



राष्ट्रीय जल विकास अभिकरण  
जल शक्ति मंत्रालय, भारत सरकार  
(जल संसाधन, नदी विकास और गंगा संरक्षण विभाग)  
**National Water Development Agency**  
Ministry of Jal Shakti, Government of India  
(Department of Water Resources, River Development and Ganga Rejuvenation)

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SCILR/400/2/2023/3366-87

Date : 30.10.23

**Sub.: Minutes of the 4<sup>th</sup> meeting of the "Sub Committee for Comprehensive Evaluation and System Studies on Interlinking of Rivers", held on 13.10.23 at NWDA, Palika Bhawan, New Delhi in hybrid mode – reg.**

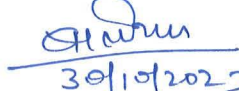
Sir,

The 4<sup>th</sup> Meeting of the "Sub Committee for Comprehensive Evaluation and System Studies on Interlinking of Rivers" was held on 13.10.23 at 12:00 PM at NWDA, New Delhi in hybrid mode, under the chairmanship of Sh. A.B. Pandya. A copy of minutes of the meeting, duly approved by the Chairman are enclosed for kind information.

It is requested to send your comments, if any, at the earliest, by e-mail to: cehq-nwda@nic.in / dirtech-nwda@nic.in.

Yours faithfully,

Encl : As above

  
30/10/2023  
(Baleshwar Thakur)  
Chief Engineer(HQ) &  
Member Secretary  
E-mail: cehq-nwda@nic.in

To

1. Shri A.B. Pandya, Secretary General, ICID & Chairman of the Sub-Committee, New Delhi. E-mail: abpandya@yahoo.co.uk, sec-gen@icid.org, Mob. No.: 09910264141.
2. Prof. P. P. Majumdar, Department of Civil Engineering & Chairman, Interdisciplinary Centre for Water Resources, IISc, Bengaluru -560012. E-mail: pradeep@iisc.ac.in. Phone no. : 080 22932669, 2293232, 23600290, 09845215612.
3. Prof. S. Iqbal Hasnain, Eminent Environmental Expert, New Delhi. E-mail: hasnainsyed09@gmail.com. Mob. No.: 09650576439.
4. Shri A. C. Tyagi, Retd. Director, Hydrology & WRD (Geneva, Switzerland), World Meteorological Organization. E-mail: avinash.c.tyagi@gmail.com. Mob. No.: 09650012655.
5. Sh. M. K. Sinha, Former Assessor, Krishna Water Disputes Tribunal, 254, APR Pranav Antillia, Bachupally road, Hyderabad. E-mail: mksinhacwc@gmail.com, mksinhacwc@yahoo.co.in, Mob.: 09971686789.

6. Prof. Kamta Prasad, Chairperson Emeritus IRMED, 2-B, Institutional Area, Karkardooma, Delhi-110092. E-mail:irmed7@gmail.com, Phone:011-22377199(O), 011- 22374975 (R ), Mob.: 09810288036.
7. Prof. N. K. Goel, Department of Hydrology, IIT, Roorkee. E-mail: nkgoel@hy.iitr.ac.in, goelhy@gmail.com, Mob. No.: 09412393851.
8. Dr. S. Mohan, Professor, EWRE 24, Department of Civil Engineering, IIT, Chennai-600036. E-mail: smohan@iitm.ac.in, Phone : 044-22574261 (O), 044-22579296 (R ), Mob.: 09837600444.
9. Chief Engineer (HQ), NWDA and Member Secretary of the Sub Committee, New Delhi. E-mail: cehq-nwda@nic.in, Mob. No.: 9015404275.

Special invitees:

1. Sh. Bhopal Singh, DG, NWDA, New Delhi. E-mail: dg-nwda@nic.in
2. Chief Engineer (North), NWDA, Lucknow. E-mail: cenwdalko@rediffmail.com, cenlko-nwda@nic.in.
3. Chief Engineer (South), NWDA, Hyderabad. E-mail : ceshyd-nwda@nic.in, cesnwda@rediffmail.com.
4. Superintending Engineer - N, NWDA, Palika Bhawan, New Delhi. E-mail: se3nwda@rediffmail.com, se2delhi-nwda@gov.in
5. Superintending Engineer - S, NWDA, Palika Bhawan, New Delhi. E-mail: se1nwda@rediffmail.com, se1-nwda@nic.in
6. Superintending Engineer, IC, NWDA, BBSR / Patna / Hyderabad / Valsad / Gwalior.
7. Director, National Institute of Hydrology (NIH), Roorkee-247667. E-mail: dir.nihr@gov.in. Kind Attn.: Dr. M.K. Goel, E-mail: goel.mk1@gmail.com, Mob. No.- 09410393347
8. Director, National Institute of Technology (NIT), Ashok Rajpath, Patna, Bihar – 800005. E-mail: director@nitp.ac.in. Kind Attn.: Dr. Ramakar Jha, rjha43@gmail.com, Mob. : 08544401806.
9. The Head of Department, Department of Civil Engineering, IIT, Guwahati. E-mail : hodecivil@iitg.ac.in. Kind Attn.: Prof. Subashisa Dutta, E-mail: subashisa@iitg.ac.in. Phone : 0361-2582415 (O), 09435104598
10. Prof. N.V. Ramana Rao, Director, NIT, Warangal, Telangana- 506004. E- mail : director@nitw.ac.in. Kind Attn.: Prof. N.V. Uma Mahesh, E-mail : mahesh@nitw.ac.in, uvnanduri@gmail.com. Mob.: 09849730834

Copy for information to:

1. PS to JS (RD & PP), DoWR, RD & GR, Ministry of Jal Shakti, New Delhi.
2. SPS to DG, NWDA, Palika Bhawan, R.K. Puram, New Delhi.
3. PS to CE(HQ), NWDA, Palika Bhawan, R.K. Puram, New Delhi.



**Minutes of the 4<sup>th</sup> Meeting of the “Sub Committee for Comprehensive Evaluation and System Studies for Interlinking of Rivers” held on 13.10.23 at NWDA, New Delhi.**

The 4<sup>th</sup> Meeting of the “Sub Committee for Comprehensive Evaluation and System Studies on Interlinking of Rivers” was held on 13.10.2023 at NWDA, New Delhi, in hybrid mode, under the Chairmanship of Sh. A.B. Pandya. The list of the participants is given at Annexure – I.

At the outset of the meeting, Sh. Baleshwar Thakur, Chief Engineer (HQ) and Member Secretary of the Sub-committee welcomed Chairman and all the members of the Sub-Committee and other invitees.

Chairman, Sub - Committee requested Member Secretary to take up the agenda items.

Chief Engineer (HQ), NWDA & Member Secretary of the Sub-Committee took up the agenda items for discussions:

**Item No. 4.1: Confirmation of the minutes of 3<sup>rd</sup> meeting of the Sub-Committee held on 26.9.23**

Chief Engineer (HQ), NWDA & Member Secretary of the Sub-Committee apprised all the members that minutes of the third meeting were circulated on 6.10.23 and no comments were received.

*Members confirmed the minutes of the third meeting.*

**Item No. 4.2: Follow up Action of the previous meeting.**

After deliberations on inception reports of the four Institutes during 3<sup>rd</sup> meeting, it was decided that a set of guidelines shall be provided to all the Institutes involved in system studies work of link projects for making a common platform / basis for comparison and depiction of outcomes. It was suggested to obtain Draft of guidelines from the four Institutes. Draft guidelines so received were deliberated in present meeting under Agenda item no. 4.6.

**Item no. 4.3: System studies of Godavari – Krishna – Pennar – Cauvery – Vaigai-Gundar links system.**

Member Secretary briefed about Expressions of Interest (EoI) that have been received by CE(S) Office, NWDA. He apprised the members that two institutes viz; Department of Hydrology, IIT, Roorkee and Department of Civil Engineering, IIT, Madras were shortlisted after deliberations during 21<sup>st</sup> meeting of Sub Committee-II for the southern linkage. It was decided to invite more institutes for taking up system study work of southern linkage. He also mentioned that as decided in first meeting of Sub Committee, the system study of

Godavari – Krishna – Pennar – Cauvery – Vaigai- Gundar links system may be divided into three modules as under:

- (a) Godavari-Krishna Links
- (b) Krishna-Pennar-Cauvery links
- (c) Cauvery-Vaigai-Gundar Link

Study of each one may be given to one academic institution suitably.

Thereafter, he requested CE (S), NWDA to present in brief about statement of proposals received for deliberations by Members of the Sub Committee.

CE (S) explained about six more EoIs as received from IIT, Roorkee (2 proposals), IIT, Kharagpur, NIH, Roorkee, WAPCOS and M/s Tractebel Engineering Pvt. Ltd. He referred to decisions taken during 21<sup>st</sup> meeting of Sub Committee vide which proposal of M/s Tractebel and WAPCOS were discarded. He informed that response from IISc Bangalore and IIT, Guwahati is still awaited. He explained about salient features of the proposals received from all the Institutes so far. CE(S) emphasised that for southern linkage, Institutes from South would be better.

Chairman, Sub Committee pointed out that every institute has different approach and there is no uniformity in proposals.

It was decided after deliberations that before seeking further proposals, scope of work, guidelines for carrying out system studies and ToRs of the Sub Committee shall be finalised and a set of guidelines will be provided to these institutes for taking up system studies work.

#### **Item no. 4.4 : Terms of Reference of the Sub Committee**

Member Secretary read the Terms of References of the Sub Committee as framed by Ministry of Jal Shakti.

Chairman, Sub Committee emphasised to broadly remain within the frame work as given by the Ministry and to decide what activities are to be taken up under each ToR.

Prof. Kamta Prasad pointed out that ToRs need some modifications and Sub Committee shall decide about the strategy to be adopted, time frame for completion of work and manpower required for the same. He also mentioned that few ToRs seem to be similar / overlapping. He emphasised the need of considering social, economic and environmental aspects for examining the possible alternatives of link projects which shall provide optimum benefits to Society as mentioned under ToR no. 3. For ToRs at no. 4 and 5, existing manpower needs to be reviewed for purpose of reviewing of alternative plans and preparation of Report. He also suggested that a specific unit should be constituted in NWDA exclusively for system studies work, who will examine the Reports and would put forth the views / issues found in the reports before Sub Committee for deliberations. NWDA shall



hire a consultant / expert from IARI or ICAR for agro-economic review / examination of Reports.

DG, NWDA replied that it has already been decided to set up a unit / sub unit in NWDA exclusively for system studies' work.

Dr. N. K. Goel queried about progress of works done by two individual Sub Committees in last few years and if the merged Sub Committee can fasten the pace of work. He also asked about interface between Task Force for Interlinking of Rivers (TFILR) and Sub Committees.

Sh. M.K. Sinha explained about constitution of Special Committee for Interlinking of Rivers (SCILR) as a Constitutional body and TFILR as a Technical Body for Interlinking of Rivers programme.

Member Secretary explained about constitution of four Sub Committees and works undertaken by these Sub Committees under SCILR. Two Committees have already submitted their Reports and remaining two Sub Committees have been merged to form this present merged Sub Committee. He also apprised the members about ToRs of two Sub Committees.

Chairman gave the following suggestions:

- i) To omit / delete ToR no. "i" as it is same as ToR no. "vi"
- ii) To modify ToR no. "iv" as : To carry out critical review and identification of different optimum alternative action plans, **based on the outcomes of system studies being carried out.**
- iii) To omit / delete ToR no. "v" as evaluation of views of stakeholders shall come into picture only after Reports reach public domain.
- iv) To modify ToR no. "vi" as : To recommend the most appropriate and acceptable action plan for implementation of ILR programme **through the identified links based on system studies.**
- v) Draft DPRs of the some link projects are already prepared by NWDA, these Drafts shall be examined by Sub Committee first.
- vi) After system study of a link project is carried out, a critical review of outcomes of the study / Report shall be done by NWDA first and that review shall be put forth before the Sub Committee for deliberations and finalisation of the Report.
- vii) Regarding provision of a proper interface between TFILR and Sub Committee, he proposed that Chairman, Sub Committee shall be included as a member of TFILR so as to present a clear picture of progress made by Sub Committee. NWDA shall process for this proposal in Ministry.

#### **Item no. 4.5 : Draft Report submitted by Sub Committee –I :**

Member Secretary informed the members that eight meetings of Sub Committee – I were held and a Draft Report was submitted by Sub Committee in September, 2017.

Sh. M.K. Sinha pointed out that the Draft Report has certain issues and few typographical errors. He emphasised that the Draft Report shall be updated as status of link projects mentioned in the Draft Report has significantly changed and members are not aware of those changes / developments.

DG, NWDA apprised the members that 11 DPRs and 24 FRs have been completed till date. All FRs shall be completed by March, 2024 and DPRs by year, 2025. So, Draft Report will be updated according to progress made till date and will be circulated to members so that deliberations on the updated Report can be done in some next / forthcoming meeting of Sub Committee.

Chairman, Sub Committee highlighted the fact that outcomes of system studies may change the DPRs and System studies will also provide idea / options for best solutions, which would be very helpful while negotiating with States for consensus building.

DG, NWDA explained that most of the completed DPRs are termed as Draft DPRs which have been prepared on basis of detailed surveys and investigations / studies being done by NWDA. He assured that outcomes of system studies shall be properly incorporated in Draft DPRs before approaching to States for consensus building

**Item no. 4.6 : Guidelines for carrying out system studies for link projects and preparation of Reports.**

Member Secretary mentioned that after deliberations on presentations made by four institutes in last meeting, it was felt that a set of guidelines shall be provided to all the Institutes involved in system study work of link projects for making a common basis for preparation of Report and depiction of outcomes.

As suggested, Draft of Guidelines from the Institutes have been obtained and sent to members of the Sub Committee.

Members of Sub Committee opined that these guidelines are not clear and can not provide a standard set that can be followed by all the institutes for carrying out system studies on a common basis and also depict the outcomes in a comparable way.

Chairman, Sub Committee suggested that NWDA shall frame a set of guidelines for which guidelines as provided by NIH, Roorkee can be referred upto some extent. NWDA will circulate the Draft guidelines to the Members of Sub Committee and obtain their views / comments through mail or in next meeting. After that, guidelines shall be finalised and can be provided to institutes that are carrying out system study work.

Chairman also asked NWDA to prepare a well defined and elaborative scope of works for system studies and present in next meeting for its finalisation.

The meeting ended with a vote of thanks to the Chair and all the participants by CE (HQ), NWDA & Member Secretary of the Sub-Committee for their fruitful guidance and deliberations.

**List of participants of the 4<sup>th</sup> Meeting of the “Sub Committee for Comprehensive Evaluation and System Studies”**

<b>Sl. No.</b>	<b>Name of the Participant</b>	<b>Mode</b>
1.	Shri A.B. Pandya, Secretary General, ICID & Chairman of the Sub-Committee	Physical
2.	Prof. Kamta Prasad, Member	Physical
3.	Prof. S. Iqbal Hasnain, Member	Physical
4.	Prof. N.K. Goel, Member	Physical
5.	Sh. M.K. Sinha, Member	Physical
6.	Sh. Baleshwar Thakur, CE(HQ), NWDA & Member Secretary	Physical
<b>Special Invitees</b>		
1.	Sh. Bhopal Singh, DG, NWDA, Delhi	Physical
2.	Sh. Shiva Prakash, CE (N), NWDA	Online
3.	Dr. R.N. Sankhua, CE (S), NWDA	Online
4.	Sh. Shajatnan K.H. , SE (S), NWDA	Physical
5.	Sh. Ch. Y. Subramaniam, SE, NWDA, Valsad	Online
6.	Sh. S. A. Naidu , SE, NWDA, Hyderabad	Online
7.	Prof. Subashisa Dutta, IIT, Guwahati	Online
8.	Dr. Ramakar Jha, NIT, Patna	Online
9.	Dr. Dilip Kumar Jha, Director, MDU	Online
10.	Sh. M. K. Goel, NIH, Roorkee	Online
11.	Sh. Umamahesh NV, NIT, Warangal	Online



<b>Other Officers</b>		
1.	Ms Deepti Verma, DD, NWDA, Lucknow	Online
2.	Sh. Mahesh Kumar Raman, EE, NWDA, Patna	Online
3.	Sh. S. James, AD, NWDA, Delhi	Physical
4.	Sh. M.P. Krishnamurthy, AD, NWDA, Delhi	Physical
5.	Ms Deepika Sharma AD, NWDA, Delhi.	Physical
6.	Sh. Promod Kumar Roy, AE, Patna	Online
7.	Sh. Subhash Chandra Parui, AE, ID, Kolkata	Online
8.	Sh. S. P. Tomar, AE, IC, Bhubaneshwar	Online
9.	Sh. Hariom Varshney, AE, NWDA, Delhi	Online
10.	Sh. Dindi Ramamohana Rao, AE, Hyderabad	Online
11.	Sh. M.D. Dhimmarr, AE, NWDA, Delhi	Physical
12.	Sh. Nikhil V.J, JE, NWDA, Delhi	Physical
13.	Sh. Subodh Kumar, JE, NWDA, Delhi	Physical
14.	Sh. Krishna Gurjar, JE, NWDA, Delhi	Online
15.	Sh. Akash Srivasatva, JE, Lucknow	Online
16.	Sh. Shubham Kumar, JE, NWDA, Lucknow	Online
17.	Ms. Santosh Vishnoi, JE, NWDA, Delhi	Physical
20.	Sh. Abhishek Dixit, IIT, Guwahati	Physical
21.	Sh. Rakesh Kumar Kharbanda, Consultant(Tech.)	Physical