

PROCEEDINGS OF THE SUPERINTENDING ENGINEER (GENERAL) i/c
GROUND WATER DEPARTMENT, JALAVIJNANA BHAVAN,
AMBALAMUKKU, THIRUVANANTHAPURAM
(PRESENT: Smt. Rini Rani.S)

Sub: Ground Water Department – Thrissur - Implementation of Mini Water Supply Scheme at Mangad Centre, Erumapetty Grama Panchayath in Thrissur District under Groundwater based drinking water supply scheme – Technical sanction accorded - orders issued.

ORDER NO:- T(1) / 2447/2022/DGW

Dated: 15.07.2022

Read:- 1. Letter No. DGT/803/2022, dated 12-04-2022 from District Officer, Ground Water Department, Thrissur.
2. Order No. T(1) 2447/2022/DGW dated: 07/07/2022 of Director, Ground Water Department, Thiruvananthapuram.

ORDER

As per the letter read 1st, District Officer, Ground Water Department, Thrissur has forwarded a proposal with detailed estimate for an amount of Rs. 25,00,000/- for the implementation of mini water supply scheme at Mangad Centre, Erumapetty Grama Panchayath in Thrissur District under Groundwater based drinking water supply scheme for the year 2022-23.

The proposal for the implementation of Mini Water Supply Scheme submitted by the District Officer has been verified and the amount is limited to Rs. 24,94,000/- (Rupees Twenty four lakhs and ninety four thousand only).

As per the order read as 2nd paper Administrative Sanction for an amount of Rs. 24,94,000/- (Rupees Twenty four lakhs and ninety four thousand only) has been accorded by the Director of Ground Water Department for the above scheme.

After examining the matter in detail, technical sanction is hereby accorded to the District Officer, Ground Water Department, Thrissur for an amount of Rs. 24,94,000/- (Rupees Twenty four lakhs and ninety four thousand only) for the implementation of

mini water supply scheme at Mangad Centre, Erumapetty Grama Panchayath in Thrissur District under Groundwater based drinking water supply scheme.

The District Officer, Ground Water Department, Thrissur should ensure that the work is carried out as per Government rules and that the scheme satisfies all the norms and conditions of Ground Water Based Drinking Water Supply Scheme. The scheme after completion should be handed over to the beneficiary committee. The beneficiary committee should run and carry out further maintenance of the scheme and meet all expenditure for the purpose. The work should be supervised by the technical staff of the department. District Officer should also make sure that the payment is made only as per the actual quantity and measurement of each item.

The expenditure in this regard can be met from the budget provision of Rs. 400 lakhs under the Head of account "4702-00-102-94 scheme for Ground Water Based Drinking Water Scheme " for the financial year 2022-2023. The date of completion of the scheme is to be intimated before the end of the financial year 2022-23.


Superintending Engineer (General) i/c

Encl: Verified Estimate

To

✓ The District Officer, Ground Water Department, Thrissur

Copy to : T(1) seat/SF

DETAILED ESTIMATE FOR MANGAD CENTRE DWSS W - 16, ERUMAPPETTY GP

Sl. No.	Particulars	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	Supply of ISI Marked three phase 5 HP Submersible pumpset (water cooled) suitable for 150mm Dia Bore Well which delivers 5000 LPH at a Total Head of 120 M excluding pannel board. <i>2687m</i>	1	No	32810.00	32810.00
2	Electrification charge for single phase including wiring charges complete.	1	No	27887.08	27887.08
3	Supply of submersible cable 4mm ²	70	m	145.00	10150.00
4	Supply 50 MM UPVC (good quality) pipe inclusive of cost, conveyance etc;	60	m	390.00	23400.00
5	Charge for erecting Submersible pump set of above capacity up to a depth of 70 M	1	m	9453.33	9453.33
6	Supplying of Nylon rope for pump erection 16MM thick good quality.	63	m	47.00	2961.00
7	Supplying and providing air line with 25mm (10Kg/cm2) pipe	60	m	194.02	11641.20
8	Supply and fitting of 40mm GI Bend, Union, or NRV, or Ball Valve etc. <i>Crup</i>	1	No	2398.61	2398.61
9	Cost of SS adapter for connecting UPVC pipe (40mm)	2	No	800.00	1600.00
10	Electric connection charges including contribution to KSEB if any (as per actuals)	1	LS	15000.00	15000.00
11	Construction of pump house of size 1.2x0.7x 1.9m with Solid concrete block wall, RCC Roof slab etc. including plastering flooring etc. complete. (As per order No.T(3) 6356/2019 DGW dtd 20-11-2019 (Payment as per measurements) <i>(As per actual measurements)</i>	1	No	29000.00	29000.00
12	Construction of Water tank platform 2.0 x 2.0 x4m with RCC slab, Solid concrete block walls etc including plastering flooring etc. complete. (Payment as per measurements) <i>(As per actual measurements)</i>	1	No.	190000.00	190000.00
13	Supplying and placing of PVC Tank ISI marked inclusive of cost, conveyance etc;	5000	L	10.37	51850.00
14	Supplying and providing wash out inclusive of cost, conveyance etc;	1	No.	400.00	400.00
15	Supplying and providing 75 MM Tank connector	1	No.	360.00	360.00
16	Supplying and providing 50 MM Tank connector	1	No.	210.00	210.00

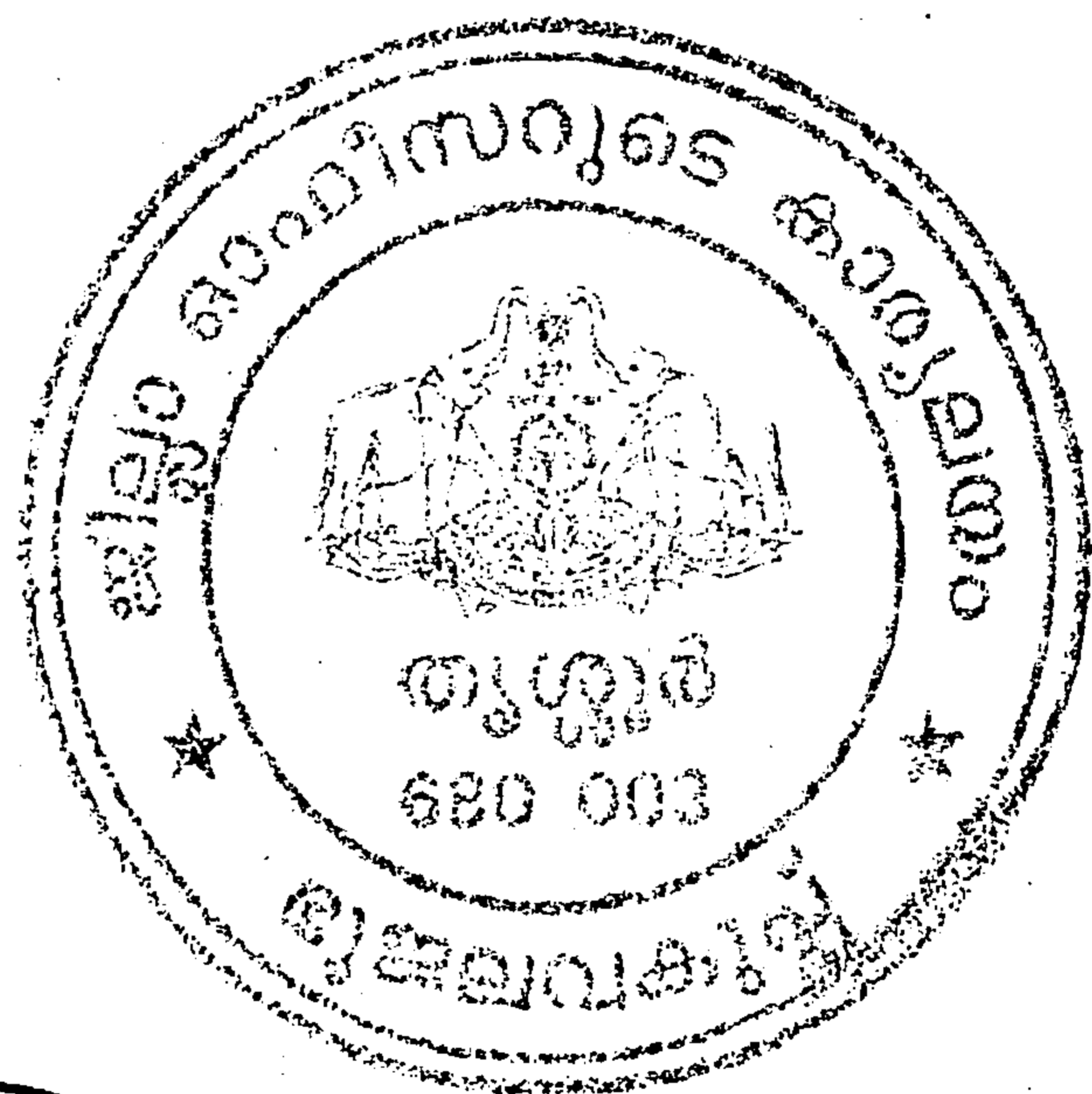
17	Supply, laying and jointing 50 mm (10kg/cm ²) ISI Marked PVC Pipe for pumping line inclusive of all cost of specials and conveyance	250	m	272.13	68032.50
18	Supplying and providing 40mm G I B Class Pipe for pumping line inclusive of all cost of specials and conveyance	50	m	568.72	28436.00
19	Supply, laying and jointing 65mm G I B Class Pipe for Pumping line (cover) inclusive of all cost of specials and conveyance	30	m	842.81	25284.30
	Supply, laying and jointing 75 mm ISI Marked PVC Pipe (6kg/cm ²) for distribution with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction	150	m	324.22	48633.00
20	Supply, laying and jointing 63 mm ISI Marked PVC Pipe (6kg/cm ²) for distribution with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction	1600	m	309.53	495248.00
21	Supply, laying and jointing 50 mm ISI Marked PVC Pipe (6kg/cm ²) for distribution with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction	300	m	232.06	69618.00
22	Supply, laying and jointing 50 mm G I B Class Pipe for distribution with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction	300	m	665.33	199599
23	Supply, laying and jointing 40 mm G I B Class Pipe for distribution with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction	100	m	568.72	56872
24	Providing and fixing PVC pipes includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction . 25 mm dia 10kgf/cm ²	600	m	216.03	129618
25	Supplying and providing 50 m G I B Class Pipe as stay pipe with one step PVC solvent cement, trenching, refilling & testing of joints complete	6	m	549.33 665.33	3991.98
26	Fixing charge for above pipe	1	No	350.00	350.00

3295.98

Cost per meter measurement & conformity (P&R Data)

28	Supplying and providing 65 mm G I B Class Pipe as <u>cover pipe</u> for road cutting with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction	20	m	78276 842.81	16856.20	15255.2
29	Supplying and providing 50 mm G I B Class Pipe as <u>cover pipe</u> for road cutting inclusive of all cost of specials and conveyance	10	m	54914 665.33	6653.30	5491.4
30	Charges for Tar road cutting (30cm depth) and earthwork in all types of soil (45cm depth)	30	m	163.33	4899.90	
31	Providing PCC 1:2:4 for protection of concrete for tar road cutting area where trench made for pipe line	30	m	471.47	14144.10	
32	Supplying and providing 75 mm PVC ball valve to the delivery line	1	No	530.00	530.00	
33	Supplying and providing cover for cable with 25mm (10Kg/cm ²) pipe	5	m	194.02	970.10	
34	Providing House connection with water meter, saddle etc. complete.	60	No.	3408.54	204512.40	
35	Charge for providing Granite slab name board including cost of granite slab, writing and fixing charges etc. complete (As per actual measurement)	1	No.	5000.00	5000.00	
36	Charge for permission from PWD for Berm cutting (As per actual measurement)	1350	No.	359.85	485797.5	
37	Providing well protection with solid block masonry, cover slab etc. complete (As per actual measurement)	1	No.	2640.00	2640.00	
38	Providing external meter box (As per actual measurement)	1	No.	2640.00	2640.00	
TOTAL					2279447.50	22,75,988.6
GST Compensation @12% (except 10, 36 & 38)				212706.13	215238.00	2,13,022.93
Expenses for contingencies and unforeseen items if any.				5305.27	5314.50	4988.47
GRAND TOTAL					2500000.0	24,94,000

(RUPEES TWENTY FIVE LAKHS ONLY)



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DISTRICT OFFICER

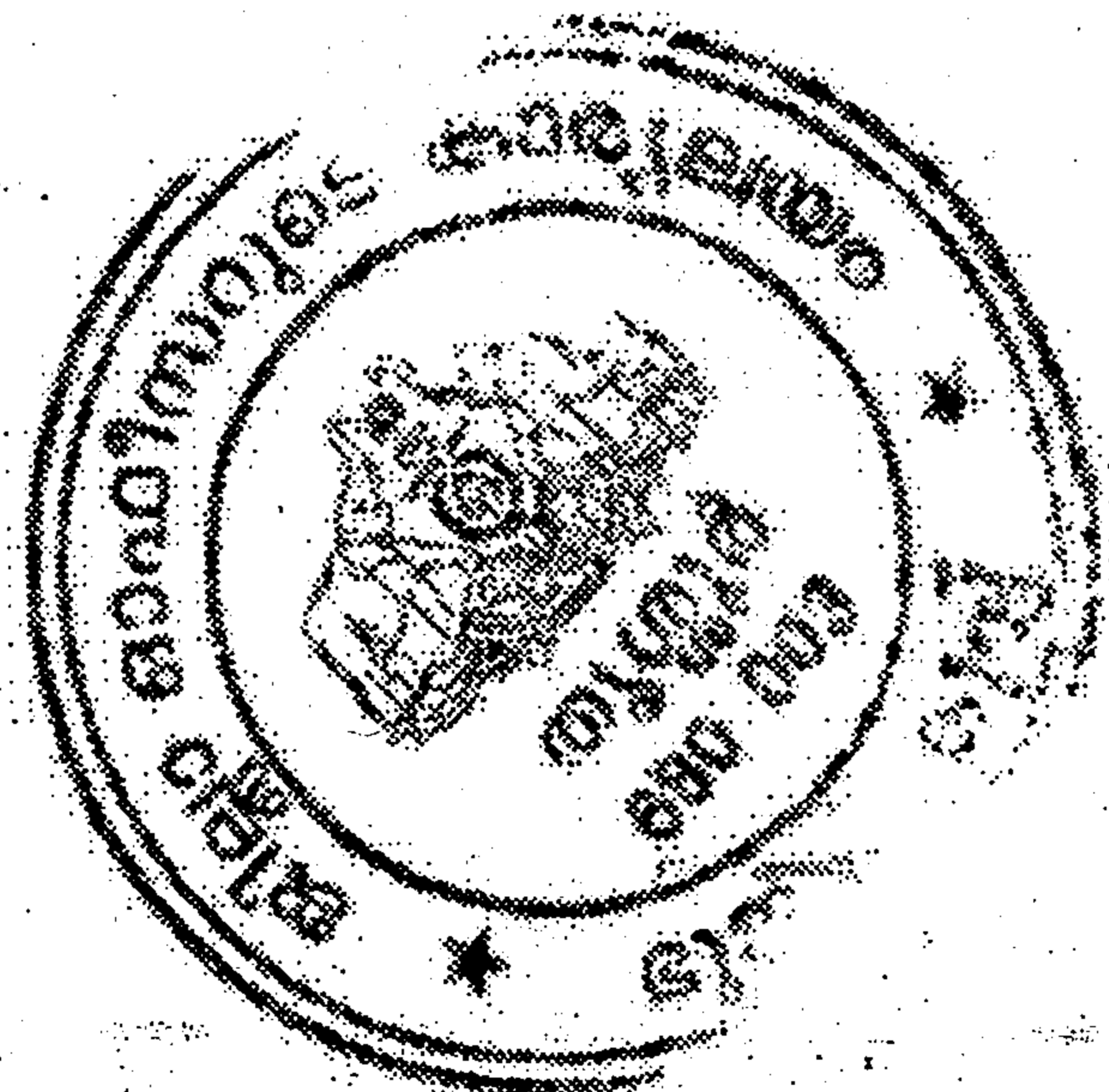
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24,94,000

DETAILED ESTIMATE OF WATER TANK PLATFORM SIZE- 2X2X4M (WITHOUT PUMP HOUSE)

	Description of work	No	L	B	H	Qty	Rate	Unit	Amount Rs.
1	Clearing the site PRICE No.2.2.1A	1	4	4		16	14.37		229.92
2	Earth work excavation in all type of soil for foundation- column 4 Nos.PRICE No.2.8.1	4	1.2	1.2	1.2	6.91	296.94	m ³	2052
3	PCC 1:3:6 using 20mm broken stone PRICE No.4.1.8	4	1.2	1.2	0.1	0.58	7367.55	m ³	4244
4	Foundation- column 4 Nos. RCC 1:1.5:3 using 20mm broken stone including cost and conveyance of all materials, labour charges etc.but excluding reinforcement and form work PRICE No.5.1.2	4	1.0	1.0	0.4	1.60			
	Column footing	4	1.5	0.25	0.25	0.38			
	Plinth beams	4	0.25	0.25	0.7	0.18			
	Columns up to Plinth level (Top of plinth beam)	4				2.15	9085.14	m ³	19533
5	RCC 1:1.5:3 using 20mm broken stone including cost and conveyance of all materials, labour charges etc.but excluding reinforcement and form work PRICE No.5.2.2	4	0.25	0.25	4.0	1.00	10954.04		10954
	Columns	4	1.5	0.25	0.25	0.38			
	Beams	4	1.5	0.25	0.25	0.38			
	Slab	1	2.9	2.9	0.12	1.01			
	Total					1.76	11492.88		20218
6	Reinforcement for all RCC works with 1st quality Tore steel @ 90Kg/M3 (Bill as per actual measurement)PRICE No. 5.22.6						441.83	98.3 Kg	43432
7	Form work for all RCC works	4	4.0			0.4	6.40	335.31 m ²	2146
	Column footing PRICE No. 5.9.1	4	1.0			4.7	18.80	863.64 m ²	16236
	Column PRICE No. 5.9.6	12	1.5			0.75	13.50	649.82 m ²	8773
	Beams PRICE No. 5.9.5	1	2.90	2.90			8.41		
	Slab	1	11.60			0.12	1.39		
	PRICE No. 5.9.3						9.80	815.78 m ²	7996
8	Brick masonry using common burnt bricks for super structure								
	Front wall of platform for writing board	1	1.50	0.15		1.75	0.39		
	Total						0.39		
	PRICE No. 51.6.4.3						0.40	8545.7 m ³	3418
9	Plastering 1:3 ,12mm thick								
	Front wall of platform for writing board	2	1.5			1.75	5.3		
	Total					4.0	16.0		

	Slab sides	1	11.60		0.12	1.39			
	Beam	4	1.5		0.5	3.0			
		4	1.50		1	6.0			
						40.1			
						40.50	314.09	m 2	12580
10	Flooring with pcc 1:3:6 40MM Thick and over that a plastering with cement mortar 1:3 12MM thick PRICE No. 11.3.1	1	1.5		1.5	2.25	586.63	m 2	1320
11	Supplying and providing posts for hand rails with 65MM GI pipe @ 6.42Kg/m PRICE No.50.10.1.6.4.3	5	1			32.10	189.89	Kg	6095
12	Supplying and providing hand rails with 32MM GI pipe@ 3.1Kg/m PRICE No.50.10.1.6.4.3	2	10.6			65.72	189.89	Kg	12480
13	Supplying MS ladder with GI 40mm BClass pipe at 45 cm apart and with 32mm GI Bclass pipe at 20 cm c/c as steps including the cost of all labour and materials and the cost of applying a coat of iron primer. (4.6M 40 MM GI @ 3.56Kg/M,22steps with 32MM GI @3.1Kg/M 40CM LENGTH) PRICE No.50.10.1.6.4.3					60	189.89	Kg	11393
14	Fitting the ladder one end in the ground with cement concrete 1:2:4 60x30x30 and with suitable bolts and nuts etc PRICE No.4.2.3	1	0.6	0.3	0.3	0.054	10069.46	m3	544
16	Finishing plastered surface with water proofing cement paint PRICE No.13.43.1					40.5	70.64	m 2	2861
17	Charges for painting writing etc.								2500
	Unforeseen items								994
	Grand total								190000

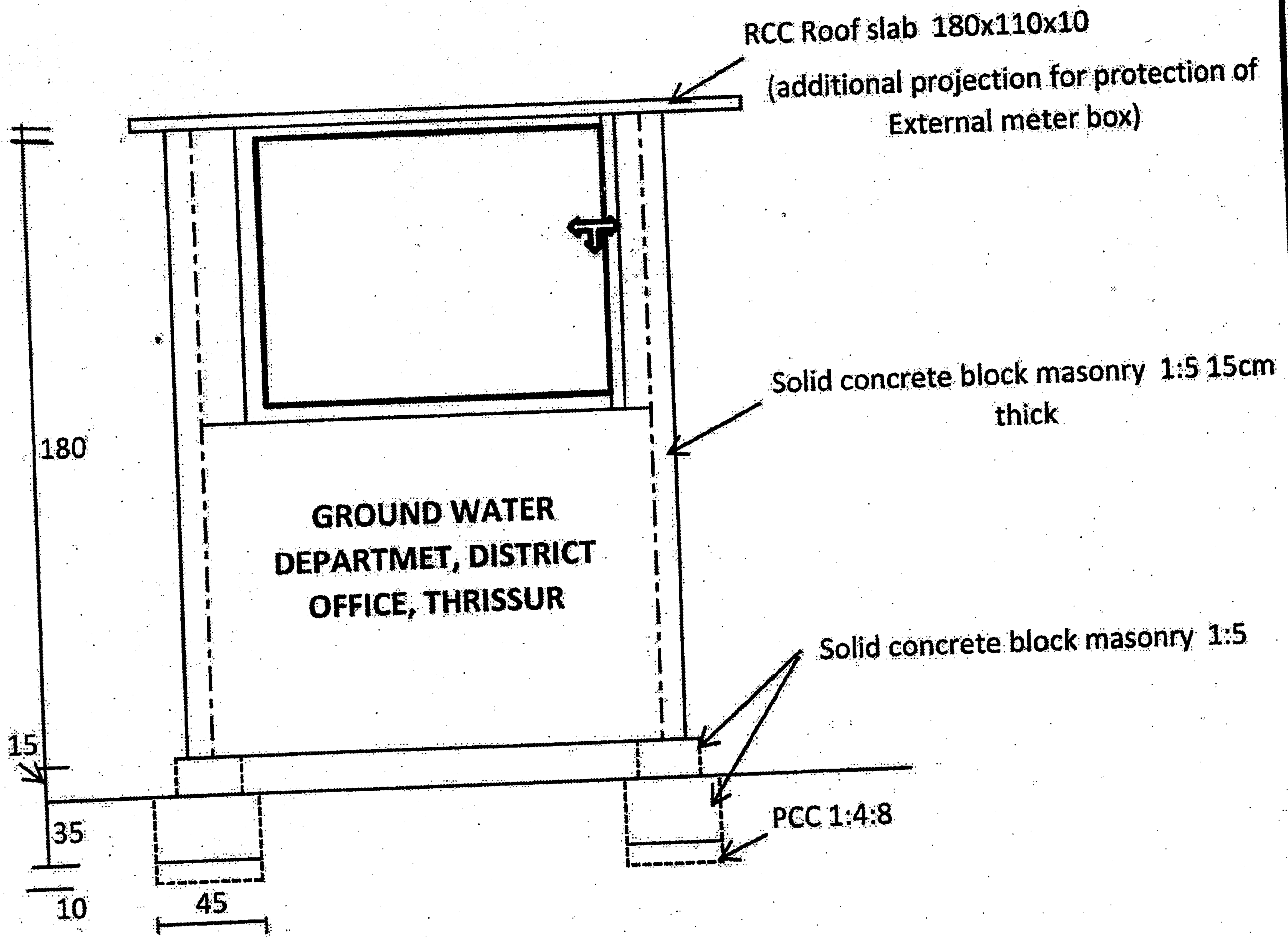


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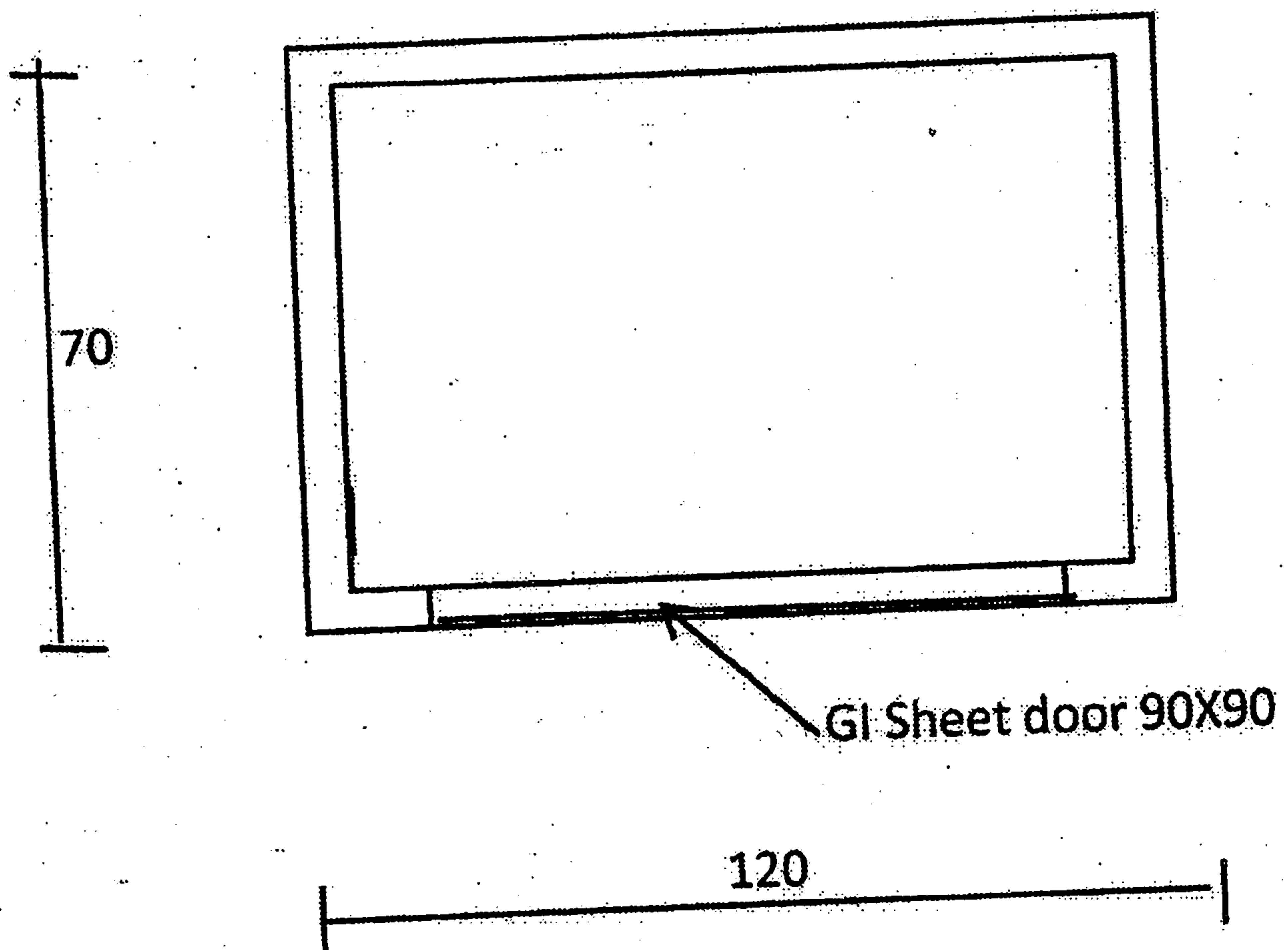
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ESTIMATE FOR PUMP HOUSE

Size of pump house		1.2x0.70x1.8 (Outer)							
Sl. No.	Description of work	No	L	B	H	Qty	Rate	Unit	Amount
			2	2		4	14.37	/	57.48
1	Clearing the site	1							
2	Earth work excavation in hard soil for foundation	1	1.3	0.8	0.45	0.468		/	
						0.500	296.94	m3	148
3	PCC 1:3: 6 using 20mm broken stone	1	1.3	0.8	0.1	0.104	7367.51	m ³	766
4	Solid block masonry using solid blocks of size 30x20x15 bricks for works up to plinth level PRICE No. 50.6.2.1								
	Foundation -	1	3	0.45	0.35	0.473		/	
	Basement	1	3	0.3	0.15	0.135		/	
	Total					0.608	7355.28	m3	4468
5	Solid block masonry using solid blocks of size 30x20x15 bricks for works above plinth level PRICE No. 50.6.2.2								
	Three sides	1	2.2	0.15	1.8	0.594		/	
	Front	1	0.8	0.15	0.9	0.108		/	
	Total					0.702		/	
						0.800	8102.52	m3	6482
6	RCC 1:1.5:3 using 20mm broken stone including cost and conveyance of all materials, labour charges etc. but excluding reinforcement and form work PRICE No.5.2.2								
		1	1.8	1.1	0.1	0.198		/	
						0.200	10954.04	m3	2190.81
7	Reinforcement for all RCC works with 1st quality Tore steel @ 90Kg/M3 (Bill as per actual measurement) PRICE No. 5.22.6								
						16	98.3	kg	1557.07
8	Form work for RCC in slabs PRICE No. 5.9.3								
		1	1.8			1.1	1.98		
		1	5.8			0.1	0.58		
						2.56	815.78	m2	2088.40
9	Filling inside the masonry work up to 1. 1m with excavated earth PRICE No. 2.25								
						1	258.57	m3	258.57
10	Flooring PCC 1:4:8, 40mm thick with plastering PRICE No. 11.3.1								
		1	0.8			0.5	0.4	586.63	M2
11	Plastering 1:4 , 12mm thick inside and out side of the pump house with fine sand PRICE No. 13.1.1								
	Outer sides around	1	3.8			1.8	6.84		
	Wall inner sides	2	0.5			0.9	0.9		
	Slab	2	1.8			1.1	3.96		
	Sides	1	5.8			0.1	0.58		
						12.28			
						12.3	314.09	m2	3863.31
12	Supplying and providing GI sheet door 90X90cm with Angle frame and proper locking etc.								
		1	0.90			0.90	0.81	5212.28	4221.95
13	White washing painting, lettering etc. <i>(As per actual measurement and)</i>								2000.00
	Expenses for contingencies and unforeseen if any <i>(D&R Rates)</i>								662.73
	Total								29000.00



SECTIONAL ELEVATION OF PUMP HOUSE



PLAN

NOT TO SCALE



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All dimensions are in cm