



TRANSMISSION CORPORATION OF TELANGANA LIMITED

ABSTRACT

Lift Irrigation Schemes – Extension of power supply (for a load of 141.50MW) to the proposed Pumping stations at Chelmeda-Khurd(V), Lingampally(V) in Munipally (M) & Hoti-Khurd(V) in Zaheerabad (M) under Sangameshwara Lift Irrigation Scheme in Sangareddy District – **Bulk Load Works - Administrative Approval** – Accorded.

T.O.O. (CE-LIS) Ms.No.1418

Dt.22 .06.2022

Read the following:-

Ref: Lr.No.CE/I/SRD/DCE/DEE1/AEE2/SLIS/1560, Dt.03.12.2021

PROCEEDINGS:

1. The Chief Engineer/I& CAD Dept./ Sangareddy vide reference cited above has informed that, the Government of Telangana has accorded Administrative approval (vide G.O.Ms.No.36, Dt.23.09.2021) to create an ayacut of 2.19 Lakhs Acres by lifting 12TMC of water from the foreshore of Singoor Reservoir (R/S) to irrigate the upland areas covering 231 Villages in 11 Mandals in Sangareddy District under Zaheerabad, Andole and Sangareddy Constituencies under Sangameshwara Lift Irrigation Scheme.
2. In this regard, the Chief Engineer/I& CAD Dept./Sangareddy has requested for extension of power supply to the following newly proposed Lift Irrigation pumping stations duly furnishing the following Power requirement details.

Sangameshwara Lift Irrigation Scheme:

Sl. No	Name of Pump house	Location	No. of Pumps X Rating of each pump	Total power Required incl. Aux. Load 0.5MW
1	PS-1 @ Chelmeda Khurd	Chelmeda Khurd (V), Munipally (M), Sangareddy (Dist.)	9 Nos x7 MW (with Static head of 61.85 m Stage-I) and 3 Nos x6 MW (with Static head of 64.05 m Stage-II)	$(9 \times 7 + 3 \times 6) + 0.5$ = 81.50MW
2	PS-2 @ Lingampally	Lingampally (V), Munipally (M), Sangareddy (Dist.)	3 Nos x7 MW (with Static head of 85.94 m Stage-I) and 4 Nos x7 MW (with Static head of 68.64 m Stage-II)	$(3 \times 7 + 4 \times 7) + 0.5$ = 49.50MW
3	PS-3 @ Hoti-Khurd	Hoti-Khurd (V), Zaheerabad (M), Sangareddy (Dist.)	2 Nos X 5 MW (with Static head of 44.20 m)	$(2 \times 5) + 0.5$ = 10.5MW
TOTAL POWER REQUIREMENT				141.50 MW

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3. After careful consideration, TSTRANSCO has approved the Scheme at a cost of **Rs.20282.014 Lakhs** (Rupees Two Hundred and Two Crores Eighty Two Lakhs and One Thousand Four Hundred Only) including 10% overhead charges for the works of extension of H.T supply to proposed Chelmeda-Khurd(V), Lingampally(V) in Munipally (M) & Hoti-Khurd(V) in Zaheerabad (M) pumping stations under Sangameshwara Lift Irrigation Scheme for a Total C.M.D of **148947.40KVA** as **Bulk Load Works** as detailed below. Considering the above, the estimated cost of the scheme is as detailed below:

a)	Scheme cost for Bulk load works	-	18792.540Lakhs
b)	Development Charges	-	(+) 1489.474Lakhs
	@ Rs.1000/- per KVA for 148947.40KVA		
	Total		Rs. 20282.014 Lakhs
	** Security Deposit Charges to be paid to TSSPDCL		1490.374 Lakhs
	@ Rs.1000/- per KVA for a load of 148947.40KVA		

The above charges of **Rs.1490.374 Lakhs which includes connection charges @ Rs30,000 per connection are required to be paid to TS SPDCL by I&CAD, Govt. of Telangana, at the time of release of service connection.

4. The salient features of the Scheme are:

Sl. No.	Description	Amount in Rs.lakhs.
1	Developmental Charges @ Rs.1000/KVA for a total CMD of 148947.40KVA (for Chelmeda-Khurd, Lingampally & Hoti-Khurd Pump houses)	1489.474
2	Erection of 220/132/11kv LI Sub-Station at Chelmeda Khurd (V) with 220/132kV, 2x160MVA PTRs and 132/11kV, 3x60MVA PTRs with 2No's metering Bays at 132kV level including 4Nos 220kV Feeder Bays & 2Nos 132kV Feeder Bays.	4950.97
3	Erection of new 220kV DC line from existing 220/132kV Sadasivapet SS to now proposed 220/132/11kV SS at Chelmeda Pump House for a line length of 12.5KM	1908.95
4	Erection of new 2Nos 220kV Feeder Bays at 220kV SS Sadasivapet for 220/132/11kV Chelmeda SS.	662.99
5	Replacement of existing 220kV DC line of single Moose conductor from 400/220kV Shankarpally SS to 220/132kV Sadasivapet SS with HTLS Conductor (520mm ² ACCC) for a line length of 38.0KM.	6210.66
6	Erection of 132/11kv LI Sub-Station at Lingampally (V) with 132/11kV, 2x60MVA PTRs with 2No's metering Bays including 4Nos 132kV Feeder Bays	1204.60
7	Erection of 132kV DC line (9 KM) from proposed 220/132/11kV LI SS at Chelmeda Khurd Pump House to now proposed 132/11kV LI SS at Lingampally Pump House.	942.65
8	Erection of 132/11kv LI Sub-Station at Hoti-Khurd (V) with 132/11kV, 2x16MVA PTRs with metering Bay including 2Nos 132kV Feeder Bays.	923.90
9	Erection of 132kV DC line (19 KM) to the proposed 132/11KV Hoti-Khurd LI SS from the proposed 132/11kV Lingampally LI SS	1987.82
Total Cost of Bulk Load works incl. Development charges Rs.Lakhs		20282.014

5. "In exercise of the powers conferred under section 164 of the Electricity Act,2003 Central Act No.36 of 2003, the Government of Telangana vide (G.O.Ms.No.115, dt.7.10.2003) conferred upon the Transmission Corporation of Telangana Limited, the Transmission Supply Licensee in the State of Telangana, Northern Power Distribution Company of Telangana Limited, Southern Power Distribution Company of Telangana Limited the distribution and retail supply licensee or their authorized representatives to have the powers for placing of the electric supply lines or telegraphic communications necessary for the proper co-ordination of works that a telegraphic authority possessed under the provision of the Indian Telegraph Act,1885 (Central Act 13 of 1885).
6. The sanction accorded in Para No. 3 & 4 above is subject to instructions issued by the TS TRANSCO on release of Services and Tariff as may be in force from time to time.
7. The works are under the scope of Chief Engineer/LIS/TSTRANSCO/VS/Hyderabad.
8. An amount of **Rs.20282.014 Lakhs** shall be collected as Service line (Bulk load) charges including Developmental charges from Chief Engineer/ I&CAD Dept./Sangareddy for carrying out the works by TSTRANSCO.
9. The Technical Sanction will be accorded by the Chief Engineer/Lift Irrigation Schemes/ Vidyut Soudha/Hyderabad.
10. The order is issued with the concurrence of Joint Managing Director (Finance, Comml. & HRD)/ TSTRANSCO vide Regd.No.2614, dated.09.06.2022.

(BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF TELANGANA LIMITED)

Sd/-
D. PRABHAKAR RAO
CHAIRMAN AND MANAGING DIRECTOR
TS TRANSCO

Encl: Annexure - I & III

To

The Chief Engineer (LIS) / Vidyut Soudha / Hyderabad.

Copy to:

1. The Executive Director (Finance)/ TSTRANSCO/VS/Hyderabad
2. The Chief Engineer/400 KV/TSTRANSCO/ VS/Hyderabad.
3. The Chief Engineer / Transmission /TSTRANSCO / VS / Hyderabad.
4. The Chief Engineer / Construction /TSTRANSCO / VS / Hyderabad
5. The Chief Engineer / Power Systems/ TSTRANSCO / VS / Hyderabad
6. The Chief Engineer / SLDC/ TSTRANSCO / VS/Hyderabad.
7. The Chief Engineer/ Comml. & RAC / TSTRANSCO / VS / Hyderabad.
8. The Chief Engineer/ Telecom / TSTRANSCO / VS / Hyderabad.
9. The Chief Engineer/ Civil / TSTRANSCO / VS / Hyderabad.
10. The Chief Engineer / IT / TSTRANSCO / VS/Hyderabad.
11. The Chief Engineer / P&MM/ TSTRANSCO / VS/Hyderabad.
12. The Chief Engineer / Zone/ Hyderabad-Rural/ TSTRANSCO / Erragadda/ Hyderabad.
13. The FA & CCA (Accounts) / TSTRANSCO / VS / Hyderabad.
14. The CGM /Commercial/TSSPDCL /Corporate office/Mint compound/Hyderabad
15. The SE(T) to CMD / TSTRANSCO / VS / Hyderabad.

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16. The P.S. to the JMD(Finance, Comml. & HRD)/ TSTRANSCO / VS / Hyderabad.
17. The ADE(T) to Director (LIS)/ TSTRANSCO / VS / Hyderabad.
18. The DE (T) to Director (Projects)/ TSTRANSCO / VS / Hyderabad.
19. The P.S. to the Director(Grid Operation) / TSTRANSCO / VS / Hyderabad.
20. The DE(T) to Director (Transmission) / TSTRANSCO / VS / Hyderabad.
21. The Superintending Engineer/LIS/Hyd-Rural/GTS Colony/TSTRANSCO/Hyderabad
22. The Superintending Engineer/OMC/TSTRANSCO/Sangareddy
23. The Superintending Engineer/Civil/LIS /TSTRANSCO/Karimnagar
24. The Executive Engineer/LIS/ Const/Hyd-Rural/GTS Colony/TSTRANSCO/Hyderabad
25. The Executive Engineer/Civil/LIS/ Hyd-Rural/TSTRANSCO/ Hyderabad
26. The Resident Audit Officer / TSTRANSCO / VS / Hyderabad.

//FORWARDED BY ORDER//

ASST. DIVISIONAL ENGINEER (Elect.,)/DIV-4
LIFT IRRIGATION SCHEMES