

FOREWORD

The Mahanadi-Godavari-Krishna-Pennar-Cauvery-Vaigai-Gundar, a major nine link system under Peninsular river development component of National Perspective Plan formulated by Government of India has been planned based on the proposed storages at Manibhadra on river Mahanadi & at Inchampalli on river Godavari. These two dams could not be taken up by the State Govts. in view of submergence and inter-state issues. Therefore, the alternate planning of Mahanadi - Godavari link is under progress in consultation with Govt. of Odisha. Further, the proposed supplementation from Himalayan component to Mahanadi basin is also yet to be finalized.

In the above background, it is proposed that the Mahanadi-Vaigai link system will be taken up in two phases.

- a) Phase I: Identifying surplus waters in Godavari basin and transferring these waters upto Cauvery through Godavari - Krishna - Pennar - Palar - Cauvery link system
- b) Phase II: Linking Brahmaputra - Ganga - Subernarekha - Mahanadi - Godavari rivers, thus enriching the Phase I with suitable modifications.

The present draft DPR deals with the Phase I link system viz. Godavari (Inchampalli/Janampet) - Cauvery (Grand Anicut) link system comprising of the following components:

1. Godavari (Inchampalli /Janampet) - Krishna (Nagarjunasagar) link

This component has been studied for three alternatives viz.

- a) Godavari (Janampet) - Krishna (Nagarjunasagar) link (By canal conveyance)
 - b) Godavari (Inchampalli) - Krishna (Nagarjunasagar) link (By canal conveyance)
 - c) Godavari (Janampet) - Krishna (Nagarjunasagar) link (By pipeline conveyance)
2. Nagarjunasagar) - Pennar (Somasila) link
 3. Pennar (Somasila) - Cauvery (Grand Anicut) link

The Godavari (Inchampalli/Janampet)-Cauvery (Grand Anicut) link system envisages diversion of about 7000 Mm³ of waters from Godavari to provide irrigation, domestic and industrial water supply benefits enroute in the states of Telangana, Andhra Pradesh and Tamil Nadu. While the link proposal off-taking

from Janampet barrage (canal/pipeline) would provide an annual irrigation of 9.38 lakh ha, the link proposal off-taking from Inchampalli barrage would cater to an annual irrigation of 10.09 lakh ha. Besides, about 905 Mm³ of water through Janampet proposal and 879 Mm³ of water through Inchampalli proposal are provided towards domestic & industrial water supply in the region.


The draft DPR of the Project has been prepared as per the "Guidelines for Preparation of Detailed Project Report of Irrigation and Multipurpose Projects of Ministry of Water Resources (2010)". The DPR contains the details of various surveys and investigations such as topographical surveys, geotechnical and construction material surveys, geological investigations etc.

The co-operation and assistance received from the concerned State Govts. in preparation of the DPR is thankfully acknowledged. My thanks are due to Central Water Commission (CWC), Central Soil & Material Research Station (CSMRS), Geological Survey of India (GSI), National Remote Sensing Centre (NRSC) etc., who were closely associated with various investigations and studies at FR level of the component link projects, which are incorporated in this DPR.

I compliment the concerned officers of NWDA, especially the Chief Engineer (HQ), the Chief Engineer (South), Hyderabad, the Superintending Engineer, Investigation Circle, Hyderabad and their teams in Investigation Divisions at Hyderabad, Bengaluru & Chennai for their sincerity, devotion and hard work in completing this gigantic task within the assigned time period.

It is hoped that the State Govts. would offer their suggestions on the draft DPR for its refinement and extend their cooperation for its early implementation so that the envisaged benefits can be derived from the link project in the right earnest.

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