

ESTIMATE**NAME OF WORK: CONSTRUCTION OF BOOSTER TERTIARY PUMP HOUSE,BUS SHED & CIVIL WORKS FOR BURRIED PIPING IN ACADEMIC AREA**

SL NO	ITEM & DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means in foundation,trenchs or drains (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including dressing of sides and ramming of bottoms including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50Mtr. (All kinds of Soil)	Cum	3401.00	116.41	395910.41
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20Cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50M and lift upto 1.5M	Cum	2580.00	50.77	130986.6
3	Supplying and filling in plinth/trench with river sand under floors including watering ramming consolidating and dressing complete.	Cum	757.00	273.14	206766.98
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:4:8 (1 Cement : 4 sand:8 Coarse Aggregate 40mm Down)	Cum	42.00	3077.31	129247.02
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 20mm Down) upto plinth level	Cum	5.00	4065.29	20326.45
6	Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:1½:3 (1 Cement : 1½ sand:3 Coarse Aggregate 20mm Down) upto plinth level	Cum	18.00	4622.35	83202.30

7	Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 20mm Down) upto plinth level	Cum	60.00	4181.09	250865.4
8	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3sand:6 Coarse aggregate) over 75mm thick bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth above plinth level	Sqm	112.50	267.13	30052.125
9	Providing and laying Reinforced cement concrete in retaining walls return walls (any thickness) including attached pilasters Columns Piers Abutment Pillars Post Buttress string or lacing courses Parapets Coping, slab beam, staircase, bed block anchor blocks plain window sills fillets etc upto floor Five Level excluding the cost of centering and shuttering and finishing				
	CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 Coarse Aggregate 20mm Down)	Cum	49.50	5019.81	248480.595
10	Centering and shuttering including struting propping etc and removal of forms for:				
	Foundations footing bases of column etc for mass concrete	Sq.M	92.50	110.23	10196.28
11	Centering and shuttering including struting propping etc and removal of forms for:				
	walls (Any thickness) including attached pillaster buttresses plinth and string	Sqm	250.00	155.62	38905.00
12	Centering and shuttering including struting propping etc and removal of forms for:				
	Lintels beams plinth beams girders bressumers and cantilevers.	Sqm	60.00	145.75	8745.00
12	Centering and shuttering including struting propping etc and removal of forms for:				
	Columns Pillars piers Abutment Posts and strutts	Sq.M	124.00	213.01	26413.24

13	centering and shuttering including strutting propping etc and removal of form work for:				
	suspended floors, roofs, landing balconies and access platform with water proof ply of 12mm thick	Sq.M	500.00	325.89	162945
14	Providing and placing reinforcement for R.C.C. work including straightening cutting bending placing in position and binding all complete.				
	Thermo Mechanically Treated Bars	Kg	13820.00	64.01	884618.20
15	Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:6 (1cement: 6 Sand)	Cum	37.50	2963.50	111131.25
16	Brick work with F.P.S bricks of class designation 75 in Super structure above plinth level upto V floor level in all shapes and size in Cement mortar 1:6 (1cement: 6 sand)	Cum	50.00	3318.10	165905.00
17	Supplying and fixing of rolling shutters of approved make and made of required M.S laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5CM long wire spring s grade No-2 and M.S top cover of required thickness for rolling shutters including primer coat.				
	80x1.25 M.S lathe with 1.25mm thick top cover	Sqm	10.50	3338.43	35053.52
18	Providing and fixing of Ball bearing for rolling shutter	Each	2.00	205.48	410.96
19	Steel work in built up tubular trusses including cutting , hoisting fixing in position and applying a priming coat of approved steel primer welded and bolted including special shaped washers etc complete				
	Hot finished Seam less type tubes	Kg	2600.00	98.46	255996.00
20	White washing with KATNI lime to give an even shade				
	New work (Three or more coat)	Sqm	250.00	10.01	2502.50

21	Providing and fixing ISI marked steel glazed doors, windows and ventilators of standard rolled steel sections, (as per IS 1038 with Z or L section)joints mitred and welsed with 15x3 mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10 CM of 1:3:6 (1 cement: 3 Sand: 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screw or rawl plugs and screws or with fixing clipsor with bolts and nuts as required, including providing and fixing of 4mm glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer, excluding the cost of metal beading and including other fitting (stay ,handle),necessary hinges or Pivots as required including primer coat.	Sq.M	20.00	1927.21	38544.20
22	cement concrete flooring 1:2:4 (1 cement : 2 sand: 4 coarse aggregate) finished with a floating coat of neat cement including cement slurry , but excluding the cost of nosing of steps etc. complete				
	40mm thick with 20mmm nominal size stone aggregate	Sqm	209.00	237.98	49737.82
23	cement plaster skirting (Upto 30CM height) with cement mortar 1:3(1 cement : 3 Sand) finished with floating coat of neat cement.				
	18mm thick	Sqm	100.00	189.16	18916.00

24	Providing & fixing of precoated galvanised profile sheet (size,shape and pitch of corrugation as 5% total thickness (TCT) Zinc coating 120gms as per IS277 in approved by engineer in charge 0.05mm 240 Mpa mm steel grade and polyster top coat 15-18 micron to avoid scractches white transportation and should be supplied in single length upto 12.0 mtr or as should be supplied in single length upto 12.0 mtr as desirable by engineer in charge.The sheet shall be fixed using self drilling/self tapping screw of size (5.5x5.5mm)with EPDM seal or with polymer coated J or L hooks,Bolts & Nuts 8mm dia with bitumen and G.I limpet washer filled with white lead complete upto any pitch in Horizontal/Vertical or curved surface excluding the cost of purlins rafters and trusses and including cutting to size and shape whenever required.	Sqm	60.00	875.00	52500.00
25	Painting with aluminium enamel paint of approved brand and manufacture to give an even shade: One or more coat over new Work	Sqm	80.00	31.89	2551.20
26	Conveyance of Materials such as stone metal refuse,garbage, rubbish etc including labour for loading and unloading. Beyond initial lead. truck load Upto 1km	Cum	61.00	41.00	2501.00
27	Extra for Providing and fixing wind tie of 40x6 mm flat iron Section	RM	70.00	94.49	6614.30
28	Providing & fixing precoated galvanised steel sheet roofing accessories 0.5 +/- 5% total coated thickness (TCT),zinc coating 120gms as per IS 277 in 240mpa steel grade,5-7 micrones epoxy primer on both side of the sheet and polyster top coat 15-18 micrones using self drilling/self tapping screws with polymer coated J or L hooks,bolts and nuts or G.I seam bolts & nuts,G.I pain & bitumen washers complete.				

	Ridges(600 mm overall all width)	RM	11.00	635.00	6985.00
29	15mm cement plaster of mix 1:6 (1 cement: 6 Sand)over rough side of half brickwork	Sqm	350.00	84.69	29641.50
30	20mm cement plaster of mix 1:6 (1 cement: 6 Sand)	Sqm	212.50	102.34	21747.25
31	Finishing wall with acrylic smooth exterior paint of required shade:				
	New work (two or more coat applied @1.67kg/10 Sq.M) over and including base coats of water proofing cement paint applied @ 2.2 Kg/10 Sq.M	Sqm	262.50	64.09	16823.63
32	Wall painting with plastic emulsion paint of approved brand manufacture to give an even shade				
	One or more coat over old Work	Sqm	108.00	39.35	4249.80
33	Distempering with 1st quality acrylic distemper (readymade) of approved manufacture and of required shade and colour complete, as per manufacturer's specification.				
	New Work(Two or more coats)	Sqm	20.00	19.25	385.00
34	Supplying and fixing and fittins of PVC pipes of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.				
	110mm dia Pipes	RM	112.50	302.61	34043.63
35	Supplying and fixing and fittins of PVC door bend of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.				
	110mm dia Pipes	Each	12.00	222.66	2671.92
36	Providing and laying screed concrete on the top of the roof in 1:2:4 (1 cement :2 sand : 4 stone chips 10mm down gauge) with water proofing admixture Conforming to IS:2645, and crack resistance fibre like RECRON 3S or equivalent with slope of 1 in 100 and necessary hollering as per direction of Engineer- in-charge. (minimum thickness of 75mm)	Sqm	187.50	315.88	59227.50

37	Making khurras 45x45 cm with average minimum thickness of 5cm cement concrete 1:2:4 (1 cement:2 coarse sand: 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1mx1mx400 micron,finished with 12mm cement rounding the edge sand making and finishing the outlet complete.	Each	8.00	166.32	1330.56
38	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				
	Two or more coats on new work	Sqm	60.00	48.96	2937.60
	DISMANTLING				
39	Demolishing cement concrete manually/ by mechanical means including disposal of materials with in 50mtr lead as per direction of Engineer inCharge.				
	Cement concrete 1:4:8 or leanear Mix	Cum	59.00	249.75	14735.25
40	Demolishing brickwork manually/ by mechanical means including stacking of servicable materials and disposal of unservicable materials with in 50mtr lead as per direction of Engineer in Charge	Cum	54.00	342.07	18471.78
41	Extra for dismantling trusses rafters purlins etc of steel work for every additional height of one mtr or part there of beyond 5 mtrs				
	Of cross sectional area 40 Square CM and above	Kg	865.00	0.14	121.10
42	Dismantling roofing including ridges hips valleys and gutters etc and stacking the materials within 50mtr leadof				
	G.S.Sheets	Sqm	76.00	30.35	2306.60
43	Making hole manually/by mechanical means for A.C ductingas per requirement of drawing in academic & other buildings including making finish with 1:6 plaster and disposal of material with in 50m lead as per direction of engineer in charge.	Cum	15.00	426.76	6401.40
				TOTAL=	3592103.85
				SAY Rs.	3592110.00