

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

Sub: Ground Water Department – Ernakulam - Implementation of Mini Water Supply Scheme at Puttumanoor 4 Cent Colony, Ward-11, Vadavukode-Puthencruz Grama Panchayath in Ernakulam District under Groundwater based drinking water supply scheme – Technical sanction accorded - orders issued.

ORDER NO:- T(1) / 3087/2022/DGW

Dated: 15.07.2022

Read:- 1. Letter No. GWE /746/2022, dated 26-04-2022 from District Officer, Ground Water Department, Ernakulam.

2. Order No. T(1) 3087/2022/DGW dated: 07/07/2022 of Director, Ground Water Department, Thiruvananthapuram.

ORDER

As per the letter read 1st, District Officer, Ground Water Department, Ernakulam has forwarded a proposal with detailed estimate for an amount of Rs. 6,25,000/- for the implementation of mini water supply scheme at Puttumanoor 4 Cent Colony, Ward-11, Vadavukode-Puthencruz Grama Panchayath in Ernakulam 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. 6,10,000/- (Rupees Six lakhs and ten thousand only).

As per the order read as 2nd paper Administrative Sanction for an amount of Rs. 6,10,000/- (Rupees Six lakhs and ten thousand only) has been accorded by the Director of Ground Water Department for the above work.

After examining the matter in detail, technical sanction is hereby accorded to the District Officer, Ground Water Department, Ernakulam for an amount of Rs. 6,10,000/- (Rupees Six lakhs and ten thousand only) for the implementation of mini water supply scheme at Puttumanoor 4 Cent Colony, Ward-11, Vadavukode-Puthencruz

Grama Panchayath in Ernakulam District under Groundwater based drinking water supply scheme.

The District Officer, Ground Water Department, Ernakulam 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, Ernakulam

Copy to : T(1) seat/SF

GROUND WATER DEPARTMENT ERNAKULAM

ESTIMATE FOR MINI WATER SUPPLY SCHEME AT PUTTUMANNOOR 4 CENT COLONY W - 11, IN VADAVUKODE - PUTHENCROZ GRAMA PANCHAYATH UNDER GWBDWS - 2022 - 23

District Index

1.3559

Sl. No.	Particulars	Rate	Qty	Unit	Amount
1	Supply of ISI Marked 1.5 HP 21 stage 125-50 m head Single phase submersible pumpset suitable for 110 mm dia bore well inclusive of cost conveyance etc including pannel board.	22100	1	No.	22100
2	Electrification charge for getting Single phase power connection inclusive of cost conveyance and labour charges etc. exclusive of pannel board	10851.63	1	No.	10851.63
3	Supply of submersible cable 2.5 mm ² inclusive of cost, conveyance etc.	96	90	M	8640
4	Providing and fixing 25 mm 10 Kgf/cm ² PVC pipes, fittings includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete for sub. Cable covering	216.03	14	M	3024.42
5	Supply 32 mm UPVC (good quality) pipe inclusive of cost, conveyance etc;	225	75	M	16875
6	Supply of 32 mm S.S. Adaptor for connecting UPVC pipe with submersible pump set	670	1	No.	670
7	Charge for erecting Submersible pump set of 1.5 HP inclusive of clamps, labour etc.	7826.18	1	No.	7826.18
8	Supply 12 mm thick nylon rope for pump erection	32	77	M	2464
9	Supply and fitting of 32 mm GI Union.	222.06	1	No.	222.06
10	Supply and fitting of 32 mm GI Bend	110	3	No.	330
11	Supply and fitting of 32 mm GI "T"	125	1	No.	125
12	Supply and fitting of 32 mm Gun metal NRV	755.39	1	No.	755.39
13	Supply and fitting of 50 MM Gunmetal Gate/Brass full way valve with C I wheel of approved quality	1023.11	3	No.	3069.33
14	Supply and fitting of 40 MM PVC valve	235	1	No.	235
15	Supply and fitting of 65 MM PVC valve	340	2	No.	680
16	Construction of pump house size 1.2 m x 0.6 m x 1.6 m <i>(as per estimate)</i>	29000	1	No.	29000
17	Construction of Water tank platform 2 m x 2 m x 6 m, Height with RCC roof slab <i>(as per actual measurement)</i>	281000 275,000	1	No.	281000 2,75,000
18	Providing and fixing 40 mm 10 Kgf/cm ² PVC pipes, fittings includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete for pumping line	264.12	5	M	1320.6
19	Providing and fixing 40 mm 10 Kgf/cm ² PVC pipes, fittings includes fixing the pipe with clamps at 1 m spacing, jointing of pipes & fittings with one step PVC solvent cement & testing of joints complete for pumping line	366.22 407.43	10	M	3660.2 4074.3
20	Providing and fixing 32 mm dia. GI pipes complete with G. I fittings including trenching and refilling etc. External work for pumping line	499.85	5	M	2499.25
21	Supply and placing of PVC Tank ISI marked inclusive of cost conveyance.	10.37	5000	Ltr.	51850

22	Supplying and fixing Tank connector 40 mm size with inclusive of cost, conveyance etc.	179.2	1	No.	179.2
23	Supplying and fixing Tank connector 63 mm size with inclusive of cost, conveyance etc.	308	2	No.	616
24	Providing and fixing 32 mm 10 Kgf/cm2 PVC pipes, fittings includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete for distribution line	238.74 240.74	30	M	7162.2 7222.2
25	Providing and fixing 50 mm 10 Kgf/cm2 PVC pipes, fittings includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete for distribution line	272.14	30	M	8164.2
26	Providing and fixing 63 mm 6 Kgf/cm2 PVC pipes, fittings includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete for distribution line	309.54	70	M	21667.8
28	Providing and fixing 25 mm dia. GI pipes complete with G. I fittings including trenching and refilling etc. External work for distribution line	429.07	10	M	4290.7
30	Providing and fixing 40 mm dia. GI pipes complete with G. I fittings including trenching and refilling etc. External work for distribution line	568.73	30	M	17061.9
31	Hydrants with tap (Size 0.8m X 0.5m platform)	2618.79	10	No.	26187.9
32	Charges for well protection work	4420.23	1	No.	4420.23
33	Charges for providing Name board (as per actual measurement)	L.S	1	No.	7500
	Total				5,37,442.19
	GST 12%				64,493.06
	Electricity Connection charges as per annuals	L.S			4500
	Unforeseen items if any				3564.75
	Grand Total				6,10,000
Rupees Six Lakh and Twenty Thousand Only					<u>6,10,000/-</u>

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District Officer
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ESTIMATE FOR RCC WATER TANK PLATFORM - SIZE 2.1 M X 2.1 M X 6 M WITH RCC ROOF SLAB										
SL NO.	PARTICULARS	RATE	NO.	L	B	H	QTY	UNIT	AMOUNT	
1	Clearing the site - (DSR - 2018, SH No:2.28.1, Excluding GST, Cess)	215	1	3	3		9	m ²	193.5	190.35
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 for all kinds of soil. (DSR 2018, SH No:2.8.1, Excluding GST, Cess)	215	4	1	1	1	4	m ³	876.0	
3	PCC 1:4:8 using 40mm graded stone aggregate, for foundation - (DSR 2018 SH No. 4.1.8, Excluding GST, Cess)	5026.1	4	1	1	0.1	0.4	m ³	2010.4	
4	RCC Work									
a	Footing - RCC 1:2:4 using 20mm graded stone aggregate (DSR 2018, SH No:5.1.3, Excluding GST, Cess)		4	0.8	0.8	0.2	0.512			
	Rectangular portion - RCC 1:2:4 using 20mm graded stone aggregate (DSR 2018, SH No:5.1.3, Excluding GST, Cess)		4	0.7	0.7	0.5	0.98			
	Total	6334.1					1.492	m ³	9450.5	
b	Column - RCC 1:1.5:3 using 20mm graded stone aggregate (DSR 2018, SH No:5.2.2, Excluding GST, Cess)		4	0.3	0.3	6	2.16			
	Plinth Beam - RCC 1:1.5:3 using 20mm graded stone aggregate (DSR 2018, SH No:5.2.2, Excluding GST, Cess)		4	1.5	0.3	0.3	0.54			
	Total	8078.8					2.7		21812.8	
c	Beam - RCC 1:1.5:3 using 20mm graded stone aggregate (DSR 2018, SH No:5.3, Excluding GST, Cess)		8	1.5	0.3	0.3	1.08			
	Roof slab - RCC 1:2:4 using 20mm graded stone aggregate (DSR 2018, SH No:5.3, Excluding GST, Cess)		1	2.6	2.3	0.12	0.7176			
	Total	8476.2	1	0.55	0.45	0.12	1.80		15236.8	
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Mild steel and Medium Tensile steel bars @ 100 kg/m ³	71.3					1.7976	602	kg	42922.6
6	Centering and shuttering including strutting, propping etc. and removal of form for :									
a	Footing - (DSR 2018, SH No:5.9.1, Excluding GST, Cess)	247.3	16	0.8	0.2		2.56			
	Rectangular portion (DSR 2018, SH No:5.9.1, Excluding GST, Cess)		16	0.7	0.5		5.6			
	Total	247.3					8.16	m ²	2018.0	
b	Column - (DSR 2018, SH No:5.9.6, Excluding GST, Cess)	636.95	16	0.3	6		28.8	m ²	18344.2	
c	Beam (DSR 2018, SH No:5.9.5, Excluding GST, Cess)	479.25	28	1.5	0.3		12.6	m ²	6038.6	
d	Slab - (DSR 2018, SH No:5.9.3, Excluding GST, Cess)		1	2.6	2.3		5.98	m ²		
			1	10.9	0.12		1.308	m ²		
		601.65					7.288		4384.8	

7	12 mm cement plaster finished with a floating coat of neat cement of mix (DSR 2018 , SH No:13.7.1,Excluding GST,Cess)						0		
	Slab		2	2.6	2.6		13.52		
			4	2.6	0.12		1.248		
			2	0.6	0.53		0.636		
			1	1.13	0.12		0.134		
	column		16	0.3	6		28.8		
	Beam		36	0.3	1.5		16.2		
	Total	295.9					60.538	m2	17913.2
8	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/ 10 sqm)- (DSR 2018 , SH No:13.44.1,Excluding GST,Cess)	79.2					61	m2	4831.2
9	Construction of ladder and Hand rails for roof slab with GI Pipe 40 mm dia. - (DSR 2018 , SH No:10.26.3,Excluding GST,Cess)								
	i Ladder								
	Vertical post		2	7.5			15	m	
	Hand Rails		2	6			12	m	
			10	0.8			8	m	
	Steps		17	0.4			6.8	m	
	ii Hand Rails for Roof slab						0		
	Vertical post		12	1			12	m	
			3	2.8			8.4	m	
	Horizontal post		3	2.55			7.65	m	
			3	2.25			6.75	m	
			3	2.15			6.45	m	
			3	0.45			1.35	m	
							84.4	m	
	Wt. @ 3.72 Kg./m	137.2					313.97	Kg.	43076.7
	MS Plate 15mm thick (117.8 Kg/m ²) (DSR 2018 , SH No: 10.1,Excluding GST,Cess)		14	0.1	0.1		0.14	m2	
		75.12					16.5	Kg.	1239.5
	iii Foundation of Ladder								
	Earthwork excavation (DSR 2018 , SH No:2.8.1,Excluding GST,Cess)	219	1	0.2	0.2	0.3	0.012		2.6
	PCC 1:4:8 for foundation (DSR 2018 SH No. 4.1.8,Excluding GST,Cess)	5026.1		0.2	0.2	0.3	0.012		60.3
10	Providing and fixing scaffolding system for the construction work of Roof slab and beam	223.95		10	5		50		11197.5
	TOTAL								201609.10
	Add Cost Index 35.59%								71752.68
	Unforseen Items if any								7638.23
	Grand Total								281000

(Rupees Two Lakh Eighty One Thousand only)

201605.9
71751.56
1642.54
2,75,000/-



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District Officer

ESTIMATE OF PUMP HOUSE OF SIZE 1.2 X 0.6 X 1.6 M WITH BRICK WORK AND RCC ROOF									
Sl. No.	Particulars	No	L	B	H	Qty	Rate	Unit	Amount
1	Clearing the site 2.28.1		1.5	1.5		2.25	21.15	m ²	47.59
2	Earth work excavation in all kinds of soil for foundation. 2.8	1	1.3	1	0.6	0.78	219	m ³	170.82
3	Position Cement concrete 1:4:8 using 20mm metal for foundation 4.1.8	1	1.3	1	0.1	0.13	5026.1	m ³	653.39
4	Random rubble masonry with hard stone in foundation and plinth 7.1.1	1	1.3	1	0.75	0.975			
	Deduction	1	1.3	0.3	0.1	0.039			
	Total					0.936	5313.65	m ³	4973.58
5	Brick masonry with cement mortar 1:6 including all materials cost, conveyance, labour charges etc. complete for superstructure 6.3.1	1	2.96	0.16	1.6	0.758		m ³	
	Deduction for opening	1	0.88	0.16	0.8	0.113		m ³	
	Total					0.645	6704.25	m ³	4325.05
6	RCC 1 : 1.5 : 3 (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size) 5.3	1	1.7	1	0.1	0.17	8476.2	m ³	1440.95
7	Steel reinforcement for R.C.C. work - Mild steel and Medium Tensile steel bars @ 100Kg/ M 3 5.22.1					17	71.3	Kg	1212.10
8	Form work for RCC slab 5.9.3	1	1.7	1		1.7			
		1	5.4		0.1	0.54			
	Total					2.24	601.65	M ²	1347.70
9	Filling the gap between the walls, With available excavated earth 2.25	1	0.88	0.28	0.76	0.1873	190.7	m ³	35.72
10	Cement concrete flooring 1:2:4 - 40 mm thick with 20 mm nominal size stone aggregate 11.3.1	1	0.88	0.44		0.3872			
		1	1.2	0.3		0.36			
	Total					0.7472	432.65		323.28
11	Plastering 1:3, 12mm thick inside and outside of pump house 13.7.1								
	Outer walls	1	2.4		1.6	3.84			
		1	1.2		0.8	0.96			
		2	0.16		0.8	0.256			
	Inner walls	1	1.76		0.8	1.408			
	Floor	1	0.88	0.44		0.39			
	Basement	1	4.6	0.15	0.1	0.07			
	Roof slab(Top)	1	1.7	1		1.7			
	Roof slab (Bottom)					1.23			
	Slab side	1	5.4		0.1	0.54			
	Total					10.39	295.9	M ²	3074.40
12	Providing G I sheet door 0.88x0.8 with proper locking arrangements								
	M S Angle 25mm x 25mm x 5 mm for Door frame @ 1.8 kg/m		3.76			6.77			
	M S Angle 25mm x 25mm x 5 mm for Door @ 1.8 kg/m (DSR - 10.1)		3.36			6.05			

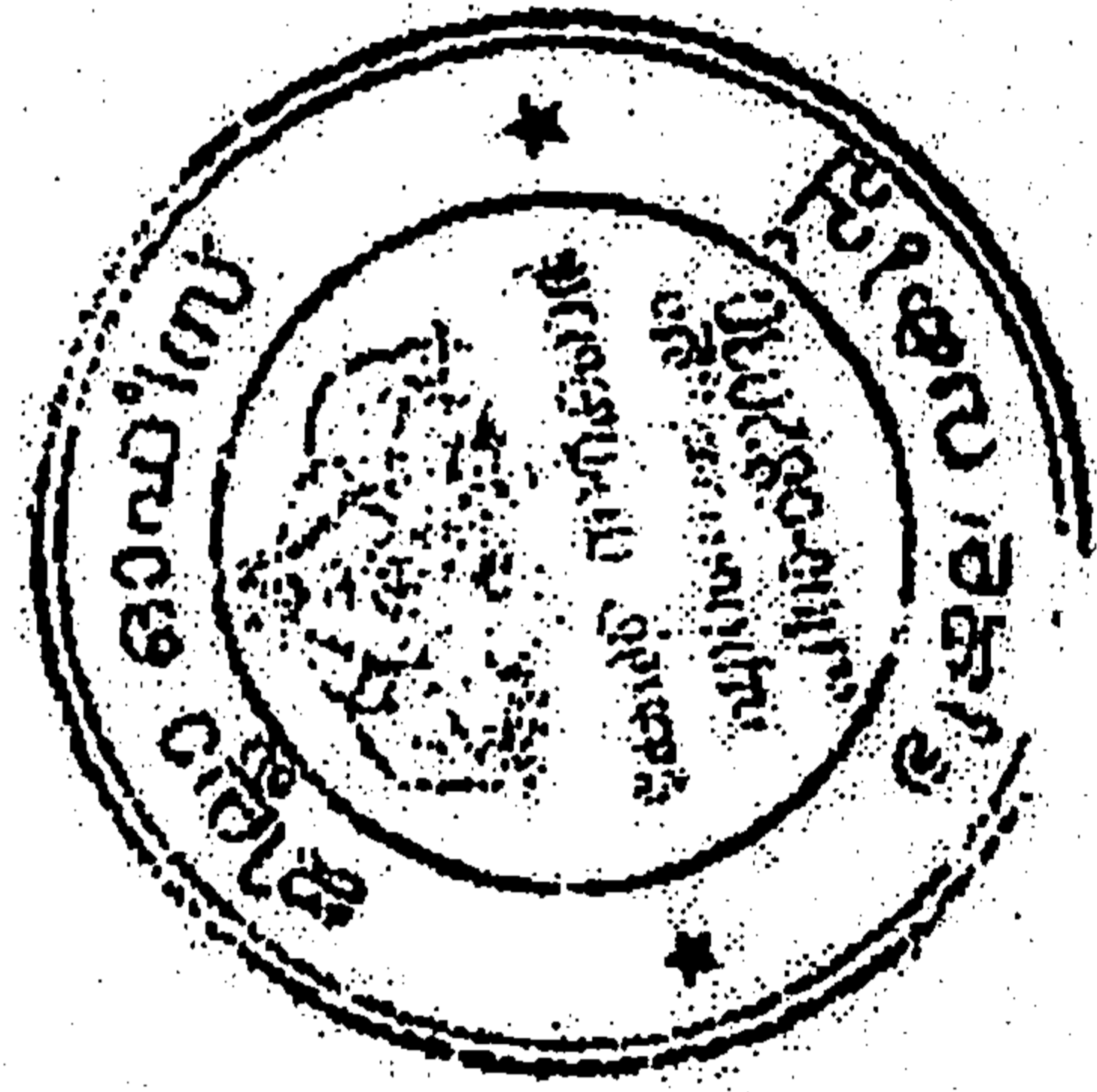


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Total								
ii	G I Sheet 0.8mm thick for Door @ 6.3 kg/m ²	0.7				12.82	75.12	kg 963.04
iii	Supplying and fixing Hinges for doors					4.41	100.3	kg 442.32
	Locking arrangements and handles					3	35	No. 105.00
13	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 0.384 kg/sgm) 13.44.1					1	300	300.00
						10.39	79.2	M2 822.888
	TOTAL							
	Add Cost Index 35.59%					20232.43		20237.82
14	Unforeseen items if any					27433.15		27440.46
15	Grand Total					566.85		1559.54
								29000

Rupees Twenty nine Thousand Only

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