తెలంగాణ విశ్రాంత ఇంజనీర్ల సంఘం
Telangana Retired Engineers' Association
(TREA)

(TREA Regd No. 1791/12, Dated 12/12/12)

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Former Advisor to
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Date: 31.03.2021

To,
The Hon'ble Chief Minister,
Govt of Telangana.
Hyderabad.

Respected Sir,

Sub: **DLIS Head works' Alternate alignment from Yedula Pump house to Ulpara Barrage avoiding Tunnel- Reg.**

We would like to bring to your notice that earlier it was decided to divert 0.50 TMC water for Dindi Lift scheme from Yedula Reservoir to Ulpara Barrage by Gravity through 5 km (2.5+2.5) open canal and 16 km Tunnel. However it is given to understand that the government is deciding to divert 0.50 TMC/day water from Vattem Reservoir to drop in Dindi river about 40 Km U/S of Ulpara to avoid tunnel.

We, Retired Engineers have examined both the alternatives and proposing a new alignment from Yedula pumphouse to Ulpara barrage duly diverting 0.50 TMC/day water through two pumps avoiding Tunnel.

It will be a most viable alternative proposal avoiding Tunnel from Yedula and huge recurring expenditure about Rs.250 crores every year for lifting water from Yedula to Vattem. Finally, we request the Govt to examine the proposal before finalizing the Head works of DLIS. A detailed report is herewith enclosed.

With regards,

Er M Shyam Prasad Reddy
General Secretary/ TREA
99638 19074

Er G Damodar Reddy
President/ TREA
99899 92029

- Copy submitted to Special Chief Secretary, I&CAD Dept, Telangana State Secretariat, Hyderabad for information and necessary action.
- Copy submitted to Engineer in Chief (General), Jalasouda For information and necessary action.

REPORT ON LINKING PRLIS PUMPING STATION.NO.2 TO ULPARA BARRAGE FOR DINDI LIFT IRRIGATION SCHEME

Scope and Description of the work:

The Government have accorded Administrative approval to the DINDI Lift Irrigation Scheme (DLIS) for an amount of Rs.6,190 Crores, vide G.O.Ms.No.107, I&CAD (Project-I) Dept, date:11.06.2015, to envisages to provide drinking water to the most severely affected areas by fluorosis and irrigation facilities to drought prone areas of Deverakonda & Munugodu constituencies of Nalgonda district and some parts of Achampet & Kalwakurthy constituencies of Mahaboobnagar district by lifting the flood water from the foreshore of Srisailam Reservoir to Dindi Reservoir at 0.5 TMC per day to a quantum of 30TMC.

Accordingly, pending finalization of Head works of Dindi Lift Irrigation Scheme (DLIS), the alignment and Hydraulic Particulars of the DLIS main canal from Km.0.000 to Km.66.300 i.e., from Ulpara Barrage to Shivannagudem Reservoir have been approved by Chief Engineer, Central Designs Organization vide letter.No.CE(CDO)/SE-II/EE-CD5/DEE2/AEE3/159(6), dated.29.08.2017 subjected to the following.

1. Finalization of water conductor system from Narlapur to Ulpara and feasibility of proposed Ulpara Barrage with pond level +412.000m.
2. The approval from the Government for drawl of 0.5TMC per day from Ulpara Barrage instead of Dindi Reservoir.

The Government of Telangana have entrusted the work of "Conducting detailed survey for alternative alignments from Narlapur reservoir to Dindi River Link canal" to the agency M/S WAPCOS Limited Hyderabad and M/S WAPCOS has submitted the DPR for Rs.6327 Crores with SSR 2016-17.

The Hon'ble Chief Minister in the Review meeting on Irrigaiton projects dt:07.01.2019, instructed to study the proposal of drawing 0.50 TMC of water by gravity from Yedula (Veeranjaneya) Reservoir of PRLIS to Ulpara Barrage for Dindi Lift Irrigation Project vide the minutes of meeting

communicated vide Engineer in Chief, Endt.No.Lr.No.ENC(I)/DCE IV/OT5/AEE17/General/2018, *Dt.17.01.2019. After completion of detailed* survey, the alignment was approved by the Chief Engineer, NSP&AMRSLBCP and based on approved alignment, the Chief Engineer, CDO has approved the HP's of Link canal from Veeranjaneya Reservoir to Ulpara Barrage from Km.0.000 to Km.21.575 and communicated vide Memo.No.CE/NSP&AMRSLBCP/DCE-II/OT6/AEE/Yedula-Ulpara/ 2545CE, Dt.29.08.2019. In this proposal following components are involved.

1.	Approach Channel in Veeranjaneya (Yedula Reservoir	0.800Kms
2.	Gravity Canal Km.0.000 to KM.2.525	2.525 KMs
3.	*9MØ Tunnel Km.2.525 to Km.18.525*	*16.000 Kms*
4.	Gravity Canal Km.18.525 to Km.21.575	3.050 Kms

The Cost of this proposal is working out to Rs.1329 Crores.

Recently the Principal Secretary for Irrigation instructed the CE/PRLIS to submit the proposals for giving 0.50 TMC water from Vattem Reservoir to Dindi River for utilisation to Dindi Lift Irrigation Scheme from Ulpara Barrage on Dindi River instead of Yedula (Veeranganeya) Reservoir. In this proposals following disadvantages will be involved.

1. If water is proposed to be given for Dindi Lift Irrigation Scheme from Vattem reservoir i.e., after 3rd Lift of PRLIS, there will be additional recurring charges of about Rs.250 Crores per year, because 0.50 TMC water can be given from Yedula Reservoir (i.e., Veeranjaneya Reservoir) with Second Lift only by gravity.

2. 0.50 TMC water proposed to be given from Vattem Reservoir has to travel about 50 Kms detour distance to reach Ulpara barrage, Thus by there will be about25% Transmission losses in 50 Kms length and in Two reservoirs i.e., Yedula & Vattam Reservoirs. In this process only about 0.40 TMC will reach Ulpara barrage for utilising in DIndi Lift Irrigation Scheme and 0.10 TMC water will be lost by way of Transmission losses in view of detouring.

3. From Vattam Reservoir about open canal with a length of 14 Kms through wet fields which requires about 600 Acres of Land Acquisition for which there will be resistance from farmers loosing lands. The cost of excavation of open canal & L.A will be about Rs.250 Crores.

   "By seeing above proposal, The Retired Engineers are suggesting following proposals for best utilisation of 0.50 TMC/day to Dindi Lift Irrigation Scheme out of 2 TMC/day proposed in PRLIS from 2nd Lift Yedula Pump house directly (without dropping in Veeranjaneya (Yedula) Reservoir)".

To Lift 0.50 TMC water from Yedula Pump house i.e., from 2nd Lift of PRLIS by utilising Two Units out of Nine Units proposed in 2nd Lift by providing 5MØ Pressure mains To a length of about 15 Kms, for dropping in to stream leads to Telkapalli tank and which leads to Ulpara barrage. In this proposals the additional Lifting of water for 0.50 TMC/day from Yedula Reservoir (After 2nd Lift) to Vattem Reservoir with 3rd Lift can be avoided thus by recurring charges of about Rs.250 Crores per year can be avoided. Further water can be given nearer to Ulpara barrage thus by 25% Transmission losses i.e. 0.10 TMC water losses can be avoided.

The cost of this proposal is as detailed below:

S.No	Description of work	Amount Rupees in Crores
1	The Cost of Two nos Pressure mains of 5MØ for length of 15Kms = 15 X 40	600 Crores
2	Other works such as Delivery Cistern, Air valves etc.	35 Crores
3	About 150 Acres L.A. @ Rs. 10 Lakhs/Acre (for Providing Pressure Mains)	15 Crores
	Total:-	**650 Crores**
4	Deduct cost of gravity canal from Vattem to Dindi stream	250 Crores
	Extra Cost:	**400 Crores**

The extra cost of Rs.400 Crores can be made good in Two years of recurring cost of about Rs.250 Crores per year for Lifting 0.50 TMC of water from Yedula Reservoir to Vattem Reservoir. In this proposals the best utilisation of Lifted water from Srisailam Projects can be achieved for utilising most drought prone areas of Deverakonda and Munugodu constituencies of Nalgonda District.