

STUDY OF PRANAHITA-CHEVELLA AND JURALA LIFT IRRIGATION SCHEMES



20/04/2011

Progressive Telangana Foundation



Proposed Pranahita - Chevella Lift Irrigation Project



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**Project announcement
Wednesday, January 31, 2007**

- YSR Announced the plan to commence the Pranahita- Chevella Project as a gift to the Telangana Region and more specifically to the farmers of Chevella RR Dist and Medak Region.
- The plan involves lifting water from Godavari-Pranahita and pumping it to Chevella providing water to water starved farmers in Chevella and farmers along the route in Medak District

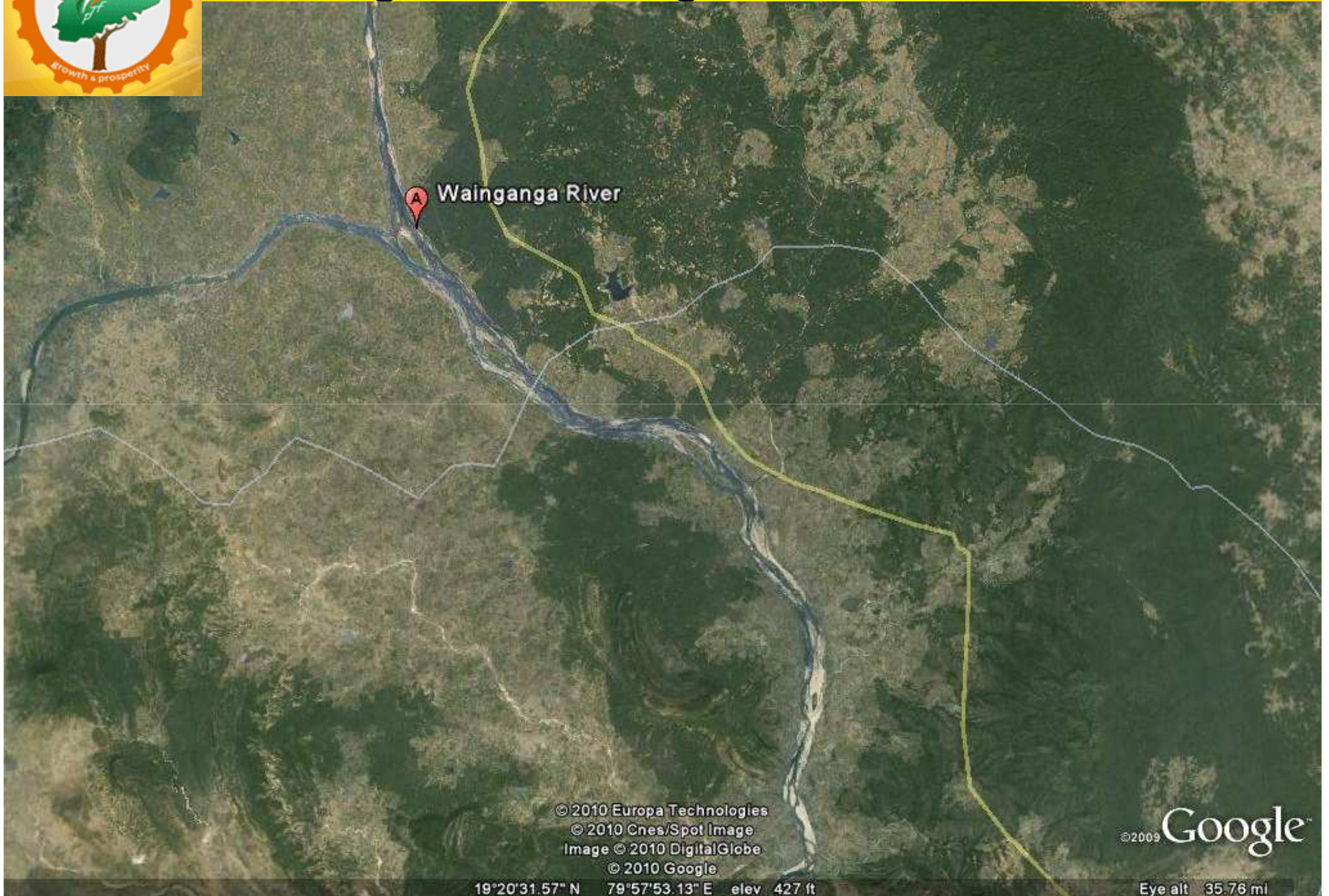


Project Highlights

- **Investment/Estimated Cost:** Rs. 38,500.00 Crores / USD 9,625.00 Million
- Objective: Irrigation of 16 Lakhs acres in Telangana- Chevella RR, Medak..
- 160 tmcft of water will be carried from Thummadi Patti Village Adilabad Dist to Chevella
- **Monday, December 31, 2012** Completion by



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19°20'31.57" N 79°57'53.13" E elev 427 ft

Eye alt 35.76 mi

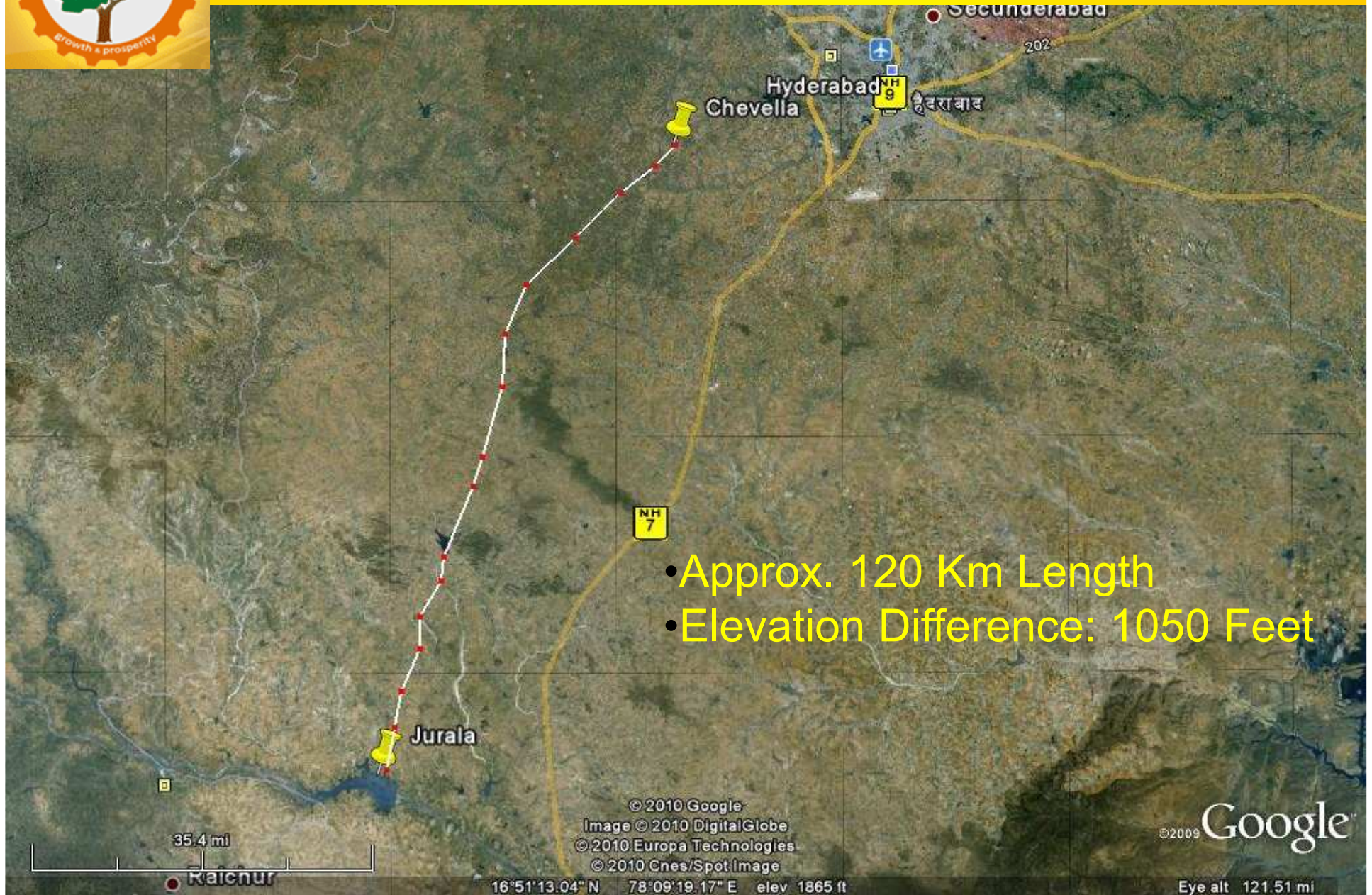


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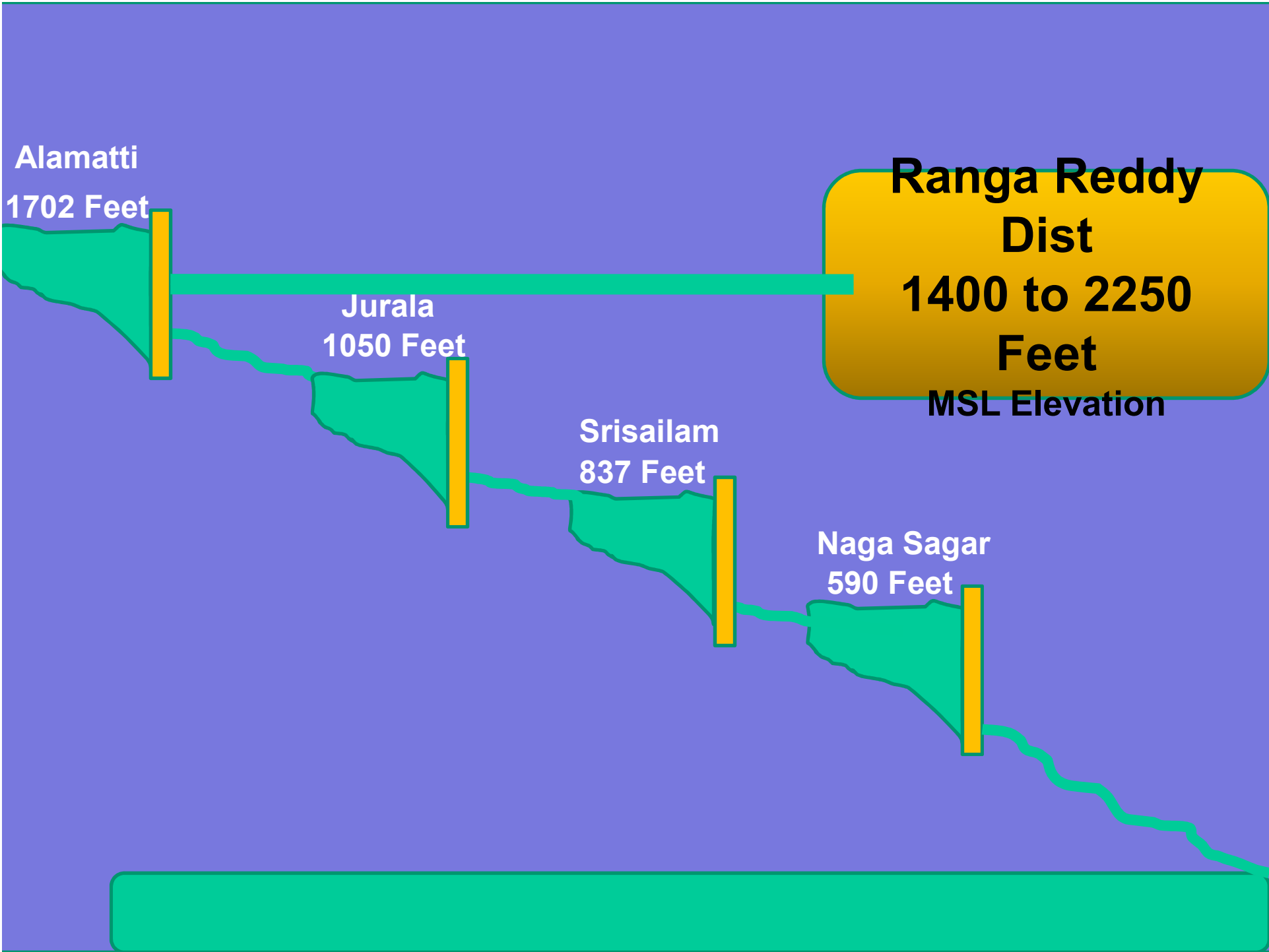
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Suggestion:

- From Jurala the Pumps need to lift lesser height to Ranga Reddy District
- From Almatti to some parts of Ranga Reddy water can even flow by Gravity..



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Comparison Statement

| Description | Pranahita/Chevalle | Jurala |
|-----------------------|------------------------|--------------------------------|
| Amount of Water | 160TMC | 70TMC |
| Command Area | 16.4 Lakh Acres | 10.0Lakh Acres |
| Gravity Flow canal | 849 Kms | 130 Kms |
| Tunnel | 206 Kms | 26.5 Kms |
| Total Lift Height | 1600 Ft | 1050 Ft |
| Number Of Lifts | 19 | 4 |
| Power | 3300 MW/8250 M units ? | 2350 MW / 1974/ 56 M Units/day |
| Cost @ Rs 2.36 | 1947 Cr | 494 Crs |
| Total Cost of project | 38, 500 Crs | 9,000 Crs |
| Irrigation in RR Dist | 2,46,704 Acres | 2,70,000 Acres |
| Cost /Acre | Rs 49,713 / 23,743 | Rs 4935/- |



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Feeder Canal From Nagarjuna Sagar Back waters --- AMRLIP





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Starting point of Underground canal





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Ending point of Underground canal – entry into surge pool





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Surge pool from which the water is pumped -- 70,000 cum





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Pump House – 16* 60 Sq Mts





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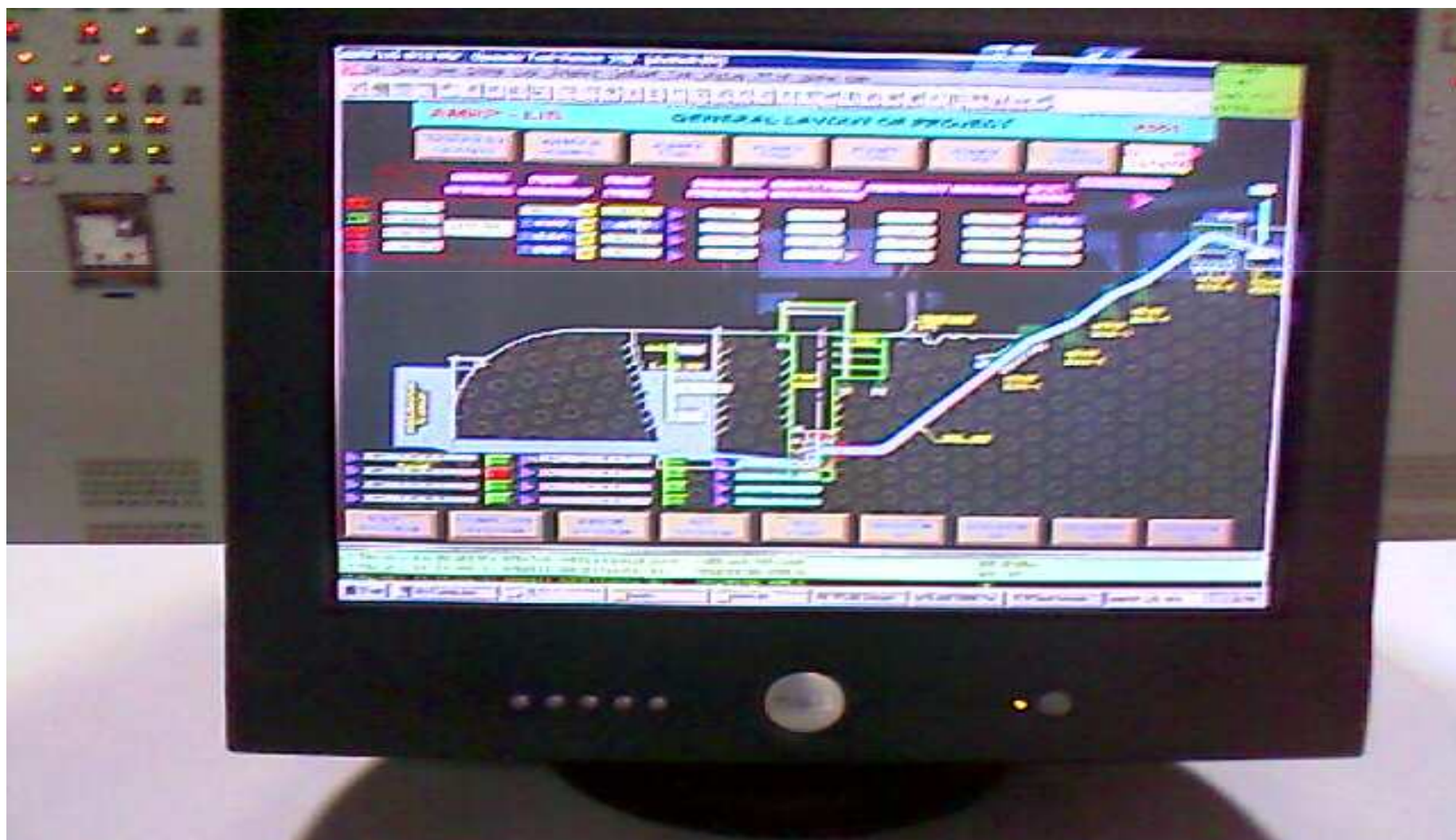
Four Motors Pumps of 8 MW each provision of one more pump available





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Control center





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Control panels





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4 -- Delivery Lines length 655 mts





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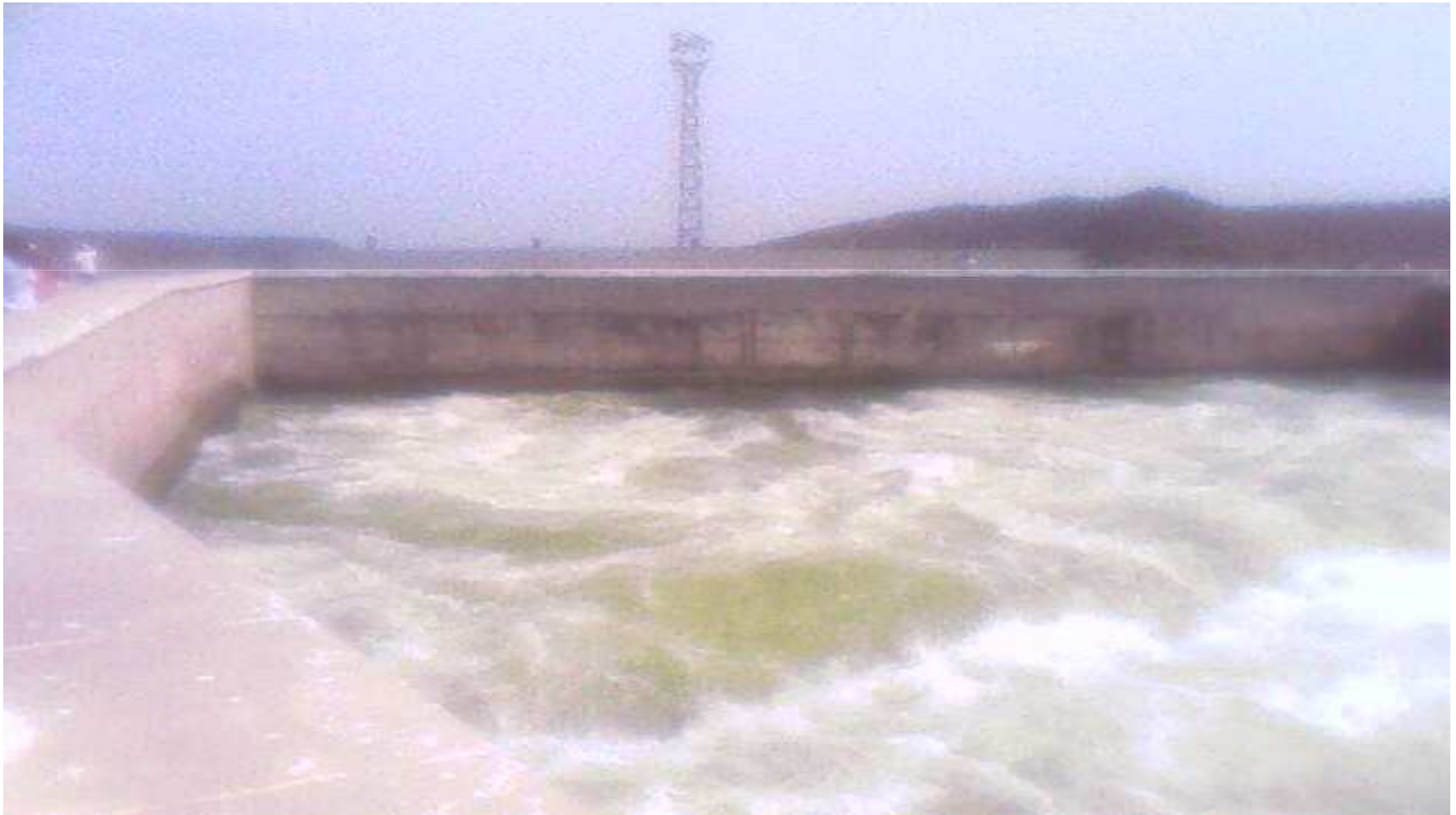
4 delivery lines before pouring water into reservoir





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Discharge Point into $1.5 \text{ tmc}^* 4 = 6.0 \text{ tmc}$ per month





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Akkampally Balancing Reservoir – Length of link canal 9 kms





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Jurala Lift Irrigation Map

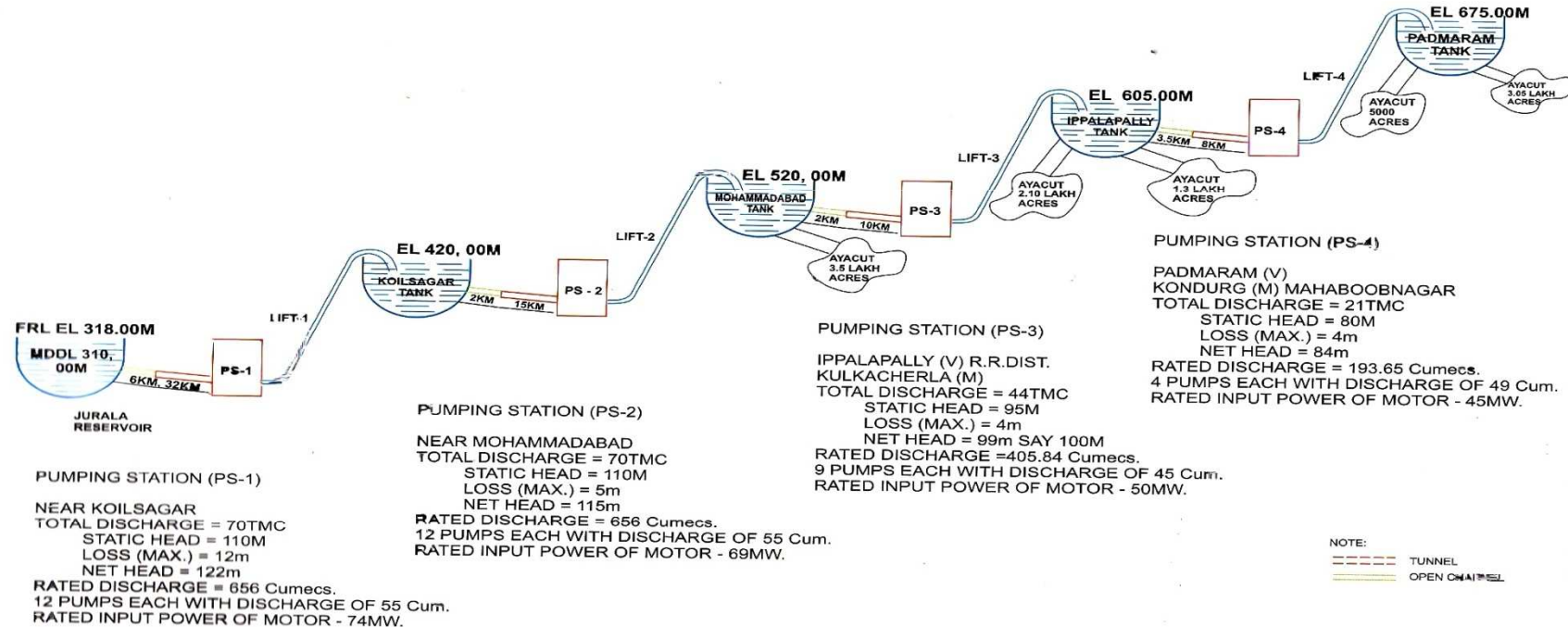




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JLIS – Pumping station

PALAMOOR LIFT IRRIGATION SCHEME ARRANGEMENT OF PUMPING STATIONS



FORMULATED BY
TELANGANA RETIRED ENGINEERS FORUM



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Thank you for the opportunity.

**Look forward for all round Telangana development to
achieve its destiny as the Heart of India!**

Glad to provide any further assistance along with Telangana Retired Engineers Forum

Progressive Telangana Foundation

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