

TRANSMISSION CORPORATION OF TELANGANA LIMITED

A B S T R A C T

Extension of Power Supply to meet the Additional Load requirement of **3425 MW** at various Pumping Stations of LINK-I, LINK-II and LINK-IV under Kaleshwaram Lift Irrigation Project required for **lifting of additional 1 TMC of water from Godavari Basin – Deposit Contribution Works** –Administrative Approval – Accorded.

T.O.O. (CE-LIS) Ms.No.849

Dt. 18 -09-2020
Read the following: -

- Ref: 1. Lr.No. ENC/KP/LMD/KNR/151/H, Dt:12.04.2019
2. Lr.No.ENC/KPH/DCE/DEE-2/AEE-4/P-Conv. System/2019/3154, Dt:27.10.19
3. Lr.No. ADV/LIS/Kaleshwaram/Power Calculations/D.No.23/2020, Dt:28/01/2020

PROCEEDINGS:

1. Chief Engineer/Kaleshwaram Project/I&CAD and Advisor to the Govt. of Telangana for Lift Irrigation Projects vide letters cited under ref(1) to (3) have requested for extending the power supply to the additional load power requirement for the additional pumps to be installed at Medigadda, Annaram and Sundilla Pump Houses under Link- I , at Reach- I (Velgatoor) & II (Pegadapally) in Link- II and at Reach I (Mid Manair Reservoir to Ananthagiri Reservoir), **Reach-2**(Ananthgiri to DC-2 at Chinnagundavalli village) and **Reach-3**(Chinnagundavalli village to Sri Komaravelli MallannaSagar) in Link- IV for lifting additional **1 TMC** of water from Godavari Basin (inaddtion to the existing 2 TMC) under Kaleshwaram Lift Irrigation Project.
2. The power requirement details at Link- I, Link- II and Link- IV under Kaleshwaram Lift Irrigation Scheme for additional Loads at each pumping station as furnished by I&CAD department are as follows.

I. Link-I:

S.No.	Pump Location	Additional No. of Pumps/ Motors & Power Requirement
1	Medigadda Lift System	6 Nos x 40 MW = 240 MW
2	Annaram Lift System	4 Nos x 40 MW = 160 MW
3	Sundilla Lift System	5 Nos x 40 MW = 200 MW
	TOTAL (in MW)	600 MW

II. Link-II

S.No.	Pump Location	Additional No. of Pumps/Motors & Power Requirement
1	Reach-I (Velgatoor)	5 Nos x 135 MW = 675 MW
2	Reach-II (Pegadapally)	4 Nos x 135 MW = 540 MW
	TOTAL (in MW)	1215 MW

III. LINK-IV

Sl.No	Pump Location	Additional No. of Pumps/Motors & Power Requirement
1	Reach -1: Parallel Conveyor system for lifting water from Mid Manair Reservoir to Ananthagiri reservoir: Veljipur	4x125 MW = 500 MW
2	Reach-2: (Ananthgiri to DC-2 at Chinnagundavalli village) : Chinnagundavalli	6x125 MW =750 MW
3	Reach-3 (Chinnagundavalli village to Sri KomaravelliMallannaSagar): Tukkapur New	4x90MW =360 MW
	TOTAL (in MW)	1610 MW

3. After careful consideration, TSTRANSCO approves the Scheme at a cost of **Rs. 653.66 Crores** (Rupees Six Hundred Fifty Three Crores and Sixty Six lakhs only) including 10% overhead charges for the works of extension of H.T supply to Pumping Stations at Medigadda, Annaram and Sundilla Pump Houses under Link- I , at Reach- I (Velgatoor) & II (Pegadapally) in Link- II and at Reach I (Mid Manair Reservoir to Ananthagiri Reservoir), **Reach-2**(Ananthgiri to DC-2 at Chinnagundavalli village) and **Reach-3**(Chinnagundavalli village to Sri Komaravelli MallannaSagar) in Link- IV under Kaleshwaram Lift Irrigation Project for a Total C.M.D of **3605.27 MVA** as detailed below as **Deposit Contribution Works** The details of the scheme are as follows.

<u>Sl.No.</u>	<u>Description</u>	DC Works Amount (Rs. in Lakhs)
LINK - I PACKAGE		
I(a)	Erection of 6 No. Transformer Bay Extensions (6 x 50 MVA) (excluding supply of Transformers) including Metering Bay at 220/11 KV Medigadda existing Substation	1467.20
	Erection of 220kV SMDC Line with Narrow Based Towers (excluding Foundations Cost) connecting Switchyard and Transformer Deck.- 2.5 KM	305.20
(b)	Erection of 4 No. Transformer Bay Extensions (4 x 50 MVA) (excluding supply of Transformers) including Metering Bay and Bus Sectionaliser at 220/11 KV Annaram existing Substation	1095.36
	Erection of 220kV SMDC Line with Narrow Based Towers (excluding Foundations Cost) connecting Switchyard and Transformer Deck. - 1 KM	122.08
(c)	Erection of 5 No. Transformer Bay Extensions (5 x 50 MVA) (excluding supply of Transformers) at 400/220/11 KV Sundilla existing Substation	1014.72
	Erection of 220kV SMDC Line with Narrow Based Towers (excluding Foundations Cost) connecting Switchyard and Transformer Deck. - 2 KM	244.16
Total Link- I		4248.72
LINK - II PACKAGE		
II (a)	Erection of 400/11KV Pegadapally(Namapur) Substation with 4X160MVA and 2X25MVA ,400/11kV PTRs	11522.00
(b)	Erection of 400/11KV Velgatoor Substation with 5X160MVA and 2X25MVA ,400/11kV PTRs	13603.00
Total Link- II		25125.00
LINK - IV PACKAGE		
III(a)	Erection of 400/11KV Veljipur Substation with 4X160MVA and 2X25MVA ,400/11kV PTRs	11522.00
(b)	Erection of 400/11KV Chinnagundavalli Substation with 5X160MVA and 2X25MVA ,400/11kV PTRs	15149.00
(c)	Erection of 400/11KV NEW Tukkapur Substation with 4X120MVA and 2X25MVA ,400/11kV PTRs	9321.00
Total Link- IV		35992.00
TOTAL COST OF WORKS (LINK-I,II&IV) DC works:		65365.72
		Or Say 653.66 Crs

4. “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 and 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 electric plant for the transmission of electricity or for the purpose of telephonic 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).”
5. The sanction accorded in Para No.3 above is subject to instructions issued by the TSTRANSCO on release of services and tariff as may be in force from time to time.
6. The works are under the scope of Chief Engineer/LIS/TSTRANSCO/VS/Hyderabad.
7. An amount of **Rs. 653.657 Crores** shall be collected as Deposit from Engineer – in – Chief /I&CAD/Kaleshwaram Project/Hyderabad and Engineer – in – Chief /I&CAD/Kaleshwaram Project/Karimnagar for carrying out the works by TSTRANSCO.
8. The Technical Sanction will be accorded by the Chief Engineer/Lift Irrigation Schemes/ Vidyut Soudha/Hyderabad
9. The order is issued with the concurrence of Joint Managing Director (Finance, Comml. & HRD)/ TSTRANSCO vide Regd.No. 3172, dated 25.08.2020.

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

Sd/-
D. PRABHAKAR RAO
CHAIRMAN AND MANAGING DIRECTOR
TSTRANSCO

Encl: Annexure -II

To

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

Copy to:

1. The Executive Director (Finance)/ TSTRANSCO/VS/Hyderabad
2. The Chief Engineer/400 KV/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 & QC/ TSTRANSCO / VS/Hyderabad.
11. The Chief Engineer / P&MM/ TSTRANSCO / VS/Hyderabad.
12. The Chief Engineer / Zone/ TSTRANSCO / Karimnagar.
13. The Chief Engineer/Zone/Hyderabad -Rural/Hyderabad
14. The FA & CCA (Accounts) / TSTRANSCO / VS / Hyderabad.
15. CGM/Commercial/TSNPDCL/Warangal, SPDCL/Hyderabad
16. The SE(T) to CMD / TSTRANSCO / VS / Hyderabad.
17. The P.S. to the JMD(Finance, Comml. & HRD)/ TSTRANSCO / VS / Hyderabad.
18. The ADE(T) to Director (LIS)/ TSTRANSCO / VS / Hyderabad.
19. The DE (T) to Director (Projects)
20. The P.S. to the Director(Grid Operation) / TSTRANSCO / VS / Hyderabad.
21. The DE(T) to Director (Transmission) / TSTRANSCO / VS / Hyderabad.
22. The Superintending Engineer /400kV/Construction/TSTRANSCO/Karimnagar
23. The Superintending Engineer/LIS/TSTRANSCO/Karimnagar, Hyderabad Rural
24. The Superintending Engineer/OMC/TSTRANSCO/Karimnagar, Hyderabad/Sangareddy
25. The Executive Engineer/LIS/TSTRANSCO/Karimnagar, Hyderabad
26. The Resident Audit Officer / TSTRANSCO / VS / Hyderabad.