

Minutes of 6th Meeting of the Sub-Committee on system studies for identification of most appropriate alternative plan (Sub-Committee-II)

Item No.6.1 Confirmation of the Minutes of the 5th Meeting of the Sub Committee on system studies for identification of most appropriate alternative Plan (Sub-Committee-II) held on 28.07.2015

The Minutes of the fifth Meeting of the Sub-Committee-II held on 28.07.2015 as circulated were confirmed.

Item No. 6.2 Follow up action on decisions taken during the 5th meeting of the Sub-Committee-II

I. Revision of water balance studies of Godavari basin

Director (Tech) NWDA and Secretary of the Sub-Committee-II informed that the revision and updation of water balance studies of Godavari basin at proposed Inchampalli dam site has already been taken up by NWDA and will be completed by November, 2015.

II. Shifting of alignment of Mahanadi-Godavari link to western side

Director (Tech) NWDA mentioned that the studies for shifting the alignment of Mahanadi-Godavari link towards western side to connect the Godavari river at the point near to the proposed Inchampalli dam site instead of at existing Dowlaiswarm barrage in Godavari basin as suggested by the Sub Committee will be taken up by NWDA shortly. Sub-Committee desired that a note in this regard may be prepared and presented in the next meeting of the Sub-Committee for its consideration.

III. Water Requirement of Telangana State

Shri Sriram Vedire, Advisor (MoWR,RD&GR) and Member, Sub-Committee- II had advised that the details regarding water availability, existing/projected water requirements for various purposes and water balance may be obtained from the concerned authorities of Telangana. It was informed that NWDA has already requested the Government of Telangana vide letter dated 20.8.2015 to furnish the requirement of water for present and future utilisation of their State. The NWDA will revise/update its present planning of Inchampalli-Nagarjunasagar link considering the water requirement of Telangana State as soon as the details / information are received.

Item No. 6.3. Presentation on Mahanadi-Godavari link by representative of Government of Odisha

Director (Tech.), NWDA made a presentation on the comparative analysis of the original Mahanadi (Manibhadra)-Godavari (Dowlaiswaram) link, Alternative 'A', Alternative 'B' and the proposal of Mahanadi-Godavari Flood Moderation project.

The water availability / requirement as per the Revised Water Balance Studies of Mahanadi basin at Manibhadra dam site (pre and post Hirakud) as worked out by NWDA and that by the Government of Odisha for post Hirakud scenario were discussed. The wide variation in water availability at 75% dependability and water requirement were deliberated in detail. The Sub-Committee decided that the Government of Odisha shall provide the details of their computations of water availability and water requirement alongwith the supporting data including the spiral Study IV, Master Plan of Mahanadi basin, details of all existing, ongoing and proposed major, medium and minor projects, calculation of crop water requirement, cropping pattern, industrial water requirement (with full list) to NWDA at the earliest for examination. A note indicating the details of the studies will be prepared and placed in the next meeting of the Sub-committee. NWDA will also give their views on the variation in water availability and water requirement as estimated. The Engineer-in-Chief (Planning), Water Resources Department, Government of Odisha agreed to furnish the required details to NWDA within two weeks and also to make a presentation on the same in the next meeting of the Sub-committee.

Item No. 6.4. System Studies of Mahanadi-Godavari link by NIH, Roorkee

Dr. S.K. Jain, Scientist 'G', NIH, Roorkee briefly presented the Terms of Reference (ToR) for conducting system simulation studies for Mahanadi-Godavari link. The related aspects were discussed. After detailed deliberation, it was decided that a preliminary study will be carried out by NIH within a period of three months and will be submitted to the Committee. The data required for the study will be provided by the NWDA and Government of Odisha. The sedimentation data and any other data not available immediately may be assumed suitably based on the secondary data. Regarding availability of design parameters of six additional projects it was decided to adopt the parameters of these projects as planned by the Government of Odisha.

It was suggested that the study may be carried out by considering the following:

- (i) Water availability and water balance at seven project sites by using monthly data. Cropping pattern given by the State Governments will be used.
- (ii) Revised elevation-area-capacity curve after 50 years for each proposed storage project by using Hirakud sedimentation data or 0.5mm.
- (iii) Integrated multi-reservoir simulation study of the system, assuming environmental flows @ 20% of lean season flow and, with and without MSTG contribution to determine storage capacities and reliabilities.

Item No. 6.5. Status of hiring of consultant

It was informed that the process for engaging the consultants for the work of Sub-Committees and Task Force was under progress. The Sub-Committee desired to expedite the same.

Participants of meeting of the Sub-Committee for system studies for identification of most appropriate alternative plan

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| 1. | Prof. P.B.S. Sarma(Retd.), Emeritus
CED, IIT, Delhi. | Chairman |
| 2. | Prof. Kamta Prasad,
Chairman, IRMED, Delhi. | Member |
| 3. | Shri Sriram Vendire,

Advisor, MoWR, RD & GR | Member |
| 4. | Dr. Sharad K. Jain,
Scientist G, HIH | Member |
| 5. | Shri N.C. Jain,
Director (Tech.), NWDA | Secretary |

Special Invitees

- 6. Shri R.K. Jain
Chief Engineer (BPMO), CWC

7. Shri Vinay Kumar
Chief Engineer (HSO), CWC
8. Shri Tankadhar Sahu,
Engineer-in-Chief
Water Resource Department,
Govt. of Odisha, Bhubaneswar
9. Shri Upendra Sethi,
Deputy Director,
O/o the Engineer-in-Chief
Water Resource Department,
Govt. of Odisha, Bhubaneswar

Special Invitees, NWDA

10. Shri S. Masood Husain,
Director General, NWDA
11. Shri R.K. Jain,
Chief Engineer, (HQ), NWDA
12. Shri H.N. Dixit,
Chief Engineer, (North), NWDA
13. Shri B.L. Sharma,
Superintending Engineer, NWDA