

CWSS TO 135 RURAL HABITATIONS IN VAIYAMPATTI AND MARUNGAPURI UNIONS OF TRICHY DISTRICT.

GENERAL ABSTRACT

SL. NO	DESCRIPTION	AMOUNT
1	PUMPING MAIN, FEEDER MAINS AND BRANCHES	264085000
2	CONSTRUCTION OF SUMPS	8540000
3	CONSTRUCTION OF PUMP ROOMS	6833000
4	SUPPLY, DELIVERY AND ERECTION OF PUMP SETS	11288000
5	CONSTRUCTION OF SERVICE RESERVOIRS & D SYSTEM & INLET CONNECTION TO EXISTING SERVICE RESERVOIRS	7908703
6	CONSTRUCTION OF STAND POST	9300000
7	PROVISION FOR DISINFECTION ARRANGEMENTS	1000000
8	PROVISION FOR SCADA ARRANGEMENTS	200000
9	PROVISION FOR ROAD RESTORATION CHARGES AND RAILWAY CROSSINGS	30793800
10	PROVISION FOR SURGE ANALYSIS AND PROVIDING SURGE PROTECTION ARRANGEMENTS	1000000
11	PROVISION FOR LAND ACQUISITION	268877
12	PROVISION FOR TELEPHONE CONNECTIONS WORKS	100000
13	PROVISION FOR SEPARATE ELECTRICAL FEEDER MAIN ARRANGEMENTS	7000000
14	ANNUAL MAINTENANCE CHARGES EXCEPT ELECTRICAL ENERGY CHARGES	7965000
	SUB TOTAL I	356282380
	PROVISION FOR UNFORSEEN ITEM OF WORKS at about 2.5 %	8893553
	PROVISION FOR PETTY SUPERVISION AND CONTINGENCIES at 1 %	3562824
	SUB TOTAL II	368738757
	CENTAGE CHARGES at 13 %	47936038
	SUB TOTAL III	416674795

Detailed Project Report for Providing CWSS to 135 Rural habitations in Vaiyampatti and Marungapuri Unions of Trichy District (utilizing the bulk provision made in the proposed CWSS to Natham, Nilakottai, Ammayanaickanur TPs and 1276 Rural habitations in Dindigul District with bulk provision to Gandhigram University with River Cauvery as source)

TECHNICAL REMARKS

- The construction materials such as cement ,steel and water to be used in the work should be as per I.S. Specification.
- Load test should be conducted to ascertain the S.B.C. of the soil in Sump sites and SR sites and foundation may be modified suitably and got it approved by the competent authority before taking up works.
- Permission for all inter department related works should be obtained, before taking up the work for execution.
- Action may be taken to alienate / acquire the lands required for all the infrastructures before taking up the work.
- The Site for Construction of Pump house, Sumps and OHT may be taken over by TWAD Board before taking up work.
- The foundation of all structures including pipe carrying bridges etc. may be suitably revised during execution based on the nature of soil at that particular site.
- The expansion joints for the pipeline may be provided wherever found necessary.
- Structural designs of the structural components should be got approved from the Superintending Engineer before commencement of works.
- The grade of concrete may be provided as given in the estimate and mix design for various grades may be approved by the Superintending Engineer.
- The cube tests prescribed as per I.S. Codes should be conducted during execution.
- Sufficient and necessary number of Sluice valves, Scour valves and Air valves may be fixed in the pumping main, Branch Main etc., to suit the site conditions during execution as per type design.
- Sand cushioning may be provided in the alignment of the pumping main wherever found necessary.
- Surge protection arrangements may be provided in the pumping main during execution to suit the profile and alignment of the pumping main.

14.12.16
Chief Engineer(i/c),
TWAD Board / Thanjavur. 3/8
14.12.16

SL. NO	DESCRIPTION	AMOUNT
	PROVISION FOR PRICE ESCALATION @ 5% OF SUBTOTAL III FOR 1st YEAR	20833740
	SUB TOTAL IV	437508535
	PROVISION FOR PRICE ESCALATION @ 5% OF 2nd YEAR (70% OF SUB TOTAL IV)	15312799
	GRAND TOTAL - I	452821334
	PROVISION FOR TWAD TESTING CHARGES @ 0.1% FOR MATERIAL	452821
	PROVISION FOR PIPE TESTING @ 0.23 % FOR PVC PIPE AND FOR MS/DI/CI PIPES	351882
	LABOUR INSURANCE @ 1 % OF Basic Cost ie Sub Total - I	3562824
	ANNUAL MAINTENANCE COST-ELECTRICAL ENERGY	1425000
	GRAND TOTAL - II	458613861
	INVESTIGATION ESTIMATE COST @ 1 %	4586139
	GRAND TOTAL	463200000

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