

**PROCEEDINGS OF THE SUPERINTENDING ENGINEER**  
**GROUND WATER DEPARTMENT, JALAVIJNANA BHAVAN,**  
**AMBALAMUKKU, THIRUVANANTHAPURAM**  
**(PRESENT: Sri Vimalraj S)**

Sub:- Ground Water Department – District Office – Alappuzha - Implementation of Mini Water Supply Scheme at Lakshamveedu Colony, Ward-7, Veeyapuram Grama Panchayath in Alappuzha District - Sanctioned Orders issued.

**ORDER NO: DGWD/208/22-T(2)**

**DATED: 09 .12.2022**

Read:- 1) Letter No GWA/187/2021A dated 18/10/2022 from the District Officer, Groundwater Department, Alappuzha  
2) The Decision No. I(1) dated 22/01/2021 of the Secretary, Harippad Block Panchayath

**ORDER**

Vide reference cited above, District Officer, Groundwater Department, Alappuzha has forwarded a proposal for the implementation of Mini Water Supply Scheme at Lakshamveedu Colony, Ward-7, Veeyapuram Grama Panchayath in Alappuzha District for an estimate amount of Rs. 15,60,000/- and requested for the sanction of the implementation of scheme under deposit work.

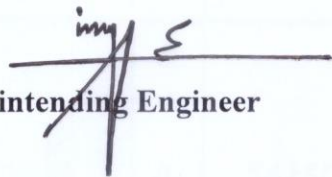
Vide reference 2<sup>nd</sup> cited above, the Secretary, Veeyapuram Grama Panchayath, Alappuzha District has accorded administrative sanction for implementation of Mini Water Supply Scheme and its allied work at above mentioned site.

After detailed verification estimate amount is limited to Rs. 15,45,000 (Rupees Fifteen lakhs and Forty Five Thousand Only).

In the above circumstances, technical sanction is hereby accorded to District Officer, Groundwater Department, Alappuzha for the implementation of Mini Water Supply Scheme at Lakshamveedu Colony, Ward-7, Veeyapuram Grama Panchayath in Alappuzha District for an amount of Rs. 15,45,000 (Rupees Fifteen lakhs and Forty Five Thousand Only).

The District Officer should ensure that the work should be carried out as per the Government norms and rules. The payment should be made only for actual quantity and measurement of each item of work. The work should be supervised by the technical staff of the department.

The expenditure can be met from the fund deposited by the Secretary, Harippad Block Panchayath in Alappuzha District.

  
Superintending Engineer

Encl : Copy of corrected estimate.

To

The District Officer, Groundwater Department, Alappuzha

Copy to : 1. The Secretary, Harippad Block Panchayath.

2. T(2) seat / SF.

**DISTRICT OFFICE GROUNDWATER DEPARTMENT SANATHANAPURAM P  
O ALAPPUZHA**

GWA/187/2021/A

**ESTIMATE FOR MWSS**

**WARD - 7, VEEYAPURAM GRAMPANCHAYAT**

Sl No	Description of work/item	Qty	Unit		Rate/unit	/unit	Total Rate
1	Supply of 2 HP single phase stage submersible pump set with 28 stage ISI against a 160-40 m head including panel board.	1	No	@	25585 ✓	/E	25585.00
2	4 sqmm submersible cable with ISI.	60	m	@	145 ✓	/m	8700.00
3	40 mm std UPVC pipe for pump erection	60	m	@	295 ✓	/m	17700.00
4	40 mm GI tee	1	m	@	225 ✓	/E	225.00
5	40 mm GI bend	1	No	@	135 ✓	/E	135.00
6	40 mm/300 mm long barrel nipple	3	No	@	186 ✓	/E	558.00
7	14 mm Nylon rope	60	m	@	41 ✓	/m	2460.00
8	Pump erection charge.	1	No	@	8121.46 ✓	/E	8121.46
9	Electrification charges comprising of starter, Main switch, fuse carrier, pilot lamp, capacitor, volt meter, ammeter, provision for KSEB meter board etc. (details attached)	1	No	@	10941 ✓	/E	10941.00
10	Power connection expenses, CD, OYEC, SD etc to be remitted for power connection.						20000.00 ✓
11	Supply of pre fabricated metallic pump house including platform for pump house. (Separate details attached)	1	No	@	29721 31136	/E	31136.00
12	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank as per DSR item 18.48 (5000 litre)	1	No	@	10.83	/L	54150.00
13	Tank connector 50 mm	2	No	@	240	/E	480.00
14	Supply of 6 m high Angle iron structure to support 5000 litre pvc water tank including coconut piling & foundation for erecting MS angle iron structure. (Separate details attached)	1	No	@	223617 226448.00	/E	226448.00

PVC PIPE WITH TRENCHING								
15	Providing and fixing PVC pipes includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge							
a	63 mm dia 6 kgf/sqcm PVC pipes with ISI	1260	m	@	316.19 /	/m	398399.4	
b	50 mm dia 6 kgf/sqcm PVC pipes with ISI	1000	m	@	238.71 /	/m	238710.0	
c	40 mm dia 6 kgf/sqcm PVC pipes with ISI	300	m	@	229.36 /	/m	68808.00	
16	Supply and fitting of 40 mm full way wheel valve with ISI	2	No	@	833.51 /	/E	1667.02	
17	Supply and fitting of 40 mm NR valve with ISI.	1	No	@	973.55 /	/E	973.55	
18	Supply and fitting of 50 mm full way wheel valve with ISI	4	No	@	1067.93 /	/E	4271.72	
19	Lettering and writing the details of scheme						1710.00	
20	Well Protection Work (details attached)						4954	
21	Marble stone work						5661.00	
22	Providing and fixing 65mm GI Pipes complete						4336	
23	Hydrants (Platform size 0.6 x 0.3 m for individual family)	92	No	@	2013 2050	/E	188600.00	
<b>TOTAL Rs.</b>					13,11,359.15		1320440.1	
<b>GST 18% (except 10)</b>					232,444.65		237679.2	
<b>Contingencies</b>					1196.20		1880.6	
<b>GRAND TOTAL</b>					15,45,000		1560000.0	
<b>(Rupees Fifteen Lakhs Sixty Thousand Only)</b>								

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DISTRICT OFFICER

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PUMP HOUSE DSR 2018 (2)

Detailed Estimate for Metallic Pump House

Sl. No	Description of work as per PRICE (Buildings) analysis of DSR 2018	No.	L	B	D	Total	Unit	Rate	Amount
1	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m as per DSR item 2.28.1								
	Area	1	2.5	2		5.00			
	Total					5.00	m <sup>2</sup>	21.15	105.75
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. as per DSR item 2.8.1								
	Foundation	1	2	1.5	0.4	1.20			
	Step	1	0.9	0.3	0.1	0.03			
	Total					1.23	m <sup>3</sup>	219	268.71
3	Providing and laying in position Plain Cement Concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) as per DSR item 4.1.8								
	Foundation	1	2	1.5	0.1	0.30			
	Step	1	0.9	0.3	0.1	0.03			
	Total					0.33	m <sup>3</sup>	5026.1	1643.53
4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:4 (1 cement : 4 coarse sand) DSR 6.1.1								
	Foundation	1	5.6	0.2	0.6	0.67			
	Step	1	0.8	0.3	0.15	0.04			
	Total					0.71	m <sup>3</sup>	5535.4	3919.06
5	12 mm cement plaster (in fine sand) of mix 1:4 (1 cement : 4 fine sand) as per DSR item 13.1.1								
	Outside	1	1	6.4	0.3	1.92			
	Top	1	1	5.6	0.2	1.12			
	Step sides	1	1	0.6	0.15	0.09			
	Step top	1	1	0.9	0.3	0.27			
	Total					3.40	m <sup>2</sup>	231.65	787.61
6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per DSR item 2.25								
	Inside Area	1	1.4	1	0.4	0.30			
	Total					0.30	m <sup>3</sup>	190.7	57.21
7	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry complete (40 mm thick with 20 mm nominal size stone aggregate) as per DSR item 11.3.1								
	Inside Area	1	1.4	1		1.40			
	Total					1.40	m <sup>2</sup>	432.65	605.71
8	Structural steel work including wastage, cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per DSR 10.1								
	MS angle 35 x 35 x 5mm	No.	L	Total L	Weight	Unit	Total Weig	Rate	
	Front side corner	2	2.25	4.5					
	Back side corner	2	1.82	3.64					
	Top edge front & back	2	1.6	3.2					
	Top edge sides	2	1	2					
	Bottom edge front & back	2	1.6	3.2					

269.37

1658.61

3930.13



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PUMP HOUSE DSR 2018 (2)

Bottom edge sides	2	0.95	1.9						
Door vertical	2	1.8	3.6						
Door Horizontal	2	0.6	1.2						
Total Length			23.2	2.6	Kg/m	60.4	74.70	4513.67	
MS Flat 35 x 6mm								4511.88	
Back side vertical	1	1.82	1.82						
Front side vertical	1	2.25	2.25						
Door Horizontal	1	0.61	0.61						
Total Length			4.68	1.68	Kg/m	7.86	74.70	587.32	587-14
9 GI Sheet work including wastage, cutting, hoisting, fixing in position, welding and applying a priming coat of approved steel primer all complete									
GI sheet 0.8 mm thick	L	B	Area						
Front side	2.25	1.6	3.6						
Back side	1.82	1.6	2.91						
Sides	2.035	1.9	3.87						
roof	1.8	1.1	1.98						
Total Area			12.4	6.3	Kg/m <sup>2</sup>	77.86	kg		
GI sheet 0.8 mm thick DSR item code no 8019		q	1.05	5000		5250.00			
Carriage of steel		tonne	0.11	92.24		9.69			
Fitter (grade 1)		day	0.5	738		369.00			
Blacksmith 1st class		day	0.75	738		553.50			
Blacksmith 2nd class		day	1	639		639.00			
Welding by electric/ gas plant	8.5 m			200		1700.00			
Sub Total						8521.19			
Water charges 1%						85.21			
Total						8606.40			
CPOH 15%						1290.96			
Sub Total						9897.36			
Priming coat rate as per item number 13.50.3		Kg	3	44.09		132.27			
Total		100 kg				10029.63			
Cost for 1 kg		kg				100.30			
Total						77.86 kg	100.30	7808.92	7809.36
10 Locking arrangements and handles								300	
11 Supplying and fixing Hinges for doors					3 Nos		35	105.00	
8 Unforeseen if any								1297.49	27d.22
9 TOTAL								22000.00	
Say Rs. 22000 x Index									
Say Rs. 22000 x 1.4153 = 31136.6								29721.3	21,000
Say Rs. 31136								29,721	

DISTRICT OFFICER

ജില്ലാ അഫീസർ  
ഭൂമി വകുപ്പ്  
കാമരമ്പുരം പി. ഒ.  
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**WATER TANK WITH PILE DSR 20 (2)**

6	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position (mild and medium tensile steel bars) @ 80kg/m <sup>3</sup> for 1.52m <sup>3</sup> , 5.22A	122		121.6	74.35 71.3	/kg	9040.96 8670.08
7	Structural steel bolted framed work including wastage, cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per DSR 10.2			877.63	88.35	/Kg	77538.79 77538.61
8	Steel work including wastage, cutting, hoisting and fixing in position of M. S. Sheet 16 gauge thick. DSR 10.1			40.69	74.7	/Kg	3039.87 3039.54
9	Steel work including wastage, cutting, hoisting and fixing in position of M. S. Plate 15 mm thick DSR 10.1			42.41	74.7	/Kg	3167.88 3168.03
10	Providing and fixing bolts including nuts and washers complete as per DSR item 10.20			22	111.5	/Kg	2453.00
11	Unforeseen items						1733.81
<b>Total</b>					158000		160000.00
				<b>Say Rs. 160000 x Index</b>			158.000
				<b>Say Rs. 160000 x 1.4153 = 226448</b>			223617.4
				<b>158000 Say Rs. 226448</b>			<u>2,23,617</u>

105.05



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 കേരളം എഞ്ചിനീയറിംഗ് കോളേജ്  
 തിരുവനന്തപുരം  
 2019

**GROUND WATER DEPARTMENT, SANATHANAPURAM P.O, ALAPPUZHA**

Revised Rates as per PRICE (Buildings) analysis of DSR 2018

**DETAILED ESTIMATE FOR WELL PROTECTION WORK**


SL. NO.	Description of work	NO.	L	B	D	TOTAL	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1								
	Foundation	1	0.75	0.75	0.2	0.1125			
	Total					0.1125	m3	219	24.64
2	Providing and laying in position cement concrete 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) as per DSR 4.1.8.								
	Foundation	1	0.75	0.75	0.1	0.05625			
	Deduction for Borewell		3.14	$(0.075)^2$	0.07	0.015386	$1.767 \times 10^3$		
	Total				0.1	0.05448			273.82
	Total					0.040864	m3	5026.1	205.3865504
3	Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in Cement mortar 1:6 (1 cement : 6 Coarse sand) as per DSR item 6.4.2								
	Total	4	0.65	0.1	0.6	0.156	m3	6589.5	1027.962
4	Providing and laying in position reinforced cement concrete 1:2:4 (1 cement:2coarse sand : 4 graded stone aggregate 20mm nominal size ), excluding the cost of centering, shuttering, finishing and reinforcement as per DSR item 5.1.3								
	Total	1	0.8	0.8	0.1	0.064	m3	6334.15	405.3856
5	Steel reinforcement for R C C work including straightening, cutting, bending, placing in position and binding all complete above plinth level (mild and medium tensile steel bars) as per DSR item 5.22A.1								
	Quantity as item 4					0.064	m3		
	at 80kg/cm3			80	0.064	5.12	kg	71.3	365.056
6	Centering and shuttering including strutting, propping etc. and removal of form for roofs etc. for mass concrete as per DSR item 5.9.3								
	Slab	1	4	0.8	0.1	0.32			
	Total					0.32	m2	601.65	192.528
7	12 mm cement plaster of mix 1:4 (1 cement : 4 fine sand) as per DSR item 13.1.1								
	Outside wall	1	4	0.75	0.5	1.5			
	Inside wall	1	4	0.55	0.6	1.32			
	Top of wall	1	1	2.6	0.1	0.26			
	Slab top and bottom	1	2	0.8	0.8	1.28			
	Side of slab	1	4	0.8	0.1	0.32		231.65	1084.12
	Total					4.68	m2	317.1	1484.028
8	Unforeseen if any								295.02
9	TOTAL								4000.00

Say Rs. 4000 X Index

Say Rs. 4000 X 1.4153 = 5661.2 4953.55

Say Rs. 5661 4954



  
 DISTRICT OFFICER  
 GROUND WATER DEPARTMENT  
 ALAPPUZHA

126.49

3500

OFFICE OF THE DISTRICT OFFICER, GROUND WATER DEPARTMENT,  
SANATHANAPURAM.P.O, ALAPPUZHA

Detailed Estimate of Marble Stone Work

LENGTH :0.75Meter & WIDTH: 0.5Meter THICKNESS: 1.8CM

SL. NO.	DESCRIPTION	No.	L	B	H	QTY	UNIT	RATE	AMOUNT
1	Providing and fixing stone slab with table rubbed , edges rounded and polished, of size 75 x 50 cm deep and 1.8 cm thick. Fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedd in the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) as per directionb of Engineer in charge and finished smooth.		0.75	0.50	/m2	<sup>0.375</sup> <u>0.38</u>	m2	2792.70	1047.2625
	Engraving letters in hard stone (DSR 16.21) of Letter				cm			7.1	2016.4
2		71			4		/cm./letter	<u>8.20</u>	<u>2328.80</u>
	Unforeseen								156.94 X
							Total		<u>3533.00</u>
Say Rs. <u>3533</u> x cost Index (1.4153) = <u>5000</u>									3063.66

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DISTRICT OFFICER



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സംസ്കാര വകുപ്പ്  
ആലപ്പുഴ



**PROCEEDINGS OF THE SUPERINTENDING ENGINEER**  
**GROUND WATER DEPARTMENT, JALAVIJNANA BHAVAN,**  
**AMBALAMUKKU, THIRUVANANTHAPURAM**  
**(PRESENT: Sri Vimalraj S)**

Sub:- Ground Water Department – District Office – Alappuzha - Implementation of Mini Water Supply Scheme at Vazhaparambu, Ward-6, Nedumudy Grama Panchayath in Alappuzha District - Sanctioned Orders issued.

**ORDER NO: DGWD/618/22-T(2)**

**DATED: 09 .12.2022**

Read:- 1) Letter No GWA/1089/2021 dated 14/11/2022 from the District Officer, Groundwater Department, Alappuzha  
2) Order No HL2944/2022 dt 03/11/2022 of the Secretary, Alappuzha District Panchayath

**ORDER**

Vide reference cited above, District Officer, Groundwater Department, Alappuzha has forwarded a proposal for the implementation of Mini Water Supply Scheme at Vazhaparambu, Ward-6, Nedumudy Grama Panchayath in Alappuzha District for an estimate amount of Rs. 17,00,000/- and requested for the sanction of the implementation of scheme under deposit work.

Vide reference 2<sup>nd</sup> cited above, the Secretary, Alappuzha District Panchayath, has accorded administrative sanction for the implementation of Mini Water Supply Scheme and its allied work at above mentioned site.

After detailed verification estimate amount is limited to Rs. 16,86,000 (Rupees Sixteen lakhs and Eighty Six Thousand Only).

In the above circumstances, technical sanction is hereby accorded to District Officer, Groundwater Department, Alappuzha for the implementation of Mini Water Supply Scheme at Vazhaparambu, Ward-6, Nedumudy Grama Panchayath in Alappuzha District for an amount of Rs. 16,86,000 (Rupees Sixteen lakhs and Eighty Six Thousand Only).

The District Officer should ensure that the work should be carried out as per the Government norms and rules. The payment should be made only for actual quantity and measurement of each item of work. The work should be supervised by the technical staff of the department.

The expenditure can be met from the fund deposited by the Secretary, Alappuzha District Panchayath.

  
Superintending Engineer

Encl : Copy of corrected estimate.

To

The District Officer, Groundwater Department, Alappuzha

Copy to : 1. The Secretary, Alappuzha District Panchayath

2. T(2) seat / SF.

**DISTRICT OFFICE GROUNDWATER DEPARTMENT  
SANATHANAPURAM P O ALAPPUZHA**

**ESTIMATE FOR MWSS**

**VAZHAPARAMBU , WARD - 6, NEDUMUDY GRAMAPANCHAYAT**

SI No	Description of work/item	Qty	Unit		Rate/unit	/unit	Total Rate
1	Supply of 2 HP single phase stage submersible pump set with 18stage ISI against a 120-40 m head including panel board.	1	No	@	23545	/E	23545.00
2	4 sqmm submersible cable with ISI.	60	m	@	145	/m	8700.00
3	40 mm std UPVC pipe for pump erection	60	m	@	295	/m	17700.00
4	40 mm GI tee	1	No	@	225	/E	225.00
5	40 mm GI bend	1	No	@	135	/E	135.00
6	40 mm/300 mm long barrel nipple	3	No	@	186	/E	558.00
7	14 mm Nylon rope	60	m	@	41	/m	2460.00
8	Electrification charge comprising of starter, main switch, fuse carrier, pilot lamp, capacitor, volt meter, ammeter, provision for KSEB meter board etc.	1	No	@	10941.03	/E	10941.03
9	Pump erection charge.	1	No	@	8121.46	/E	8121.46
10	Power connection expenses, CD, OYEC, SD etc to be remitted for power connection.						20000.00
11	Supply of pre fabricated metallic pump house including platform for pump house. (Separate details attached)	1	No	@	29721 31136	/E	29721 31136.00
12	Supply and erection of PVC water tank 5 KL PVC tank	1	No	@	10.83	/L	54150.00
13	Tank connector 50 mm	2	No	@	240	/E	480.00
14	Supply of 6 m high Angle iron structure with coconut pile to support 5000 litre pvc water tank. (Separate details attached)	1	No	@	210 226448.00 2,23,617	/E	420 226448.00 223617

15	<b>Supplying, conveying, laying and joining PVC pipe with specials with trenching</b>						
a	63 mm dia 6 kg/sqcm PVC pipes with ISI	1600	m	@	287.15	/m	459440.00
b	50 mm dia 6 kg/sqcm PVC pipes with ISI	1000	m	@	238.71	/m	238710.00
c	40 mm dia 6 kg/sqcm PVC pipes with ISI	1000	m	@	<sup>229.36</sup> 212.81	/m	212810.00
	Charges for tar road cut (40m x 0.30m) DSR 15.43.2	12	m <sup>2</sup>	@	376.76	/m <sup>2</sup>	<sup>229360</sup> 4521.12
16	Supply and fitting of 50 mm full way wheel valve with ISI	3	No	@	1067.93	/E	3203.79
17	Supply and fitting of 40 mm NR valve with ISI.	1	No	@	973.55	/E	973.55
18	Lettering and writing (Details attached)	1	No				1710.00
19	Well protection work (details attached)	1	No				4614.00
20	Marble Stone Work	1	No			6506.5	7501.00
21	Hydrants (Platform size 0.6 m x 0.3 m for individual family)	40	No	@	2013	/E	80520.00
<b>TOTAL Rs.</b>					14,29,852.45		<b>1418602.95</b>
<b>GST 18% (except 10)</b>					2,53,773.44		<b>255348.53</b>
<b>Contigencies</b>					2374.11		<b>26048.52</b>
<b>GRAND TOTAL</b>							<b>1700000.00</b>
<b>(Rupees Seventeen Lakhs Only)</b>							<u>16,86,000</u>

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DISTRICT OFFICER

GROUND WATER DEP  
SAMATHANAM, URAM P. O  
ALAPPUZHA

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**PUMP HOUSE DSR 2018 (2)**

**Detailed Estimate for Metallic Pump House**

Sl. No	Description of work as per PRICE (Buildings) analysis of DSR 2018	No.	L	B	D	Total	Unit	Rate	Amount
1	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m as per DSR item 2.28.1								
	Area	1	2.5	2		5.00			
	Total					5.00	m <sup>2</sup>	21.15	105.75
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. as per DSR item 2.8.1								
	Foundation	1	2	1.5	0.4	1.20			
	Step	1	0.9	0.3	0.1	0.03			
	Total					1.23	m <sup>3</sup>	219	268.71
3	Providing and laying in position Plain Cement Concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) as per DSR item 4.1.8								
	Foundation	1	2	1.5	0.1	0.30			
	Step	1	0.9	0.3	0.1	0.03			
	Total					0.33	m <sup>3</sup>	5026.1	1658.61
4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:4 (1 cement : 4 coarse sand) DSR 6.1.1								
	Foundation	1	5.6	0.2	0.6	0.67			
	Step	1	0.8	0.3	0.15	0.04			
	Total					0.71	m <sup>3</sup>	5535.4	3930.13
5	12 mm cement plaster (in fine sand) of mix 1:4 (1 cement : 4 fine sand) as per DSR item 13.1.1								
	Outside	1	1	6.4	0.3	1.92			
	Top	1	1	5.6	0.2	1.12			
	Step sides	1	1	0.6	0.15	0.09			
	Step top	1	1	0.9	0.3	0.27			
	Total					3.40	m <sup>2</sup>	231.65	787.61
6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per DSR item 2.25								
	Inside Area	1	1.4	1	0.4	0.30			
	Total					0.30	m <sup>3</sup>	190.7	57.21
7	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry complete (40 mm thick with 20 mm nominal size stone aggregate) as per DSR item 11.3.1								
	Inside Area	1	1.4	1		1.40			
	Total					1.40	m <sup>2</sup>	432.65	605.71
8	Structural steel work including wastage, cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per DSR 10.1								
	MS angle 35 x 35 x 5mm	No.	L	Total L	Weight	Unit	Total Weig	Rate	
	Front side corner	2	2.25	4.5					
	Back side corner	2	1.82	3.64					
	Top edge front & back	2	1.6	3.2					
	Top edge sides	2	1	2					
	Bottom edge front & back	2	1.6	3.2					

PUMP HOUSE DSR 2018 (2)

Bottom edge sides	2	0.95	1.9							
Door vertical	2	1.8	3.6							
Door Horizontal	2	0.6	1.2							
Total Length			23.2	2.6	Kg/m	60.4	74.70	4513.67		
MS Flat 35 x 6mm								4511.88		
Back side vertical	1	1.82	1.82							
Front side vertical	1	2.25	2.25							
Door Horizontal	1	0.61	0.61							
Total Length			4.68	1.68	Kg/m	7.86	74.70	587.32		
9	GI Sheet work including wastage, cutting, hoisting, fixing in position, welding and applying a priming coat of approved steel primer all complete								587.14	
GI sheet 0.8 mm thick	L	B	Area							
Front side	2.25	1.6	3.6							
Back side	1.82	1.6	2.91							
Sides	2.035	1.9	3.87							
roof	1.8	1.1	1.98							
Total Area			12.4	6.3	Kg/m <sup>2</sup>	77.86	kg			
GI sheet 0.8 mm thick DSR item code no 8019		g	1.05	5000		5250.00				
Carriage of steel		tonne	0.11	92.24		9.69				
Fitter (grade 1)		day	0.5	738		369.00				
Blacksmith 1st class		day	0.75	738		553.50				
Blacksmith 2nd class		day	1	639		639.00				
Welding by electric/ gas plant	8.5 m			200		1700.00				
Sub Total						8521.19				
Water charges 1%						85.21				
Total						8606.40				
CPOH 15%						1290.96				
Sub Total						9897.36				
Priming coat rate as per item number 13.50.3		Kg	3	44.09		132.27				
Total		100 kg				10029.63				
Cost for 1 kg		kg				100.30		7809.36		
Total						77.86 kg	100.30	7808.92		
10	Locking arrangements and handles								300	
11	Supplying and fixing Hinges for doors								3 Nos	35 105.00
8	Unforeseen if any									1297.49 272.22
9	<b>TOTAL</b>									22000.00
								21,000		
								Say Rs.22000 x Index		
								Say Rs.(22000 x 1.4153 = 31136.6) 29721.3		
								21,000 Say Rs. 31136		



29,721  
 DISTRICT OFFICER  
 സമാഹരണ വിഭാഗം  
 തിരുവനന്തപുരം ജില്ല

PUMP HOUSE DSR 2018 (2)

Bottom edge sides	2	0.95	1.9						
Door vertical	2	1.8	3.6						
Door Horizontal	2	0.6	1.2						
Total Length			23.2	2.6	Kg/m	60.4	74.70	4513.67	4511-88
MS Flat 35 x 6mm									
Back side vertical	1	1.82	1.82						
Front side vertical	1	2.25	2.25						
Door Horizontal	1	0.61	0.61						
Total Length			4.68	1.68	Kg/m	7.86	74.70	587.32	587.14
9 GI Sheet work including wastage, cutting, hoisting, fixing in position, welding and applying a priming coat of approved steel primer all complete									
GI sheet 0.8 mm thick	L	B	Area						
Front side	2.25	1.6	3.6						
Back side	1.82	1.6	2.91						
Sides	2.035	1.9	3.87						
roof	1.8	1.1	1.98						
Total Area			12.4	6.3	Kg/m <sup>2</sup>	77.86	kg		
GI sheet 0.8 mm thick									
DSR item code no 8019		g	1.05	5000		5250.00			
Carriage of steel		tonne	0.11	92.24		9.69			
Fitter (grade 1)		day	0.5	738		369.00			
Blacksmith 1st class		day	0.75	738		553.50			
Blacksmith 2nd class		day	1	639		639.00			
Welding by electric/ gas plant	8.5 m			200		1700.00			
Sub Total						8521.19			
Water charges 1%						85.21			
Total						8606.40			
CPOH 15%						1290.96			
Sub Total						9897.36			
Priming coat rate as per item number 13.50.3		Kg	3	44.09		132.27			
Total		100 kg				10029.63			
Cost for 1 kg		kg				100.30			7809.36
Total						77.86	kg	100.30	7808.92
10 Locking arrangements and handles									300
11 Supplying and fixing Hinges for doors							3 Nos	35	105.00
8 Unforeseen if any									1297.49
9 TOTAL									22000.00
Say Rs. 22000 x Index									
Say Rs. (22000 x 1.4153) = 31136.6									
21,000 Say Rs. 31136									



29,721  
 ജില്ലാ അഫീസർ  
 സമാവേശം  
 സനാതനപുരം റോഡ്  
 കോലം  
 DISTRICT OFFICER

## GROUND WATER DEPARTMENT REVISED RATES 2021

### Detailed Estimate for Well Protection Work

Sl. No.	Item	No.	L	B	D	Total	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. as per DSR item 2.8.1								
	Foundation	1	0.75	0.75	0.2	0.11			
	Total					0.11	m <sup>3</sup>	219.02	24.64
2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in Cement mortar 1:6 (1 cement : 6 coarse sand) as per DSR item 6.4.2								
	Side Wall	4	0.65	0.1	0.6	0.16			
	Total					0.16	m <sup>3</sup>	6589.48	1027.96
4	Providing and laying in position reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), excluding the cost of centering, shuttering, finishing and reinforcement as per DSR item 5.1.3								
	Slab	1	0.8	0.8	0.1	0.06			
	Total					0.06	m <sup>3</sup>	6334.15	405.39
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level (Mild and Medium Tensile steel bars) as per DSR item 5.22A.1								
	Quantity as item 4					0.06	m <sup>3</sup>		
	at 80 kg/m <sup>3</sup>			80	0.060	4.80	kg	71.28	342.14
4	Centering and shuttering including strutting, propping etc. and removal of form for roofs etc. for mass concrete as per DSR item 5.9.3								
	Slab	1	4	0.8	0.1	0.32	m <sup>2</sup>		
	Total					0.32	m <sup>2</sup>	601.65	192.53
5	12 mm cement plaster of mix 1:4 (1 cement : 4 fine sand) as per DSR item 13.1.1								
	Outside wall	1	4	0.75	0.5	1.50			
	Inside wall	1	4	0.55	0.6	1.32			
	Top of wall	1	1	2.6	0.1	0.26			
	Slab top and bottom	1	2	0.8	0.8	1.28			
	Side of slab	1	4	0.8	0.1	0.32			
	Total					4.68	m <sup>2</sup>	231.65	1084.12
6	Unforeseen if any								
									183.22
7	<b>TOTAL</b>								
									<b>3260.00</b>
<b>Say Rs. 3260 x Index</b>									
<b>Say Rs. 3260 x 1.4153 = 4614</b>									



**DISTRICT OFFICER**

ജില്ലാ ഭരണ  
\* ഭവന വകുപ്പ്  
നന്ദമംഗലം പി.  
അ,ലവി

## Detailed Estimate of Marble Stone Work

**LENGTH :0.75Meter & WIDTH: 0.5Meter THICKNESS: 1.8CM**

SL. NO.	DESCRIPTION	No.	L	B	H	QTY	UNIT	RATE	AMOUNT
1	Providing and fixing stone slab with table rubbed , edges rounded and polished, of size 75 x 50 cm deep and 1.8 cm thick. Fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedd in the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) as per directionb of Engineer in charge and finished smooth.		0.75	0.50	/m2	0.38 <sup>0.375</sup>	m2	2792.70	1047.2625
	Engraving letters in hard stone (DSR 16.21)	No. of Letters			cm			7.1	3550
2		125			4	/cm./ letter	8.20	4100.00	
	<b>Unforeseen</b>								152.74 x
								Total	4597.26 5300.00

Say Rs. 5300 x cost index (1.4153) = 7501 6506.5  
4597.26



*[Handwritten Signature]*  
D12

*[Handwritten Signature]*  
**DISTRICT OFFICER**  
DISTRICT OFFICER  
GROUND WATER DEPT  
SAMATHURURAM P. O  
ALAPPUZHA

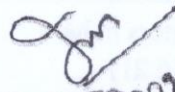


**Name Board**

**Cost of writing, labelling the name of the scheme. Data for 1 No sign board**

1	13.51.2	Size of the board 90 x 60 cm = 0.54m <sup>2</sup> Painting the surface with silicon, aerilic emulsion paint as per DSR : 13.51.2	90 (cm)	60 (cm)	/m <sup>2</sup>	0.54	m <sup>2</sup>	112.00	1.4153	85.60
2	13.71	Lettering with black japan paint as per DSR 13.71 (5 cm ht)	5	4.10 Rate	/CM	56.00	letters	20.50	1.4153	1624.76
<b>TOTAL</b>										<b>1710.36</b>



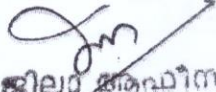
  
 ജില്ലാ ആഫീസർ  
 ഭൂമി വകുപ്പ്  
 ഗവൺമെന്റ് ഓഫീസ്,  
 തൃശ്ശൂർ

**WATER TANK WITH PILE DSR 20 (2)**

6	Steel reinforcement for RCC work including staightening , cutting, bending, placing in position ( miled and medium tensile steel bars) @ 80kg/m3 for 1.52m3, 5.22A	122			121.6	74.35 71.3	/kg	9040.96 8670.08
7	Structural steel bolted framed work including wastage, cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per DSR 10.2				877.63	88.35	/Kg	77538.79 77538.61
8	Steel work including wastage, cutting, hoisting and fixing in position of M. S. Sheet 16 guage thick. DSR 10.1				40.69	74.7	/Kg	3039.87 3039.54
9	Steel work including wastage, cutting, hoisting and fixing in position of M. S. Plate 15 mm thick DSR 10.1				42.41	74.7	/Kg	3167.88 3168.03
10	Providing and fixing bolts including nuts and washers complete as per DSR item 10.20				22	111.5	/Kg	2453.00
11	Unforeseen items							1733.81
Total						1,58,000		160000.00
					Say Rs. 160000 x Index			1,58,000
					Say Rs. 160000 x 1.4153 = 226448			223617.4
					158000 Say Rs. 226448			

2,23,617



  
 ജില്ലാ കൗൺസിലർ  
 ജില്ലാ വകുപ്പ്  
 പൊതുമരാമത്ത് വി. ഭ.  
 തിരുവനന്തപുരം