



Government of Karnataka

**PUBLIC WORKS DEPARTMENT,
NATIONAL HIGHWAYS DIVISION, VIJAYAPURA**



**"WIDENING/RE-CONSTRUCTION TO FOUR LANE FROM
KM 0.000 TO KM 15.870 STARTS NEAR MIRIYAN
TELANGANA/KARNATAKA BORDER AND ENDS AT
CHINCHOLI SECTION OF NH-167N IN KALABURAGI
DISTRICT IN THE STATE OF KARNATAKA UNDER
ANNUAL PLAN 2023-24."**

UTILITY SHIFTING ESTIMATE

NOVEMBER 2023



VISTAARA INFRA CONSULTANTS

7, Opp St.Rock's Church,
Meginapalya, Chelekere,
Kalyan Nagar, Bangalore - 560043

GULBARGA ELECTRICITY SUPPLY COMPANY LTD.

Estimate prepared in the name of "Assistant Executive Engineer, National Highway, Sub-Division, Humnabad" for shifting of HT/LT/EHT/DTC Lines for constructions of 15KM National Highway 4lane (14mtr Width from Center) from Miryan to Chincholi in Chincholi Section of 167N in state of Karnataka in GESCOM CHincholi Section in CHincholi Sub-Division. Under Self Execution

Sl. No.	Particulars	Unit	Qty.	Materials Portion		Labour Portion	
				Rate in Rs.	Amount	Rate in Rs.	Amount
1	M+6 lattice Tower: Fabrication, Galvanizing and structure materials with stubs and all necessary matching material for Road Crossings ie 1.823 MT Per Tower (4 Tower*1.823 MT =7.292 MT) (per MT= 91187+GST 91187*18%=Rs: 107601) rate for one tower=107601*1.823MT=196156 /- .sr: 2021-22, kptcl pg 6,3,3.1	MT	166.000	196156.00	32561896.00		
2	Supply of galvanised bolt and nuts, (.05*7.292=0.3646).sr: 2021-22, kptcl pg 6,3,3.3.	MT	8.3000	115438.00	958135.40		
3	Spike type GI about 3.00 KG in weight (Anticlimbing devise)(per tower ((6kg= 2no))x4 tower=8 no)mc:278910.pg:2,28,4,01.	No	166	191.00	31706.00	25.00	4150.00
4	Erection of Pre Fabricated Steel Structure Including the following a. Evacuation 1.5 Mtr and above in width in Hard Soil (0.74 Cmt x Rs. 389 = Rs. 288/-) b. Filling available excavated earth in side foundation (2.6 Cmt x Rs. 58 = Rs. 151/-) c. Lifting of Excess Earth up to distance of 10 KMs - (1 Cmt x Rs. 294 = Rs. 294/-) d. Providing & Laying in position plain Cement concrete of mix 1:4:8 - (0.27 Cmt x Rs. 5364 {KPWD SR} = Rs. 1448/-) e. Providing & Laying in position concrete with M30 Grade - (0.83 Cmt x Rs. 7022 {KPWD SR} = Rs. 5828/-) f. Providing TMT Steel FE 550 reinforcement for RCC work (70 Kgs x Rs. 69.857 {KPWD SR} = Rs. 4890/-) g. Providing & removing centering, Shuttering - (2.6 Cmt x Rs. 1200 = Rs. 3120/-) h. Handling Charges (fixing of structure to foundation & erection of structure) - Lumpsum - Rs. 10000/- i. Transportation of debries using mini lorry/Tempo - Lumpsum - Rs. 2000/- j. Skilled labour charges for fabrication the structure using CNC bending as per set raiious) - Lumpsum - Rs. 3000/-	No	166.00			31019.00	5149154.00
5	sorting of tower parts made of Fabricated angle (Weight of 1 tower =1823KG, for 166 Towers 166*1.823=302.618MT)Page No:8 slNo:5.a.	MT	302.62			438.00	132546.68
6	setting up of stubs templates and from one location to another location SI No 63 Item no 9 (b) Page no 251 of 11 & 33 Kv SR 2018-19	per location	166.00			569.00	94454.00
7	assembling and Erection of tower including Tightning of bolts and Nuts including loading and unloading at store and site (including wt of stubs) (Weight of 1 tower =1823KG, for 166 Towers 166*1.823=302.618MT) SI No 5.c Page no5 of KPTCL SR 2021-22	MT	302.62			3178.00	961720.00
8	Riveting of tower bolts end heating using acetylene gas and hammering to destroy threads for theft proof/1 tower =700 No of bolts, 166 tower =116200bolts) SI No 5.d Page no 5 KPTCL SR 2021-22	per Bolt	116200.00			15.00	1743000.00
9	Welding of Bolts (1 tower =700 No of bolts, 166 tower =116200bolts) SI No8.e Page no 8. KPTCL SR-21-22	per Bolt	116200.00			15.00	1743000.00
10	KSRB 4-6.1 : providing and removing centring, shuttering, propping etc and removal of form work for foundations, footing, bases of column for mass concrete as per specification No. KBS 4.6.2, (2.16*166=358.56Sqm)	Sqm	358.56			262.00	93942.72
11	KSRB 4-1.1: Providing and laying in position plain cement conncrete of Mix 1:2:4 with OPC @240 Kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum machine mixed , concrete laid inlayers not exceeding 15 cms thick, well compacted, in foundation, including cost of all materials, labour HOM curing complete as per specifications Specification No KBS 4.1, 4.2 page no 13 of KPWD SR 2018-19(1.46*166=242.36CMT)	CMT	242.36			5236.00	1268996.96
12	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightning, cutting, bending , hooking, placing in position, lapping and/ or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labours, HOM of machinery complete as per specifications. Specification No KBS 4.6.3-TMT bars Fe 550(.46*2=0.92)	Tonne	0			72072.00	0.00
13	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M20 for RCC work laid in 15 cms thick layers and well compacted by vibrating,curing for foundation & Sub structure work with all lead and lifts etc, Complete (exclusive of cost of steel and fabrication charges) page no 18 SI No 4.48 of KPWD SR 2018-19(2.84*166=471.44Cum)	Cum	471.44			5444.00	2566519.36
14	RCC Pole - 9.5 Mtr Long, 350/300 Kg WL for 33kv Lines (Material : SR:21-22, mc: 200107,SI.No,P-III,8,1.08..lc no: 46,2.03	No's	0	7627	0	1214	0
15	Double Pole structure for 33kv as per design & drawing. including DP kit, clamps, M.S. Bolts&Nuts with washers excluding poles. SR:21-22, P-VI.Mc : 279103.108,15.3,lc: .LC.PG2,49,2.06.	Set	10	7444	74440	3158	31580
16	33 kv TP Set FOR 9.5 Mtr RCC Poles Including Clamps, Bolts & Nuts With washers, SR:21-22 P-III mc:280015,LC:60,4.05.	Set	0	19924	0	6499	0

	Concreting with material & Labour : Pole Concreting with CC 1:2:4, & 9.5 Mtr support (650x500x1850mm) (Materials + Labour :33.1.8.2.B. SR:21-22. LC:33,1.8.2.	Nos	20	0.00	0	3436	68720
18	Providing Coping for Pole with CC 1:2:4 (As per actuals), 150 mm all around the Pole for an height of 300 mm, for RCC, PSCC Pole. SR:21-22. LC:39,1.8.3.	Nos	20	0.00	0	542	10840
19	Digging of pits : Digging of Pit 2.0 Mtr depth for erection of 9.5 Mtr Long RCC, supports (350 Kg WL for 33KV) (Labour : S, SR:21-22. LC:10,1.3.2.	Nos	20	0.00	0	1657.00	33140
20	33 KV, Guy Clamp, pg.40.5.10, Anchor Rod using 12 mm rounds/Guy Rod - GI, 10 SWG GI Wire (3.251 mm Dia), Std Wt: 28g/KM (120+344+82x5=874) LC: DIGGING OF PIT, (pg.1.25.1.7.1.), Providing cement concrete 1:2:4 for Anchor Rod in Marshy/Black Cotton Soil 600x600x450 mm, pg.41.1.8.4, Fixing of GUY Set with break insulator making use of 7/3.15 mm (7/10 SWG) galvanised steel wire with turn buckle and anchoring arrangement as per approved drawing. (Excluding excavation of PIT) (631+1013+201=1863)	Nos	40	874	34960	1845.00	73800
21	279526 clamps 9.5M rcc poles for 33kv .sl: BVI:111.15.6	Nos	20	115	2300	0.00	0
22	Coyote ACSR conductor. Stringing, fixing Disc insulators to cross arms etc. for plain terrain (Materials : P-III.MC:284116.SL NO:62.7.03SR:21-22 sl no: 136.(1480mtr line x3 wirex3% (sag+jumps))=4600m.LC:82,6.03.	km	3.00	152940	458820	6915	20745
23	PG Clamps to Coyote to Coyote conductor, SR:21-22 P-III mc:285515.	Nos	120.00	404.00	48480	0	0
24	Spiral Earth Electrode (Materials : SR:21-22. P-III MC:281683(26,2.16)LC:51,2.08	Nos	20	248	4960	70	1400
25	33 kV Pin Insulator Shell with pin (Materials : SR:21-229 KPTCL SR MC:8546. 9-9.11	Nos	30	488.64	14659	0.00	0
26	V-Shape X arm for 33 kV (Materials : SR:21-22, P-VI.mc:279016. LC: 64.5.03.	Nos	10	1111.00	11110	122	1220
27	HT ST Support for 33 kV (Materials : SR:21-22, mc:279093,110,15.5, LC:67.5.06	Nos	10	464	4640	81	810
28	GI Barbed wire (12 Mtr/KG)MC:278911 SL:29.4.02.	each	10	93	930		
29	DISC Insulator 90 kN, Ball & Socket type porcelain (Materials : SR:18-19,283018.56.6.1, (kptcl 9.6)	Nos	60	448	26852	0.00	0
30	Strain / Tension clamp for Coyote (Materials :SR:kptcl , 13.1.1.)	Nos	60	993	59580	0.00	0
31	Caution/Danger Board (Materials :613050,SR:21-22 LC: 76.5.15.kptcl, lc: 7.b.	Nos	20	168	3354	54	1080
32	Number plates with pole clamps Bolt & nuts. Sl no : 5.2.kptcl.lc: 7.b.	Nos	20	151	3020	54	1080
33	GI Grounding pipe, B - Class, 42 mm dia, 2.5 Mtr long, 3.2 mm thick with bolt, nut, GI Strips and washer complete Minimum Weight of GI Pipe: 7.3 KG. MC:281674. Sl.No:439.54.01, LC:KPTCL .PG12, 11.C.	Nos	10	770	7700	1899	18990
34	Good Quality well burnt Charcoal for grounding purposes packed in non returnable gunny bag of 30 Kg each. MC:600095. Sl.No:440.54.02.	Nos	10	660	6600	0	0
35	Good Quality Salt for grounding purposes packed in 50 Kg gunny bag. MC:607054. Sl.No:441.54.03.	Bag	10	303	3030	0	0
	TOTAL A:				34317173		14020889
	LABOUR FOR RELEASING OF MATERIALS					90% OF ERRECTION VALUE	
1	Double Pole structure for 33kv as per design & drawing. including DP kit, clamps, M.S. Bolts&Nuts with washers excluding poles.(Dismantling charges in all other cases,90% of erection charges in general) Page.No:21,Sl.No:43. iv	Set	0	0	0	2842	0
2	Labour for relasing the Coyote ACSR conductor.Sl.No82,6.03	km	0.00	0.00	0	5576	0
3	Labour for Releasing of V-Shape X arm of 33 kV Page.No:21,Sl.No:43. iv	No's	0	0.00	0	110	0
4	HT ST Support for 33 kV Page.No:21,Sl.No:43. iv	Nos	0	0	0	73	0
5	ReleasingRCC Pole - 9.5 Mtr Long, 350/300 Kg WL for 33kV LinesPage.No:21,Sl.No:43. iv	No's	0	0	0	2584	0
	TOTAL B:						0
	TOTAL A+B				34317173		14020889

PART -D (RETURN MATERIALS)SCRAP

Sl. No.	Particulars	Unit	Qty.	Materials Portion		Labour Portion	
				Rate in Rs.	Amount	Rate in Rs.	Amount
1	Released Steel from RCC Pole (Skeleton Rods)Mc:700103 Sl.No:732,74.10	Kg	0	31.91	0		
2	Cross Arm, Clamp etc, MC:700104 Sl.No:732,74.10	Kg	0	31.91	0		
3	ACSR COYOTE CONDUCTOR SCRAP , Mc:791101 slno: 730.74.06.(80% of old conductor)	Kg	0	104.3	0		
4	DP Set (2 set)	Kg	0	31.91	0		
	TOTAL:				0		

ABSTRACT

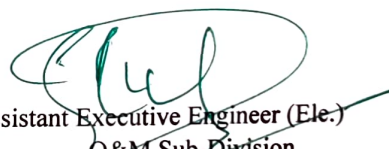
1	Material cost	34317173
2	Labour Charges.	14020889
3	Contingency @ 2% on total materials & labour cost	966761
4	Employees cost @ 20% on material +labour charges (1+2+3)	9667612
5	Statutory charges such as Road cutting charges payable to BBMP or local authorities as per actuals.	0.00
6	Government electrical inspectorate charges as per actuals.	20000
7	Supervision Charges@10%	4833806
8	Compensation cost for tree cutting etc., as per approved norms.and round off.	12442
	Total Cost of Estimate in Rs.	63838683

CERTIFICATE: Certified that, I have personally inspected the spot and prepared this estimate by using common SR 2021-22 (Including GST) rates of GESCOM for most economical & safe way of execution of work.

Report: The estimate amounting to **Rs.59004877 /-** **SIX CRORE THIRTY EIGHT LAKH THIRTY EIGHT THOUSAND SIX HUNDRED EIGHTY THREE RUPEES**) has been prepared in the name of "Assistant Executive Engineer, National Highway, Sub-Division, Humnabad" for shifting of HT/LT/EHT/DTC Lines for constructions of 15KM National Highway 4lane (14mtr Width from Center) from Miryan to Chincholi in Chincholi Section of 167N in state of Karnataka in GESCOM CHincholi Section in CHincholi Sub-Division. Under Self Execution, all the new material and labour provision are made in this estimate with old materials(scrap) to return to store. Hence kindly sanction the estimate at the earliest.


Assistant Engineer (Ele.)
O&M Sub-Division
GESCOM, Chincholi

CERTIFICATE: Certified that, I have personally inspected the spot and got prepared this estimate by using common SR 2021-22 (Including GST) rates of GESCOM for most economical & safe way of execution of work.


Assistant Executive Engineer (Ele.)
O&M Sub-Division
GESCOM, Chincholi

Estimate prepared in the name of "Assistant Executive Engineer, National Highway, Sub-Division, Humnabad" for shifting of HT/LT/EHT/DTC Lines for constructions of 15KM National Highway 4lane (14mtr Width)from Miryan to Chincholi in Chincholi Section of 167N in state of Karnataka in GESCOM CHincholi Section in CHincholi Sub-Division. Under Self Execution.

Estimate No: 341941

Estimated by: Mohan.cnl

Estimated Date: 16/10/2023

Work Type : Shifting & Existing 11KV Line

Work CategorySELF EXECUTION

Execution Type : SELF EXECUTION

Work Nature : Shifting & Existing 11KV Line

Part-A

Sl.No.	Particulars	Unit	Material Cost			Labour Cost			
			Qty	Rate	Amt	Labour Desc	Qty	Rate	Amt
1			0.00	0.00	0.00	a) 150mm around poles for a height of 300mm for RCC,PSC,PCC poles/ I-beam/ Rail steel sections	518.0000	542.0000	280756.0000
2						a) 9mtrs support (500x500x1700mm)	518.0000	3158.0000	1635844.0000
3	200105-RCC Pole-9.0M Long,145 kg WL	Nos.	253.00	7153.00	1809709.00	Erection of RCC/PSC poles 9 to 10 mtr long but in a pit of 1.8 mtr depth	253.0000	863.0000	218339.0000
4						Hard Soil	253.0000	1638.0000	414414.0000
5						Head loading of the pole Above 185 Mtrs	253.0000	104.0000	26312.0000
6						Loading & unloading of 9 mtr RCC/PSC poles	253.0000	106.0000	26818.0000
7						Releasing Of Hard Soil	253.0000	1474.2000	372972.6000
8						Releasing Of RCC/PSC poles 9 to 10 mtr long but in a pit of 1.8 mtr depth	253.0000	776.7000	196505.1000
9	27901205-11 kV Horizontal cross arm wit	Nos.	253.00	668.00	169004.00	Fixing of V-Shape/Horizontal cross arm including single top support Braces and Insulators fixing.	253.0000	122.0000	30866.0000

	278811-11kv Danger board	Nos.	481.00	146.00	70226.00	Fixing Danger Board	481.0000	61.0000	29341.0000
26	27911102-9 Mtr RCC DP Transformer Strct	Nos.	12.00	32553.00	390636.00	Erection of pole Upto 63 kVA with 9 mtrs. RCC pole	12.0000	4249.0000	50988.0000
27						Hard Soil	12.0000	1638.0000	19656.0000
28						Releasing Of Hard Soil	12.0000	1474.2000	17690.4000
29						Releasing Of pole Upto 63 kVA with 9 mtrs. RCC pole	12.0000	3824.1000	45889.2000
30	27911104-9 Mtr RCC DP Transformer Strct	Set	8.00	37594.00	300752.00	Erection of pole 100 to 250 kVA with 9 mtrs. RCC pole	8.0000	4405.0000	35240.0000
31						Hard Soil	8.0000	1638.0000	13104.0000
32						Releasing Of Hard Soil	8.0000	1474.2000	11793.6000
33						Releasing Of pole 100 to 250 kVA with 9 mtrs. RCC pole	8.0000	3964.5000	31716.0000
34	281008-8 SWG G.I.Wire	Kg	360.00	77.85	28026.00				
35	281110-7/10 SWG Guy Wire	Kg	480.00	80.12	38457.60				
36	2811101-Guy with Complete set	Set	80.00	1209.00	96720.00	a) Fixing of GUY Sets with break insulators making use of 7/3.15 mm (7/10 SWG) galvanised steel wire with turn buckle and anchoring arrangement as per approved drawing. (Excluding excavation of PIT)	80.0000	201.0000	16080.0000
37						Hard Soil	80.0000	631.0000	50480.0000
38	2811103- Earthing Materials Type for gr	Nos.	60.00	1733.00	103980.00	Earthing Materials type for grounding	60.0000	735.0000	44100.0000
39						Hard Soil	60.0000	2267.0000	136020.0000
40	283005-11kV Pin Insulator (Shell onl	Nos.	60.00	76.00	4560.00				
41	283040-DISC Insulators 45kN	Nos.	60.00	470.00	28200.00				
42	283055-11kV Pin Insulator (G.I Pin o	Nos.	60.00	69.00	4140.00				
43	289031-PVC	Mtr	150.00	140.80	21120.00				

4	Wire-95 Sq.mm 289032-PVC Wire-120 Sq.mm	Mtr	600.00	180.17	108102.00				
45	289036-PVC Wire-240 Sq.mm	100Mtr	50.00	334.64	16732.00				
46	301107- L.T.Protection kit	Nos.	20.00	1915.00	38300.00	Fixing of LT Protection Kit	20.0000	260.0000	5200.0000
47	301207- For 63 kVA DTC single circuit	Set	5.00	3841.00	19205.00	(a) Wiring of One circuit of LT Wiring Kit for for 25/63/100 KVA DTC to the existing LT protection Kit / Distribution Box via metering box.	5.0000	719.0000	3595.0000
48	302122-11kV Class, Solid core	Set/3 nos.	60.00	1032.00	61920.00	HG fuse 11 kv Solid core type(3 nos)	60.0000	178.0000	10680.0000
49	303200-L.A. 9kV, 5kA, Metal Oxide	Nos.	60.00	578.66	34719.60	Fixing of 3 Nos lightning arrestors including wiring.	60.0000	90.0000	5400.0000
50	304212-11kV G.O.S 200A Single break	Set	60.00	9125.00	547500.00	Fixing of GOS including wiring (11kV SB 200A)	60.0000	805.0000	48300.0000
51	357511-L.T. Electronic Tri- Vector Met	Nos.	20.00	3312.00	66240.00	LT Electroic Tri- Vector Meter 5A, Class-0.5/1.0 Accuracy	20.0000	798.0000	15960.0000
52	358060-With CT ratio 100/5 for 50/63	Set	20.00	6327.00	126540.00	LT Metering Box For Housing ETV Meter with CT	20.0000	650.0000	13000.0000
53	821942- Fencing for DTC of 1 Nos inclu	Nos.	20.00	20000.00	400000.00				
	Total				2506076.20				604233.2000

Part-C

Sl.No.	Particulars	Unit	Material Cost			Labour Cost			
			Qty	Rate	Amt	Labour Desc	Qty	Rate	Amt
54	200105-RCC Pole-9.0M Long,145 kg WL	Nos.	75.00	7153.00	536475.00	Erection of RCC/PSC poles 9 to 10 mtr long but in a pit of 1.8 mtr depth	75.0000	863.0000	64725.0000
55						Hard Soil	75.0000	1638.0000	122850.0000
56						Head loading of the pole Above 185 Mtrs	75.0000	104.0000	7800.0000
57						Loading & unloading of 9 mtr RCC/PSC poles	75.0000	106.0000	7950.0000

	2791002-DP Structure with 9 Mtrs RCC P	Set	75.00	21369.00	1602675.00	Hard Soil	75.0000	1638.0000	122850.0000
11						Releasing Of DP set 9 Mtrs Pole	75.0000	2842.0000	213150.0000
12						Releasing Of Hard Soil	75.0000	1474.2000	110565.0000
13						Same as above using RCC poles 9 mtr to 10 mtr long	75.0000	3158.0000	236850.0000
14	281008-8 SWG G.I.Wire	Kg	1012.00	77.85	78784.20				
15	281058-G.I Earth Strip	Nos.	506.00	40.00	20240.00				
16	2811101-Guy with Complete set	Set	350.00	1209.00	423150.00	a) Fixing of GUY Sets with break insulators making use of 7/3.15 mm (7/10 SWG) galvanised steel wire with turn buckle and anchoring arrangement as per approved drawing. (Excluding excavation of PIT)	350.0000	201.0000	70350.0000
17						Hard Soil	350.0000	631.0000	220850.0000
18	281683-Spiral Earth Electrode	Nos.	328.00	248.00	81344.00	providing spiral earth electrode type earthing along with pole (without charcoal, salt etc.,)	328.0000	70.0000	22960.0000
19	283005-11kV Pin Insulator (Shell onl	Nos.	759.00	76.00	57684.00				
20	283040-DISC Insulators 45kN	Nos.	948.00	470.00	445560.00				
21	283055-11kV Pin Insulator (G.I Pin o	Nos.	759.00	69.00	52371.00				
22	284108-Rabbit ACSR Conductor	Mtr	47000.00	61.52	2891440.00	Above 185 Mtrs	47.0000	69.0000	3243.0000
23						For Rabbit ACSR	47000.0000	3.3000	155100.0000
24	992712-Anti climbing device(12 mtrs/1	Kg	328.00	81.32	26672.96	LabourAnti climbing device(12 mtrs/1kg GI Barbed wire) Lumpsum	328.0000	29.9600	9826.8800
	Total				7658634.16				4368571.5800

Part-B

Sl.No.	Particulars	Unit	Material Cost			Labour Cost			
			Qty	Rate	Amt	Labour Desc	Qty	Rate	Amt

	27901203-4 pin cross arm with pole clam	Nos.	75.00	439.00	32925.00	Fixing of 4 Pin cross arm with insulator and Braces fixing.	75.0000	122.0000	9150.0000
59	2811101-Guy with Complete set	Set	20.00	1209.00	24180.00	a) Fixing of GUY Sets with break insulators making use of 7/3.15 mm (7/10 SWG) galvanised steel wire with turn buckle and anchoring arrangement as per approved drawing. (Excluding excavation of PIT)	20.0000	201.0000	4020.0000
60						Hard Soil	20.0000	631.0000	12620.0000
61	283003-1.1kV Pin Insulator (Shell on	Nos.	200.00	28.00	5600.00				
62	283053-1.1kV Pin Insulator (G.I Pin	Nos.	200.00	37.00	7400.00				
63	283158-NO.8 Strain Insulator	Nos.	200.00	25.00	5000.00				
64	284105- Weasel ACSR Conductor	Mtr	15000.00	37.02	555300.00	Above 185 Mtrs	15.0000	69.0000	1035.0000
65						Stringing of conductor wren, squirrel, weasel, binding of conductor on each insulator and dead ending on strain or disc/strain insulator by means of clamps.	15000.0000	2.4200	36300.0000
Total					1166880.00				266450.0000

Sl.No.		Material	Labour
1	Part A in Rs. :	7658634.16	4368571.58
2	Part B in Rs. :	2506076.20	604233.20
3	Part C in Rs. :	1166880.00	266450.00
	Total	11331590.36	5239254.78

Sl.No.	Other Charges Details			
1	Contingencies 2% on Materials && Labour Charges	331416.90		
2	Employees Contribution 20% on Labour Cost	1047850.96		
3	Government electrical Inspectorate charges as per Actuals	250000.00		
4	Compensation cost fro free cutting etc., as per approved norms	50000.00		
5	GST 18% For Labour	943065.86		
6	GST 18% For Material	2039686.26		

Supervision Charges @ 10 %

3874480.00

Total Estimate cost

25107345.12

Certificate : Certified that I have personally inspected the spot and prepared this estimate as per the current Schedule of rates for most economical and safe way of execution of works.

Report: This estimate is costing of Rs.25107345.12 is prepared Estimate prepared in the name of "Assistant Executive Engineer, National Highway, Sub-Division, Humnabad" for shifting of HT/LT/EHT/DTC Lines for constructions of 15KM National Highway 4lane (14mtr Width)from Miryan to Chincholi in Chincholi Section of 167N in state of Karnataka in GESCOM CHincholi Section in CHincholi Sub-Division. Under Self Execution.CHINCHOLI SECTION_UNIT1.

Assistant Engineer (Electrical)

CHINCHOLI SECTION_UNIT1

Certificate : Certified that I have personally inspected the spot and got prepared this estimate to execute the works using current Schedule of rates in safe way and economically.

Assist Executive Engineer (Electrical)

CHINCHOLI

Total Abstract for carrying out road widening work of 167N near Miryan to Chincholi of length 15km 4 lane.

Se. no.	Particulars.	Estimate.
1.	Estimate Part - I	6 3838 683 /—
2.	Estimate Part - II	25107345 /—
Grand Total :-		88946028 /—

In words: Eight Crore Eighty Nine Lakh Forty Six thousand Twenty Eight Rupees Only.

(S.O CME).



**GOVERNMENT OF KARNATAKA
RURAL DRINKING WATER SUPPLY & SANITATION
DIVISION KALABURAGI**

**ESTIMATE PREPARED IN THE NAME OF "ASSISTANT EXECUTIVE
ENGINEER, NATIONAL HIGHWAY, SUB-DIVISION, HUMANABAD" FOR
SHIFTING OF WATER SUPPLY BOREWELLS, PUMPING MACHINERY, PUMP
HOUSE AND DISTRIBUTION PIPELINE AT KALLUR-ROAD VILLAGE IN
CHINCHOLI TALUKA**

ESTIMATE COST: RS.29.00 LAKHS

Under Head of Account:

**ASSISTANT EXECUTIVE ENGINEER
RURAL WATER SUPPLY & SANITATION SUB DIVISION,
CHINCHOLI**

GENERAL REPORT

NAME OF WORK:- Estimate Prepared in the name of "Assistant Executive Engineer, National Highway, Sub-Division, Humanabad" for shifting of Water supply Borewells, Pumping Machinery, Pump house and Distribution Pipeline at Kallur-Road village in Chincholi Taluka

Report accompanying an estimate for Estimate Prepared in the name of "Assistant Executive Engineer, National Highway, Sub-Division, Humanabad" for shifting of Water supply Borewells, Pumping Machinery, Pump house and Distribution Pipeline at Kallur-Road village in Chincholi Taluka

This work Estimate is Prepared for Shifting the belows provisions to Suitable place for of water supply to Kallur road village During the Construction of National Highway Road from Chincholi town to Tandoor Road in Chincholi Taluka.

This work is approved under having provision Grant of **Rs.29.00** lakhs.

The following provisions are made in this estimate.

1. Drilling of Borewell 3+1 Nos
2. Distribution Pipeline
3. Pumping Machinery 2. nos
4. Pump House 2.nos

This estimate is prepared by adopting BWSSB(Vol-5 for the year 2021-22 Early approval is Required.


Section Officer

Asst.ExecutiveEngineer
RDWS&S Sub-Division
Chincholi

ABSTRACT

Name of work:- Estimate Prepared in the name of "Assistant Executive Engineer, National Highway, Sub-Division, Humanabad" for shifting of Water supply Borewells, Pumping Machinery, Pump house and Distribution Pipeline at Kallur-Road village in Chincholi Taluka

S.No.	Description of Works	Amount
1	Provision of Detailed Estimate for Bore Well 200 mtr Depth(3+1)	763816.80
2	Provision of Detailed Estimate for Distribution Pipeline Both side of main Road in Kallur-Road village	943706.00
3	Estimate for Providing & Commissioning of Pump-Motor 7.5HP-120 LPM @ 132M = 12 STG OUTLET Dia-2.00"	207900.00
4	Estimate for Providing & Commissioning of Pump-Motor 7.5HP-90 LPM @ 165M = 15 STG OUTLET Dia-2.00"	234700.00
	Sub Total Rs.	2150122.80
	Add for GST 18%	387022.10
	Total	2537144.90
	Add Supervision Charge of 10% of Rs.	253715.00
	Add Miscellaneous and Rounding Off	109140.10
	Grand Total in Rs.	2900000.00


Section Officer
Chincholi

Assistant Executive Engineer
RDW&S Sub Div Chicholi

Sub-Estimate for drilling of Borewell.

Sl. No.	SSR/Pg.No./ It.No.	Description	Qty.	Unit	Rate	5% A.W.	Amount
1	BWSSB SOR 21-22 P-151 I 1 C-0010	Sinking of Borewell of 165mm dia clear using super fast hydraulic Rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden. Fixing of casing pipes, collars & cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc, complete including yield testing at the final depth with a minimum working compressor for one hour (Excluding cost of casing pipes, collars, cap etc. complete)					
		A) 0 to 50.00 mtrs	50.00	Rmtr	290.00	304.50	15225.00
		B) 50 to 100.00 mtrs	50.00	Rmtr	364.00	382.20	19110.00
		C) 100 to 150.00 mtrs	50.00	Rmtr	387.00	406.35	20318.00
		D) 150 to 200.00 mtrs	50.00	Rmtr	449.00	471.45	23573.00
2	BWSSB SOR 21-22 P-154 I 32 C-0160A	Supply of ISI mark 175mm nominal bore, plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m prices include Collar-Medium duty					
			12.00	Rmtr	1933.00	2029.65	24356.00
3	BWSSB SOR 21-22 P-155 I 34 C-0170A	Providing and laying at site of work MS casing caps as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge					
			1	Each	164.00	172.20	172.20
4		Providing and fixing 160mm dia Filter Casing pipe					
	BWSSB SOR 21-22 P-139 M-150L	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete 6KG-140 MM DIA					
		For Perforation charges		Rmtr	0.00		
			200.00	Rmtr	420.00	441.00	88200.00
					Total =Rs.		190954.20
		Grand total for	Nos.	3	+	1	763816.8


 Section Officer

ASS.EXECUTIVE ENGINEER
 RDW&S Sub Division Chincholi

ABSTRACT & DETAILED ESTIMATE FOR PUMPING MAIN

S.NO.	Item Code	Description	No.	Length	Breadth	Depth	Qty	Unit	Rate	5% A.W.	Total
1	CSR 21-22 P 10 I-1.17 & 1.19	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & boning rods at every 100 mm wherever necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required, utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata.									
	1.17.1	Ordinary/Hard soil both side of main road (L/S 850mtr. + R/S 800mtr.) from Chincholi to Tandoor Road									
			1	1650	0.60	0.40	396.00	Cum	194.00	203.70	80665.2
							396.00				
	1.19.1	Ordinary Rock (without blasting) both side of main road (L/S 850mtr. + R/S 800mtr.) from Chincholi to Tandoor Road									
			1	1650	0.60	0.50	495.00	Cum	342.00	359.10	177754.5
							495.00				
2	BWSSB SOR 21-22 P-63 I-2 A107B	Providing murrum or gravel bedding for the pipeline including watering and consolidation by punners etc. complete with all lead and lift. (in black cotton soil and rock reaches).									
			1	1650	0.60	0.15	148.50	Cum	365.00	383.25	56912.625
3	BWSSB 2021-22 PAGE NO 121 SOR CODE-K070	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-2016 with latest ammendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials with electrofusion welding, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bedns, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. Note: Upto 110mm dia Coil shall be used. For Grade PE100 PN 8.0 :									
	K070B	75 mm dia pipe	1	550			550	Rm	213.06	223.71	123042.15
		90 mm dia pipe	1	400			400	Rm	277.38	291.25	116499.60
		110 mm dia pipe	1	200			200	Rm	406.02	426.32	85264.20
		125 mm dia pipe	1	200			200	Rm	502.50	527.63	105525.00
		140 mm dia pipe	1	300			300	Rm	615.06	645.81	193743.90

S.NO.	Item Code	Description	No.	Length	Breadth	Depth	Qty	Unit	Rate	5% A.W.	Total
4	BWSSB 2021-22 PAGE NO 130&131 I.NO.17	Supplying and installation of Class SN8 Double Wall Corrugated HDPE pipe Specials outer wall corrugated and inner wall smooth piping system in accordance with IS 16098 part 2 and conveying to work site and lowering into trenches, laying true to line and level and perfect linking at joints with the help of two "O" rings and a coupler of suitable size, including loading and unloading at both destination including jointing with all labour, all lead and lift including encasing the special around to a depth of not less than 15 cm with screened soft soil available from the excavated soil. The testing commissioning including necessary hydraulic test to the required pressure as per ISS shall be done (the contractor shall have to make his own arrangement for procuring water for testing) [Vol-5: WS & UW SR 2021-22 Chapter: 11 Item No:17, K140 Pg.No:130,131]									
		75 MM ELECTRO FUSION COUPLER					10	Nos	179.00	187.95	1879.5
		90 MM ELECTRO FUSION ELBOW					8	Nos	288.00	302.40	2419.2
											943705.87
								Say			943706.00



Section Officer

Assistant Executive Engineer
RDW&S Sub Division Chincholi

Estimate for Providing & comissoining of Pump-motor from Exi Bore Well-3To Exi OHT

Sl No.	SSR/Pg.No./ It.No.	Item of work	No.	L	W	D	Qty	Unit	Rate	5% A.W.	Amount
		Pumpset									
1	BWSSB SOR 21-22 P-159A TO 161A I-11 TO 21	Providing, supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000, 3Phase, SS Bowl & Impeller with Low volt Motor as per specifications, as per necessary ammendments and instructions of engineer incharge of work. For 10 HP									
		7.5 HP-120 LPM @ 132 M=12 STG OUTLET DIA-2.00"					1	Each	41986.00	44085.30	44085.00
2	BWSSB SOR 21-22 P-163 I-34 P320A	Supply and delivery at site 50mm(2") dia heavy duty unplasticized PVC Column pipes with heavy duty collers, rubber profile ring, vibration control profile ring, freezing and turbulence free leak proof EPDM ring with ISI mark with its latest ammendments									
		Class-C (HEAVY) 50mm					100.00	Mtr.	575.00	603.75	60375.00
3	BWSSB SOR 21-22 P-161 I-22 P230D	Supply and delivery at site Brand new best make PVC insulated cable of Flat 3 core (sheathed) of nominal cross sectional area as per IS 694-1990 with ISI Mark and as per its latest ammendments.									
		1x3x6 Sq.m					120.00	Mtrs	210.00	220.50	26460.00
4	BWSSB SOR 21-22 P-162 I-28 P260A	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest ammendments									
		50 mm					1	Each	1275.00	1338.75	1338.75
5	BWSSB SOR 21-22 P-162 I-27 P250A	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest ammendments									
		Size 50 mm					1.00	Mtrs	1250.00	1312.50	1313.00
6	BWSSB SOR 21-22 P-162 I-29 P270B	Supply, installing, testing and commissioning COMMON control panel consisting of the following INCOMING: 1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrcal Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no Indoor type									
		6 to 10 HP centrifugal pump					1	Each	14250.00	14962.50	14963.00
7	BWSSB SOR 21-22 P-162 I-31 P290A	Supply and delivery at site best indigenous brand new power capacitor as per IS 2834/1986 with latest ammendments with KPTCL authorities and erection, electrification and commissioning of the same at the location of respective pump sets									
							5	KVAR	550.00	577.50	2888.00
8	BWSSB SOR 21-22 P-162 I-32 P300A	Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest ammendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box.						1	1250.00	1312.50	1313.00
9	BWSSB SOR 21-22 P-162 I-38 P360A	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges, tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.									
							1	job	6150.00	6457.50	6458.00

Sl No.	SSR/Pg.No./ It.No.	Item of work	No.	L	W	D	Qty	Unit	Rate	5% A.W.	Amount
10	BWSSB SOR 21-22 P-162 I- 39 P370A	Labour charges for Erection of indoor type panel board and meter board units with all necessary materials and labour tools and equipments including providing cement concrete foundation bed etc., complete. as per specifications, with testing of as per instructions of engineer in-charge of work						Job	1250.00	1312.50	1312.50
	BWSSB SOR 21-22 P-163 I- 43 P400A	Providing main connection from pole - PVC insulated sheathed steel wire cable as per IS 1554/ 1988 with latest amendments with ISI mark from KPTCL pole to meter board unit.									
11		3½ x 10 sqmm					20	mtr.	135.00	141.75	2835.00
		EARTHING									
12	BWSSB SOR 21-22 P-162 I- 45 P430A	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to be established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia.						1	3750.00	3937.50	3937.50
		PUMP HOUSE									
13	BWSSB SOR 21-22 P-136 I- 45 M070A	RCC hume pipe Circular pump house: Supplying precast RCC Circular Hume pipe pump house with M.S door and RCC conical roof as per specification and drawings - Internal dia Mtr. 1200 mm & height of 2.5 Mtr. With Wall thickness 65mm						1	16401	17221.05	17221.05
14	BWSSB SOR 21-22 P-136 I- 5.3 M080A	Erection and positioning of RCC Hume pipe pump house/Cistern on size stone masonry platform including transportation charges and handling, finishing with all necessary tools, plants and materials etc., complete as directed by the Engineer in charge of the work						1	1882	1976.10	1976.10
15	(CSR 21-22 PN- 6 IN-1.5)	Earth work excavation by manual means for drains, canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work.									
		1.7 1.7 0.6 1.734 cum						cum	229	240.45	416.94
16	CSR 21-22 P- 15 I-2.1.3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates									
		1.7 1.7 0.15 0.4335 cum						cum	5752	6039.60	2618.17

Sl No.	SSR/Pg.No./ It.No.	Item of work	No.	L	W	D	Qty	Unit	Rate	5% A.W.	Amount
17	CSR-21-22, PN 81 I.N.-2.4.1)	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)									
			1.6	1.6	0.9	2.304	cum	cum	6096.00	6400.80	14747.44
18		Towards Electrification charges (GESCO) & Miscellaneous.									
19	[Vol-5: WS & UW Chapter: 8 Item No: 21.2, H220B Pg.No:114].	Providing two coats of water proof cement painting with approved colour and shade over one coat of primer including necessary scaffolding and scrapping of old paint and stain with wire brushes and cleaning of paint stains etc. wherever necessary for old RCC over head tanks with all lead and lifts etc. complete for: Tanks staging above 6 m and upto 9 m									
		In side	1	3.142	1.2	2.5	9.43	SQM			
		Out side	1	3.142	1.4	2.5	11.00	SQM			
		Pump house Cap	2	0.785	1.8	1.8	5.09	SQM			
		Deductions:	-2	1.8		0.6	-2.16	SQM			
					Total		23.35	SQM	146	153.30	3579.52
20									Total Rs.		207837.97
									Say		207900.00
									1		207900


Section Officer

Assistant Executive Engineer
RDW&S Sub Division Chincholi

Estimate for Providing & comissoining of Pump-motor from Pro. Bore Well To Pro. OHT

Sl No.	SSR/Pg.No./It.No.	Item of work	No.	L	W	D	Qty	Unit	Rate	5% A.W.	Amount
		Pumpset									
1	BWSSB SOR 21-22 P-159A TO 161A I-11 TO 21	Providing, supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000; 3Phase, SS Bowl & Impeller with Low volt Motor as per specifications, as per necessary ammendments and instructions of engineer incharge of work. For 10 HP									
		7.5 HP-90 LPM @ 165 M=15 STG OUTLET DIA-2.00"					1	Each	44012.00	46212.60	46213.00
2	BWSSB SOR 21-22 P-163 I-34 P320A	Supply and delivery at site 50mm(2") dia heavy duty unplasticized PVC Column pipes with heavy duty collers, rubber profile ring, vibration control profile ring, freezing and turbulence free leak proof EPDM ring with ISI mark with its latest ammendments									
		Class-C (HEAVY) 50mm					130.00	Mtr.	575.00	603.75	78488.00
3	BWSSB SOR 21-22 P-161 I-22 P230D	Supply and delivery at site Brand new best make PVC insulated cable of Flat 3 core (sheathed) of nominal cross sectional area as per IS 694-1990 with ISI Mark and as per its latest ammendments.									
		1x3x6 Sq.m					150.00	Mtrs	210.00	220.50	33075.00
4	BWSSB SOR 21-22 P-162 I-28 P260A	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest ammendments									
		50 mm					1	Each	1275.00	1338.75	1338.75
5	BWSSB SOR 21-22 P-162 I-27 P250A	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest ammendments									
		Size 50 mm					1.00	Mtrs	1250.00	1312.50	1313.00
6	BWSSB SOR 21-22 P-162 I-29 P270B	Supply, installing, testing and commissioning COMMON control panel consisting of the following INCOMING: 1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrcal Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no Indoor type									
		6 to 10 HP centrifugal pump					1	Each	14250.00	14962.50	14963.00
7	BWSSB SOR 21-22 P-162 I-31 P290A	Supply and delivery at site best indigenous brand new power capacitor as per IS 2834/1986 with latest ammendments with KPTCL authorities and erection, electrification and commissioning of the same at the location of respective pump sets									
							5	kVAR	550.00	577.50	2888.00
8	BWSSB SOR 21-22 P-162 I-32 P300A	Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest ammendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box.									
							1		1250.00	1312.50	1313.00
9	BWSSB SOR 21-22 P-162 I-38 P360A	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges, tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.									
							1	job	6150.00	6457.50	6458.00

[illegible]

No./	Item of work	No.	L	W	D	Qty	Unit	Rate	5% A.W.	Amount
		1.6	1.6	0.9	2.304	cum	cum	6096.00	6400.80	14747.44
	Towards Electrification charges (GESCOME) & Miscellaneous.									
5: WS & Chapter: 8 No: 21.2, 20B o: 114].	Providing two coats of water proof cement painting with approved colour and shade over one coat of primer including necessary scaffolding and scrapping of old paint and stain with wire brushes and cleaning of paint stains etc. wherever necessary for old RCC over head tanks with all lead and lifts etc. complete for: Tanks staging above 6 m and upto 9 m									
	In side	1	3.142	1.2	2.5	9.43	SQM			
	Out side	1	3.142	1.4	2.5	11.00	SQM			
	Pump house Cap	2	0.785	1.8	1.8	5.09	SQM			
	Deductions:	-2	1.8		0.6	-2.16	SQM			
				Total		23.35	SQM	146	153.30	3579.52
	Total Rs.									234693.97
	Say									234700.00
	1									234700


Section Officer

Assistant Executive Engineer
RDW&S Sub Division Chincholi