

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

Ground Water Department – District Office -Kannur - Renovation of Mini Water Supply Scheme at Adichikavala SC Colony, Chengalayi Grama Panchayath in Kannur District under Ground Water Based Drinking Water Supply Scheme –Technical sanction - orders issued.

ORDER NO:- T(1) / 3508/2022/DGW

Dated: 22.09.2022

- Read:-
1. Letter No. GW/KNR/16/2021, dated: 27-05-2021 from District Officer, Ground Water Department, Kannur.
 2. Order No. T(1) 3508/2022/DGW dated: 17.09.2022 from Director, Groundwater Department, Thiruvananthapuram.

ORDER

As per the letter read 1st, District Officer, Groundwater Department, Kannur has forwarded a proposal with detailed estimate for an amount of Rs. 6,70,000/- (Rupees Six lakhs and seventy thousand only) for the renovation of Mini Water Supply Scheme at Adichikavala SC Colony, Chengalayi Grama Panchayath in Kannur District under Ground Water Based Drinking Water Scheme for the year 2022–23.

The proposal for the renovation of Mini Water Supply Scheme submitted by the District Officer has been verified and the corrected amount as Rs. 6,82,000/- (Rupees Six lakhs and eighty two thousand only) as the rate of GST enhanced from 12% to 18%. Here estimate amount is Rs. 5,78,233 and 18% GST amount is Rs. 1,03,767/-.

As per the order read as 2nd paper Administrative Sanction for an amount of Rs. 6,82,000/- (Rupees Six lakhs and eighty two 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, Kannur for an amount Rs. 6,82,000/- (Rupees Six lakhs and eighty two thousand only) for the renovation of Mini Water

Supply Scheme at Adichikavala SC Colony, Chengalayi Grama Panchayath in Kannur District under Ground Water Based Drinking Water Scheme.

The District Officer 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 work should be supervised by the technical staff of the department. 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. 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. 158 lakhs under the head of account "2702-02-103-99 scheme for Ground Water Based Drinking Water Scheme (P)" for the financial year 2022-2023.



Superintending Engineer (General)

Encl: Verified Estimate

To

 The District Officer, Groundwater Department, Kannur.

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DETAILED ESTIMATE FOR THE RENNOVATION OF MINI WATER SUPPLY SCHEME AT ADICHIKAVALA SC COLONY IN CHENGALAYI GRAMA PANCHAYATH IN KANNUR DISTRICT.

Sl. No.	Particulars	Rate (Rs.)	Quantity	Unit	Amount (Rs.)
1	Charge Water quality test <i>(As per actual)</i>	2790	1	No	2790
3	Supply of ISI Marked single phase 1.5 HP 24 stage Submersible pumpset suitable for 150 MM Dia Bore Well which delivers 2000 LPH at a Total Head of 125 M -50 M.	22100	1	No	22100
4	Electrification charge for single phase pannel board including 75 x 75 cm size metal box, 32A ICDP, ELCB, Fuse, 5A switch etc. and also including wiring charges complete.	10826	1	No	10826
5	Supply of submersible cable 4 mm ² (ISI)	145	100	M	14500
6	Supply 40 mm, 20 Kg/Cm ² UPVC (good quality) pipe inclusive of cost, conveyance etc;	295	84	M	24780
7	Charge for erecting Submersible pump set of up to 3 HP	7742	1	No.	7742
8	Charge constructing bore well protection 0.65X0.65X0.6m in brick wall, having 0.8X0.8X0.1m concrete slab, 0.75X0.75X0.1m concrete foundation. <i>(As per actual)</i>	4365	1	No.	4365
9	Supplying of Nilon rope for pump erection 14 mm thick good quality	41	90	M	3690
10	Supply and fitting of GI Bend, Union, GM NRV, etc.	1279	1	No.	1279
11	Cost of <i>85</i> adapter for connecting 40mm UPVC pipe	800	2	No.	1600
13	Construction of water tank platform having size 2 x 2 x 5.05 m, RCC Colomns , Beams ,slab and plastering, painting etc Complete. <i>(As per actual)</i>	1,99,000 217000	1	No.	1,99,000/- 217000
14	Supplying and placing of PVC Tank ISI marked inclusive of cost, conveyance etc.	10.24	3000	Litre	30720
15	Supplying and fitting of PVC Tank connector 63 mm.	305.00	1	No.	305
16	Supplying and providing 50mm wash out. 210+300	510	1	M	510
17	Supplying, laying and jointing 40 mm ISI marked PVC pipe(10 kg/cm ²) ISI Marked PVC pipe for pumping main and distribution inclusive of all cost of specials and conveyance etc. Including trenching and refilling.	262	200	M	52400
18	Supplyin and jointing 65 mm GI pipe for road crossing inclusive of all cost of special and conveyance etc. Including trenching and refilling.	832	12	M	9984

19	Supply laying and jointing 63 mm ISI marked PVC pipe (6 kg/cm ²) for distribution inclusive of all cost of specials and conveyance etc. Including trenching and refilling.	308	100	No.	30800
20	Supplying and providing 50 mm ISI marked PVC pipe(10 kg/cm ²) for distribution inclusive of all cost of specials and conveyance etc. Including trenching and refilling.	270	200	M	54000
21	Supplying, laying and joining 32mm ISI marked (10kg/cm ²) PVC pipe for distribution and cable wire protection. Including trenching and refilling.	239	200	M	47365 47800
22	Supplying, laying and joining 25mm ISI marked (10kg/cm ²) PVC pipe for distribution and cable wire protection. Including trenching and refilling.	214	200	M	42800
23	Manhole for valve	600	3	M	1800
24	Supply and providing 63 mm PVC Ball valve inclusive of cost and conveyance etc.	340	1	No.	340
25	Supply and providing 50 mm PVC ball valve inclusive of cost and conveyance	300	1	No.	300
26	Supply and providing 40 mm PVC ball valve inclusive of cost and conveyance.	235	3	No.	705
27	Supplying and providing tap with platform etc (0.60m. x 0.30m.)	1807.00	5	M	9035
28	Lettering with black Japan paint of approved brand and manufacture per letter per 5 cm height	27.45	100	No	2745
	^{18%} Total			5,76,484	594916
29	Add 12% as GST component			1,03,767	71390
30	Expenses for contingencies and unforeseens if any			1,749	3694
	GRAND TOTAL			6,82,000	670000

(RUPEES SIX LAKH AND SEVENTY THOUSAND ONLY)

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DETAILED ESTIMATE OF WATER TANK PLATFORM SIZE 2.00 X 2.00 X 5.05 M AT ADICHIKAVALA SC COLONY IN CHENGALAYI GRAMA PANCHAYATH

Sl.No	Description pump house	No	L	B	H	Qty	Rate	Unit	Amount
1	Clearing the site ls	1	3	3		9	28.32	m2	255
2	Earth work excavation in all classes of soil for foundation	4	1	1	1	4	293.24	1m3	1173
3	PCC 1:4:8: using 40mm broken stone	4	1	1	0.2	0.8	6729.95	M3	5384
4	RCC 1:1:5:3 (1cement:1.5 sand:3 meatal) for roof slab, beam, column including cost and conveyance of materials, labour charges etc and excluding reinforcement.								
	Column 1 st footing in the shape of truncated square pyramid.	4	H/3(A1+A2+SQR(A1*A2))			1.14			
	Column footing 3rd	4	0.6	0.6	0.3	0.432			
	Plinth beams	4	1.5	0.25	0.3	0.45			
						2.022	9971.9	m3	18141
	Column	4	0.25	0.25	4.9	1.725	10817.51	m3	13251
	Beams	8	1.5	0.25	0.3	0.9	11349.63	m3	10215
	Slab- tank platform	1	3	3	0.15	1.35	11349.63	m3	15322
a)	Form work of footing	4	3.6		0.5	7.2			
		4	2.4		0.3	2.88			
						10.08	466.45	m3	4702
b)	Form work of column	4	4.9	1	1	19.6	852.88	m3	16716
	Form work of slab- water tank platform	1	3.3	3.3	1	10.89			
	Form work of Beam	8	1.5	1	0.85	10.2			
						40.69	641.72	m2	26112
d)	Plinth Beam	4	1.5		0.85	5.1	641.72	m2	3273
5	Reinforcement for RCC work bent tied and placed with TMT Fe-500-D or above, 5.497x80=344.88 kg					440	97.08	KG	42715
7	Plastering 1:3:12mm thick								
	Column	4	1	1	4.9	19.6			
	Slab	1	3.3	3.3	1	10.89			
	Beam- Top	4	1.5	0.85	1	5.1			
	Beam- intermediate	4	1.5	1.1	1	6.6			
	Beams- Plinth	4	1.5	0.3	1.1	1.98			
	Total					44.17	406.99	1m2	17977
8	Cement washing DSR 13-43-1, 36.95x1.3204					44.17	69.76	m2	3081
9	White washing DSR 13-61-1, 78.4X1.3204					44.17	149.5	m2	6603
10	Filling with red earth by Contractor.	1	2	2	0.3	1.2	255.35	m3	306
11	Make and Supplying ladder with 50X25mm, 16 gauge rectangular tube to a length of 7 m and fixing one end on the ground with CC and other end resting on RCC slab bent and tied in position. Rate as per DSR item No. 10.16.2					90	183.04	Kg	16474
12	Providing fencing around the tank on the water tank platform made by 50X25mm, 16 gauge GI rectangular tube					80	183.04	Kg	14643
	Total								216343
13	Unforseen charge								657
	Grand Total								217000

(RUPEES TWO LAKH AND SEVENTEEN THOUSAND ONLY)

1,99,000



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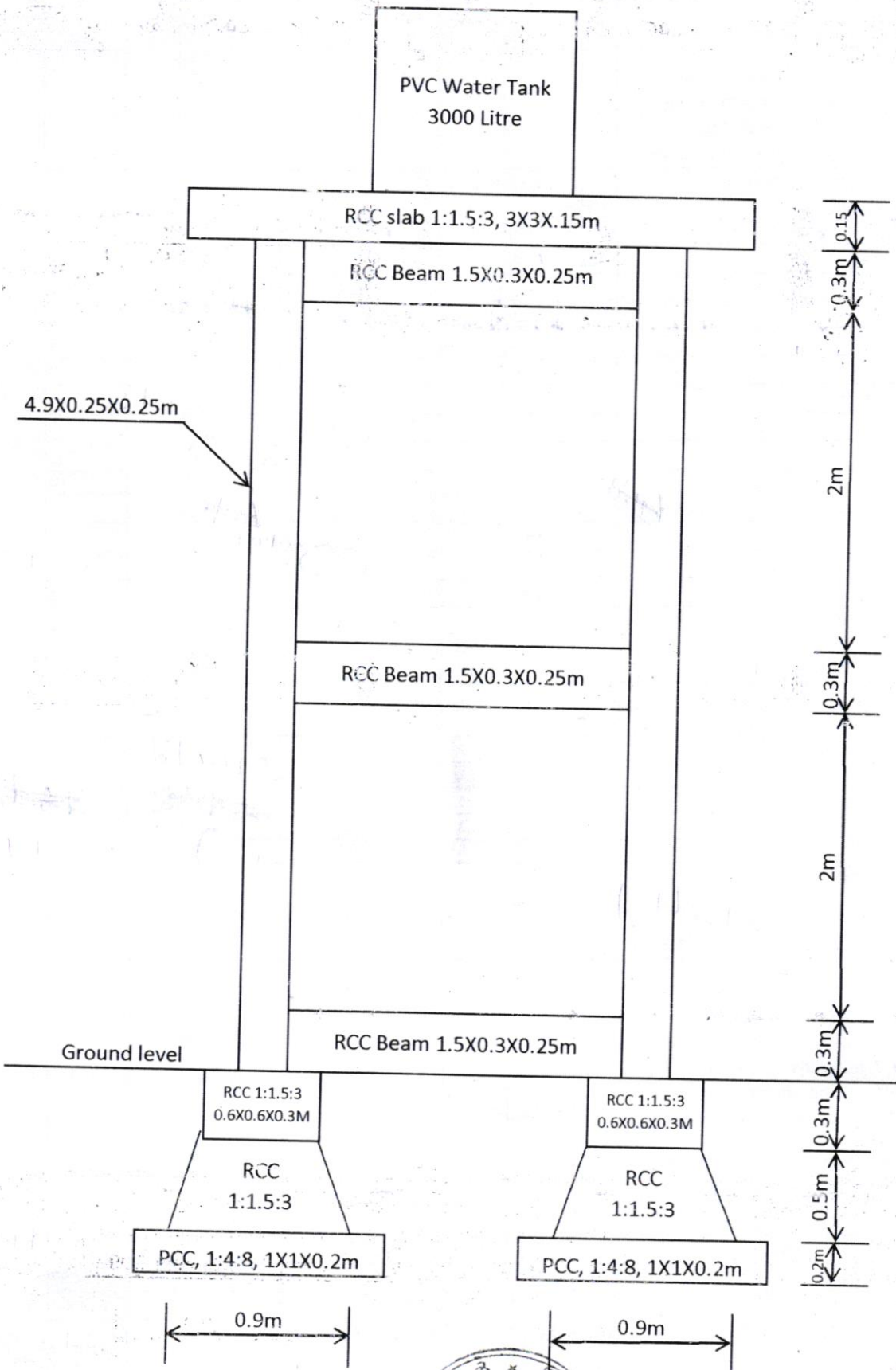
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**WATER TANK PLATFORM FOR WATER SUPPLY SCHEME AT ADICHIKAVALA SC COLONY IN
CHENGALAYI GRAMA PANCHAYATH.**



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 2-ആം ഘട്ടം, താലൂക്ക് ഓഫീസ്
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DATA - DSR-2018

KANNUR DISTRICT COST INDEX - 1.339

Sl. No	DSR item No	Particulars	Unit	Rate as per DSR	Rate in Kannur
1	2.28.1	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 upto 1.5m. For all kind of soil.	M ²	21.15	28.32
2	2.8.1	Earth work excavation in all classes of soil and depositing on bank with intial lead upto 50 m and lift upto 1.5 m. including breaking clods, watering, raming and sectioning of spoil bank etc. complete.	Cum	219	293.24
3	2.9.1	Earth work excavation in ordinary rock, and depositing on bank with intial lead upto 50 m and lift upto 1.5 m. Including breaking clods, watering, raming and sectioning of spoil bank, etc. complete.	Cum	389.05	520.94
5	4.1.2	Cement concrete 1:1.5:3 (1 cement, 1.5 coarse sand(zone III): 3 graded stone aggregate 20mm nominal size) using 20 mm broken stone- all work up to plinth level	Cum	6259.65	8381.67
6	4.1.8	Cement concrete 1:4:8 using 40 mm broken stone.	Cum	5026.1	6729.95
7	4.2.2	Cement concrete 1:1.5:3 using 20 mm broken stone- all work up to floor five level.	Cum	7792.7	10434.43
8	5.1.2	RCC 1:1.5:3 using 20 mm broken stone-all works up to plinth level	Cum	6700.45	8971.9
9	5.2.2	RCC 1:1.5:3 including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. using 20 mm broken stone-all works up to floor five level	Cum	8078.8	10817.51
10	5.3	Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).	Cum	8476.2	11349.63
11	5.22.6	Rainforcement for RCC works bent tied and placed in position with TMT steel of Fe 500 or above.	Kg	72.5	97.08
12	5.9.1	Form work including centering and shuttering for Foundation, footings, bases of columns etc. and labour for taking down after completion of works. (Hire and labour charges)	M ²	348.36	466.45
13	5.9.5	Form work for RCC for lintels, beams, plinth beams, girders etc. and labour for taking down after completion of works. (Hire and labour charges)	M ²	479.25	641.72
14	5.9.6	Form work for RCC for, columns, pillars, piers, abutments, posts, and struts etc. and labour for taking down after completion of works. (Hire and labour charges) lintels, beams, plinth beams etc. and labour for taking down after completion of works. (Hire and labour charges)	M ²	636.95	852.88

15	10.16.2	Steel work in build up, tubular (Round, Square, or rectangular hollow tubes etc) trusses etc., including cutting, hoisting, fixing, in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc complete- in hot finished seamless type tube.	Kg	136.7	183.04
16	11.5	Flooring with pcc 1:2:4, 50 mm thick concrete and over that a coat of cement plastering with cement mortar 1:3, 12 mm thick.	M ²	741.65	993.07
17	13.9.1	Plastering with cement mortar 1:3, (1 cement:3 coarse sand) 12 mm thick one coat.	M ²	303.95	406.99
18	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface. Water thinnable cement primer.	M ²	52.1	69.76
19	13.60.1	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade. Two or more coats on new	M ²	111.65	149.5
20	13.62.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade. Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	M ²	153.8	205.94
21	13.71	Lettering with black Japan paint of approved brand and manufacture per letter per cm height	Letter/C m height	4.1	5.49
		5 Cm height	No	20.5	27.45
		7 Cm height	No	28.7	38.43
22	2.25	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.	Cum	190.7	255.35



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