Minutes of 2nd JRC meeting for Krishna River Basin held on 3rd March, 2025

National River Conservation Directorate under the Department of Water Resources, River Development and Ganga Rejuvenation in the Ministry of Jal Shakti, has undertaken the project Condition Assessment & Management Plan for six river basins - Godavari, Narmada, Mahanadi, Cauvery, Periyar, and Krishna, to enable preparation of action plans for conservation and rejuvenation of rivers/tributaries in the basin.

2. The project is being carried out by the consortium of reputed technical institutes in the respective basin States under the supervision and overall coordination of IIT Kanpur/cGanga. In terms of the MoAs and to ensure targeted missions, CIs are required to submit a set of quarterly deliverables in a span of 3 years as per MoA. Further, works carried out by the CIs are to be reviewed, supervised, and monitored through different committees. Out of these, Joint Review Committees (one for each basin) under the chairmanship of Project Director, NRCD are tasked with review and monitoring works carried out by CIs.

3. First meeting of JRC for Krishna River basin was held at NIT Warangal in May, 2024. Second JRC meeting was held at NITK Surathkal on 3rd March, 2025 under the chairmanship of DG, NMCG. The list of participants is at Annexure.

4. At the outset, Prof. Subash Yaragal, Deputy Director, NITK Surathkal welcomed all the members of JRC, project team from NIT Warangal and NITK Surathkal and the stakeholders from the basin States of Karnataka. Prof. Vinod Tare from cGanga, in his introductory remarks, set the context for the meeting in furtherance to the first meeting.

5.1 A detailed presentation was made by Prof. Basavaraju Manu from NITK Surathkal, highlighting achievements of the project for Krishna river basin under Rivers at a Glance, Basin Demography, key findings (in terms of physiochemical, biological resources, ecological significance, environmental concerns, management challenges, economic impacts, etc.), their outcomes, and also data gaps and uncertainties. While *Rivers at a Glance* presents an overview of salient features and rivers in the basin, *Basin Demography* highlights socio-economic trends influencing water demand, land use, infrastructure developments, and disaster risk management.

5.2 Prof. Basavaraju Manu also mentioned about the challenges/concerns during course of the study, including the following:

- Non-availability of notified and non-notified slum details, data on soil macro, micro, secondary, and other nutrient conditions from online sources and NBSS&LU.
- Fixing resolution and sourcing of DEM (Digital Elevation Model), Procurement of topographic maps of desired contours, to be finalized.
- Stakeholders not replying back to the contacted emails regarding the data availability of aerial drone survey
- Shortage in the availability of sedimentation data.

5.3 Quarter-3 deliverables - Lithological Profile, Hydraulic Data, Hydrologic Data, Infrastructure & Planning Report, and Geo-morphological mapping, were reported to be either completed or under Progress.

5.4 Quarter-4 deliverables – River Atlas, Climatological and Meteorological data, Geological profile, Topographic maps, Revenue Maps, and other tasks including the data collection for the Nirmal Dhara mission were reported to be under progress.

5.5 Regarding utilization of funds, expenditure incurred by NIT Warangal was reported to be Rs.49, 08,785.00, whereas for NITK Surathkal Rs. 5,34,508.00, it was lakhs till March 2025.

6. DG, NMCG recommended incorporating the river order classification in the Rivers at a Glance report to clearly distinguish major and minor tributaries. He also emphasized the inclusion of population projections, either from available sources or using the most suitable projection techniques, in the Basin Demography report to aid in sewage infrastructure planning for 2035. Additionally, he advised mapping the major rivers passing through each district and preparing corresponding thematic maps. He strictly instructed that all water quality and pollution-related information should be sourced exclusively from the CPCB website to ensure accuracy and consistency.

DG and JS, NMCG requested the submission of four deliverable reports from the first four quarters, namely Rivers at a Glance, Basin Demography, Infrastructure and Planning, and River Atlas.

7. While summarising/concluding the deliberations, action points emerged are as below:

(i) CIs are required to upload quarterly deliverables/reports on cGanga portal, which would then be examined by cGanga in consultation with all stakeholders. *(Action: CIs/cGanga)*

(ii) cGanga shall formally communicate to NRCD regarding acceptance of each of the deliverables/reports. All such final reports to be clearly earmarked on the portal followed by submission of one hard copy to cGanga. Final reports to be shared with basin states for inputs/observations/comments, to be communicated within 30 days. *(Action: cGanga/NRCD)*

(iii) CIs are required to create their own dedicated websites to upload/disseminate all relevant information/data related to CAMP. *(Action: CIs)*

(iv) Thematic sub-group to be constituted by cGanga to arrive at proper justification for the required data (Cartosat-1/2 DEM, etc) vis-à-vis the actual requirement for the desired content. *(Action: cGanga)*

(v) Quarterly deliverables towards Mission 'Nirmal Dhara' to be taken up on priority to enable preparation of action plans by the basin States. cGanga may work on this and prioritize by amending the schedule of quarterly deliverables. *(Action: cGanga)*

(vi) For each of the targeted missions, Mission Document to be prepared based on thematic reports, enumerating actionable points. *(Action: CIs)*

(vii) Utilization Certificates and Fund Releases - UCs along with the plan for expenditure on different approved items/components to be submitted by the CIs to enable release of next installment of funds (balance of the annual allocation) in FY 2024-25. *(Action: CIs)*

(viii) Co-nodal officers to be nominated by the basin States from Pollution Control Boards and D/o Municipal Administration. *(Action: NRCD/Basin States)*

8. The meeting ended with a vote of thanks to the chair.

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Annexure

List of Participants

NRCD, D/o Water Resources, River Development and Ganga Rejuvenation

1. Shri Rajeev Kumar Mital, DG, NMCG/PD, NRCD
2. Shri Pradeep Kumar Agrawal, Joint Secretary, NRCD
3. Shri Anup Kumar Srivastava, ED (Tech), NMCG
4. Shri Nelapatla Ashok babu, Director, NRCD
5. Shri S.K. Srivastava, Scientist F, NRCD

cGanga

1. Prof. Vinod Tare, Coordinator
2. Shri. Rahul Ramchandran - Online

Consortium Institutes

NIT Warangal

1. Dr. N V Umamahesh, Professor, D/o Civil Engineering
2. Dr. Jew Das, Asst Professor, D/o Civil Engineering

NITK Surathkal

1. Dr. S Shrihari, Professor, D/o Civil Engineering.
2. Dr. Basavaraju Manu, Professor, D/o Civil Engineering.
3. Dr. Chandan Pradhan, Asst Professor, D/o Water Resources and Ocean Engineering.

4. Dr. Saranya P, Asst Professor, D/o Civil Engineering.
5. Dr. Jaklin Jeke Nilling, Asst Professor, D/o Civil Engineering.
6. Dr. Shwetha H R, Asst Professor, D/o Water Resources and Ocean Engineering
7. Dr. Anupama Surenjan, Asst Professor, D/o Civil Engineering.

Representatives of the Basin States

1. Shri. Basavaraju, Chief Engineer, Almatti Dam.
2. Shri Rajesh, Registrar, AICWRM, Bengaluru.
3. Dr. P. Rao, Technical Director, AICWRM, Bengaluru.