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 Government of India
 Central Water Commission
 Project Appraisal(S) Dte.

Room No. 410, Sewa Bhavan
 R.K. Puram, New Delhi
 Dated 16th April, 2010

Office Memorandum

Sub:- Dr. B.R. Ambedkar Pranahita-Chevella Sujala Sravanthi Project of Andhra Pradesh.
 "In Principle" consent of CWC for preparation of Detailed Project Report (DPR).

The guidelines for submission, appraisal and clearance of Irrigation and Multipurpose Projects 2002 have been circulated by CWC to all the State Governments. As contained in the guidelines, preliminary report for obtaining "In Principle" consent of CWC for preparation of Detailed Project Report should contain brief chapters on General Data. General Planning, Interstate and International aspects, Survey and Investigation including Geological Investigation, Seismic Investigation, Foundation Investigation. Construction material surveys, Hydrological and Meteorological Investigations, Hydrology etc. Drinking Water requirements, Irrigation Planning, Planning for other benefits as applicable, environmental and ecological aspects etc. These aspects are required for initial assessment of soundness of the basis planning of the Project proposal. The preliminary Report of Dr. B.R. Ambedkar Pranahita-Chevella Sujala Sravanthi Project of Andhra Pradesh received in CWC has been examined. Project outlines, observations, suggestions of Central Water Commission are given below:

(A) Project Proposal and General Planning

Dr. B.R. Ambedkar Pranahita-Chevella Sujala Sravanthi envisages diversion of 160 TMC of water from river Pranahita, a major tributary to river Godavari to irrigate an ayacut of 16,40,000 Acres in Adilabad, Nizamabad, Karimnagar, Medak, Warangal, Rangareddy and Nalgonda districts of Telangana region of Andhra Pradesh. Besides irrigation, the project proposal also provides provisions for drinking and industrial water supply. The estimated cost of the project is Rs. 40,300 Crores (SSR 2007-08).

The major structures include construction of a barrage across Pranahita River at Tummidu Hetti in Kontala (M) of Adilabad district and 7 composite link channels. The project intake is located upstream of barrage on right bank of river Pranahita. From Pranahita the water is diverted to Sripada Sagar Yellampally barrage from where it is further carried to the command areas in various districts through composite link channels.

The brief details of link channels are as below:

Link	Brief Description	Length (km.)		Ayacut (Acres)
		Gravity Canal	Tunnel	
Link I	From Pranhita River to Sripada Sagar Yellampalli Barrage.	100.00	16.00	56,500
Link-II	From Sripada Sagar Yellampalli Barrage to Mothu Vagu Balancing Reservoir to Mid Maniar Reservoir	11.40	25.23	Nil
Link-III	Mid Maniar- Reservoir to Dharamaram Reservoir to Singa Samudram Reservoir to Upper Maniar Reservoir	32.50	11.65	80,000
Link-IV	From mid Maniar Reservoir to Anantagiri Reservoir to Imamabad Reservoir to Tadkapalli Reservoir to Tippiaram Reservoir to Pamlaparthi Reservoir	32.20	38.4	4,08,000
Link-V	From Tippiaram Tank to Mulkapalli village to Chityala Mandal	118.5	7.0	2,20,500
Link-VI	From Tippiaram Tank to Mulkapalli Village to Musi River to Chevella Tank. From Chevella tank to Parigi canal and Raikod Canal.	267.55	60.40	4,35,000
Link-VII	From SRSP Fore Shore to Nizam Sagar Canal and Nirmal to Mudhole constituency From SRSP fore shore to Masani to Manchippa to Komatpalli.	286.82	47.05	4,40,000
	Total	848.97	205.73	16,40,000

The total length of water conveyor system is 1054.7 Km. involving lift of 1343m. met through 19 No. of lifts. The anticipated power requirement is 3300 MW for the project. The project lies in Godavri Basin and has interstate ramifications. The waters of Godavri are to be shared among co-basin states as per GWDT award. The project has been examined in CWC in light of GWDT award. The relevant clauses are:

Clause VII of the Agreement dated 06.10.1975 (Annexure-II of Annexure-A of GWDT) between Maharashtra and Andhra Pradesh reads as follows:

"Maharashtra and Andhra Pradesh agree to take up the following joint projects at the appropriate time with agreed utilization:

- (a) Lendi Project.
- (b) Lower Penganga Project
- (c) Pranahita Project

And to set up joint committees for this project.”

Annexure-B Clause V-(3)(B) of GWDT award reads that “the state of Andhra Pradesh and Maharashtra agree to have barrage/barrages across the Pranahita river at suitable sites so that they may provide irrigation facilities in their areas. The quantum of water that will be used by Maharashtra from these barrages will be reckoned against 41 TMC as specified in V(2)(B). The joint project/projects for such barrages are to be taken up after reaching separate agreements/agreement for them, between the state of Maharashtra and Andhra Pradesh for the benefit of both the states or one state.”

(B) Recommendations from CWC:-

1. ‘In Principle’ consent for preparation of DPR granted with the condition that all relevant clauses of GWDT award will be strictly adhered to.
2. There are many major lift irrigation schemes under construction in the region namely Godavri lift irrigation scheme, Sripada Sagar Project, proposed P.V. Narasimha Rao Kanthanapalli Sujala Sravanthi Scheme, Alisagar Lift Irrigation Scheme and Guthapa lift Irrigation Scheme etc. The source of power required for the project as well as its availability for lifting water needs to be ascertained/firmed up from the State Electricity Board. Undertaking to the effect may be obtained and incorporated in the DPR.
3. A comprehensive integrated water availability study considering utilizations of all completed/ongoing/contemplated projects above Dr. B.R. Ambedkar Pranahita-Chevella Sujala Sravanthi may be carried out and enclosed in the DPR.
4. Detailed chapter on Basic/Irrigation Planning as per guidelines should form a part of the DPR. B.C. ratio is to be worked out on the basis of procedure indicated in the working group report as applicable to lift schemes i.e involving depreciation for pumping system, cost of rising mains, cost of electricity etc. O&M charges to be taken as @ Rs. 600/ha. Approval by the State Agriculture Deptt. for the yield and rates of produce adopted should be obtained and enclosed in DPR. Cost of lift of water is to be included in the project cost.
5. An index map indicating command details of the existing & proposed projects adjacent to the proposed Dr. B.R. Ambedkar Pranahita-Chevella Sujala Sravanthi alongwith command details of Dr. B.R. Ambedkar Pranahita-Chevella Sujala Sravanthi may be enclosed in the DPR to establish that there is no duplicity of command.
6. All design aspects may be got vetted by CDO, Govt. of Andhra Pradesh. The Transient analysis and water Hammer studies for various pumping operations and conditions may be carried out and incorporated in DPR.

7. All the relevant environmental issues should be taken care of while preparing detailed EIA/EMP and mandatory Environmental and Forest and MoTA clearances need to be obtained and incorporated in DPR.
8. All the required drawings and designs in accordance with CWC guidelines may be incorporated in DPR.
9. The detailed cost estimate and IRR/financial returns for the project as per CWC guidelines may be submitted alongwith DPR.
10. All the comments communicated earlier on the preliminary report of the project may be considered/complied with in the DPR.

Keeping in view the above comments/suggestions of CWC to be incorporated in DPR, "In Principle consent" of CWC for preparation of DPR of Dr. B.R. Ambedkar Pranahita-Chevella Sujala Sravanthi (Andhra Pradesh) is hereby accorded. This "In Principle consent" of CWC for preparation of DPR in respect of the above project shall have a validity period of 3(three) years. In case, investment clearance is not accorded to this project with in the validity period, this "In Principle consent" will suomoto lapse.

This issues with the approval of Chief Engineer (PAO) CWC.

R.K. Kanodia
 (R.K. Kanodia)
 Director PA(S)

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Copy to:-

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2. Chief Engineer (Hydrology) I&CAD, Errum Manzil, Hyderabad.
3. File No. 21/15/03-PA(S).