

PROCEEDINGS OF THE DIRECTOR
GROUND WATER DEPARTMENT, JALAVIJNANA BHAVAN,
AMBALAMUKKU, THIRUVANANTHAPURAM
(PRESENT: Sri. JOHN.V.SAMUEL, IAS)

Sub: Ground Water Department – Kannur - Implementation of Mini Water Supply Scheme Naniyur Nambram SC Colony in Mayyil Grama Panchayath in Kannur District under Groundwater based drinking water supply scheme – sanctioned orders issued.

ORDER NO:- T(1) / 2591/2022/DGW

Dated: 17.05.2022

Read:- Letter No. GW/KNR/856/22, dated 21-04-2022 from District Officer, Ground Water Department, Kannur.

ORDER

As per the letter read, District Officer, Ground Water Department, Kannur has forwarded a proposal with detailed estimate for an amount of Rs. 8,65,000/- for the implementation of mini water supply scheme at Naniyur Nambram SC Colony in Mayyil Grama Panchayath in Kannur 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. 8,60,000/- (Rupees Eight lakhs and sixty thousand only).

After the examining the matter in detail, sanction is hereby accorded to the District Officer, Ground Water Department, Kannur for an amount of Rs. 8,60,000/- (Rupees Eight lakhs and sixty thousand only) for the implementation of mini water supply scheme at Naniyur Nambram SC Colony in Mayyil Grama Panchayath in Kannur District under Groundwater based drinking water supply scheme

The District Officer, Ground Water Department, Kannur 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. 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 fund available under the Head of account "4702-00-102-94 - (01) Ground Water Based Drinking Water Scheme (P)" for the financial year 2022-2023.

sd/-
DIRECTOR

To

1. The District Officer, Ground Water Department, Kannur
2. SE/EE/FO/OC/SF

Forwarded by order


Superintending Engineer (General)

v-17-05

TAILED ESTIMATE FOR MINI WATER SUPPLY SCHEME AT NANIYUR NAMBRAM SC COLONY IN
MAYYIL 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
2	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	1No	22100
3	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
4	Supply of submersible cable 4 mm ² (ISI)	145	90	M	13050
5	Supply 40 mm, 20 Kg/Cm ² UPVC (good quality) pipe inclusive of cost, conveyance etc;	295	72	M	21240
6	Charge for erecting Submersible pump set of up to 3 HP	7742	1	No.	7742
7	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.	4365	1	No.	4365
8	Supplying of Nylon rope for pump erection 14 mm thick good quality <i>(As per actual measurement)</i>	41	90	M	3690
9	Supply and fitting of GI Bend, Union, GM NRV, etc.	1279	1	No.	1279
10	Cost of CI adapter for connecting 40mm UPVC pipe	800	2	No.	1600
11	Electric connection charges including contribution to KSEB, wiring certificate etc complete bill as per actuals(approximately)	5000	1	LS	5000
12	Construction of water tank platform with pump house 2 x 2 x 2.75 m, RCC Colomns, Beams, laterate masonry, plastering, painting etc Complete. <i>(As per actual measurement)</i>	196700 200000	1	No.	196700 200000
13	Supplying and placing of PVC Tank ISI marked Inclusive of cost, conveyance etc.	10.24	3000	Litre	30720
14	Supplying and fitting of PVC Tank connector 63 mm. <i>210</i>	305.00	1	No.	305
15	Supplying and providing 50mm wash out. <i>235+300</i>	535	1	M	535
16	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. <i>Trenching & refilling</i>	262	400	M	104800
17	Supplyin and jointing 65 mm GI pipe for road crossing inclusive of all cost of special and conveyance etc.	529	6	M	3174
18	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. <i>Trenching & refilling</i>	308	150	No.	46200
19	Supplying and providing 50 mm ISI marked PVC pipe (10 kg/cm ²) for distribution Inclusive of all cost of specials and conveyance etc. <i>Trenching & refilling</i>	270	200	M	54000

236.84

94736

20	Supplying, laying and joining 32mm ISI marked (10kg/cm2) PVC pipe for distribution and cable wire protection. Including trenching and refilling.	239	400	M	95600
21	Supplying, laying and joining 25mm ISI marked (10kg/cm2) PVC pipe for distribution and cable wire protection. Including trenching and refilling.	214	400	M	85600
22	Manhole for valve	600	2	M	1200
23	Supply and providing 63 mm PVC Ball valve inclusive of cost and conveyance etc.	340	1	No.	340
24	Supply and providing 50 mm PVC ball valve inclusive of cost and conveyance	300	2	No.	600
25	Supply and providing 40 mm PVC ball valve inclusive of cost and conveyance.	235	2	No.	470
26	Supplying and providing tap with platform etc (0.60m. x 0.30m.)	1807.00	27	No.	48789
27	Writing name board on wall/granite, As per	2500.00	1	No	2500
Total (As per actual measurement)					768515
28	Add 12% as GST component (Exempt II)				92222
29	Expenses for contingencies and unforeseens if any				4263
GRAND TOTAL					865000

764326

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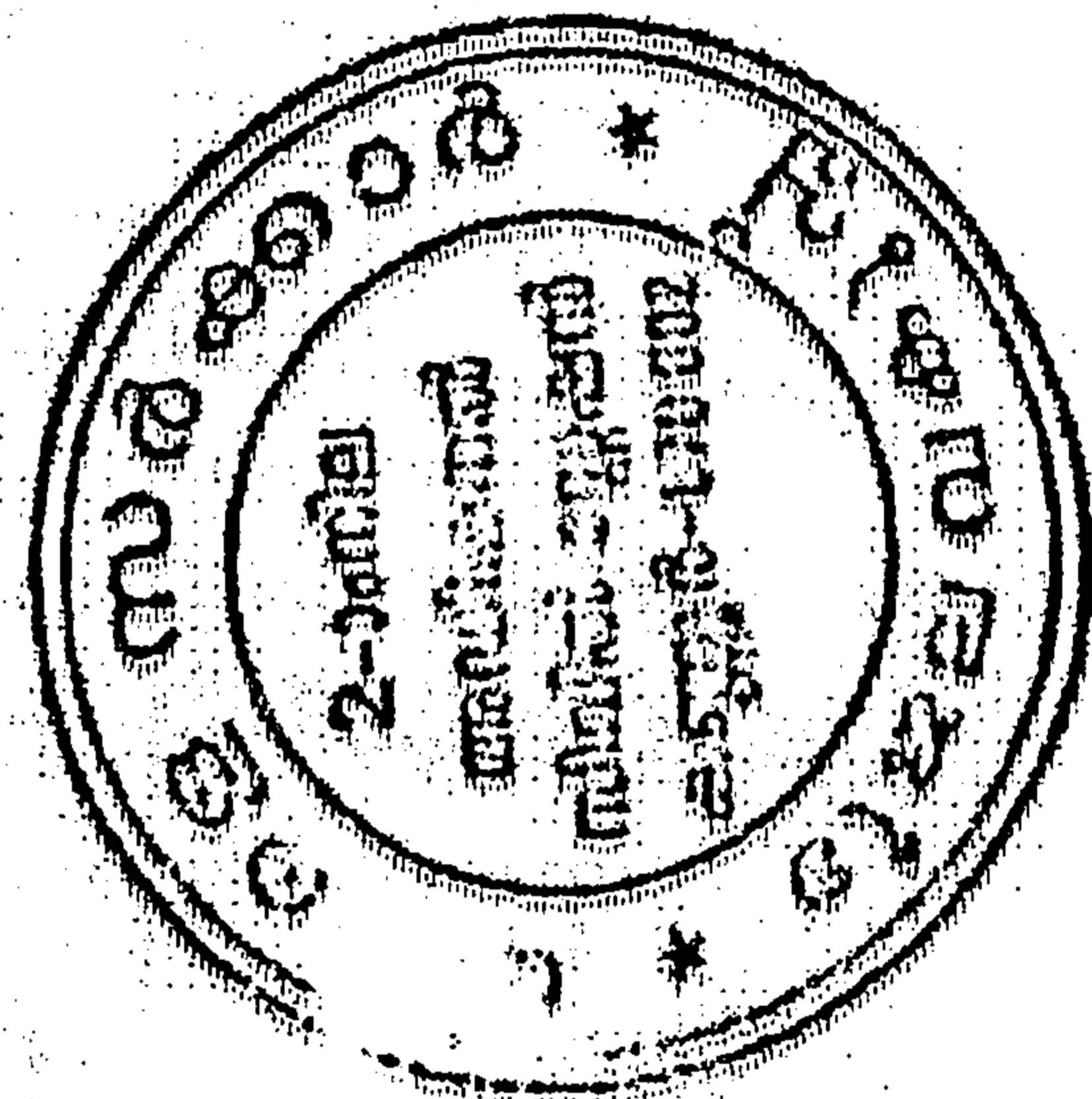
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(RUPEES EIGHT LAKH AND SIXTY FIVE THOUSAND ONLY)

8,60,000

Shaham

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 ഭൂജല വകുപ്പ്
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**DETAILED ESTIMATE OF PUMP HOUSE WITH WATER TANK PLATFORM SIZE 2.00 X 2.00 X 2.75 M AT NANIYUR
NAMBRAM SC COLONY IN MAYYIL GRAMA PANCHAYATH**

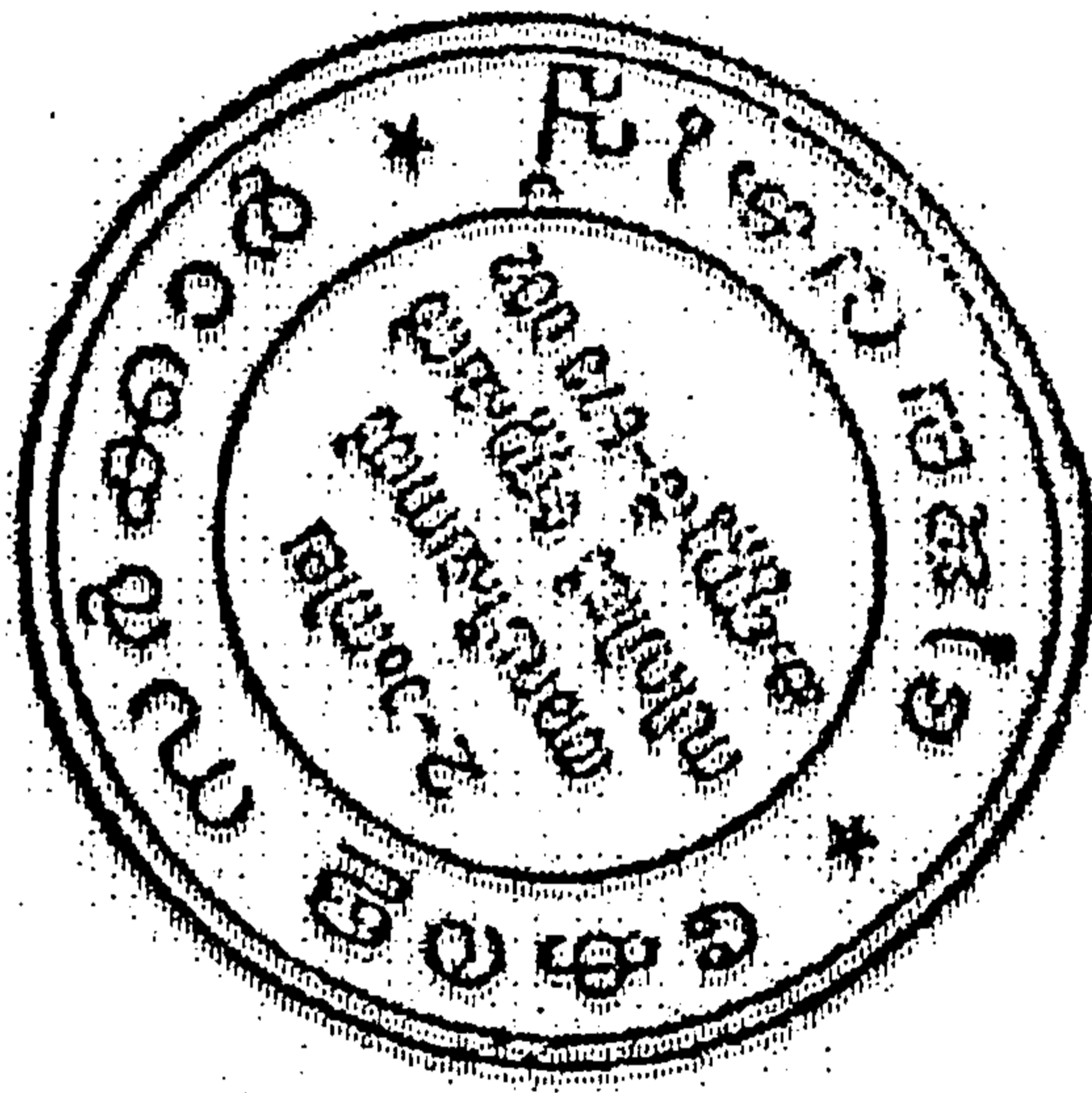
Sl.No	Description pump house	No	L	B	H	Qty	Rate	Unit	Amount
1	Surface dressing of the ground including removing vegetation and in equalities not exceeding 15 CM deep and disposal of rubbish, lead up to 50 m and lift upto 1.5m. For all kind of soil.	1	6	6		36	28.32	m ²	1020
2	Earth work excavation in hard soil for foundation	4	1	1	1	4	219	1m ³	876
3	PCC 1:4:8: using 40mm broken stone	4	1	1	0.2	0.8	6729.95	M ³	5384
4	RCC 1:1:5:3 (1cement:1.5 sand:3 meatal) for foundation footing 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	8971.9	m ³	18141
	Column	4	0.25	0.25	2.6	0.65	10817.5	m ³	7031
	Beams	4	1.5	0.25	0.3	0.45	11349.6	m ³	5107
	Slab- tank platform	1	3	3	0.15	1.35	11349.6	m ³	15322
a)	Form work of footing	4	3.6	0.5	1	7.2			
		4	2.4	0.3	1	2.88			
						10.08	331.13	m ³	3338
b)	Form work of column	4	2.6	1	1	10.4	852.88	m ³	8870
	Form work of slab- water tank platform	1	3.3	3.3	1	10.89		m ²	
	Form work of Beam	4	1.5	1	0.85	5.1		m ²	
						26.39	641.72	m ²	16935
c)	Plinth Beam	4	1.5		0.85	5.1	641.72	m ²	3273
5	Reinforcement for RCC work bent tied and placed with TMT steel of Fe-500D or above. 4.472x80=357.76 kg)					358	97.08	KG	34755
6	Laterate masonry with cement mortar 1:6 (1 cement, 6 coarse sand) for super structure upto 5m height including cost and conveyance of all labour charges etc complete.	1	5.3	2	0.2	2.12	7025.96	m ³	14895
7	Plastering 1:3, 12mm thick	4	1	1	2.75	11			
	Column	1	3.3	3.3	1	10.89			
	Slab- water tank platform.	1	3	3		9			
	slab bottom side	4	1.5	0.85	1	5.1			
	Beam- Top	4	1.5	0.3	1.1	1.98			
	Beams- Plinth	1	13	2		26			
	Wall					63.97	406.99	1m ²	26035
	Total								
8	Cement washing DSR 13-43-1, 36.95x1.3204					63.97	69.76	m ²	4463
9	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade. Two or more coats on new work.					63.97	149.5	m ²	9564
10	Filling with red earth by contractor, DSR.2.25, 190.7X1.339	1	2	2	0.3	1.2	255.35	m ³	306
11	PVC door 2x0.7m with Frame and lock.	1					3000	No	3000

As per measurement

12	Make and supplying ladder with 50X25mm, 16 gauge rectangular tube to a length of 5 m and fixing one end on the ground with CC and other end resting on RCC slab bent and tied in position and fencing on the side of the water tank platform. <i>(as per estimate)</i>					100	1675 216.19 Kg	1895 21619
	Total						18304	18304
13	Unforeseen charges if any							199934
	Grand Total							66
								200000

(RUPEES TWO LAKH ONLY)

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Data Analysis for Laterate masonry. DSR-2018, cost Index-1.339%

Laterate masonry with neatly dressed laterate stone of size 35x20x20 cm or nearest size in cement mortar 1:3 for foundation and basement including all cost of materials, labour charges etc.

Code	Description	Unit	Quantity	Rate	Amount
Details of cost for one cum					
MR	Laterate stone size 35x20x20cm	each	66	39	2574
3.3	Rate as per item number 3.11 of SH ; Mortars	cum	0.0874	4183.05	365.6
9999	Sundries	L.S.	2.73	2	5.46
123	Mason (brick layer) 1st class	Day	0.4	738	295.2
124	Mason (brick layer) 2nd class	Day	0.4	679	271.6
115	Coolie	Day	1.46	558	814.68
101	Bhisti	Day	0.45	617	277.65
Total cost of one cum					4604.19
Add Water Charges @ 1.0%					46.04
Total					4650.23
Add CPOH @ 15.0%					697.53
Total					5347.76
Cost index 33.9% (of 2773.76) excluding the cost of laterate stone.					940.3
Total with Cost index					6288.06
Say for m³					6288.06

Data Analysis for Laterate masonry. DSR-2018, cost Index-1.339%

Laterate masonry with neatly dressed laterate stone of size 35x20x20 cm or nearest size in cement mortar 1:6 for superstructure above plinth level up to the floor two level including all cost of materials, labour charges etc.

Code	Description	Unit	Quantity	Rate	Amount
Details of cost for one cum					
MR	Laterate stone size 35x20x20cm	each	66	39	2574
3.11	Rate as per item number 3.11 of SH ; Mortars	cum	0.0874	4183.05	365.6
9999	Sundries	L.S.	2.73	2	5.46
123	Mason (brick layer) 1st class	Day	0.53	738	391.14
124	Mason (brick layer) 2nd class	Day	0.53	679	359.87
115	Coolie	Day	1.9	558	1060.2
101	Bhisti	Day	0.45	617	277.65
9999	Sundries	L.S.	22.36	2	44.72
TOTAL					5078.64
Add Water Charges @ 1.0%					50.79
Total					5129.43
Add CPOH @ 15.0%					769.41
Total					5898.84
Cost index 33.9% (of 3324.84), excluding cost of laterate.					1127.12
Total with Cost index					7025.96
Say for m³					7025.96

DATA - DSR-2018
KANNUR DISTRICT COST INDEX - 1,339

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 exavation 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
4	2.9.1+2.26.2 Earth work exavation in ordinary rock and depositing on bank with intial lead upto 50 m and lift upto 3 m. Including breaking clods, watering, raming and sectioning of spoil bank, etc. complete. (2.9.1+2.26.2)	Cum	529.75	709.34
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	Cum	8078.8	10817.51
10	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15o 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 Reinforcement 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 apriming coat of approved steel primer, including welding and bolted with special shaped washers etc complete- in hot finished seamless type tube.	Kg	161.46	216.19

131.7 183-04