ELECTRICAL WORKS	
	TOTAL AMOUNT OF SCHEDULE ITEMS	5,269,827.01
	TOTAL AMOUNT OF NON SCHEDULE ITEMS	
	ADD ____ % ON PWD SHEDULE ITEM	
	B = TOTAL AMOUNT ELECTRICAL WORKS	

Amount in words:-



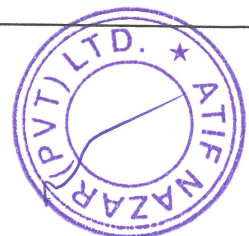


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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
CHAPTER-2, INTERNAL ELECTRIFICATION						
2-15 Point Wiring in recessed PVC conduit						
1	02-15-01	Wiring for light, fan or call bell point with 1.5mm single core, PVC insulated wire copper conductor wire in 20mm (3/4") dia PVC conduit recessed in the wall or column, roof etc, including 1mm. Single core PVC insulated wire as ECC as required.	Point	1099	700.46	769,805.54
2	02-15-03	Wiring for two way light point with 1.5mm single core, PVC insulated wire copper conductor wire in 20mm (3/4") dia PVC conduit recessed in the wall or column roof.	Point	4	801.17	3,204.68
3	02-9-04	Extension/Additional wiring for light, fan, call bell or light plug point, controlled with same switch with (3/.029") PVC insulated wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column or roof including 1mm ² single core, PVC insulated wire as ECC as required.	P/Point	241	222.90	53,718.90
Total Of Point Wiring in recessed PVC conduit Shedule RS :						826,729.12
2-32 Single PVC Insulated Wire and PVC, PVC Cable in Existing Conduit / Duct.						
4	02-32-02	Supply & drawing of 2.5 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	Rft	300	8.90	2,670.00
5	02-32-03	Supply & drawing of 4 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	Rft	350	11.29	3,951.50
6	02-32-04	Supply & drawing of 6 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	Rft	165	14.29	2,357.85
7	02-32-06	Supply & drawing of 16 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	Rft	175	32.96	5,768.00
8	02-32-07	Supply & drawing of 25 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	Rft	118	47.95	5,658.10
Total Single PVC Insulated Wire and PVC, PVC Cable in Existing Conduit / Duct.						20,405.45
2-28 2 WIRE WITH ECC WIRE IN PVC CONDUIT ON SURFACE						



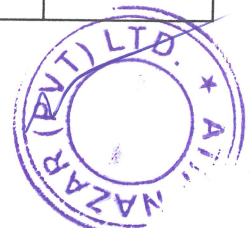


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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
11	02-28-01	Wiring for sub-main with 2x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire including 1 mm ² PVC insulated wire single core wire as ECC in 20 mm (3/4") dia PVC conduit fitted on surface as required.	Rft	5400	32.24	174,096.00
		Total Of 2 WIRE WITH ECC WIRE IN PVC CONDUIT ON SURFACE Shedule RS :				174,096.00
2-34 3 wire with ECC wire in existing conduit/Cable duct						
9	02-34-02	Wiring for sub-main with 3x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire including 1.5 mm ² PVC insulated wire single core wire as ECC in all kinds of existing or given conduit/cable duct as required.	Rft	13700	26.03	356,611.00
10	02-34-03	Wiring for sub-main with 3x 4mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire including 1.5 mm ² PVC insulated wire single core wire as ECC in all kinds of existing or given conduit/cable duct as required.	Rft	765	37.29	28,526.85
		Total of 3 wire with ECC wire in existing conduit/Cable duct				385,137.85
2-35 4 wire with ECC wire in existing conduit/ PVC Duct.						
11	2-35-04	Wiring for sub-main with 4x 4mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire including 1.5 mm ² PVC insulated wire single core wire as ECC in all kinds of existing or given conduit/cable duct as required.	Rft	200	45.77	9,154.00
		Total Of 4 wire with ECC wire in existing conduit Shedule RS :				9,154.00
2-67 PVC CONDUIT & DUCT						
12	2-67-06	Supply & fixing 20mm (3/4") dia PVC conduit with all especial such as bends, sockets, Junction etc recessed in the wall or column as required.	Rft	14000	23.15	324,100.00
13	2-67-07	Supply & fixing 25mm (1") dia PVC conduit with all especial such as bends, sockets, Junction etc recessed in the wall or column as required	Rft	14923	26.71	398,593.33
14	2-67-10	Supply & fixing 50mm (2") dia PVC conduit with all especial such as bends, sockets, Junction etc recessed in the wall or column as required	Rft	965	65.14	62,860.10





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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
		Total Of PVC CONDUIT & DUCT Shedule RS :				785,553.43
2-74 CLIPSAL"ACCESSORIES ON RECESSED METAL BOARD						
15	2-74-01	Providing fixing 10 Amps polycarbonate flame retardent S.P switch with fancy required gang plate fixed on die fabricated, power coated metal board recessed in wall or column including connection as required [E31-36/1/2A Clipsal make]	Each	1099	138.22	151,903.78
16	2-74-02	Providing fixing 10 Amps polycarbonate flame retardent Two way switch with fancy required gang plate fixed on die fabricated, power coated metal board recessed in wall or column including connection as required [E31/2/3A Clipsal make]	Each	4	290.84	1,163.36
17	71-09	Providing fixing flush type, 6/10 Amps 3-Pin socket and double switches combine unit (Universal) fixed on Plastic or Fiber top covered sheet on (14 SWG) metal board with earth terminal recessed in wall and column including, connection as required.	Each.	616	251.89	155,164.24
18	2-74-06	Providing fixing 15 Amps polycarbonate flame retardent 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, power coated metal board recessed in wall or column including connection as required [Clipsal make]	Each	19	514.58	9,777.02
19	2-74-10	Providing fixing Polycarbonate flame retardent Telephone socket 4 contract single 2 line with fancy gang plate fixed on die fabricated, power coated metal board recessed in wall or column including connection as required [E31RJ64SM Clipsal make]	Each	46	565.84	26,028.64
20	2-74-12	Providing fixing Polycarbonate flame retardant, T.V Socket with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Clipsal make)	Each	24	459.14	11,019.36
21	2-74-11	Providing fixing polycarbonate flame retardent 400 watts fan dimmer with plate fixed on die fabricated, power coated metal board recessed in the wall or column including connection as required [E32V400F Clipsal make]	Each	226	943.58	213,249.08
		Total Of CLIPSAL"ACCESSORIES Shedule RS :				568,305.48





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ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
2-88 FITTING & FIXTURE - PHILIPS INDOOR LIGHT FITTING						
2-92 PHILIPS ACCENT & DECORATIVE LIGHTING						
2-104 MISCELLANEOUS FITTING AND FIXTURE						
2-106 CEILING FANS						
22	2-106-03	Providing & installing 140 cm (56") sweep ceiling fan with blades canopy, standard length of down rod including connection with 14.0076" flexible wire complete as required (without regulator) Millat/Pak/Asia/Younas/Climax/Royal.	Each	226	2,088.00	471,888.00
Total Of Ceiling Fan Shedule RS :						471,888.00
2-111 DOUBLE ACTION PLASTIC BODY EXHAUST FANS						
23	2-111-01	Providing & installing 20 cm (8") sweep, double Action, Plactic body Exhaust fan complete with blades, motor and pulling cord switch etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat / Pak / Asia / Younus / Climax / Royal.	Each	25	1,330.00	33,250.00
24	2-111-02	Providing & installing 25 cm (10") sweep, double Action, Plactic body Exhaust fan complete with blades, motor and pulling cord switch etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat / Pak / Asia / Younus / Climax / Royal.	Each	1	1,394.00	1,394.00
Total Of Exhaust Fan Shedule RS :						34,644.00
2-64 4 CORE CABLE WITH ECC WIRE IN EXISTING PIPE OR CABLE DUCT						
25	2-64-03	Providing & laying, 4 core, 4 mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable I/c 1.5 mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit/cable duct as required.	Meter	91	167.39	15,232.49
26	2-64-04	Providing & laying, 4 core, 6 mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable I/c 2.5 mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit/cable duct as required.	Meter	106	243.51	25,812.06



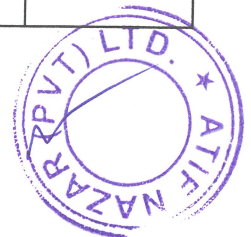


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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
27	2-64-05	Providing & laying, 4 core, 10 mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable i/c 2.5 mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit/ duct as required.	Meter	50	353.88	17,694.00
		Total Of Cable Shedule RS :				58,738.55
	3-04	4 CORE LT UN ARMoured CABLE IN EXISTING CONDUIT OR CABLE DUCT				
28	3-04-02	Providing & laying 4 core, 25 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required.	P/Meter	53	586.67	31,093.51
29	3-04-03	Providing & laying 4 core, 35 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required.	P/Meter	36	748.92	26,961.12
		Total Of Cable Shedule RS :				58,054.63
		3-09 EARTHING AND LIGHTING ARRESTOR.				
30	3-9-03	Providing and fixing earthing set with 2'x2'x1/4" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level with salt and charcoal, or Earthing chemical Powder etc, making the pit 12 feet deep by excavation of all tpe of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2" G.I conduit complete in all respect as required.	Job	4	11,658.00	46,632.00
		Total Of Earhing Shedule RS :				46,632.00
31		L.V SWITCH GEARS				
a		MDB-E				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangment as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	15	2,420.00	36,300.00

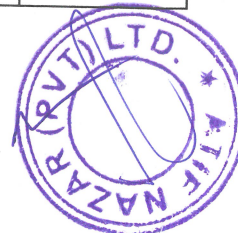




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**BILL OF QUANTITIES
ELECTRICAL WORK**

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
ii	2-81-04	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	17	4,576.00	77,792.00
iii	2-81-05	Providing & fixing 75 to100 Amps,(Low Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	1	4,108.50	4,108.50
iv	2-81-23	Providing & fixing 630 to 1200 Amps,(Adjustable - High Breaking Capacity) 4 Pole circuit breaker fixed on existing board , I/c inter-connection as required.	Each	1	159,313.00	159,313.00
b		DISTRIBUTION BOARD GROUND FLOOR LIGHT DBG-L1 (L.W)				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	1	4,576.00	4,576.00
iii	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	34	418.00	14,212.00
c		DISTRIBUTION BOARD GROUND FLOOR LIGHT DBG-L2 (R.W)				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	1	4,576.00	4,576.00





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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
!!!	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , l/c inter-connection as required.	Each	30	418.00	12,540.00
d		DISTRIBUTION BOARD GROUND FLOOR POWER DBG-P1 (L.W)				
!	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
!!	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , l/c inter-connection as required.	Each	2	4,576.00	9,152.00
!!!	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , l/c inter-connection as required.	Each	16	418.00	6,688.00
e		DISTRIBUTION BOARD GROUND FLOOR POWER DBG-P2 (R.W)				
!	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
!!	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , l/c inter-connection as required.	Each	2	4,576.00	9,152.00
!!!	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , l/c inter-connection as required.	Each	18	418.00	7,524.00
f		DISTRIBUTION BOARD GROUND FLOOR POWER DBG-LAB-1 (L.W)				



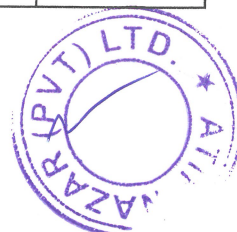


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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangment as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	6	2,420.00	14,520.00
ii	2-81-05	Providing & fixing 75 to 100 Amps,(Low Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	6	4,108.50	24,651.00
iii	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	27	418.00	11,286.00
g		DISTRIBUTION BOARD GROUND FLOOR POWER DBG-LAB-2 (R.W)				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangment as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	6	2,420.00	14,520.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	3	4,576.00	13,728.00
iii	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	30	418.00	12,540.00
h		DISTRIBUTION BOARD FIRST FLOOR LIGHT DBF-L1 (L.W)				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangment as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	1	4,576.00	4,576.00





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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
iv	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	28	418.00	11,704.00
i		DISTRIBUTION BOARD FIRST FLOOR LIGHT DBF-L2 (R.W)				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	1	4,576.00	4,576.00
iii	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	30	418.00	12,540.00
j		DISTRIBUTION BOARD FIRST FLOOR POWER DBF-P1 (L.W)				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	2	4,576.00	9,152.00
iii	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	10	418.00	4,180.00
k		DISTRIBUTION BOARD FIRST FLOOR POWER DBF-P12(R.W)				



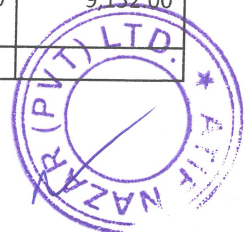


**ESTABLISHMENT OF POST GRADUATE MEDICAL EDUCATION,
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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangment as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	2	4,576.00	9,152.00
iii	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	10	418.00	4,180.00
I		DISTRIBUTION BOARD FIRST FLOOR DBF-LAB-1 (L.W)				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangment as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	2	4,576.00	9,152.00
iii	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	23	418.00	9,614.00
m		DISTRIBUTION BOARD FIRST FLOOR DBF-LAB-2 (R.W)				
i	2-83-01	Providing & fixing Cubical type metal sheet Distribution board with locking arrangment as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	P/Sft	4	2,420.00	9,680.00
ii	2-81-06	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , I/c inter-connection as required.	Each	2	4,576.00	9,152.00





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ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
iii	2-81-01	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	Each	31	418.00	12,958.00
		Total of L.V Switch Gears				634,914.50

7-1 ADDRESSABLE FIRE ALARM SYSTEM

32	7'-1-01	Providing and fixing, testing and commissioning of 02 loop analogue fire control panel surface /recessed mounting type with full switching programming capabilities ,system suitable operation of 230 volts 50hz with full functionality as per specification of manufacturer allied components. with T&P etc and as per specific drawing imported approved make /model or as approved by the engineer in-charge as required.	JOB	1	211,608.00	211,608.00
33	7'-1-03	Providing and fixing, testing and commissioning of analogue addressable ionization smoke detector with addressable base with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required.	JOB	140	5,972.00	836,080.00
34	7'-1-04	Providing and fixing, testing and commissioning of analogue addressable ionization heat detector with addressable base with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required.	JOB	3	5,808.00	17,424.00



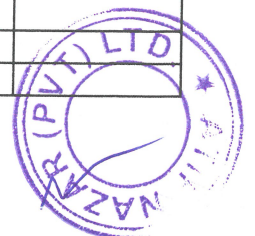


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BILL OF QUANTITIES

ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
35	7'-1-05	Providing and fixing, testing and commissioning of addressable manual brake glass unit with addressable base with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required.	JOB	14	5,682.00	79,548.00
36	7'-1-06	Providing and fixing, testing and commissioning of addressable electronic sounder unit with addressable base with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc approved make/model or as approved by the engineer in-charge as required.	JOB	4	8,755.00	35,020.00
		Total Of Addressable Fire Alarm System				1,179,680.00
37	5-12	Centrifugal Pumping Set				
a	5-12-02	Providing & fixing centrifugal pumping set complete with AC 2 HP 2900 RPM 220V 50 cycle motor attached with centrifugal pump having suction & discharge 1 ½ " x 1 ½" coupled on a common base plate as approved .	Each	2	7,947.00	15,894.00
		Total Of Centrifugal Pumping Set Shedule RS :				15,894.00
		TOTAL OF SCHEDULE ITEM				5,269,827.01
38		INDUSTRIAL SOCKET				
a	N.S.I	Socket outlet industrial 380/400 volts, 3 phase, neutral and earth, water protected 32 Amps, S/F.	Nos.	13		
		FLOOR BOX				
39	N.S.I	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal complete in all respects as required.				
a	N.S.I	Floor Box 300 X 300 X 50 mm with 4 SSO Plate	Nos.	74		



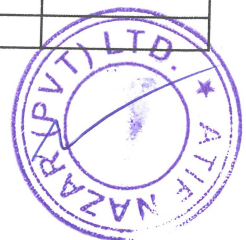


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ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
		Total Of INDUSTRIAL SOCKET Non Shedule RS :				
40		LIGHT FIXTURES				
		Supply & Installation of following light fixtures complete with lamps, starters, holders, electronic ballast etc including hangers, supports & all mounting / fixing accessories, complete in all respect & as per approval of engineer incharge.				
a	N.S.I	12 Watt LED Ceiling light	Nos.	85		
b	N.S.I	18 Watt LED Ceiling light	Nos.	878		
c	N.S.I	Mirror light	Nos.	18		
d	N.S.I	LED Bulk head Light	Nos.	8		
e	N.S.I	Spot light	Nos.	2		
f	N.S.I	Wall Bracket Light 18 watts	Nos.	2		
		Total Of LIGHT FIXTURES Non Shedule RS :				
41		COMMUNICATION				
a	N.S.I	Supply, pulling & fluke testing of Data or Voice cables in PVC Pipe, including labeling at both ends as per drawings.				
b	N.S.I	Supply & Installation of Cat-5E UTP Cable	Mtr	1305		
c	N.S.I	Supply & Installation of 4 line PABX 72 extension.	Nos.	1		
d	N.S.I	Supply, installation and connecting of telephone Junction box 1.5 mm MS sheet steal fabricated, 120 micron powder coated, surface mounted or concealed in wall with locking arrangements and comprising with 2x16 pairs tag blocks.	Nos.	4		
		Total Of COMMUNICATION Non Shedule RS :				
42		Cable TV System.				





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BILL OF QUANTITIES					
ELECTRICAL WORK					
S.No	Sub Head	Description	Units	Quantity	Rate (Rs) Amount (Rs)
a	N.S.I	Supply, pulling & testing of following Cable TV wiring in 20mm dia PVC Pipe including labelling at both ends. Co-axial cable double shielded RG-6 B/U	Mtr	735	
b	N.S.I	Supply & Installation of Wiring with 2 X 1.5 sqmm fire resistant cables for Conventional Fire Alarm system in 20mm dia PVC conduit clipped to be surface or concealed in building fabric, including labelling at both ends, complete as per drawing.	Mtr	850	
FIRE RESISTANT CABLE					
Total Of Cable TV & Fire Resistant Cable Non Shedule RS :					
43	NETWORKING				
i	N.S.I	Supply & Installation of Cat-6 UTP Cable	Meters	5890	
ii	N.S.I	Supply & Installation of 1No RJ-45, CAT-6 I/O (Networking)	Nos.	113	
iii	N.S.I	Supply, Installation & termination of 24 port LAN Switch complete with all accessories.	Nos.	9	
iv	N.S.I	Supply, Installation & termination of Wifi Router 300 mbps complete with all accessories.	Nos.	11	
Total Of NETWORKING Non Shedule RS :					
44	PUBLIC ADDRESSING SYSTEM				
i	N.S.I	Supply of Public Address Loud Speaker 30 W	Nos	50	
ii	N.S.I	Supply, Installation of 400 W Mixer Power Amplifier with Zone Selector, Call	Nos	1	
iii	N.S.I	Station and Optional Audio Sources	Nos	2	
iv	N.S.I	Supply, Installation of Desktop Microphone	Nos	2	
		Testing & Commissioning of the above system.	Job.	1	
Total Of PUBLIC ADDRESSING SYSTEM Non Shedule RS :					
45	Multimedia SYSTEM				
i	N.S.I	Supply & installation of WXGA LCD Multimedia Projector, 4000 Lumens, 20,000:1 contrast ratio, 7,000 lamp hrs.	Nos.	1	

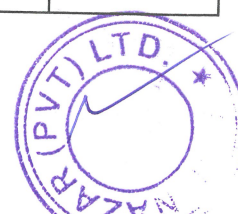


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ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
ii	N.S.I	Supply & installation of Multimedia Projection Screen Motorized with remote control.	Nos.	1		
iii	N.S.I	Programming, testing and commissioning of complete system upto the entire satisfaction of client/consultant.	Job	1		
Total Of Multimedia SYSTEM Non Shedule RS :						
46		Security Camera				
i	N.S.I	Supply, Installation of 4 MP IR Bullet Camera	Nos	66		
ii	N.S.I	Supply, Installation Cat-6 UTP Cable (NETWORKING)	Meters	1300		
iii	N.S.I	Supply, Installation of 32 Channel Network Video Recorder H.265+/H.265/H.264/H.264+, Connectable to the third-party network cameras, Up to 32 IP cameras can be connected, Recording @ 8 MP resolution, 1 SATA interface connectable for recording and backup.	No	1		
iv	N.S.I	Supply, Installation of Seagate 8TB Sata Hard disk drive	Nos	2		
v	N.S.I	VMS Pro Software • Client/Server architecture, clients can add multiple servers • User-friendly UI design • Customizable user access levels • Support ONVIF • Support live view, playback and E-Map functions • Support D3D display mode • Support backup recording files • Support dual stream • Support 1/2/4/6/8/9/13/16/20/24/30/36/49/64 channels playing synchronously	No	1		
vi	N.S.I	Supply, Installation 24 Port D-Link POE switches	Nos	4		
vii	N.S.I	Testing & Commissioning	Job.	1		
viii	N.S.I	Providing, installing, & commissioning of LCD 49" Make: SAMSUNG . complete in all respect or as approved by the Engineer Incharge as required.	Nos	4		
Total Of Security Camera Non Shedule RS :						





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ELECTRICAL WORK

S.No	Sub Head Code	Description	Units	Quantity	Rate (Rs)	Amount (Rs)
47		UPS / INVERTER				
i	N.S.I	Supply & installation of following UPS and Inverter.				
ii	N.S.I	UPS SMART-UPS (5KVA) (APC-USA) with dry battery	Nos.	8		
					TOTAL	
TOTAL OF NON SHEDULE ITEM :						
TOTAL OF SHEDULE ITEM :						5,269,827.01

