

SITE INSPECTION REPORT OF MUDIVEEDU BALANCING RESERVOIR, NETHIGUNTAPALLI BALANCING RESERVOIR AND AVULAPALLI BALANCING RESERVOIR IN CHITTOOR DISTRICT WITH RESPECT TO O. A. NO. 137 OF 2021 (SZ) IN THE MATTER OF GUTHA GUNASEKHAR AND ORS. VS UNION OF INDIA AND ORS.

1.0 Preamble

The Hon'ble National Green Tribunal (NGT), Southern Zone (SZ) vide order dated 29.11.2021 in O.A. No. 137 of 2021 (SZ) in the matter of Gutha Gunasekhar and Ors. Vs Union of India and Ors. has issued the following directions:

"2. The learned Senior Advocate appearing for the State of Andhra Pradesh submitted that a perusal of Environmental Clearance (EC) will go to show that it is not for completion of the work, but for starting the construction work. After the Environmental Clearance (EC) were obtained, due to passage of time and also change of circumstances, they feel that it is not profitable and feasible to have independent projects, instead they want to have a combined project together with some modifications, for which, certain preliminary investigation has to be conducted and that is only undergoing, which includes preparation of Detailed Project Report (DPR).

3. The MoEF&CC is the authority to come with a reply statement regarding the action of the State of Andhra Pradesh, whether it is proper or not, in view of the allegations made by the applicant."

In compliance to above, MoEF&CC, New Delhi vide letter no. L-11011/17/2021-IA-I(RV) dated 09.12.2021 has requested Integrated Regional Office (IRO), Vijayawada to verify the factual status of allegations made in O.A. 137 of 2021 (SZ).

In compliance to above directions, Dr. Suresh Babu Pasupuleti, Scientist 'D' from Ministry's Integrated Regional Office (IRO), Vijayawada has conducted site inspection of Mudiveedu balancing reservoir, Nethiguntapalli balancing reservoir and Avulapalli balancing reservoir in Chittoor District on 26.12.2021. During the visit, the following officials were present:

Officials from HNSS Project:

1. Sri. K. Harinarayana Reddy, Chief Engineer, NTR TGP Tirupati.



2. Sri. P. Vijay Kumar Reddy, Superintending Engineer, Irrigation Circle, Chittoor.
3. Sri T. Surendra Reddy, Executive Engineer, Irrigation Division, Madanapalle.
4. Sri G. Suresh Babu, Deputy Executive Engineer, Irrigation Sub-Division, Thambalapalli, Madanapalli.
5. Sri. S.Gane Naik, Deputy Executive Engineer, Irrigation Sub-Division , Punganur.
6. Smt M. Prasanna kumari, Deputy Executive Engineer, Irrigation sub - Division, Pileru.
7. Sri P. Nagendra, Assistant Executive Engineer, Irrigation Section, Mulakalacheruvu.

Officials from GNSS Project:

1. Sri S.C. Ramu Naik, Executive Engineer, NTR TGP Division No.1, Kadapa.
2. Sri E. Saradhi, Deputy Executive Engineer, NTR TGP Sub Division No. 4, Pulivendula.
3. Sri. Y. Pradeep Reddy, Assistant Executive Engineer, NTR TGP Sub Division No. 4, Pulivendula.
4. Sri. S. Arif Basha, Assistant Executive Engineer, NTR TGP Sub Division No. 4, Pulivendula.

2.0. Existing GNSS and HNSS Projects

2.1. Galeru Nagari Sujala Shravati (GNSS) Project

The Galeru Nagari Sujala Shravati (GNSS) Project is contemplated for providing irrigation to 2.60 Lakhs in two districts of YSR Kadapa and Chittoor duly utilizing 38 TMC of surplus flood water from Krishna river out of which 10.87 TMC of water is allocated for irrigating contemplated ayacut of 1,05,000 acres in Chittoor district.

The Environmental Clearance (EC) has obtained to the GNSS Project vide letter no. J-12011/18/2006-IA-I dated 21.06.2006 for drawl of 38 TMC of surplus flood water from Krishna river to provide irrigation facilities to 2.60 Lakh acres in two districts of Kadapa and Chittoor.



2.2. Handri Neeva Sujala Shravanti (HNSS) Project

The Handri Neeva Sujala Shravanti (HNSS) Project Project is contemplated for providing irrigation facilities of 6.025 lakh acres in the four drought prone Districts of Rayalaseema i.e., Kurnool, Ananthapur, YSR Kadapa and Chittoor Dist, duly utilizing 40 TMC of flood waters of Krishna River out of which 9.29 TMC of water is allocated to Chittoor District for irrigating contemplated ayacut of 1,81,400 acres.

The Environmental Clearance (EC) is obtained to the HNSS Project vide letter no. J-12011/10/2006-IA-I dated 08.05.2006 for utilization about 40 TMC of flood water for providing irrigation facilities of 6.025 lakh acres in the four Districts of Rayalaseema i.e., Kurnool, Ananthapur, YSR Kadapa and Chittoor Dist.

Details of implementation status of both GNSS and HNSS projects area as follows:

Sl No.	Name of the Project	Name of the District	Water allocation in TMC	Ayacut Contemplated in Acres	Ayacut Created in Acres
1	HNSS PROJECT	Kurnool	5.320	80,000	45,300
		Ananthapur	22.91	3,08,500	6,000
		Kadapa	2.48	32,600	21,785
		Chittoor	9.29	1,81,400	14,250
			40.00	6,02,500	87,335
2	GNSS PHASE-I	Kadapa	27.13	35000	4,000
3	GNSS PHASE-II	Kadapa		120000	0
		Chittoor	10.87	1,05,000	0
			38.00	2,60,000	4,000

It has been informed that the ayacut contemplated both in GNSS and HNSS projects is yet to be realized and the tail end areas are not even getting the water required for drinking. To meet the drinking, domestic, Industrial and Irrigation needs in the most backward and chronically drought prone areas, it is proposed to inter connect both this projects to complement each other.

3.0. Proposed Scheme

The two Projects (HNSS & GNSS) are under execution at different stages in various districts of Rayalaseema. However, Chittoor district is not able to get



its legitimate allocated share of water and thus could not develop ayacut. Further the Chittoor District is not having any potential perennial river to meet its needs which necessitated the present proposal to supplement the water.

It has been stated that the proposed ayacut in Chittoor District could not be achieved through GNSS Project due to urbanization of canal alignments, ayacut areas and Reserve Forest lands required for GNSS Main Canal, which necessitated to complete the present interlinking. The Proposed ayacut under HNSS in Chittoor Dist could not be achieved due to insufficient carrying capacities of HNSS Canal System and inadequate storage facilities.

It has been stated that the present proposal is interlinking of HNSS & GNSS Projects which are included in Para 10 under Article 11 of A.P State Reorganization Act, 2014 as ongoing projects proposed for utilizing the flood water of Krishna river as per the right bestowed on the state of Andhra Pradesh by KWDT-I.

The Government of Andhra Pradesh vide G.O. Rt. No. 444 WR (Projects III) Dept., dated 26.08.2020 has accorded administrative approval for Rs. 5036.00 Crores for the work "Investigation and Construction of Lift Schemes to lift water from GNSS to HNSS".

It is proposed to supply water to tail end reaches of HNSS in YSR Kadapa and Chittoor Districts by diverting 2000 cusecs of water from KM 56.00 of G.N.S.S. Main canal.

The proposed GNSS-HNSS Lift Scheme is envisaged to provide irrigation water to enroot tanks originating at Km 56.000 on GNSS Main Canal near Pamuluru village to culminating at Punganur Branch canal at Km 79.600 near Jagadamvaripalle of Mulkalacheruvu mandal besides filling of Kaletivagu Reservoir, Veligallu Reservoir, Srinivasapuram and Adavipalli Reservoir.

The main aim of the proposed GNSS-HNSS Lift Scheme is to provide irrigation water to contemplated ayacut to tail end of HNSS Project in Chittoor district and upland and remote areas in YSR Kadapa district.

The land acquisition required being taken up as per norms under Right to Fair compensation and Transparency in Land Acquisition Act 2013.

The detailed flow diagram of HNSS, GNSS and Lift Scheme of HNSS&GNSS projects is enclosed as Annexure-I. The colour codes are as follows:

Green	-	HNSS Project
Blue	-	GNSS Project
Red	-	Proposed Lift Scheme project

The said Lift Scheme is designed to serve for stabilization of ayacut of 2,91,000 acres in the mandals of Chakrayapet, Ramapuram, Lakkireddipalli, Rayachoty, Veeraballi, Sundupalli etc., in YSR Kadapa district and Thamballapalli, Peddamandyam, KV Palle, PTM, B.Kothakota , Mandanapalli etc., in Chittoor district.

As the water dependability is more in HNSS Project, the tail end reaches are unable to get water in HNSS Project and the scheme is proposed to serve contemplated ayacut under HNSS Project with less cost and more effective.

The GNSS-HNSS Lift Irrigation Scheme is proposed mainly with MS Pressure Mains (MS Pipes), which are placing at an average depth of 1.20 m (shallow depth) below ground level and then refilling the trench with excavated soils to its original profile, so that there would be no effect on environment.

The system Reservoirs namely Veligallu; Srinivasapuram and Adavipalli Reservoirs are the existing reservoirs and it is proposed to impound the said reservoirs with lifted GNSS waters.

The Kaletivagu Reservoir; Kallurupalli tank and Nayunicheruvu tanks are also the existing small tanks. By impounding the said tanks and Reservoirs with GNSS Lifted waters, there would be no impact on environment. Further, neither any one of the villages nor habitation is being effected in lieu of proposing GNSS-HNSS Lift Irrigation Scheme.

By utilizing 2000 Cusecs of GNSS waters from Km 56.000 of GNSS Main Canal by means of lift, it is made feasible to serve drought affected areas of YSR Kadapa and Chittoor district besides providing drinking water facilities and to tail end ayacut of HNSS Scheme.

4.0. Observations during Site Inspection

The undersigned has visited the following reservoirs on 26.12.2021:

1. Avulapalli Reservoir
2. Mudivedu Reservoir
3. Nethiguntapalli Reservoir
4. Pedderu

5. Narayanacheruvu Reservoir

As per the discussions held, the details of each reservoir are as follows:

4.1. Avulapalli Reservoir

The Avulapalli balancing reservoir is proposed across the stream of Seethamma Cheruvu Vanka Near Avulapalli (V) in Somala (M) of Chittoor Dist.

The source of water for Avulapalli balancing reservoir is by gravity from the existing HNSS Punganur branch canal at km 210.00 to draw 3.5 TMC of water.

Land Acquisition: total extent of land required is 1300 acres out of which private land is 607 acres and Government land is about 693 acres. There is no requirement of Forest land for the reservoir.

Resettlement and Rehabilitation: Bireddipalli and Devalakuppam, H/O of Devalakuppam (V) in Somala (M) in Chittoor Dist. will be affected due to formation of Avulapalli balancing reservoir.

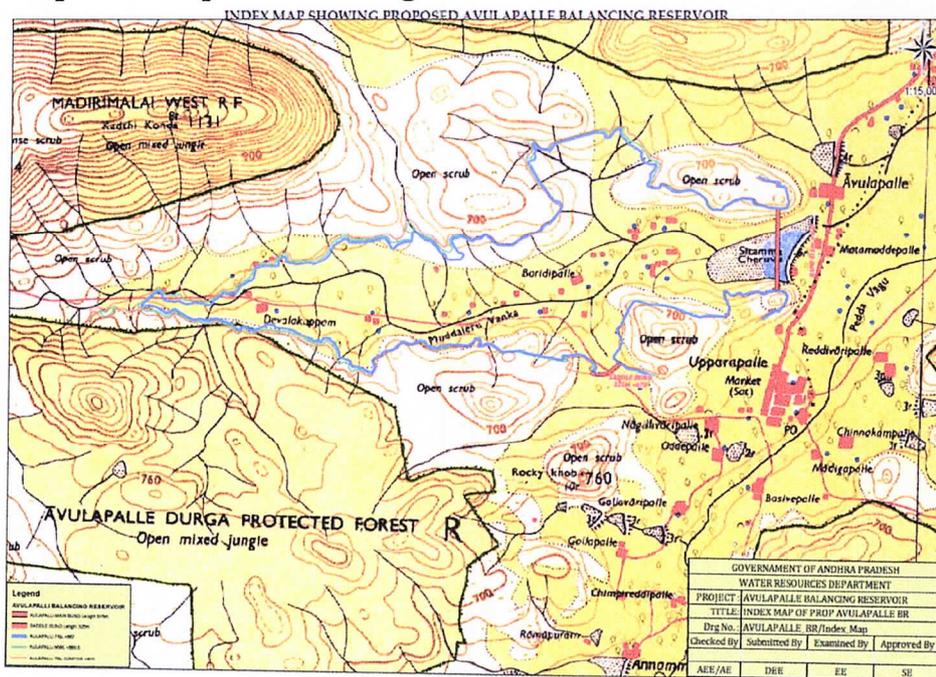
The satellite image of the reservoir is as follows:



Photographs taken during the visit of Avulapalli balancing reservoir is as follows:



Index map of Avulapalli balancing reservoir is as follows:



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4.2. Mudivedu Reservoir

The Mudivedu reservoir is proposed near Mudivedu (V) in Kurabalakota (M) of Chittoor District.

The source of water for Mudivedu balancing reservoir is by gravity from the existing HNSS Punganur branch canal (proposed to enhance the present water carrying capacity of 380 cusec to 1180 cusecs by widening) at Ch: 125.400 to 2.00 TMC of water.

Land Acquisition: total extent of land required is 1123 acres out of which private land is 867 acres and Government land is about 256 acres. There is no requirement of Forest land for the reservoir.

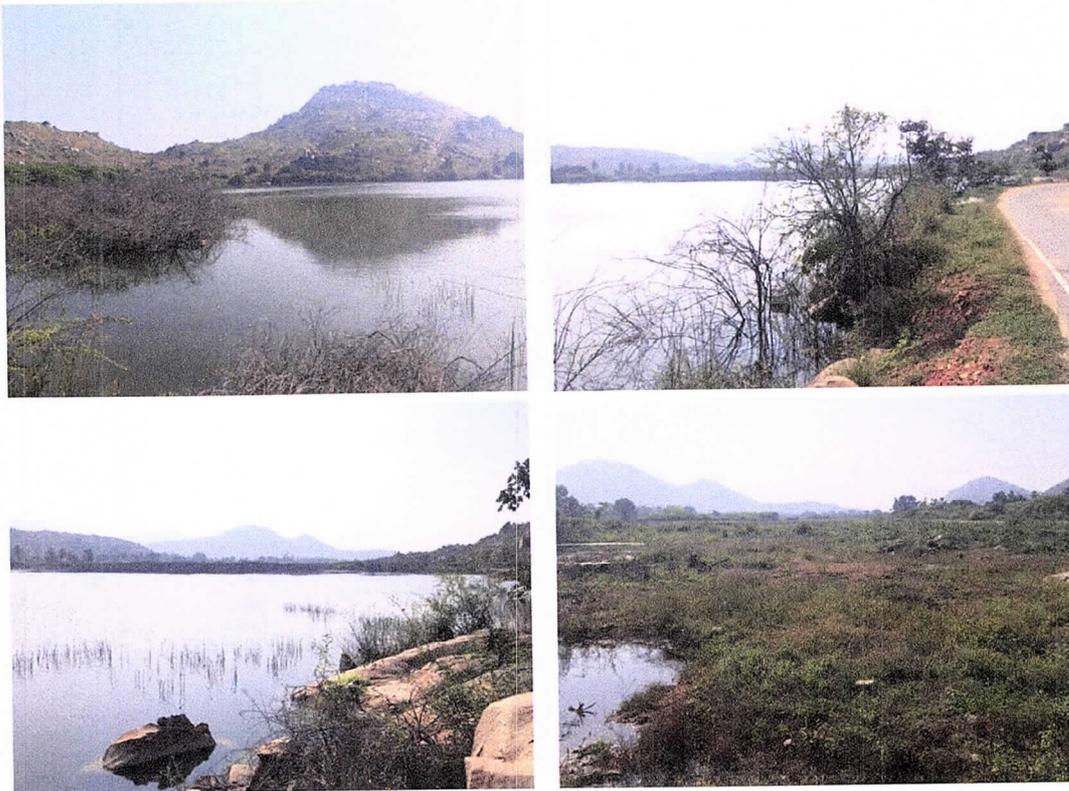
About 190 houses in Kothapalli, Diguvasethevaripalli, Dinnemedapalli, H/o of Pitchalavandlapalli of Kurabalakota (M) and Choutakuntapalli H/o Kotavuru (V) of B. Kothakakota (M) will be affected by the formation of Mudivedu balancing reservoir.

The satellite image of the reservoir is as follows:

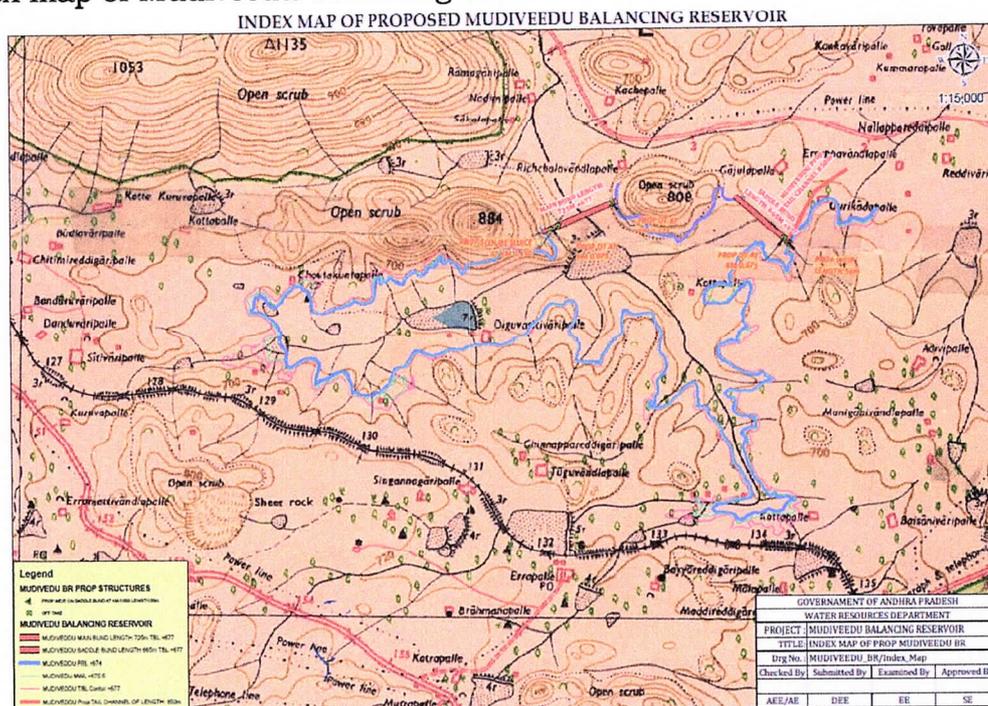


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Photographs taken during the visit of Mudivedu balancing reservoir is as follows:



Index map of Mudivedu balancing reservoir is as follows:



4.3. Nethiguntapalli Reservoir

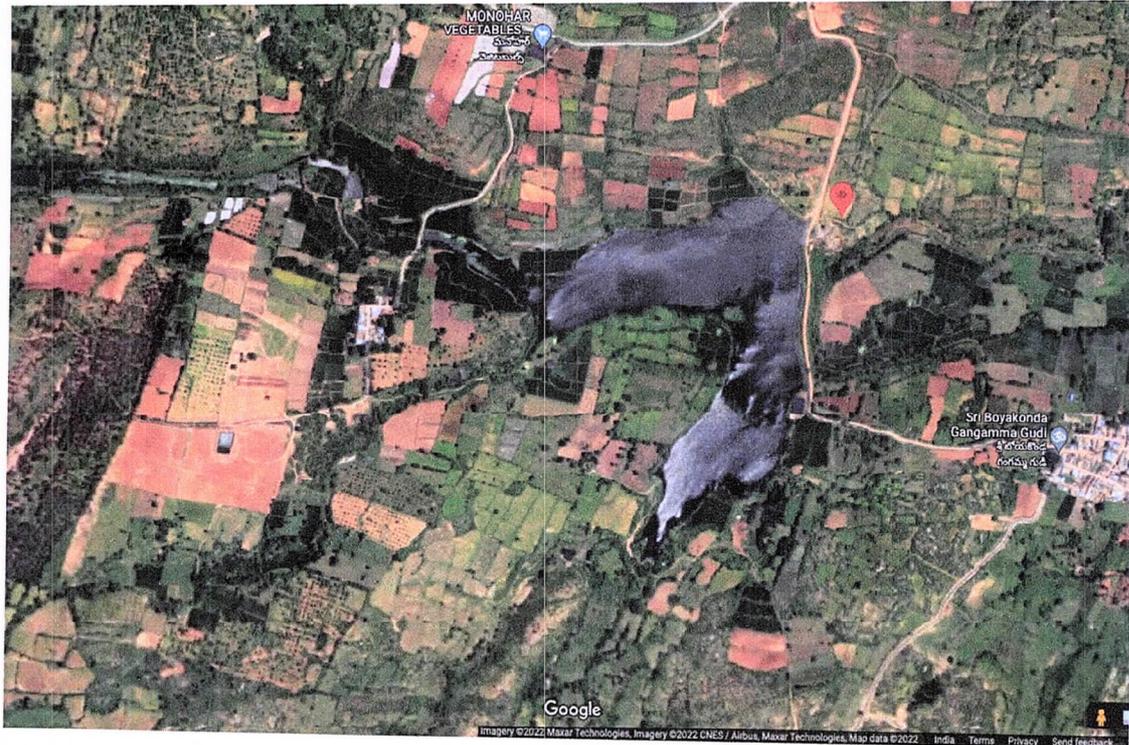
Nethiguntapalli balancing reservoir proposed across the stream of Yathamma Cheruvu vanka near Nethigulapalli (V) in Punganur (M) of Chittoor Dist.

The source of water for Nethiguntapalli balancing reservoir is by lift from the existing HNSS Punganur branch canal at Km 180.400 to draw 1.00 TMC of water.

Land Acquisition: total extent of land required is 867 acres out of which patta land is 181 acres and the remaining 686 acres are road, gutta, kaluva, kunta, pasalamethi bhoomi, grama kantamu. There is no requirement of Forest land for the reservoir.

About 30 houses of Yetigadda Kammavaripalli village of Mittachinthavaripalle Grama Panchayath in Punganur Mandal of Chittoor Dist. will be affected by the Nethiguntapalli balancing reservoir.

The satellite image of the reservoir is as follows:

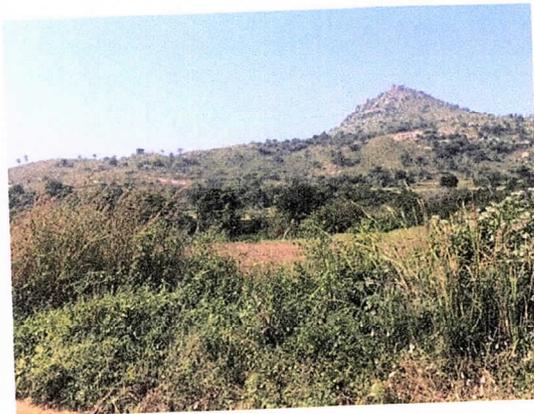
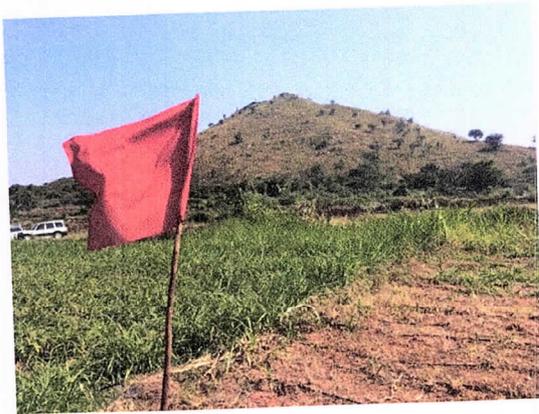


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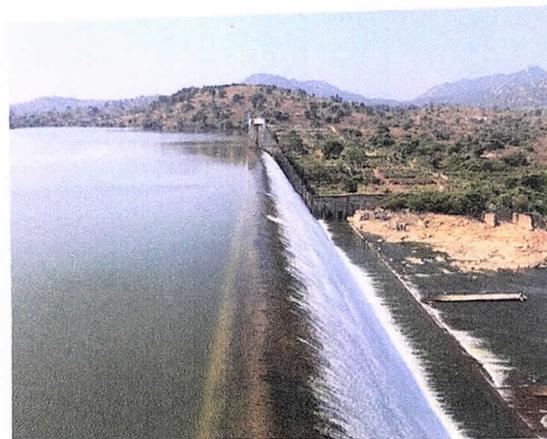
4.4. Pedderu and Narayanacheruvu Reservoirs

In addition to above three reservoirs, the undersigned also visited Pedderu and Narayanacheruvu reservoirs. The photographs taken during the visit are as follows:

Photographs taken during the visit of Pedderu is as follows:



Photographs taken during the visit of Narayanacheruvu Reservoirs is as follows:



5.0. Conclusions

As per the observations made during site inspection, discussions held and information provided by Project Proponent, the following conclusions were made:

The proposed scheme of Interlinking of HNSS & GNSS Projects by Lift scheme is under planning and DPR preparation stage.



The allegations made by applicant in O.A. No. 137 of 2021 (SZ) were the drilling activities for testing of soil strength which is a part for preparation of Detailed Project Report (DPR) of each reservoir.

As per the discussions held, it has been observed that the activities taken up at Avulapalli balancing reservoir are for preparation of DPR and during the day of inspection, no sign of any construction activities were observed.

No constructional activities/project implementation activities are being taken up by the project proponent.



(डॉ। सुरेश बाबु पसुपुलेटी)
(Dr. Suresh Babu Pasupuleti)
संयुक्त निदेशक (एस) / वैज्ञानिक 'डी'
Joint Director (S) / Scientist 'D'



FLOW DIAGRAM SHOWING THE H.N.S.S & G.N.S.S PROJECTS

KARNATAKA

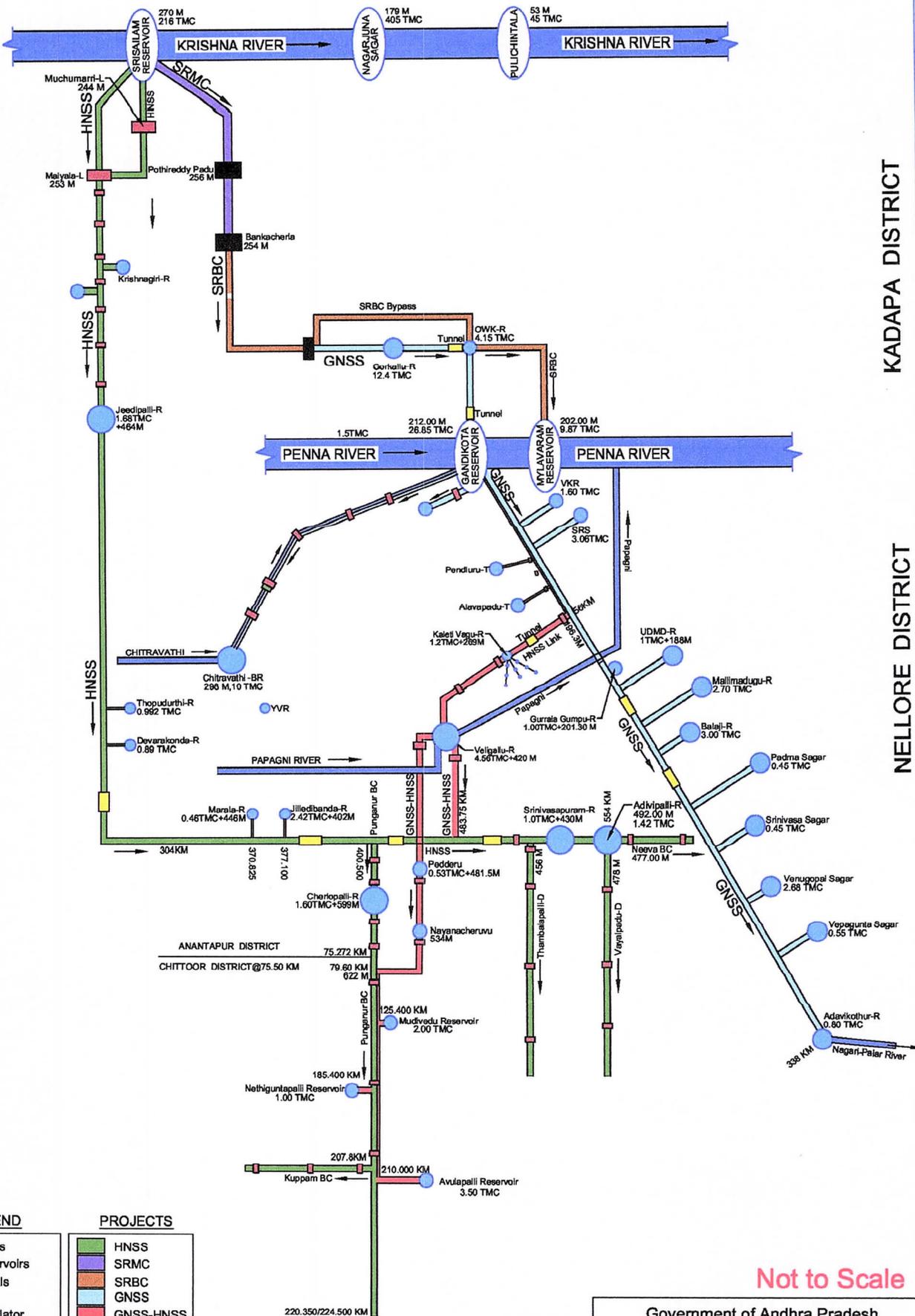
ANANTAPUR DISTRICT

KADAPA DISTRICT

BAY OF BENGAL

NELLORE DISTRICT

CHITTOOR DISTRICT



LEGEND		PROJECTS	
	Rivers		HNSS
	Reservoirs		SRMC
	Canals		SRBC
	Lifts		GNS
	Regulator		GNS-HNSS LINK CANAL
	Barrage/Ancut		
	Tunnels		

Not to Scale

Government of Andhra Pradesh
Water Resources Department
CHIEF ENGINEER, NTR-TGP, TIRUPATI

Signature