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Azadi Ka
Amrit Mahotsav



भारत 2023 INDIA

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JAL-VIKAS

July - 2023

जल विकास

जुलाई - 2023



राष्ट्रीय जल विकास अभिकरण की आंतरिक पत्रिका
(Inhouse Bulletin of National Water Development Agency)

Activities of NWDA at a Glance



Review meeting taken by DG, NWDA on 12.04.2023 to finalize Work Programme 2023-24



Members of the TAG-KBLPA visited the site of proposed Daudhan Dam Axis and its components on 14.04.2023



Meeting of CEO, KBLPA/DG, NWDA on 15.04.2023 with Collector, Panna regarding packages to be given to the project affected families of KBLP



2nd Meeting of TAG- KBLPA held during 14.04.2023-15.04.2023 under the chairmanship of Shri D.P. Bhargava, Former Director, (Technical), NHPC at Khajuraho.



AEs/JEs of NWDA visited CWPRS models on 18.04.2023 as a part of the Induction Training Program conducted at NWA, Pune.



Meeting with Engineer-in-Chief and HoD, I&WRD, UP for expediting the work of KBLP on 27.04.2023 at Lucknow.



From DG's Desk

It gives me immense pleasure in placing quarterly issue of "Jal Vikas - July 2023", the in-house bulletin of NWDA which gives a recap of works, functions and activities of NWDA particularly with respect of ILR programme of DoWR, RD&GR of MoJS.

During the reporting period various works related to implementation of Ken-Betwa Link Project are going on. In this connection, Division offices at Bhopal, Jhansi & Chhattarpur are already functioning and a new Sub-Division office at Panna is going to open shortly. 2nd & 3rd Meeting of Technical Advisory Group of KBLPA (TAG-KBLPA) and 4th Meeting of Steering Committee of Ken-Betwa Link Project (SC-KBLP) and Ken-Betwa Link Project Authority (KBLPA) were held to finalize the tender documents for Daudhan dam & appurtenant works and to deliberate various issues related to implementation of the project. Final DPR of Damanganga (Ekdare) - Godavari (Waghad) Intra-State Link Project has been submitted to Govt. of Maharashtra. 2nd meeting of the Sub-Committee for "Comprehensive Evaluation and System Studies on Interlinking of Rivers" was also successfully organised to finalise the System Studies of Mahanadi-Godavari link and to discuss the progress of ongoing System Studies of other four links viz; Manas-Sankosh-Tista-Ganga, Ganga-Damodar-Subernarekha, Subernarekha-Mahanadi and Farraka-Sunderbans Link Projects. An Induction Training Programme for the newly recruited Assistant Engineers and Junior Engineers of NWDA had been organized at National Water Academy (NWA), Pune from 17.04.2023 to 28.04.2023.

While flipping through the pages of the July, 2023 Issue, you can see an article on "Godavari (Inchampalli) - Cauvery (Grand Anicut) Link Project" which is one of the priority link of NWDA and another article on "Recurrent Floods of Bihar – A case Study". Technical Digest giving the status of the technical studies being done by NWDA; ILR in Parliament; Water Resources in Media; Glimpses of NWDA incorporating briefing of meetings and activities conducted by NWDA; Appointments, Promotions and Retirements of NWDA Officials Family Corner and Poems etc., could also be find in the magazine.

I wish this issue of Jal Vikas, will give a brief overview of the activities and accomplishment of NWDA in ILR Sector. Our efforts to further improve and expand the Jal Vikas Issues of NWDA will continue, it would be possible by your timely contributions, support and suggestions.

(Bhopal Singh)
Director General

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The views and opinions expressed by the Authors are their own and not necessarily of NWDA.



Functions of National Water Development Agency

The then Ministry of Irrigation [now Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation (MoJS, DoWR, RD & GR), Government of India, formulated a National Perspective Plan (NPP) in the year 1980 for optimum development and utilization of Water Resources of our country India. The NWDA was set up as a Society under the Ministry in July 1982 to give a feasible shape to the proposal of the NPP with the following functions:

- To carry out detailed surveys and investigations of possible reservoir sites and interconnecting links in order to establish feasibility of the proposal of Peninsular Rivers Development Component (1981)* and Himalayan Rivers Development Component (1994)* forming part of the NPP for Water Resources Development prepared by the then Ministry of Irrigation (now MoJS, DoWR, RD & GR) and Central Water Commission(CWC).
- To carry out detailed studies about the quantum of water in various Peninsular River Systems (1981)* and Himalayan River Systems (1994)* which can be transferred to other basins/States after meeting the reasonable needs of the basin/States in the foreseeable future.
- To prepare feasibility report of the various components of the scheme relating to Peninsular Rivers Development (1981)* and Himalayan Rivers Development (1994)*.
- To carry out surveys and investigations work and prepare Detailed Project Reports (DPRs) of river link proposals under the NPP for Water Resources Development and thereafter approach concerned States for obtaining concurrence for implementation of the project(2020)*.
- To prepare Pre - Feasibility Reports (PFRs)/ Feasibility Reports (FRs) (2006)*/ DPRs (2011)* of the Intra - State links as may be proposed by States. The concurrence of the concerned co-basin States for such proposals may be obtained before taking up their FRs /DPRs.
- To undertake/construct/repair/renovate/rehabilitate/implement the projects either of its own or through an appointed agency /organization/PSU or Company and the projects forming part of Interlinking of Rivers, for completion of projects falling under Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)of which projects under Accelerated Irrigation Benefits Programme (AIBP) are also included and similar other projects(2016)*.
- NWDA to act as a repository of borrowed funds or money received on deposit or loan given on interest or otherwise in such manner, as directed by the then Ministry of Water Resources, River Development and Ganga Rejuvenation (now the MoJS, DoWR, RD & GR) and to secure the repayment of any such borrowed funds/money received on deposits/loan etc. by way of mortgage, pledge, charge or lien upon all or any other property, assets or revenue of the society both present and future (2016)*.
- To do all such other things the Society may consider necessary, incidental, supplementary or conducive to the attainment of above objectives (1981)*.
- To support Ken-Betwa Link Project Authority (KBLPA) as specified in Memorandum of Agreement (MoA) signed on 22nd March, 2021 for implementation of KBLP.

* Year of Gazette Notification



Highlights of NWDA Activities during the Quarter

- 4th meeting of Consultancy Evaluation Committee (CEC) for engagement of Project Management Consultancy (PMC) Services for Ken-Betwa Link Project Authority (KBLPA) held at New Delhi on 05.04.2023.
- ID, NWDA, Bhubaneswar attended the closing ceremony of Nadi Utsav-2023 at Budhabalanga river, Mayurbhanj, Odisha on 12.04.2023.
- DG, NWDA attended meeting taken by Hon'ble Minister, MoJS regarding Eastern Rajasthan Canal Project (ERCP) at Chamber of Hon'ble Minister of Jal Shakti, New Delhi on 13.04.2023.
- 2nd meeting of Technical Advisory Group of Ken-Betwa Link Project Authority (TAG-KBLPA) under the Chairmanship of Shri D.P. Bhargava, Former Director, (Technical), NHPC, Faridabad held from 14.04.2023 - 15.04.2023 including site visit to Daudhan Dam site at Khajuraho to finalize Tender documents of Daudhan Dam, Approach Path, Infrastructure Facilities etc.
- Newly recruited AEs and JEs of NWDA attended the Induction Training Programme organized by National Water Academy (NWA) Pune from 17.04.2023 to 28.04.2023.
- DG, NWDA had a meeting with Mr. Ajay Tirkey, Secretary, Ministry of Rural Development, Department of Land Resources regarding Ken-Betwa Link Project (R&R) at New Delhi on 19.04.2023.
- Final report of Model Water Balance Study (Hydrological Studies) of Kuno river using System Studies and modelling techniques received from Indian Institute of Technology (IIT) Roorkee after incorporation of comments to CE(N) office on 19.04.2023.
- 5th meeting of the Consultancy Evaluation Committee (CEC) for the Engagement of Project Management Consultancy (PMC) Services for Ken-Betwa Link Project Authority (KBLPA) was held on 27.04.2023 at Lucknow under the chairmanship of CEO, KBLPA / DG, NWDA.
- 3rd meeting of Technical Advisory Group of Ken-Betwa Link Project Authority (TAG-KBLPA) was held under the Chairmanship of Shri D.P. Bhargava, Former Director, (Technical), NHPC, Faridabad on 04.05.2023 to finalize tender documents of Daudhan Dam at New Delhi.
- Executive Engineer, ID, Chennai attended the 13th meeting of the Standing Committee for Southern Zonal Council held on 05.05.2023 at Chennai.
- DG, NWDA attended meeting on India-Bhutan Cooperation in Hydropower Sector- Issues and Concerns held on 11.05.2023 at New Delhi.
- DG, NWDA attended meeting with Shri Atish Chandra, Additional Secretary, PMO - regarding NIRA in PM Office on 12.05.2023.

- Draft DPR of Renovation of Mahoba tanks and its connecting canal has been submitted by CE(N) to HQs and Govt. of U.P. for observations on 04.06.2023.
- 4th meeting of the Steering Committee of Ken-Betwa Link Project (SC-KBLP) held under the Chairmanship of Secretary, DoWR, RD&GR at New Delhi on 05.06.2023.
- PWBS of Jamni sub- basin of Betwa basin has been revised (4th Revision) and circulated on 19.06.2023 by CE(N), Lucknow.
- ACEO (H.W) and ACEO (Environment, L.A. and R&R), KBLPA have joined KBLPA office at Bhopal.
- 4th meeting of Ken-Betwa link Project Authority (KBLPA) was held under the Chairmanship of CEO, KBLPA / DG, NWDA on 22.06.2023 at Bhopal.
- CEO, KBLPA, New Delhi discussed with Additional Chief Secretary, WRD, Govt. of M.P. regarding Land Acquisition issues of KBLP on 22.06.2023.
- Topographical survey of canal alignment and hydrographic/ bathymetric survey for proposed barrages at Sarda, Kosi, Ganga and Ramganga rivers of Sarda-Yamuna link project is under progress.
- Presentation has been made by Chief Engineer (N), NWDA on the topic "River Linking Projects- progress and opportunities" on 27.06.2023 during 5th edition of conference on irrigation systems in India conducted by India infrastructure from 26- 27 June held at Lucknow.
- 2nd meeting of the "Sub Committee for Comprehensive Evaluation and System Studies on Interlinking of Rivers" held under the chairmanship of Shri A.B. Pandya, Secretary General, ICID on 30.06.2023 at Roorkee in hybrid mode.
- Final Detailed project report of Damanaganga (Ekdare)-Godavari (Waghad) intrastate link project (6 volumes) submitted to the Chief Engineer, NMR, WRD, Nashik, Govt. of Maharashtra on 30.06.2023.

Godavari (Inchampalli) - Cauvery (Grand Anicut) Link Project

***S. R. Mahor**

National Perspective Plan (NPP) for Water Resources Development

Realizing the need for achieving a balanced regional development, the erstwhile Union Ministry of Irrigation (now Ministry of Jal Shakti), formulated a National Perspective Plan (NPP) for water resources development in the year 1980 which comprises two components viz. the Himalayan rivers development and the Peninsular rivers development.

Peninsular rivers development

This scheme envisages, as its first part, the diversion of surplus flows of the Mahanadi to the Godavari system and further transfer along with the surplus water from Godavari basin to the Krishna, Pennar, Cauvery, Vaigai and Gundar basins through the nine link system.

The nine-link system connecting Mahanadi, Godavari, Krishna, Pennar, Cauvery, Vaigai and Gundar rivers is the most important component of the National Perspective Plan (NPP) for augmenting the water availability in deficit peninsular river basins.

This would benefit areas of Andhra Pradesh, Karnataka, Odisha, Tamil Nadu, Telangana and Puducherry.

Background of Godavari (Inchampalli) – Cauvery (Grand Anicut) (G-C) Link

The nine link system has been planned based on the proposed storages at Manibhadra on Mahanadi river & Inchampalli on Godavari river. These two dams have not been taken up so far by the State Governments in view of submergence and Inter-State issues.

This link system envisages the transfer of about 21,520 MCM of surplus water of Mahanadi and Godavari basins to Krishna, Pennar, Cauvery, Vaigai and Gundar river basins. Moreover, the water balance in the Godavari basin has reduced significantly in view of the planning of more schemes by states.

Keeping in view of above, it is proposed that the originally contemplated nine link system will be taken up in two phases.

Superintending Engineer (South), NWDA, Palika Bhawan, New Delhi.

- a) Phase I: Identifying surplus waters in Godavari basin without affecting the interests of the co-basin States and transferring these waters upto Cauvery through Godavari - Krishna - Pennar - Palar – Cauvery link system while meeting the requirements of the areas enroute, to the extent possible.
- b) Phase II: Linking Brahmaputra - Ganga - Subernarekha - Mahanadi - Godavari rivers, thus enriching the Phase I with suitable modifications.

Surplus water available in Godavari for transfer

In the current study the water balance in Godavari basin between Sriramsagar Project (SRSP) and Inchampalli has been estimated as 5002 MCM (177 TMC) at 75% dependability, after duly considering all the existing, ongoing and proposed upstream reservations and downstream commitments in the basin. While working out the surplus water at Inchampalli, about 2978 Mm³ is estimated as requirement of proposed major and medium irrigation projects of Chhattisgarh in Indravati sub-basin. Further, about 1477 Mm³ of water is earmarked for evaporation losses from the proposed hydropower projects of Chhattisgarh in Indravati sub-basin. These projects in Chhattisgarh are likely to take a few more years for their implementation. Thus, the total water available in Godavari basin for planning in peninsular component of inter-basin water transfer will be about $(5002+2978+1477-266)=9191\text{Mm}^3$ (**324 TMC**) after duly deducting the regeneration (266 Mm³) from the proposed major & medium irrigation projects which was estimated to be available while assessing the water balance. However, conservatively, about 7000 Mm³ (247 TMC) only is proposed to be diverted during monsoon season from river Godavari to Krishna and further south.

Views of Central Water Commission (CWC) for water availability

The CWC carried out the water availability studies of Indravati sub-basin of Godavari basin (Nov, 2016) considering inflows at Pathagudem G&D site for the period from 1985 to 2014 according to which, the gross yield at 75% dependability is 23170 MCM. Thus, the yield of 21166 MCM as assessed by NWDA is on the conservative side and the same is used for planning. Further CWC clarified that after complete utilization of its share by Chhattisgarh, the availability of 247 TMC may only be possible at 50% dependability.

Basis for preparation of DPR

NWDA prepared a technical feasibility note for diversion of 7000 Mm³ from Godavari to Cauvery and sent to Govt. of Chhattisgarh, Telangana, Andhra Pradesh, Tamil Nadu, Puducherry, Karnataka, Odisha in December, 2017 for their views. In response to the above, Governments of Chhattisgarh, Tamil Nadu, Puducherry and Telangana submitted their views/comments.

In the meeting held with the Hon'ble Minister, Water Resources, Govt. of Chhattisgarh, on 17.05.2018, the Hon'ble Minister (DoWR, RD& GR), Govt. of India opined that survey & investigation and preparation of DPR are part of consensus building process and NWDA should first undertake and complete the DPR before approaching the States concerned for concurrence. During the 6th SGM held simultaneously with the 33rd AGM of NWDA Society on 21.08.2019, the modification in the functions of NWDA Society was approved and NWDA may carry out surveys & investigations work and prepare DPRs of river link proposals under the NPP and thereafter approach concerned States for obtaining concurrence for implementation of the project. This modification was later on accepted by the Hon'ble Minister of Jal Shakti being the President of the NWDA Society and the amendment in regard of the modifications in the Objectives of NWDA Society was issued by the Ministry of Jal Shakti vide Resolution dated 16.03.2020 and published in the Gazette of India dated 17.03.2020. Accordingly, NWDA has taken up the preparation of DPR of Godavari (Inchampalli) – Cauvery (G-C) link project as per assigned functions. The draft DPR of G-C link project has been prepared and circulated to concerned States in March 2019 for their views. The said DPR shall form the basis for consensus building on water sharing etc. among the concerned States.

Firming up the proposal of G-C link as per DPR (with transfer of 7000 MCM water)

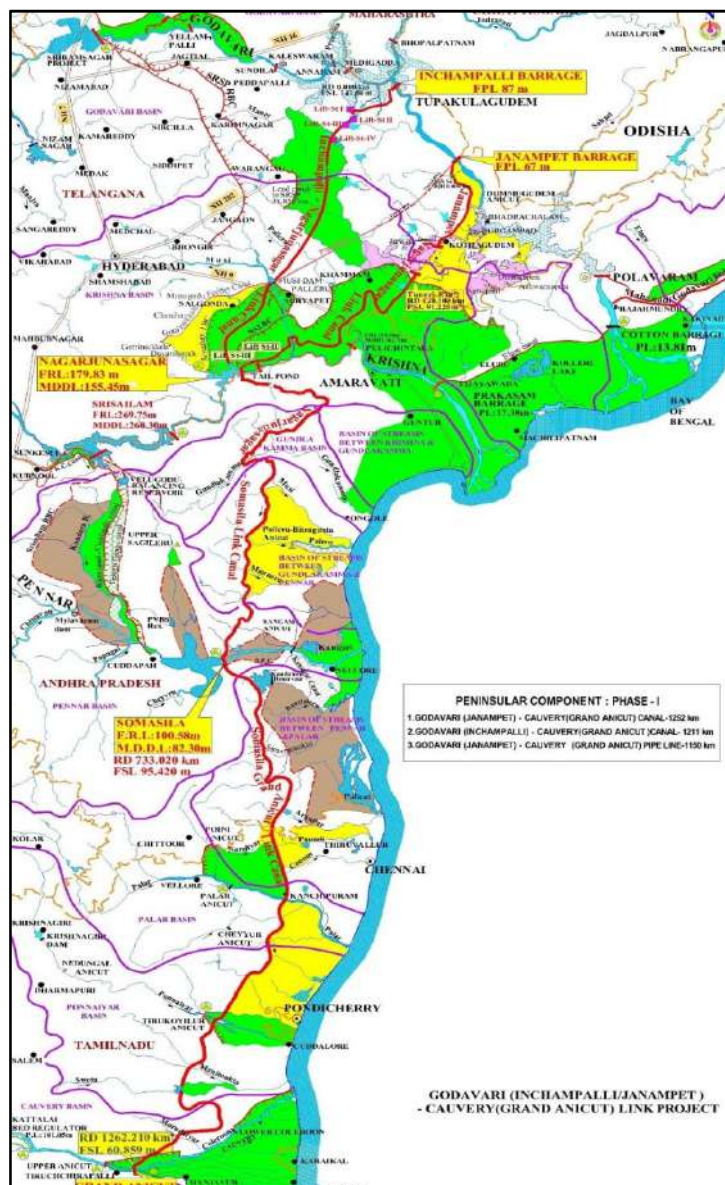
The G-C link project traverses through Godavari, Krishna, Pennar, Palar and Cauvery basins and lies in the States of Telangana, Andhra Pradesh and Tamil Nadu. The alignment of the link canal passes through the districts of Jayashankar, Bhoopalapally, Warangal, Nalgonda of Telangana; Guntur, Prakasm, Nellore, Chittoor districts of Andhra Pradesh and Tiruvallur, Kancheepuram, Tiruvannamalai, Villupuram, Cuddalore, Perambalur and Tiruchirapalli districts of Tamil Nadu.

The Godavari–Cauvery link project comprise of the following three link components.

- i. Godavari (Inchampalli) - Krishna (Nagarjunasagar) link (299 km)
- ii. Krishna (Nagarjunasagar) - Pennar (Somasila) link (393 km)
- iii. Pennar (Somasila) - Cauvery (Grand Anicut) link (519 km)

The length of G-C link canal is about 1211 km from the proposed Inchampalli barrage to Grand Anicut via existing Musi, Nagarjunasagar, Somasila reservoirs, comprising open canal, lifting arrangements and 5nos. of tunnels of various lengths.

The link canal off-takes through an approach channel of 10 km from the proposed Inchampalli barrage with full pond level of 87 m, traverses over 299.26 km including a tunnel of 9.15 km length for crossing the bridge between Godavari and Krishna basins and falls into the existing Nagarjunasagar reservoir via Musi reservoir. The link canal crosses Peddavagu, Tummalagutta and Musi reservoirs enroute. Further, the link canal off-takes from Nagarajunasagar reservoir and falls into Somasila reservoir across Pennar at RD 692.276 km. The link canal then off-takes from the Somasila reservoir and eventually falls into the Grand Anicut across the Cauvery river at RD 1210.84 km. The existing Grand Anicut as out-fall structure on river Cauvery with Full Pond Level 59.22 m.



The link canal has been designed for design discharge of 1090 cumec having 109.60 m bed width & FSD is 6.75 m at off-take point and 351 cumec, 70m and 4.5 m respectively at tail end of the canal. Keeping in view the upstream utilizations, downstream commitments and the minimum lean season flow in the Godavari river, the diversion of water is proposed only during the monsoon months. The maximum diversion is kept at 62.3 MCM (2.2 TMC) per day during the monsoon months from June to October. It is estimated that about 7000 MCM (247 TMC) of water will be available for transfer during 143 days. Further, about 7876 MCM of water will spill downstream during the period from July to October. However, conservatively, the annual diversion is limited to 7000 MCM (247 TMC) through the link project.

The Command area proposed under G-C link project lies in the States of Telangana, Andhra Pradesh and Tamil Nadu. The total culturable command area under the link project is 887022 ha, of which (i) 367305 ha(AI-367305 ha)lies in the initial reach between Godavari (Inchampalli) to Krishna (Nagarjunasagar), (ii) 258017 ha (AI-294017 ha) will be in the middle reach between Krishna (Nagarjunasagar) to Pennar (Somasila) (iii) 261700 ha (AI-283250 ha) in the last reach between Pennar (Somasila) to Cauvery (Grand Anicut) reach. The area is proposed to be irrigated with 100% intensity for new areas of 4.31 lakh ha and with 138% to 140% intensity of irrigation for stabilization of the existing command areas. In all, the link project will provide irrigation to an area of 944572 ha annually. The total cost of G-C link project is Rs.85962.36 Crore at 2020-21 price level. The Annual cost of the project is Rs.1096827 lakh and the direct annual benefits from the project is work out to Rs.1359189 lakh. The benefit - cost ratio (BCR) of the G-C link project has been estimated to be 1.24 and internal rate of return (IRR) is 11.90%.

Water Planning of G- C link

Out of the total diversion of 7000 MCM of water, about 5049 MCM will be used for irrigation, 512 MCM will be used for domestic and 944 MCM is proposed for industrial use and the remaining 495 MCM will be lost in transmission. In addition, about 1.41 Crore population of three States are also served by domestic water supply.

State wise water use under the Godavari (Inchampalli) – Cauvery (Grand Anicut) link project is furnished below:

(Unit: MCM)

Sl. No.	Name of the state	Irrigation			Domestic water supply	Industrial water supply
		New area	Stabilisation	Total		
1.	Telangana	339	1384	1723	48	92
2.	Andhra Pradesh	1137	846	1983	119	161
3.	Tamil Nadu	783	560	1343	345	691
	Total	2259	2790	5049	512	944

Power Potential

About 3845 MU of power will be required for lifting waters from Inchampalli. On the other hand, the link project generates hydropower and solar power all along the link canal.

The actual annual energy generation will be about 366 MU from two power houses of 180 MW. In addition, the solar power potential from the 1211km long

canal of G-C link project by providing solar system on canal top is estimated to 10657 MU with an installed capacity of 5328 MW.

Consensus building among the States

The draft DPR of the G-C link project was prepared by NWDA and circulated to concerned States in March 2019 for their views. The views of the States were discussed on various fora and some of the apprehensions were addressed. The state of Chhattisgarh has conveyed that they will be using their allocated share in the Indravati basin fully.

Finally, in an attempt to finalise the DPR, a consultation meeting with the concerned States was held by DG, NWDA on 18th September, 2020. After detailed discussions, DG, NWDA requested the States to submit their observations/further comments, if any, by 15th October, 2020 enabling NWDA to finalise the draft DPR. In response, a no. of States submitted their further comments for consideration by NWDA in the finalization of the DPR.

The DPR of G-C link project has been finalized incorporating the feasible points of the States and was circulated in April, 2021 for inviting their comments/views. Some States viz. Karnataka, Andhra Pradesh, Tamil Nadu, Kerala, Puducherry etc. have offered their comments on the final DPR.

In this background, 2nd consultation meeting on Godavari – Cauvery link project with the States was organized on 29.10.2021 at Hyderabad for further reconciliation the differences on technical aspects so that consensus building process can be initiated at higher level for implementation of the link project. All the party states participated in the meeting and reiterated their stand on the DPR of G-C link project.

The issue of consensus building was also deliberated during the meetings of NWDA Society held on 12.11.2021 and in the Governing Body of NWDA held on 19.01.2022.

The 3rd meeting was held by the Secretary, DoWR, RD & GR, MoJS on 18.02.2022 at New Delhi with Additional Chief Secretary/Principal Secretary of key States i.e. Andhra Pradesh, Telangana, Karnataka & Puducherry. Against the observations of the concerned party States on the availability of surplus water in Godavari, the Chairman, CWC opined that about 4000 MCM of water would be available for diversion to the Southern basins. It is also informed that as decided in the meeting, the proposal for vetting and finalization of hydrological study of Godavari basin was submitted to the CWC during March, 2022 and outcome/result of the study received and circulated during December, 2022 to the concerned States.

Status of consent of the concerned States for Implementation of the G-C link project

- The Govt. of Odisha gave the consent to go ahead for further implementation of link.
- The Govt. of Maharashtra and Madhya Pradesh also gave the consent with intimation that the States are free to use allocated water of Godavari as per Tribunal Award (GWDT).
- The Govt. of Puducherry also gave the consent with condition that water for Domestic & Industrial use to be provided to UT.
- The Govt. of Chhattisgarh is not agreed with the interim transfer proposal as share of Chhattisgarh in Indravati River kept intact for future project utilization.

Revised proposal of G-C link (with transfer of 4000 MCM water)

In view of the significant time required for firming up Phase-II of the project (with supplementation from Mahanadi and Himalayan component), as an interim planning, NWDA has prepared a preliminary Technical study envisaging diversion of 4000 MCM instead of 7000 MCM of water from Godavari to Krishna, Pennar and Cauvery basin areas.

The 4th Consultation meeting was held on 18.10.2022 to discuss the technical study carried out by NWDA with 4000 MCM of water for diversion from Godavari towards Cauvery and to reach consensus. Technical Feasibility Report (TFR) with diversion of 4000 MCM has been prepared and circulated to all concerned party states on 28.12.2022.

Some important points regarding G-C Link Project

As per the request of Tamil Nadu an alternate alignment for 3rd reach of G-C link considering the outfall point at Kattalai barrage instead of Grand Anicut has been studied. In this regard, a PFR namely Pennar (Somasila) - Palar - Cauvery (Kattalai) link project has been made and sent to the concerned states for their views.

As per the request of Govt. of Karnataka a provision of 280 MCM of water for Domestic and Industrial use on substitution basis through Almatti dam utilizing in Malaprabha sub basin has been made.

A provision of 62 MCM of water has also been made for Domestic and Industrial use of Govt. of Puducherry UT.

It was decided in the 17th meeting of the Task Force for ILR held on 06.03.2023 that NWDA can take up preparation of DPR of proposal of transfer of

4000 MCM by taking care of suggestions of party States to the extent possible and also prepare a Draft MoU and circulate it to party States for consideration.

PFR of Pennar-Palar-Cauvery (Kattalai) link (An alternate proposal for 3rd reach of G-C link)

The PFR study of Pennar-Palar-Cauvery (Kattalai) link (An alternate proposal for 3rd reach of G-C link) resulted in BC ratio of 1.21 against 1.24 arrived while terminating the link project at Grand Anicut. Irrespective of the lower magnitude of the economic parameter, this alternative link alignment is not found techno-economic viable.

Key Issues and Opportunities

- No state is willing to accept that there is surplus water in lower reaches of Godavari basin even in Indravati sub-basin.
- All the states/UT are demanding more water in the phase-I itself.
- The provisions for water allocations by various tribunals like GWDT, KWDT and CWDT and sharing of transferred water are challenge to this Inter-basin water transfer proposal.
- The proposed transfer of water to a basin based on feasible and optimal utilization as per link alignment is contested by co-basin States.
- High cost and Power Requirement
- Requirement of Land Acquisition

Conclusion

The project provides an opportunity for inter-state cooperation in water development and management, jointly for deriving the early benefits from inter-basin water transfer through interlinking and making the region more water-secure as well as food secure. The project will pave way for integrated water management in the region and Inter-state co-operation.

Recurrent Floods of Bihar–A case study

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Bihar is a State situated in eastern part of India. The present-day Bihar, after a separate State of Jharkhand was carved out of the erstwhile Bihar in November, 2000, can be considered as comprising two distinct hydrological regions, North Bihar lying north of river Ganga upto its border with Nepal, and south Bihar lying south of river Ganga adjoining Jharkhand. While most of Bihar lies in the Ganga basin, north Bihar is drained by rivers originating in the Himalayas and Nepal and south Bihar is drained by rivers originating in the Vindhyan, Chhotanagpur and Rajmahal hills. All these rivers join the Ganga basin at various confluence points lying mostly in Bihar.

The significance of Bihar in the context of the scheme of inter-basin transfer of water arises primarily from the fact that rivers of north Bihar cause recurrent floods, i.e. they carry more water than they can contain within their banks and hence it is concluded that if this excess flow is transferred to a water-deficit river / basin, it will not only provide valuable water to serve its needs but would also solve the problem of floods in north Bihar. But it will be worthwhile to scientifically and analytically examine the regime behind recurrence of floods in north Bihar.

In the case of north Bihar, recurrent occurrences of floods are caused by a combination of factors:

i) Hydrometeoro logical factor:

The catchment area of north Bihar rivers receive almost 85 percent of their annual precipitation during four months of the south-west monsoon during June-September, mostly concentrated during the months of July and August. The annual precipitation varies from around 140 cm in the north Bihar plains to 300 cm on the southward slopes of Himalayan parts of the catchment lying in northern pockets of Nepal.

ii) Hydrological factor:

On an average, more than 60 percent of the aggregate catchment areas of rivers of north Bihar lie in high precipitation region outside north Bihar, mostly in Nepal. The major parts of the flood flows in these rivers are formed in their upper catchments in Nepal.

iii) Topographical factor:

Catchments of rivers of north Bihar undergo a very large and sharp change in gradients from very steep in the mountainous regions to steep in the sub-mountainous regions to extremely mild in the plains of within a relatively short stretch of 300 km.

iv) Hydraulic factor:

When high flows resulting from runoff transformation of seasonally concentrated precipitation in higher-precipitation upper catchment areas travel from steep gradients and encounter milder gradients downstream, they exceed the capacity of rivers in their lower reaches. So they spill over the banks and inundate the floodplains.

v) Demographic factor:

As the inundated floodplains support habitation and other activities of a high-density population such as agriculture, etc., floods cause recurrent disruptions, damages to the human settlements leading to devastations on large scale.

Thus, it can be seen that recurrent floods and resulting damages in north Bihar are caused not by high flows in the river alone but due to a combination of the above mentioned factors. In any case, recurrent floods in north Bihar constitute a case of ill management of water resources rather than being an indication of water being in surplus on an annual and basin wide scale.

Inter-Basin Water Transfer at rescue

Various inter-basin water transfer links considering Bihar as a party State have been proposed under National Perspective Plan (NPP), namely Kosi – Ghaghra, Chunar – Sone Barrage, Sone Dam – Southern Tributaries of Ganga, Ganga (Farakka) – Damodar – Subernarekha Links. Also, some Intra-State links have been proposed by the Government of Bihar in order to manage the water resources of the State in an efficient manner, namely Kosi–Mechi, Kosi-Ganga, Burhi Gandak–None– Baya-Ganga Links, etc. These Inter-State links in conjuncture with Intra-Sate links will not only make north Bihar free from recurring floods but also give rise to other beneficial uses of water – consumptive as well as non-consumptive – such as for irrigation, hydropower generation, water transport, industrial & municipal uses.

Technical Digest

The technical work programme of NWDA mainly consists of preparation of DPR/FR/PFR of various link projects coming under the NPP as well as Intra-State links as proposed by State Governments of India; post DPR activities; modifications and scrutiny of FRs; System Studies of links and Revision of Water Balance Studies (WBS) of River Basins/Sub-Basins and at Diversion Sites as per the requirement. Details of present status and the progress achieved on the above cited works during the reporting period starting from 01.04.2023 to 30.06.2023 are as follows:

I. Present Status of Preparation of DPRs

Sl. No.	Name of Link Project	Present Status of Preparation of DPRs
1.	Krishna (Srisailem)-Pennar	Draft DPR of this Link Project is completed and submitted to HQs on 16.03.2023 and is under scrutiny at HQs.
2.	Godavari (Sitarama LIS) - Krishna (Pulichintala) [renamed as Godavari (SSMPP) - Krishna (Pulichintala)]	Draft DPR was submitted to HQs during May, 2022 and revised based on the observations & comments of HQs. The report is to be modified slightly and resubmitted by the Field Office.
3.	Bedti -Varada	Draft report was completed and submitted to Govt. of Karnataka for comments/observations.
4.	Krishna (Almatti) - Pennar	Draft DPR of Krishna (Almatti) – Pennar Link Project completed and submitted to HQs on 20.03.2023.
5.	Damanganga (Ekdare) – Godavari (Waghad) (Intra-State Link Project)	Final DPR of Damanganga (Ekdare) - Godavari Link Project was completed and submitted to Govt. of Maharashtra on 15.03.2023. Observations on the DPR received from WRD, Govt. of Maharashtra on 24.03.2023 and revised DPR is submitted to CE, NMR, WRD, Nashik on 30.06.2023.
6.	Damanganga (Val/Vagh) –Vaitarna - Godavari (Kadva Dev) (Intra-State Link Project)	Draft DPR was submitted to Govt. of Maharashtra in December 2021. Modification of the draft DPR based on observations of CE, NMR, WRD, Nashik and HQ, NWDA is under progress.
7.	Subarnarekha-Mahanadi	Preparation of DPR is under progress. DG, NWDA conducted a review meeting on the progress of preparation of DPR with the officials of CWC, Faridabad. The SE & EE, CWC Faridabad along

Sl. No.	Name of Link Project	Present Status of Preparation of DPRs
		with NWDA officers visited the Singlijhore reservoir towards finalisation of reservoir site.
8.	Mahanadi (Barmul)-Godavari (Dowlaiswaram) (MG)	NIT for detailed topographical & hydrographic survey of dam axis near Barmul village across Mahanadi River, Link alignment, CD & CM structures, Tunnels, Power houses & Camp colonies etc. of (Reach – I) has been modified and re-submitted to CE (N) office on 16.06.2023. Draft NIT for drilling work and modified draft NIT for Link alignment survey, CD & CM structures, Tunnels & Camp colonies etc. & drilling work for reach II are under finalisation in Circle office. Preparation of draft chapters are under progress.
9.	Manas-Sankosh-Tista-Ganga (MSTG)	Work order for carrying out the Mahananda river survey has been issued to the firm and work is under progress. Draft NIT for revised link canal alignment survey & Geotechnical (Drilling work) are under finalisation. Preparation of draft chapters of DPR are under progress.
10.	Ganga-Damodar-Subarnarekha (GDS)	Alignment for DPR is under finalization at CE(N) office, Lucknow. Tender document for carrying out topographical survey of GDS link for preparation of DPR is under preparation.
11.	Sarda-Yamuna	130 km DT levelling for transfer of levels from GTS bench marks and Topographical survey by Drone/Lidar along the alignment for 200 km is completed. Bathymetric survey of Kosi & Ganga river is completed and for Ramganga river it is under progress. Marking of command area as per latest maps & information and data collection is under progress. Draft chapters of DPR are under preparation.
12.	Modified Parbati-Kalisindh-Chambal	Preparation of DPR for ERCP by WAPCOS; Hydrology, Water Balance by CWC; DPR of Kumbhraj dam by NWDA; and DPR of SMRS dam, Ranjit Sagar, Lakhunder etc. by WRD, MP are under progress. The estimate for preparation of DPR of ERCP for Rs. 2.2 Crores is received from WAPCOS. Data of G&D sites, Rainfall, Salient features of projects, Utilisation data of projects, Index map and line diagram of the PKC Phase-I link etc. as asked by CWC have been sent and

Sl. No.	Name of Link Project	Present Status of Preparation of DPRs
		the utilization data received from Govt. of Rajasthan has been supplied to the Director Hydrology (C), CWC to finalize the hydrology of various project locations and diversion points under Phase -I of modified PKC link. Data collection in respect of Ranjeet Sagar dam and Lakhundar barrage is under progress.

II. Present Status of Post DPR Activities

Sl. No.	Name of Link Project	Present Status of Post DPR Activities
1.	Ken-Betwa	Various works in respect of implementation of KBLP is under progress which includes Land Acquisition work, S&I works of 2 new barrages across Ken river, Stage-II Forest clearances & persuasion for clearance from CEC of Supreme Court, Model study of Daudhan dam, procurement of Project Management Consultancy Services for Ken-Betwa Link Project etc. During the reporting period 2nd & 3rd meetings of TAG-KBLPA, 4 th meeting of SC-KBLP and KBLPA have been held to finalize the tender documents for Daudhan dam & appurtenant works and deliberate various issues related to implementation of the project.
2.	Godavari (Sammakka Sagar Barrage) - Cauvery (Grand Anicut)	Final draft report was circulated to the party States during 2021. Consensus building among party States is under progress.
3.	Par-Tapi-Narmada and Damanganga-Pinjal	Draft MoU on sharing of water was sent to Govt. of Maharashtra and Govt. of Gujarat for concurrence. The issue is being pursued at higher level by NWDA, HQ and MoJS with Govt. of Maharashtra & Gujarat to get consensus on the MoU. Modification of the DPR incorporating the latest available data is under progress.
4.	Kosi-Mechi (Intra-State Link Project)	Updation of Cost of DPR@PL 2022-23 of Kosi-Mechi Intra state Link Project of Bihar is under progress at ID, NWDA, Patna. In this context, a VC meeting was held between officials of WRD Govt. of Bihar, PAO CWC and DG NWDA including

Sl. No.	Name of Link Project	Present Status of Post DPR Activities
		officials of NWDA on 16.06.2023 for technical discussion regarding observations of WRD, GoB and CWC on updated cost of Kosi-Mechi link and further solution of unresolved comments.

III. Present Status of Preparation/Modifications of FRs/PFRs of Link Projects

Sl. No.	Name of Link Project	Present Status of Modification of FRs/PFRs
1.	Chunar-Sone Barrage	FR is being modified as per observations of CE (N), Lucknow and HQ offices based on PWBS of Ganga basin up to Chunar which is under revision.
2.	Kosi-Ghaghara	FR of Kosi-Ghagra link project has been completed submitted to CE(N), Lucknow on 22.03.2023.
3.	Sone Dam-STG	Command area survey and topographical survey work is completed. Other Investigation works are being taken up. Preparation of draft chapters are under progress.
4.	PFR of Bedti-Hirevaddati (Alternate study of B-V Link)	Draft PFR of the link project was prepared and submitted. As per the direction of CE(S) NWDA, Hyderabad the report is being modified considering Alternatives No-I & II.
5.	PFR of Godavari (Sammakka Sagar Barrage) - Cauvery (Grand Anicut) link project with a diversion of 15600 MCM water	Preparation of PFR is in progress.
6.	TFR of Godavari-Cauvery Link Project with diversion of 4000 MCM of water	TFR has been prepared and circulated. Draft replies to the comments of GoTN on TFR have been prepared and sent to Circle office. Identification of most needy areas of command is in progress. Monthly divertible quantity and the BC wise command area are being finalised for the revised quantum of diversion.
7.	Ghaghara-Yamuna	Work of topographical survey & work of procurement of Satellite Imagery has been awarded. Satellite Imageries and other data

Sl. No.	Name of Link Project	Present Status of Modification of FRs/PFRs
		provided to M/s Matrix Geo Solutions for topographical survey work.
8.	Gandak-Ganga	Work of topographical survey & procurement of Satellite Imagery has been awarded. Procurement for relevant data is under progress.

IV. System Studies of Link Project

Sl. No.	Name of Link Project	Present Status of System Studies
1.	System Study of Mahanadi (Barmul)-Godavari (Dowlaiswaram) (M-G) (By NIH, Roorkee)	NIH submitted the final report incorporating the comments/observations of experts/members of Sub-Committee/NWDA for vetting. Report was also discussed in 2 nd meeting of Sub-Committee of Comprehensive Evaluation and System Studies on ILR, held on 30.06.2023 towards its finalisation.
2.	System Study of Ganga-Damodar-Subarnarekha (By NIT, Patna)	Work is under progress at NIT, Patna. Progress report was sent by NIT, Patna to NWDA and it is discussed in the 2nd meeting of Sub-Committee [Comprehensive Evaluation and System Studies on ILR] held on 30.06.2023.
3.	System Study of Manas-Sankosh-Tista-Ganga (MSTG) (By IIT, Guwahati)	Inception report with progress report up to March, 2023 received from IIT, Guwahati on 02.05.2023 and observation on inception report has been submitted to CE (N) & HQ of NWDA. Progress of the study is discussed in the 2nd meeting of Sub-Committee for Comprehensive Evaluation and System Studies on ILR held on 30.06.2023.
4.	System Study of Farakka - Sundarban link (By NIH, Roorkee)	Groundwater levels and litho log data for groundwater modelling and generation of future projections for precipitation & temperature for the period 2021 - 2075 using the CMIP6 GCM models is under progress. Command area marking & modification in Google Earth is also under progress. Inception report with progress report up to March, 2023 received from NIH, Roorkee on 19.05.2023. Observations on inception report has been submitted to CE (N) & HQs by Field Office.

Sl. No.	Name of Link Project	Present Status of System Studies
5.	System study of Subarnarekha-Mahanadi Link (By NIT, Warangal)	Groundwater model, SWAT-MODFLOW was setup for all the basins under the link project. Inception Report and progress report upto March, 2023 is submitted by NIT, Warangal and observation on progress report submitted to HQs by Field Office.
6.	System Studies of Godavari-Krishna-Pennar-Cauvery-Vaigai-Gundar Link system.	For the consultancy work of System Studies of the link system 6 EoIs have been received which are under scrutiny and EoIs have also been requested from three institutes i.e. IISC Bangalore, IIT-Madras & IIT- Guwahati.

IV. Revision of Water Balance Studies (WBS)

During the reporting period, WBS of Jamini sub-basin of Betwa basin was revised & circulated and revision of 5 nos. of WBS are under finalisation for circulation. In addition to this, revision of 12 WBS are under progress. The work of Model Water Balance Study using System Studies and modelling techniques of Godavari basin between SRSP & Polavaram is being done by IIT, Roorkee. Model Water Balance Study Report of 8 sub-basins of Godavari basin between SRSP and Polavaram have been received from IIT, Roorkee and the same are under scrutiny at Division office. Capacity Building Training Program for the NWDA Staff was proposed from 03.07.2023 to 08.07.2023 for the Model Study.



ILR in Parliament

Here, the ILR issues raised and were discussed in both the houses of Parliament during the reporting period starting from 01.04.2023 to 30.06.2023 and projected on the Parliament of India website (Lok Sabha and Rajya Sabha) are incorporated for information to our readers/stakeholders. Budget session of Parliament was held from 31.01.2023 to 06.04.2023 with a recess from 14.02.2023 to 12.03.2023. So, during 01.04.2023 to 06.04.2023 one question was raised in the Rajya Sabha on ILR.

Rajya Sabha

1.1 The details of environmental resettlement and rehabilitation problems occurring in the implementation of Interlinking of River (ILR) projects including action taken thereon; whether there are certain difficulties/impediments that Government has not been able to address in the implementation of ILR projects; and if so, the details thereof along with the strategy chalked out in this regard?

Interlinking of Rivers (ILR) projects are water transfer projects and like other water resources projects, these link projects also entail issues related to impact of such projects on physical, biological and socio-economic environment, submergence of areas, displacement of people and their resettlement and rehabilitation. For dealing with such issues, a detailed Environmental Impact Assessment (EIA) study for the link projects under the National Perspective Plan (NPP) is carried out to identify positive and negative impacts of the projects on physical, biological and socio-economic environment during the preparation of Detailed Project Reports (DPRs). The study areas for conducting EIA studies are identified and after completing EIA studies, Environmental Management Plan (EMP) is prepared to suggest the actions to be taken for mitigating the impacts of the project on environment. Impact on air environment, land environment, noise environment, water environment, biological environment, socio-economic environment are studied in details.

Regarding Resettlement and Rehabilitation (R&R) issues of project affected persons / families, proper R&R plans are prepared at DPR stage as per "Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013".

The consensus building among the party States on the issues related to water sharing, etc. is the most challenging task for implementation of the ILR projects. The Government has accorded top priority to the ILR program and concerted efforts for building consensus amongst the party States have been made.

A "Special Committee on Interlinking of Rivers" has been constituted in September, 2014 for the implementation of ILR programme. 20 meetings of the Special Committee have been held so far. Further, a Task Force for Interlinking of Rivers has been constituted in April, 2015 for expediting the works under the ILR programme and 16 meetings of the Task Force have been held so far. States have wide representation and active participation in these meetings.

Implementation of an ILR project, however, depends upon the party States to reach a consensus.

Water Resources in Media

दैनिक जागरण, दिनांक: 05.04.2023

60% घरों तक पहुंचा स्वच्छ जल, पीएम ने कहा-असाधारण उपलब्धि

जागरण ब्यूरो, नई दिल्ली: जल जीवन मिशन के माध्यम से गांवों में साठ प्रतिशत घरों तक टैप के जरिये स्वच्छ पेयजल पहुंच गया है। जलशक्ति मंत्रालय के अनुसार, इस मिशन के क्रियान्वयन में इस साल के शुरुआती तीन महीनों में खास तौर पर तेजी आई है। इस दौरान औसतन हर दिन 86,894 नए टैप वाटर कनेक्शन दिए गए हैं। इस उपलब्धि को जिक्र करते हुए जलशक्ति मंत्री गजेंद्र शंखावत ने इस टर्जेंट के साथ कहा कि हमारे गांवों में 60 प्रतिशत घरों में सक्रिय टैपों के जरिये स्वच्छ पेयजल की आपूर्ति की जा रही है, जो कि जल जीवन मिशन के लिए एक मील का पत्थर है। इसके बाद प्रधानमंत्री नरेंद्र मोदी ने कहा कि यह असाधारण उपलब्धि है, जिससे तमाम लोगों का जीवन सुगम हुआ है। नोबल पुरस्कार विजेता डा. माइकल क्रैमर और उनकी टीम ने एक अध्ययन के आधार पर यह निष्कर्ष व्यक्त किया था कि अगर



- जल जीवन मिशन के तहत इस वर्ष हर दिन 86,894 कनेक्शन
- गजेंद्र शंखावत ने कहा- मिशन के सफल क्रियान्वयन से हासिल किया मील का पत्थर

परिवारों की पीने के लिए सुरक्षित पानी उपलब्ध कराया जाए तो 30 प्रतिशत शिशुओं की मृत्यु को रोक जा सकता है। पीएम मोदी ने 15 अगस्त 2019 को इस मिशन की घोषणा की थी। तब 19.43 करोड़ ग्रामीण परिवारों में केवल 3.23 करोड़ (16.65 प्रतिशत) परिवारों के पास ही नल का पानी उपलब्ध था। कोविड और रूस-यूक्रेन युद्ध के कारण पैदा हुए व्यवधानों के बावजूद इस मिशन के जरिये 11.66 करोड़ (60 प्रतिशत) से अधिक परिवारों को उनके घरों में नल से जल की आपूर्ति उपलब्ध कराई गई है।

दैनिक जागरण, दिनांक: 06.04.2023

अमृत काल के संकल्पों में ऊर्जा भर रहा मिशन अमृत सरोवर: मोदी

नई दिल्ली: प्रधानमंत्री नरेंद्र मोदी ने अमृत सरोवर मिशन के संकल्पों में ऊर्जा भर रहा है। उन्होंने कहा कि मिशन अमृत सरोवर के तहत देश के ग्रामीण क्षेत्रों में साठ प्रतिशत घरों तक टैप के जरिये स्वच्छ पेयजल पहुंचाया जाएगा। उन्होंने कहा कि मिशन अमृत सरोवर के तहत देश के ग्रामीण क्षेत्रों में साठ प्रतिशत घरों तक टैप के जरिये स्वच्छ पेयजल पहुंचाया जाएगा। उन्होंने कहा कि मिशन अमृत सरोवर के तहत देश के ग्रामीण क्षेत्रों में साठ प्रतिशत घरों तक टैप के जरिये स्वच्छ पेयजल पहुंचाया जाएगा।



मिशन अमृत सरोवर के तहत देश के ग्रामीण क्षेत्रों में साठ प्रतिशत घरों तक टैप के जरिये स्वच्छ पेयजल पहुंचाया जाएगा। उन्होंने कहा कि मिशन अमृत सरोवर के तहत देश के ग्रामीण क्षेत्रों में साठ प्रतिशत घरों तक टैप के जरिये स्वच्छ पेयजल पहुंचाया जाएगा।

दैनिक जागरण, दिनांक 19.04.2023

हरनन्दी के प्रदूषण पर अंकुश से जुड़ी परियोजनाओं को मंजूरी

प्रयागराज और हरिद्वार में घाटों का भी किया जाएगा विकास

जागरण ब्यूरो, नई दिल्ली: स्वच्छ गंगा राष्ट्रीय मिशन ने हरनन्दी नदी (हरिद्वार) के प्रदूषण को घटाने और कुंभ को तैयारियों को लेकर अलग नई परियोजनाओं को मंजूरी दी है, जिसकी कुल लागत 658 करोड़ रुपये होगी। मिशन के प्रयागराज जो अग्रणी कुम्भार की अध्यक्षता में कार्यकारी समिति को मंत्रालय को हुई बैठक में इन परियोजनाओं को मंजूरी दी गई।



यमुना की सहायक नदी हरनन्दी के प्रदूषण को रोकने के लिए 407.29 करोड़ की लागत से शासनी में चार नई परियोजनाएं शुरू की जाएंगी। ये परियोजनाएं च्यापक हरदोई पुनर्वसन योजना का हिस्सा हैं। हरनन्दी नदी को पल्लो प्रदूषणवाला नाला प्रदूषण नदियों का श्रेणी में रखा गया है। हरनन्दी की मुख्य सहायक नदी कुम्भी शासनी में बड़ी मात्रा में प्रदूषित जल को हरनन्दी में डालती है, जिसके चलते इस नदी का प्रदूषण बढ़ता ही जा रहा है। शासनी में जो चार परियोजनाएं शुरू की जा रही हैं, उनमें 50 लाख लिटर प्रतिदिन क्षमता वाले शिवजि ट्रीटमेंट प्लांट व पांच कैस्पिटी के सेप्टेज को ट्रीटमेंट फैसिलिटी

(चापक और चंदोखड़ा गांव), बनट करने में 50 लाख लिटर प्रतिदिन क्षमता वाला एस्टीपी, पांच कैस्पिटी के सेप्टेज को ट्रीटमेंट फैसिलिटी, शासनी कस्बे में चार करोड़ लिटर प्रतिदिन क्षमता वाला एस्टीपी व 20 कैस्पिटी का सेप्टेज को ट्रीटमेंट फैसिलिटी और शासनी कस्बे में एक करोड़ लिटर प्रतिदिन क्षमता वाला एस्टीपी और सेप्टेज फैसिलिटी शामिल हैं।

2025 में प्रयागराज में सहायक को तैयारियों के लिए शहर में साठ घाटों के विकास की एक परियोजना को मंजूरी दी गई है। शासनी में तीन घाटों के विकास को मंजूरी दी है, जिनमें दशरथदेव, किना, नौकान, आप गंगा आश्रम, सरस्वती मठवा और रसूलनाथ शामिल हैं। इन घाटों में स्नान क्षेत्र, वॉश रूम, सभी की पहुंच वाले रंग, धोखान के प्लांट, फ्लाइट लाइट और कुछ नियोक्ता लगाए जाएंगे।

किरा और मध्य प्रदेश में भी एक एक साबन मैनुफैक्चर परियोजनाओं को मंजूरी दी गई है। बिहार में तीन एस्टीपी लगाए जाएंगे, जिनकी मजदूरी प्रवेश में 2.7 करोड़ लिटर प्रतिदिन क्षमता वाला एस्टीपी स्थापित होगा। पाट विकास की एक अन्य परियोजना हरिद्वार के लिए है। वहां 2.12 करोड़ रुपये की लागत से अर्धदूध परम धारा प्रोटो का विकास किया जाएगा। महाप्रदेशक अग्रणी कुम्भार ने यमुना से कहा है कि ये एस्टीपी वाले क्षेत्रों में सोलर फॉर्मिंग को बढ़ावा दे तथा सोलर ऊर्जा से ही निर्मित जल केंद्र बनाए एस्टीपी के संचालन को कोशिश करें।

दैनिक जागरण, दिनांक : 21.04.2023

'प्रयाग' करेगा गंगा-यमुना के प्रदूषण की निगरानी

जागरण ब्यूरो, नई दिल्ली: गंगा-यमुना और उसकी सहायक नदियों में प्रदूषण के स्तर की निगरानी को लेकर अक्सर सवाल उठते रहते हैं। इसमें सुधार के लिए केंद्र सरकार ने प्रयाग प्लेटफॉर्म के जरिये इन नदियों में प्रदूषण की रिवाल टाइम निगरानी की पहल की है। प्रयाग का अर्थ प्लेटफॉर्म पर रिवाल टाइम एनालिसिस आफ यमुना-गंगा (पीआरवाएपीजी) है।



केंद्रीय जलशक्ति मंत्री गजेंद्र सिंह शंखावत को अध्यक्षता में गुरुवार को स्वच्छ गंगा राष्ट्रीय मिशन के टास्क फोर्स की 11वीं बैठक में इस प्लेटफॉर्म को शुरू करने का निर्णय लिया गया। बैठक में मंत्रालय की प्रगति, पीएमटी टूल डैशबोर्ड, गंगा डिस्ट्रिक्ट परफॉर्मैस मांनिटरिंग सिस्टम आदि, शंखावत ने गंगा को लेकर जागरूकता पैदा करने के लिए एक कांफ्रेंस सरीज भी जारी की है-चाचा चौधरी के साथ, गंगा की बात।

उद्योगों में दूषित जल के शोषण पर जोर: शंखावत ने अधिकारियों को गंगा के किनारे स्थापित उद्योगों में स्वच्छ पानी के इस्तेमाल की दिशा में अध्ययन का भी निर्देश दिया। उन्हें अथर्व पावर प्लांट रिफरेंस नदियों, रेलवे और दूसरे उद्योगों में ट्रीटमेंट पानी के इस्तेमाल को लेकर कार्य योजना तैयार करने को कहा गया है।

दैनिक जागरण, दिनांक 24.04.2023

नदियों में प्रदूषण रोकने को दो हज़ार नालों की सफाई पर जोर

जागरण ब्यूरो, नई दिल्ली: नदियों के प्रदूषण पर लगातार लगे हुए स्वच्छ गंगा राष्ट्रीय मिशन को दो हज़ार से अधिक नालों की तत्काल सफाई के लिए कहा गया है। मिशन के टास्कफोर्स की पिछले दिनों हुई समीक्षा बैठक में नालों की सफाई का मुद्दा उठा और यह बात रखी गई है कि गंगा-यमुना सरोखी नदियों में प्रदूषण की निगरानी व नियंत्रण के लिए नालों की सफाई का कार्य प्राथमिकता के आधार पर किया जाना चाहिए। इसी के तहत स्वच्छ गंगा राष्ट्रीय मिशन और आवासन एवं शहरी कार्य मंत्रालय से कहा गया है कि पूरे देश में नालों की सफाई बिना किसी देरी के शुरू की जानी चाहिए।

एक अधिकारी के अनुसार, नालों की सफाई के लिए नए सिरे से योजना तैयार करने की जरूरत है, ताकि उस पर सही तरह अमल भी हो सके और सफाई की निगरानी भी

- योजना के तहत नालों की सफाई में सहयोग करेगा शहरी कार्य मंत्रालय
- जिला गंगा समितियों पर सवाल, केवल बैठकों से नहीं चलेगा काम

की जा सके। शहरी कार्य मंत्रालय इस काम में स्वच्छ भारत मिशन के तहत सहायता करेगा। एनएमसीजी ने शहरी और ग्रामीण क्षेत्रों में इन नालों की पहचान की है। बैठक में राज्यों से यह अपेक्षा की गई है कि वे गांवों में नालों की सफाई के लिए खास तौर पर सक्रियता का परिचय दें।

नालों की सफाई के लिए जिला गंगा समितियों के कामकाज का भी मामला उठा। समितियों को अपने कामकाज का दायरा बढ़ाकर ऐसे नालों की पहचान करने के लिए कहा गया है, जो बिना किसी रोक-टोक के दूषित पानी नदियों में डाल रहे हैं। इन समितियों के प्रदर्शन पर पहले भी सवाल उठे हैं।

दैनिक जागरण, दिनांक:17.05.2023

12 करोड़ घरों तक पहुंचा टैप से पीने का पानी

जागरण ब्यूरो, नई दिल्ली: गांवों में नल से स्वच्छ पानी की आपूर्ति के लिए संचालित अहम परियोजना जल जीवन मिशन ने मंगलवार को 12 करोड़ घरों तक कवरेज का आंकड़ा पार कर लिया। चार साल पहले जब इस मिशन की शुरुआत की गई थी तब 3.23 करोड़ घरों (16.64 प्रतिशत) में टैप के जरिये जल की आपूर्ति की जा रही थी।

जल शक्ति मंत्रालय के अनुसार, पांच राज्यों गोवा, तेलंगाना, हरियाणा, पंजाब और गुजरात तथा तीन केंद्र शासित प्रदेशों पुडुचेरी, उमन दीव व दादरा नगर हवेली और अंडमान एवं निकोबार ने जल जीवन मिशन के तहत सौ प्रतिशत कवरेज का लक्ष्य हासिल कर लिया है। इसके बाद हिमाचल प्रदेश (98.35) तथा बिहार (96.05) का नंबर आता है। गोवा, हरियाणा, पंजाब व तीनों केंद्र शासित क्षेत्रों ने हर घर जल को प्रमाणित भी कर दिया है। इसका अर्थ है कि ग्रामीण आबादी ने ग्रामसभा के जरिये टैप से पेयजल की आपूर्ति का सत्यापन कर दिया है।

अब जल संरक्षण की मुहिम से जुड़ा आइफा

एटर्नलमैट ब्यूरो, मुंबई: अब छाबी स्थित यास आइलैंड में प्रस्तावित 23वें इंटरनेशनल इंडियन फिल्म एकेडमी अवार्ड (आइफा) समारोह में अब खुद को जल संरक्षण की मुहिम से भी जोड़ लिया है। आयोजकों ने संयुक्त राष्ट्र संघ (यूएन) के साथ मिलकर 'बो वाटर पॉजिटिव' पहल को शुरुआत की है। इस पहल के तहत संस्था आइफा से जुड़े फिल्मों की साथ मिलकर जल संरक्षण के प्रति लोगों को शिक्षित करेगा। साथ ही पानी की समस्या घेले रहे देश के विभिन्न गांवों को वाटर पॉजिटिव (पानी से परिपूर्ण) बनाने की दिशा में काम करेगा।

- यूएन के साथ मिलकर की बो वाटर पॉजिटिव पहल की शुरुआत
- पत्रकार बार्ता में दी जानकारी, केंद्रीय जलशक्ति मंत्री ने की सराहना

रकुल प्रीत सिंह, अभिनेता राजकुमार राव के साथ भारत में यूएन के स्थानीय समन्वयक शोम्बी शार्प भी उपस्थित रहे। वार्ता में चौडियो काउन्सिलिंग से जुड़े जलशक्ति मंत्री गुजरात शोकावत ने बो वाटर पॉजिटिव पहल की सराहना कर भारत सरकार द्वारा पर्यावरण व जल संरक्षण की दिशा में चलाई जा रही योजनाओं की जानकारी दी। शोम्बी ने पहले मराठी फिर हिंदी में अभिवादन कर संबोधन को शुरुआत की। उन्होंने पर्यावरण

संरक्षण की दिशा में भारत द्वारा लागू गए सिंगल यूज प्लास्टिक पर प्रतिबंध, नवीनीकृत ऊर्जा में निवेश समेत कई प्रयासों की सराहना की। 2000 में शुरू आइफा अवार्ड्स के 23वें संस्करण का आयोजन 26 व 27 मई को यास आइलैंड में किया जाएगा। पिछले साल भी आइफा का आयोजन यास आइलैंड में ही किया गया था। इस बार आइफा की मेजबानी राजकुमार राव व निर्देशक तथा किरदारोपर फरहाद खान करेगी। मेजबानी करने को लेकर राजकुमार ने कहा, मैं पहली बार आइफा की मेजबानी करने में उत्साहित हूँ। पहली बार मैं इसका प्रत्यक्षदर्शी बनूंगा। मैं और फरहाद मैम दोनों ही अच्छे दोस्त हैं।

मुंबई में गुरुवार को प्रेसवार्ता में आयोजकों, अभिनेता दौष्या मिर्जा,

जल संरक्षण में मप्र अब्वल, ओडिशा दूसरे नंबर पर

मध्य प्रदेश ने जल संरक्षण, प्रबंधन और उसके महत्व के प्रति जनजागरण के लिए सर्वश्रेष्ठ राज्य को पुरस्कार जीता है। जल शक्ति मंत्रालय के अनुसार चौथे राष्ट्रीय जल पुरस्कार 17 जून को दिए जाएंगे। उपराष्ट्रपति जगदीप धनराज नई दिल्ली के विज्ञान भवन में 11 शीलों में 41 विजेताओं को इन पुरस्कारों से सम्मानित करेंगे। मंत्रालय ने विजेताओं की सूची सार्वजनिक नहीं की है, लेकिन सूची के अनुसार, मध्य प्रदेश को सर्वश्रेष्ठ राज्य चुना गया है। ओडिशा दूसरे और आंध्र प्रदेश तथा बिहार तीसरे स्थान पर रहे हैं।

उत्तर प्रदेश के निकायों को अनियोजित विकास थामना होगा

उत्तर प्रदेश में स्थानीय निकायों के नवीनीकरण प्रक्रिया 29 मई से अपना कार्यक्रम शुरू करने जा रहे हैं और उनके समान चुनौतियों को एक लंबी सूची में सूचीबद्ध है। लेकिन विशेषज्ञों ने यह उम्मीद जताई है कि यदि पिछले पांच साल में बनी जमीन पर हाथ ठहर से काम किया जाए तो देश के सबसे बड़े राज्य के शहरी उपकरण प्रस्तुत कर सकते हैं। इसकी वजह यह है कि उत्तर प्रदेश ने पिछले पांच

साल में लगभग सभी निकायों के लिए अपने पंचायत साल तक का काम पूरा कर लिया है। उत्तर प्रदेश के निकायों, खासकर नगर निगमों पर परामर्श देने वाले अलू इंडिया इंस्टीट्यूट ऑफ लॉकल गवर्नमेंट के तकनीकी विशेषज्ञ परमेश तिवारी के अनुसार, उत्तर प्रदेश इन राज्यों में शामिल है जिनमें अपने

सर्वश्रेष्ठ शहरी स्थानीय निकाय को ग्रामों में चंडीगढ़ नगर निगम ने बनाया है। दूसरे स्थान पर हैदराबाद नगर निगम, जबकि तीसरे स्थान पर संयुक्त रूप से सूत नगर निगम तथा महाराष्ट्र की मलकापुर नगर परिषद (सतारा) है। जल संरक्षण, नदी विकास और गंगा

सर्वश्रेष्ठ जिले का पुरस्कार ओडिशा को मिला है। तमिलनाडु का मयसूर दूसरे और तेलंगाना का आदिलबाद तीसरे स्थान पर रहा। सर्वश्रेष्ठ ग्राम पंचायत पुरस्कार के लिए, तेलंगाना की जगन्नाधरपुर ग्राम पंचायत (भद्राचल कोटागुडम जिला) को पहला स्थान

मिला है, जबकि तमिलनाडु के कर्कू जिले की वाड्यूर ग्राम पंचायत को केरल के किरन्तिपुरम जिले की मणिक्कल ग्राम पंचायत को संयुक्त रूप से दूसरा स्थान मिला है। तीसरे स्थान पर महाराष्ट्र के जालना जिले की कर्नाड तथा मेधापुर के री भीड़ जिले को मकरेडेर ग्राम पंचायत है।

जल जागरण फेरी के माध्यम से बताया पानी का महत्व, वरिष्ठ नागरिकों ने किया जागरूक

जल जागरण, वरिष्ठों दिल्ली ईस्ट आफ कैलाश विचार सभा द्वारा 'ईस्ट आफ कैलाश' में खराब पड़े वाटर हावीरिंग को ठीक करने की मांग की।

जल जागरण फेरी के माध्यम से बताया पानी का महत्व, वरिष्ठ नागरिकों ने किया जागरूक। जल जागरण फेरी के माध्यम से बताया पानी का महत्व, वरिष्ठ नागरिकों ने किया जागरूक। जल जागरण फेरी के माध्यम से बताया पानी का महत्व, वरिष्ठ नागरिकों ने किया जागरूक।



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Guardians of the Ganga: task force keeps a watchful eye on the river

Over 4,000 volunteers under the Namami Gange initiative, have been keeping a check on littering and poaching in the river to make sure that its flora fauna are intact in return, the Wildlife Institute of India has helped them with livelihood training.



Mr. Kumar, a resident of Narsara town in Bulandshahr district of Uttar Pradesh, is a Ganga Guardian. He can be seen on the riverbank in different seasons. His children are also part of the project and are known as the Ganga Guardians. The task force, which now has over 4,000 volunteers in 800 districts across the

Yamuna pollution level dips for first time this yr

New Delhi: The Yamuna has shown signs of improvement for the first time this year. However, the faecal coliform level is still 160 times higher than the max permissible limit. The river water thus continues to be not suitable for drinking even after conventional treatment.

The Yamuna continues to be polluted throughout its 22 km stretch in Delhi. However, it is now in much better condition than in May 2022 when the river was twice more polluted. According to data from Delhi Pollution Control Committee for May while the faecal coliform level in the river at the entry point in the city before the Najafgarh drain converges on the river was 400 units, well within the maximum limit of 2,500 most probable number (MPN)/100ml and the desirable limit of 500 MPN/100ml, the same at the exit point was 4,00,000 units, which is 160 times the max limit and about 800 times the desirable limit.

According to the data, the water samples collected from the first two locations of the river in Delhi - Palla and Wazirabad - were within standard criteria related to fitness for bathing. However, by the time the river reaches IBSB bridge, the pollution levels shoot up with the dissolved oxygen - a marker of presence of life in the river - going down but faecal coliform and biochemical oxygen demand levels increasing.

तय होगी जल उपयोग दक्षता की एक समान परिभाषा

कृषि, उद्योग और घरेलू उपयोग के लिए पानी के उपयोग की क्षमता बढ़ाने के लिए एच आरटीडी का गठन। जल उपयोग दक्षता का पैमाना तय करने के साथ ही टैरिज व नुकसान रोकने का तरीका भी बताया।



जल उपयोग दक्षता का पैमाना तय करने के साथ ही टैरिज व नुकसान रोकने का तरीका भी बताया। कृषि, उद्योग और घरेलू उपयोग के लिए पानी के उपयोग की क्षमता बढ़ाने के लिए एच आरटीडी का गठन।

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जल उपयोग की क्षमता बढ़ाने के लिए पीएम सिंचाई योजना पर भी नजर

जल जीवन मिशनी • नई दिल्ली

जल उपयोग की क्षमता बढ़ाने के लिए केंद्र सरकार अपने महत्वकांक्षी कार्यक्रम प्रधानमंत्री कृषि सिंचाई योजना को नया रूप देने की तैयारी कर रही है। राष्ट्रीय जल आयोग में हो रहे विचार-विमर्शों के आधार पर इस योजना को जल उपयोग बढ़ाने के प्रमुख क्षेत्र के रूप में देखा गया है। जलसंधि मंत्रालय के सूची के अनुसार मौजूदा स्वरूप में इस योजना ने जमीन पर सिंचाई के लिए किसानों को मदद की है, लेकिन सिंचाई को आधुनिक तकनीक के साथ-साथ जोड़ने में ज्यादातर राज्य मौजूदा नहीं दिखा रहे हैं। इसका नतीजा यह है कि बड़े पैमाने पर पानी की बर्बादी हो रही है।

- राष्ट्रीय टारक फॉर्स में विशेषज्ञों के कहना-सिंचाई में 50 बीसीएम पानी बचाना संभव
- माइक्रो सिंचाई का दावा बनना चाहिए, भूजल के इस्तेमाल से जल त्रासदी का डर



के सूची के अनुसार नए रूप में पीएम कृषि सिंचाई योजना को स्मार्ट सिंचाई यांचा उपलब्ध कराने वाले कार्यक्रम में बदला जा सकता है। इससे जल उपयोग की क्षमता को नये प्रतिष्ठान तक लाया जा सकता है। अगर ऐसा हुआ तो लगभग 50 बीसीएम (बिलियन क्यूबिक मीटर) पानी बचाया जा सकता है। इसे इस्तेमाल समझा जा सकता है कि देश के सभी जलवायुओं में किसी भी समय अधिसूचना देना ही पानी पुराना है। मंत्रालय के एक अधिकारी के अनुसार माइक्रो सिंचाई का खेत भूजल नहीं हो सकता है। भूजल

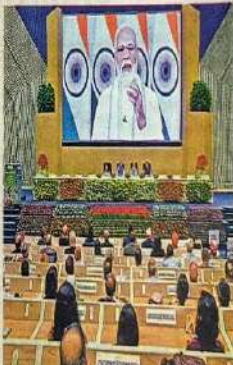
का प्रयोग बहुत बड़ी जल त्रासदी साबित हो सकता है। मंत्रालय भूजल के दोहन को सामूहिक इस्तेमाल तक सीमित करने पर विचार कर रहा है। खोलने के प्रयोग को भी नियंत्रित करने के लिए सोच-विचार में बदलाव तथा नैतिक परिवर्तन को जरूरत है। पीएम कृषि सिंचाई योजना में बदलाव के साथ राष्ट्रीय सिंचाई विभागों को जल सेवा विभागों के रूप में काम करना होगा। सभी पानी को मात्र पर नियंत्रण तथा मोडरेट संचय होगा। उपयोक्तृता सुगता करने और पानी के सिस्टम का रखरखाव होगा।

भारत पर्यावरण के साथ न्याय की मांग करता रहेगा : मोदी

नई दिल्ली, 6 जून: विचारधारा और ओरिजनल टैलेंट का विकास देश को फलदायी बनाए रखेगा। प्रधानमंत्री मोदी ने कहा, भारत को देश के समस्त पर्यावरण को संभालना होगा।

- विश्व पर्यावरण दिवस पर प्रधानमंत्री मोदी ने कहा, भारत को देश के समस्त पर्यावरण को संभालना होगा।
- विश्व पर्यावरण दिवस पर प्रधानमंत्री मोदी ने कहा, भारत को देश के समस्त पर्यावरण को संभालना होगा।

उत्तर प्रदेश के मुख्यमंत्री योगी आदित्यनाथ ने कहा, भारत को देश के समस्त पर्यावरण को संभालना होगा।



प्रधानमंत्री मोदी ने कहा, भारत को देश के समस्त पर्यावरण को संभालना होगा।

चार लाख लोगों की जान भी बचाएगा जल जीवन मिशन

आगरा, नई दिल्ली: गांधी में पर धर को स्वच्छ जल उपलब्ध कराने के लिए केंद्र सरकार के माध्यम से जल जीवन मिशन (जेजेएम) का महत्वपूर्ण कार्य शुरू किया गया है। अंतरराष्ट्रीय स्वास्थ्य संगठन (डब्ल्यूएचओ) ने इस मिशन को न केवल दुनिया के लिए प्रेरणादायक बताया है, बल्कि अपने अध्ययन के जरिये अनुमान व्यक्त किया है कि अगर हर ग्रामीण घर में स्वच्छ पेयजल को आसानी से प्राप्त हो सके तो दुनिया के लगभग 40 करोड़ लोगों की जान बचाई जा सकती है।



- पेयजल और स्वच्छता मंत्रालय के सहयोग से जल जीवन मिशन (जेजेएम) का महत्वपूर्ण कार्य शुरू किया गया है।
- अध्ययन के अनुसार, जेजेएम के जरिये दुनिया भर में लगभग 1.4 करोड़ दिव्यव्यक्त समुदायों को स्वच्छ जल प्राप्त हो सकेगा।

अध्ययन के अनुसार, जेजेएम के जरिये दुनिया भर में लगभग 1.4 करोड़ दिव्यव्यक्त समुदायों को स्वच्छ जल प्राप्त हो सकेगा। यह अध्ययन पेयजल और स्वच्छता मंत्रालय के सहयोग से किया गया है।

'तालाबों पर अवैध कब्जे सुप्रीम कोर्ट के फैसले की अवहेलना

आगरा, नई दिल्ली: उच्च न्यायालय के फैसले की अवहेलना करने वाले राजस्थान के मुख्यमंत्री अशोक गहलोत को सुप्रीम कोर्ट के फैसले की अवहेलना करने के लिए निलंबित किया गया है।

- उच्च न्यायालय ने कहा, राजस्थान के मुख्यमंत्री अशोक गहलोत को सुप्रीम कोर्ट के फैसले की अवहेलना करने के लिए निलंबित किया गया है।
- राजस्थान के मुख्यमंत्री अशोक गहलोत को सुप्रीम कोर्ट के फैसले की अवहेलना करने के लिए निलंबित किया गया है।

राजस्थान के मुख्यमंत्री अशोक गहलोत को सुप्रीम कोर्ट के फैसले की अवहेलना करने के लिए निलंबित किया गया है।



राजस्थान के मुख्यमंत्री अशोक गहलोत को सुप्रीम कोर्ट के फैसले की अवहेलना करने के लिए निलंबित किया गया है।

Landslides, floods hit Assam, Meghalaya, 3 killed

Kangkan Kalita @timesgroup.com

Guwahati: Three people were killed in landslides and one was swept away by floodwaters and is feared dead in Assam and Meghalaya in the last 24 hours even as the number of people affected by the deluge in Assam crossed 37,500 on Saturday evening.

300 TOURISTS STRANDED IN SIKKIM



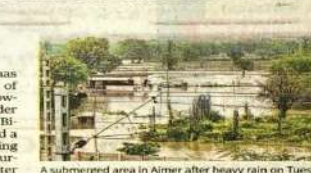
Over 2,100 tourists were evacuated from North Sikkim district to Gangtok on Saturday after the road to Chungthang became inaccessible due to flash floods and landslides following three days of rain.

The IMD has again issued an 'orange warning' for the next two days when heavy to extremely heavy rain is likely across the North-East. As per Central Water Commission data on Saturday, the Brahmaputra and its tributaries Puthimari and Kopli were flowing above the danger mark at some places.

Flood-like situation in five districts of Rajasthan; CM Gehlot makes aerial survey

The Hindu Bureau JAIPUR

A flood-like situation has arisen in five districts of southern Rajasthan following excessive rainfall under the impact of cyclone Biparjoy which has created a depression after entering the State from neighbouring Gujarat.



A submerged area in Ajmer after heavy rain on Tuesday. All districts remained under 40 degree Celsius, while the minimum temperature went down to less than 30 degree Celsius. 'Situation monitored' As part of his two-day aerial survey, Mr. Gehlot will visit Pali, Jodhpur and some more areas of Jaalore district on Wednesday.

Glimpses of NWDA

Meeting for reviewing the Programme and Progress of work of NWDA

DG, NWDA had taken a meeting on 12.04.2023 for reviewing the Programme and progress of work of NWDA. During the meeting various issues related to DPRs, FRs, PFRs, WBSs and other technical matters under CE (N), CE (S) and HQ jurisdictions were discussed. Decision taken during the meeting includes transfer of work of preparation of FR of Ghaghra-Yamuna Link Project to ID, NWDA, Lucknow; involvement of ID, NWDA, Bhopal in Land Acquisition process of Canal Alignment of KBLP; Phase-I of the Kosi-Mechi Link Project shall be carried out by NWDA without waiting for the visit of CWC officials; quarter wise segregating of annual targeted works to be carried out by CE(N)/CE(S) for proper monitoring; an alternate study for additional divertible quantum of 200 MCM and System Studies of diversion from one reservoir to another shall also be carried out, for PTN Link Project. It was also decided that the work of creation of dedicated website for KBLPA shall be expedited; next GB meeting shall be convened during May, 2023 for obtaining the approval of programme and progress of works and another GB meeting shall be convened during September/October 2023 for obtaining approval of the Annual Report with audited accounts for 2022-23.



Review Meeting taken by DG, NWDA on 12.04.2023

2nd meeting of Technical Advisory Group of Ken Betwa ink Project Authority (TAG-KBLPA)



2nd TAG-KBLPA Meeting held on 14th & 15th April 2023

The 2nd meeting of Technical Advisory Group of Ken Betwa ink Project Authority (TAG-KBLPA) was held on 14.04.2023 and 15.04.2023 at Khajuraho under the Chairmanship of Shri D. P. Bhargava, former Director (Technical), NHPC, Faridabad.

This meeting was held with the site visit of proposed dam site and

components, as agreed during the 1st meeting of TAG-KBLPA. The group also visited Gangau weir and its colonies/offices etc. which can be utilised at the time of construction of the project. Thereafter the agenda of tender document for discussion and modification was taken up and discussed in depth which includes prequalification criteria, financial capacity, nature of bidder, division flood, issue of quarry and dumping sites, advance payment, Price and Taxes, Monthly Programme, payment regulation, penalty for delay, deviation/variation, extra item etc. Various decisions were also taken after deliberation. It was also suggested to include GM (Contract), NHPC in future meetings.

Induction Training Programme for Newly Recruited Assistant Engineers and Junior Engineers of NWDA

An Induction Training Program for newly recruited Assistant Engineers (AEs) and Junior Engineers (JEs) of NWDA, had been organized at National Water Academy (NWA), Pune from 17.04.2023 to 28.04.2023. Shri Bhopal Singh, DG, NWDA inaugurated the program and addressed the inductees on the occasion. G. Srinivasulu, Deputy Director, NWA was the Course Coordinator of the program. During the training period, the Officers of NWDA, NWA, CWC, CWPRS, NIH, GSI and DoWR, RD & GR delivered lectures on various topics including Preparations of PFRs/ FRs/ DPR and on NPP; ILR-A Case Study; Tender Documents; Evaluation of Tenders; e-Procurement through e-GeM and CPP; Quantity Surveying; Topographical Survey of



Inauguration of Training Program on 17.04.2023



Group photo taken during Training Program

Water Resources Project; latest technologies of topographical surveys; Inter State Water Dispute; Legal aspects; System Study of Mahanadi-

Godavari Link Project - Case Study; GIS & Remote Sensing; Flood Management and Flood Forecasting; EIA- An overview and uses of latest softwares like MODEFLOW, WEAP, MIKE HYDRO and GCM etc. Field visits had been arranged to CWPRS, where inductees exposed to Polavaram Project Model and to Temghar Dam, where various components of Dams such as Spillway, Barrage, Weirs and Hydropower Plants had been explained by experts. Yoga Sessions were also a part of the Program. During Valedictory Function, certificates had been given to all the inductees.

3rd Meeting of Technical Advisory Group of Ken Betwa Link Project Authority (TAG-KBLPA)

The 3rd Meeting of TAG-KBLPA was held on 04.05.2023 at Sewa Bhawan, CWC, New Delhi under the Chairmanship of Shri D.P. Bhargava, former Director (Technical), NHPC, Faridabad.

During the meeting CEO, KBLPA informed the Group that the modifications suggested in the tender document for Daudhan dam & appurtenant works in the previous meeting have been incorporated. He further informed that the review of hydrology was not needed and the design flood has been kept as earlier. He further added that the contractor



3rd TAG-KBLPA Meeting held on 04.05.2023

shall be given a choice for the type of dam (Earthen dam/ Rockfill Dam). Chief Engineer Design (NW&S), CWC expressed his view that any change in type of Dam may be appraised by PAO, CWC as the cost shall be affected and so shall be the benefit-cost ratio.

Shri P.K. Saxena, Consultant, KBLPA briefed the participants about the changes/ modifications that has been done in the tender documents on the basis of the decisions taken in the 2nd meeting of the TAG. Thereafter the tender document was discussed in depth for its modification and finalisation covering various points like Additions in scope, Qualification Requirement, project profile, General Conditions of contract, Special Conditions of Contract (Civil Works) etc.

4th Meeting of the Steering Committee of Ken Betwa Link Project (SC-KBLP)

4th meeting of the SC-KBLP was held on 05.06.2023 at Vigyan Bhawan under the Chairmanship of Secretary, DoWR, RD&GR, MoJS. The meeting was attended by

representatives of both the states UP and MP; officials of PTR and various Central Ministries. Secretary, DoWR, RD&GR, MoJS and Chairman of SC-KBLP in his opening remarks pointed out the importance of time bound progress of KBLP and emphasized the close coordination among Central & State Govt. departments for its implementation.

CEO, KBLPA highlighted focus areas which are critical to the project. He mentioned that Daudhan dam construction is a critical activity to the KBLP and needs to be taken up on priority for completion of the project in time. He further added that Stage-2 Forest clearance/Limited area work permission also need to be focussed along with establishment of Field Offices and Project Management Consultancy (PMC) for expediting the project activities in timely manner.



4th SC-KBLP Meeting held on 05.06.2023

During the meeting deliberations were held on various agenda items covering follow up actions on decisions taken during 3rd meeting; Land acquisition and R&R of affected villages; implementation of Integrated Landscape Management Plan prepared by Wildlife Institute of India for Greater Panna; engagement of Project Management Consultancy; DPR of new barrages & renovation and modernization of tanks in UP; Tender document for Daudhan dam; implementation of Catchment Area Treatment (CAT); Compensatory Afforestation (CA) by Forest department, MP; budget and expenditure of 2022-23; action plan during the year 2023-24; engagement of legal advisor for KBLPA; establishment of dedicated offices by MP and UP for KBLPA; financial powers of KBLPA etc. It was intimated to the committee that orders for transfers non-forest Govt. land of Panna and Chattarpur district of MP have been issued by State Govt. for transfer to PTR for compensatory afforestation and its mutation in favour of PTR shall be completed in a week time.

During the meeting it was decided to first float draft tender document of Daudhan dam for receiving inputs from prospective bidders and incorporate their suggestions in the tender document to the extent possible. Chairman of the committee also stressed that the meeting of Greater Panna Landscape Council constituted for implementation of LMP of Greater Panna and EMP of the project should be commenced at the earliest.

4th Meeting of the Ken-Betwa Link Project Authority (KBLPA)

The 4th meeting of the KBLPA was held under the Chairmanship of DG, NWDA & CEO, KBLPA on 22.06.2023 in the Office of Engineer-in-Chief, WRD, Jal Sansadhan Bhawan, Bhopal.

In the opening remarks the Chairman welcomed all the participants and appreciated the progress of works under KBLPA and emphasized that KBLPA is an implementing agency for the Project and therefore, quarterly targets (specific activities) and quarterly meeting of the Authority may be planned. Thereafter CE, WRD, MP mentioned that good progress has been made in land acquisition and in Projects of MP under Phase-II, headworks are



4th Meeting of KBLPA held on 22.06.2023

almost complete and works in canal portion is in progress. ACEO (C), I&WRD, UP informed that SNA accounts have been opened for UP, dedicated offices for KBLP have been approved and are established soon. The DPR of renovation of Ken Main Canal is complete and shall be shared in a week. He further added that survey work for pressurized micro irrigation planning has been started and is in progress.

During the meeting status of decisions taken in the 3rd Meeting of KBLPA were discussed. It was informed that the reply has been submitted to MoEF&CC regarding additional studies for EC of Lower or dam project. Regarding Limited Area Work Permission for Daudhan Dam, Chairman of SC-KBLPA desired to have a meeting with MoEF&CC after forwarding the proposal for limited area to MoEF&CC by PCCF(LM). Regarding Tender for Daudhan Dam and its Apartment works, it was decided that the interaction with prospective bidders shall be scheduled around mid-July, 2023 at Bhopal. The draft tender document shall be provided to the prospective bidder's email or through NWDA portal. It was decided that the KBLPA shall draft the tender document(s) for the Ken-Betwa Link canal in next three months. The details of the tapping/intake points on link canal shall be provided by the State Governments at the earliest. Tender Evaluation Committee for Daudhan Dam has been constituted vide DoWR, RD & GR order dated 06.06.2023.

Financial powers of KBLPA, were also discussed and informed that same have been prepared in line with NMCG and discussed at length in the 4th meeting of SC-KBLPA held on 05.06.2023. The proposed financial powers of KBLPA should be submitted to MoJS for approval. CEO, KBLPA emphasized on opening the dedicated offices in MP for land acquisition in Panna and Chhatarpur on priority. Thereafter, progress of KBLP regarding Land Acquisition, Transfer of Govt. Land to PTR and R&R

etc. were reviewed in the meeting. Status of State specific Projects - S&I, Preparation of DPR were also discussed in detail. Opening of Circle Office at Bamitha & sub-division office at Panna was deliberated and it was decided to open a sub-division at Panna immediately for Liaisoning with district authorities for land acquisition, R&R works.

Celebration of International Yoga Day – 2023

International Yoga Day (IYD) was first proposed by the Hon'ble Prime Minister of India during his speech at the UN General Assembly (UNGA) on 27.09.2014. Subsequently, the UNGA on 11.12.2014 announced that 21st June will be seen as International Yoga Day. This year marks the 9th International Day of Yoga and Prime Minister Narendra Modi led yoga celebrations at the United Nations Headquarters on June 21, 2023.

The main goal of the International Day of Yoga is to spread the world about yoga as a holistic way to improve mental and physical health. This observance has a significant impact on highlighting the significance of mental and physical health in the modern world. Yoga proved that it can be an important instrument in the collective quest of humanity for promoting sustainable lifestyle in harmony with planet Earth. In keeping with this spirit, the theme selected for this year's International Day of Yoga 2023 is "Yoga for Vasudhaiva Kutumbakam," which represents our shared desire for "One Earth, One Family, One Future." Yoga Day was celebrated on 21.06.2023 in NWDA (HQ) as well as in Field Offices. Some of the glimpses of the celebration are shown below:



Yoga celebrations at NWDA, HQ



Yoga celebrations at NWDA, Nashik

2nd Meeting of the "Sub Committee for Comprehensive Evaluation and System Studies on ILR"

2nd Meeting of the "Sub Committee for Comprehensive Evaluation and System Studies on ILR" was held on 30.06.2023 at NIH, Roorkee in hybrid mode, under the Chairmanship of Sh. A.B. Pandya.

In the opening remarks Chairman of the Sub-Committee emphasized that this meeting has been scheduled at NIH, Roorkee with an aim to have detailed discussions with whole team of NIH, Roorkee involved in finalisation of System Studies being carried out by them for Mahanadi- Godavari Link Project. On the points raised by Prof. Kamta Prasad and Sh. A.C. Tyagi; Chairman, Sub-Committee mentioned that the focus of Sub-Committee is identification of availability and feasibility of water resources and to examine all the possible alternatives for optimising the benefits from the available water resources. While the issues of Scio-Economic aspects are important, the same can be assessed once the basic framework of the link proposal in resource availability and distribution terms is finalized. In the meeting it was suggested to have a separate meeting for discussing the ToRs of the Sub-Committee.



2nd Meeting of the "Sub Committee for Comprehensive Evaluation and System Studies on ILR" held on 30.06.2023

As Follow up Action of previous meeting, Member Secretary explained about the important decisions taken during the meetings of merged Sub-Committees and status of works done by them, in their tenures. All the members were informed about inclusion of Prof. P. P. Majumdar as per revised composition of the merged Sub-Committee due to resignation of Prof. P.B.S Sarma. Member Secretary explained the sequential progress of work related to System Studies of Mahanadi-Godavari link being carried out by NIH, Roorkee and submission of Final Report by them in May, 2023. Chairman, Sub-Committee explained that finalisation of System Study model of Mahanadi-Godavari link is the first step and once the basic model is finalised then other aspects as suggested by members of the Sub Committee, can be superimposed on basic model. DG, NWDA mentioned that taking up of basin simulation study shall also be explored in future. Thereafter the members of the Sub-Committee had given their views and suggestion on the System Studies of the link.

Chairman of the Sub-Committee explained that further extensive study can be undertaken at stage of preparation of DPR and more parameters can be added for study in the present model. At this point of time, change of database is not

recommended and report submitted by NIH Roorkee on "System Studies on Mahanadi-Godavari Link" may be accepted and the limitations and assumptions be clearly mentioned in the preface as suggested by the Members of the Sub-Committee.

Prof. Subashisa Dutta, IIT, Guwahati made presentation on progress achieved in System Study work of MSTG Link Project. Members of Committee gave suggestions and queries, on it. Thereafter Dr. Ramakar Jha, NIT Patna made a presentation on System Study work of GDS Link project. Chairman of the Sub-Committee pointed out that overall plan of the study and potential approach for determining outcome of transfer of water as well as enroute demand satisfaction is not emerging from the presentation, so it was decided that NIT Patna shall submit an Inception report in next meeting for deliberation.

Due to shortage of time it was decided the remaining agenda items i.e. inception reports by NIT, Warangal & NIH, Roorkee and System Studies of Godavari-Krishna-Pennar-Cauvery-Vaigai-Gundar Links System would be considered in the next meeting of Sub-Committee.

Interaction with State Governments/Important Field Visits

- Officials of NWDA attended a meeting with Chief Engineer, WRD, Govt. of Maharashtra on 13.04.2023 regarding review of simulation study and Water planning for DPR of D-V-G link project.
- Officers of NWDA, Bhubaneswar along with officials of CWC, Faridabad and GSI, Bhubaneswar visited the outfall point and 2nd lift location of S-M link project on 18.04.2023.
- A meeting was held between EE, ID, NWDA, Patna and CE (Irrigation Creation), Saharsa, WRD, GoB on 04.05.2023 regarding proposed site visit of CWC, CSMRS, GSI and NWDA team regarding drilling works (Geo technical Investigation) for preparation of working DPR of Kosi-Mechi intra state link.
- Dr. R.N. Sankhua CE (S), NWDA; Shri Vijaya Bhaskar, CE and Shri Mohan Rao, SE, Sammakka Sagar Project, Irrigation & CAD, Govt. of Telangana along with other officials of NWDA visited new off-take point at Inchampalli (Godavari-Cauvery link project) and Sammakka Barrage in the state of Telangana on 08.05.2023.
- Joint field visit by officers of NWDA and WRD, Govt. of Bihar for new proposals of Intra-State links of Bihar i.e. Pasaha-Tiyar link and Bagmati-Burhi Gandak link (Belwa-Minapur link channel) was carried out from 16.05.23 to 17.05.23 and notes thereon submitted to CE (N) office, Lucknow.
- Dr. R.N. Sankhua CE (S), NWDA held a meeting with Shri Rakesh Kumar, Chief Engineer, Central Electricity Authority at New Delhi to discuss about the design components of DVG link on 23.05.2023.
- Dr. R.N. Sankhua CE (S), NWDA, along with EE, ID Bangaluru visited the alternate alignment of Bedti-Varda-Hirevadatti Link from 29.05.2023 to 31.05.2023
- SE, IC, NWDA, Bhubaneswar along with other officials of ID, Bhubaneswar visited the Salia dam & its Dyke and Rushikulya river crossing near Padhala village of M-G link alignment from 06.06.2023 to 07.06.2023.
- DG, NWDA & CEO, KBLPA, New Delhi has held discussion with Additional Chief Secretary, WRD, Govt. of M.P. regarding Land Acquisition issues of KBLP on 22.06.2023 at Bhopal.
- CEO, KBLPA, New Delhi discussed with PCCF (Land Management), Deptt. of Forest. Govt. of M.P. regarding transfer of Govt. revenue land of concerned villages to PTR and proposal regarding limited area construction permission from MoEF&CC on 22.06.2023 at Bhopal.
- Chief Engineer(S), NWDA, has held discussion about the progress of DVG link, Nilmati dam, remaining drawings of Koshimshet and 5 tunnel design works with CE, NWS, CWC at New Delhi on 26.06.2023. He also had discussion on DVG pump houses and designs with CE and officers of CEA at New Delhi on 28.06.2023.



Visit of officers of NWDA, I&CAD and Govt. of Telangana on 08.05.2023 at Sammakka Barrage.



Meeting of CE (S), NWDA with CE, CEA regarding DVG link on 23.05.2023.

Appointments, Promotions and Retirements of NWDA Officials

During the reporting period starting from 1st April 2023 to 30th June 2023:

Appointments:

Sl. No.	Name & Designation	Deputation/Direct Recruitment (DR)	Place of Posting
1.	NIL	NIL	NIL

Promotions:

Sl. No.	Name & Designation	Post and Date of Promotion	Place of Posting on Promotion
1.	Shri S. Raja, Junior Engineer	Assistant Engineer w.e.f. 03.04.2023	ID, NWDA, Chennai
2.	Shri Alok Kumar Singh	Performa Promotion	On deputation (AE) UP (Jal jeevan Mission)
3.	Smt. P. Padmaja, D'Man Gr, III	Draftsman Grade-II w.e.f. 02.05.2023	ID, NWDA, Chennai
4.	Shri Laxman Tudu, Junior Engineer	Assistant Engineer w.e.f. 05.04.2023	ID, NWDA, Kolkata
5.	Shri Ananta Prasad Junior Engineer	Assistant Engineer w.e.f. 24.05.2023	ID, NWDA, Rajahmundry
6.	Shri Khoob Chand Baghel, Junior Engineer	Assistant Engineer w.e.f. 01.06.2023	ID, NWDA, Vadodara
7.	Shri N.C. Ashra, D' Man Gr.-III	Draftsman Grade-II w.e.f. 08.06.2023	ID, NWDA, Valsad

Retirements/Resignation/Repatriation:

Sl. No.	Name & Designation	Date of Retirement/Repatriation
1.	Shri D.K. Sharma, Director (Tech.), NWDA, Palika Bhawan, New Delhi.	30.04.2023
2.	Shri B.S. Ucharia, SE, IC, NWDA, Patna	30.04.2023
3.	Shri V. Jashuva, AE, ID, NWDA, Hyderabad	30.04.2023
4.	Shri A.K. Padhi, Driver Gr.I, ID, NWDA, Bhubaneswar	30.04.2023
5.	Shri M.C. Gupta, Head Clerk, NWDA, Palika Bhawan, New Delhi.	31.05.2023
6.	Smt. Geetha S.K., Head Clerk, ID, NWDA, Bengaluru	31.05.2023
7.	Shri C. Mahendar Raj, D'Man Gr.II, IC, NWDA, Hyderabad.	31.05.2023
8.	Shri S.A. Gangadhar, D'Man Gr.II, ID, NWDA, Bhopal.	31.05.2023
9.	Shri G. Veerjanand, D'Man Gr.II, IC, NWDA, Hyderabad	31.05.2023
10.	Shri S.S. Kaladagi, AEE, ID, NWDA, Bengaluru	31.05.2023
11.	Shri P. Channaiah, AEE, ID, NWDA, Bengaluru	31.05.2023

Sl. No.	Name & Designation	Date of Retirement/ Repatriation
12.	Shri S.R. Mahor, SE(S), NWDA, Palika Bhawan, New Delhi	30.06.2023
13.	Shri N.G. Rao, SE, IC, NWDA, Hyderabad	30.06.2023
14.	Shri Hakikat Rai, MTS, NWDA, Palika Bhawan, New Delhi	30.06.2023
15.	Shri Bhopal Singh, MTS, NWDA, MOWR, New Delhi	30.06.2023
16.	Shri K. Satyanarayana, MTS, O/o CE(North), Lucknow	30.06.2023
17.	Shri Ram Kishan Tomar, MTS, ISD, NWDA, Jaipur	30.06.2023
18.	Shri M.N. Rao, EE, ID-I, NWDA, Nasik	30.06.2023
19.	Shri K.K. Rao, AD, NWDA, Palika Bhawan, New Delhi.	30.06.2023 (Voluntary Retirement)

Participation of NWDA Officials in Trainings/ Seminars/ Conferences

Details of events in which the officials participated are as per the list shown:

Sl. No.	Trainings/ Seminars/ Workshops/ Conferences etc.	Period	Venue	Organiser	Officials who attended
1.	Induction training programme for newly recruited AEs and JEs of NWDA	17.04.23 to 28.04.23	NWA, Pune	NWA, Pune	7 AEs & 14 JEs attended the training programme
2.	Two days' workshop on SDG indicators	19.06.23 to 20.06.23	India Islamic Cultural Centre, Lodhi Road, New Delhi	National Water Mission, MoJS	Shri Baleshwar Thakur, Chief Engineer (HQ)
3.	Fifth Annual Conference on "Irrigation in India",	27.06.23	Hotel Taj Mahal, Lucknow	India Infrastructure Publishing Pvt. Ltd., New Delhi	Shri Shiva Prakash, Chief Engineer (N), as a speaker for the session on "River Linking Projects : Progress sand Opportunities"

हिन्दी के बढ़ते कदम

अप्रैल से जून 2023 के दौरान आयोजित गतिविधियां इस प्रकार हैं:

- संसदीय राजभाषा समिति की दूसरी उप-समिति की निरीक्षण बैठक दिनांक 24.05.2023 को नई दिल्ली में आयोजित हुई, जिसमें राजविअ से महानिदेशक, मुख्य अभियंता (मुख्यालय) एवं सहायक निदेशक (राजभाषा) उपस्थित हुए, समिति ने राजभाषा हिंदी के कार्यों का अवलोकन किया।
- दिनांक 19.06.2023 को राजविअ में नव नियुक्त कर्मचारियों को एक कार्यशाला के माध्यम से अंग्रेजी प्रारूप तैयार करने के साथ-साथ हिंदी प्रारूप तैयार करने का व्यावहारिक प्रशिक्षण दिया गया। व्यावहारिक प्रशिक्षण के बाद सभी प्रतिभागियों में लिखित परीक्षा ली गई जिसमें उत्तीर्ण प्रतिभागियों को पुरस्कृत किया गया।
- दिनांक 23.06.2023 भारतीय जल संचार संस्थान, नई दिल्ली में आयोजित नगर राजभाषा कार्यान्वयन समिति की बैठक में महानिदेशक महोदय तथा सहायक निदेशक (राजभाषा) ने भाग लिया।
- दिनांक 26.06.2023 को राजविअ मुख्यालय की राजभाषा कार्यान्वयन समिति की बैठक महानिदेशक महोदय की अध्यक्षता में ऑनलाइन माध्यम से आयोजित की गई। इस बैठक में सभी सदस्यों ने भाग लिया और हिंदी में कार्यों को और आगे कैसे बढ़ाया जाए इस पर सभी सदस्यों के विचार लेते हुए विचार विमर्श किया गया।

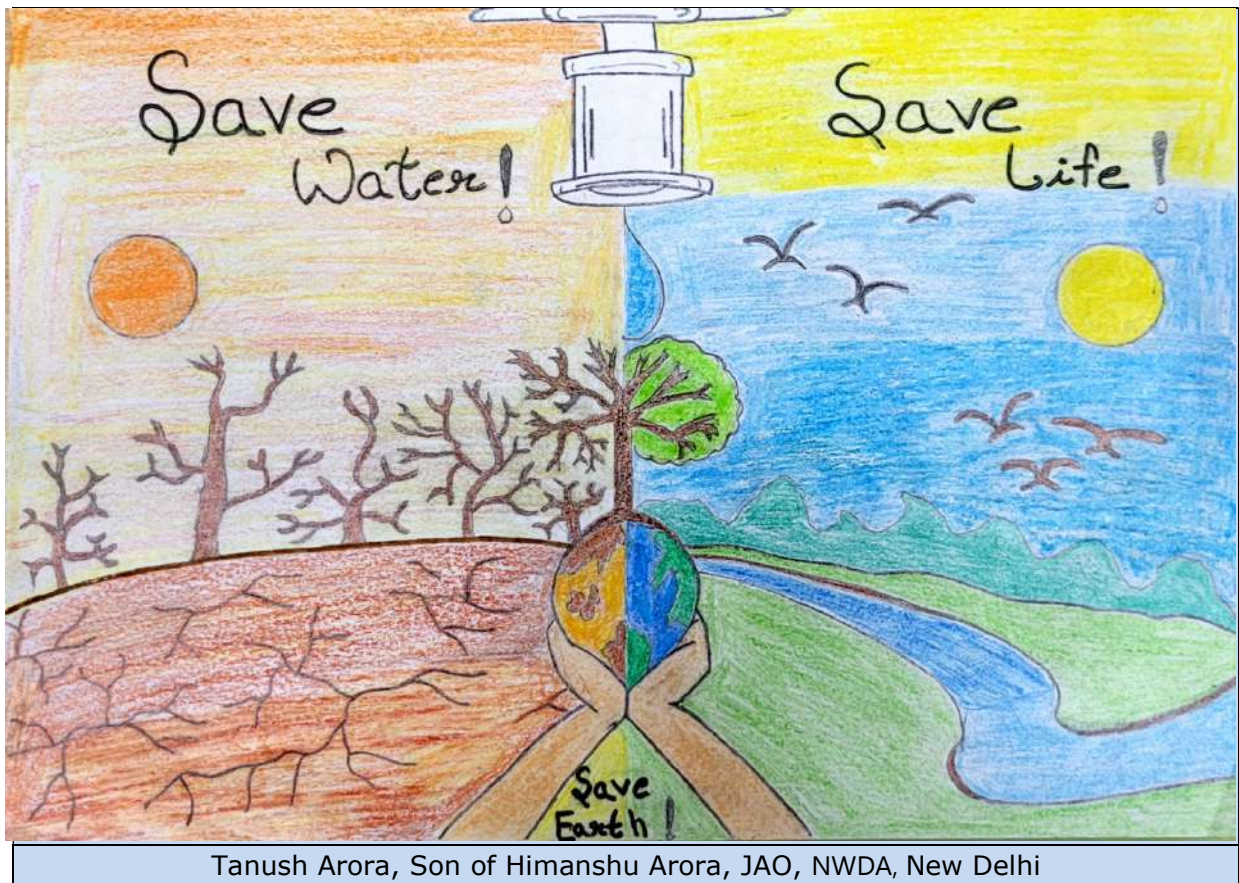


दिनांक 24.05.2023 को संसदीय राजभाषा समिति द्वारा मुख्यालय का राजभाषा के प्रगामी प्रयोग संबंधी निरीक्षण किया गया।

Family Corner

Drawing depicting Importance of Water

Here is the drawing contributed by Master Tanush Arora, S/o Shri Himanshu Arora, JAO, NWDA on environment Day, as Water is an essential part of the environment and a requirement for all living organisms, so if we save water we eventually help to save environment.



Tanush Arora, Son of Himanshu Arora, JAO, NWDA, New Delhi

बड़ी आबादी दूषित जल पीने को मजबूर

* ललित कुमार स्यानियों

नोएडा में रहने वाले एक साथी का मेसेज आया किदेखिए हमारी सोसायटी में सप्लाई के पानी में टीडीएस लेवल 2100 आ रहा है, वॉटर प्यूरिफायर भी इसे कितना साफ कर पाएगा। उनकी चिंता वाजिब थी क्योंकि यह हाल सिर्फ उनकी सोसायटी का ही नहीं, एनसीआर के ज्यादातर इलाकों का है। हमने बताया कि हमारे यहां तो आपसे भी ज्यादा टीडीएस लेवल है, जिसे आर.ओ. भी मुश्किल से पीने योग्य बना पाता है। टीडीएस यानी टोटल डिस्सॉल्वड सॉलिड्स, जिसे आसान भाषा में कहेंगे पानी में घुले हुए अशुद्ध कणों की कुल मात्रा आर.ओ. यानी रिवर्स ऑस्मोसिस पानी को साफ करने का ऐसा सिस्टम है जो बैक्टीरिया और अन्य सूक्ष्म अशुद्धियों को अलग कर उसे पीने योग्य बनाता है। विश्व स्वास्थ्य संगठन के अनुसार 150-300 मिलीग्राम प्रतिलीटर टीडीएस वाला पानी पीने के लिए बेस्ट माना जाता है। 600 से 900 टीडीएस से अधिक स्तर हो तो आर.ओ. की जरूरत होती है। दो हजार से अधिक टीडीएस वाला जल इतना दूषित माना जाता है कि आरओ भी उसे पूरी तरह शुद्ध नहीं कर सकता। ज्यादातर आर.ओ. के साथ यह समस्या भी है कि ये बैक्टीरिया और वायरस निकालने के चक्कर में कैल्शियम और मैग्नीशियम जैसे हड्डियों के लिए जरूरी मिनरल्स भी निकाल देते हैं।

सवाल यह है कि यमुना और हिंडन किनारे बसे इन शहरों में पीने के पानी की ऐसी किल्लत कैसे हो गई? दरअसल, इन नदियों को हमने इतना दूषित कर दिया है कि इनका पानी पीना तो दूर, इस्तेमाल करने योग्य तक नहीं रह गया है। बिना ट्रीट किए गिर रहे गंदे नालों और इंडस्ट्रियल वेस्ट ने नदियों के जल को ही जहरीला नहीं किया, यहां के भूजल को भी अत्यधिक दूषित कर दिया है। एनसीआर के ज्यादातर इलाके इसी भूजल पर निर्भर हैं। नोएडा और इससे सटे गाजियाबाद के ट्रांस हिंडन इलाके में गंगनहर से आने वाले गंगाजल को भूजल में मिक्स करके सप्लाई किया जा रहा है, लेकिन उससे भी पानी की गुणवत्ता इतनी नहीं सुधरी कि उसे बिना फिल्टर किए पी सकें। पश्चिमी देशों में लोग सीधे अपने किचन के नल से गिलास भरकर पानी पी जाते हैं, हमारे यहां ऐसा क्यों नहीं हो सकता? सरकार 2024 तक हर ग्रामीण घर में नल से जल पहुंचाने के मिशन में जुटी है। लेकिन बड़ा सवाल यह है कि क्या यह जल सीधे पीने योग्य होगा। आज तक शहरों में ही नल से मीठा जल नहीं पहुंचपाया है तो ग्रामीण इलाकों में तो इसकी कल्पना करना भी बेकार है। यहाँ का दूषित और खारा जल इंसानी सेहत के लिए तो हानिकारक है ही, इसकी वजह से एयरकंडीशनर, कूलर, गीजर समेत बिजली के सारे उपकरण भी खराब हो जाते हैं। इस जल से वर्तनों तक में जंग लग जाती है तो त्वचा और बालों कीक्या बात करें।

35 साल पहले तक इन वॉटर प्यूरिफायर्स का कोई नाम तक नहीं जानता था। पीने और इस्तेमाल के लिए सीधे नल के पानी का ही उपयोग किया जाता था। रेलवे स्टेशन, बाजार, अस्पताल और स्कूल-कॉलेज समेत तमाम सार्वजनिक जगहों पर लोग सीधे टंकियों से ही पानी भरते या पीते थे। उन दिनों दिल्ली में जगह-जगह 5 पैसे प्रति गिलास वाला पानी बिकना शुरू हुआ था, जिसे देख हम हंसते थे कि पानी कौन खरीद कर पीएगा क्या पता था कि जल्द ही ये हकीकत बनने वाला है। 80 के दशक के अंत में पहली बार वॉटर फिल्टर की जरूरत का पता चला। खारे पानी की वजह से घर में पहला फिल्टर जीरो-बी के रूप में आया, जो किचन के नल में फिट किया गया था। 90 के दशक की शुरुआत में दक्षिण दिल्ली के कई घरों में एकागार्ड जैसे फिल्टर लगे देखे इसे खरीदना सबके बस की बात नहीं थी, तो ज्यादातर लोग कॉलोनी में लगे एक सार्वजनिक नल से पीने का पानी भरकर ले जाते थे।

आज सुनकर अजीब लगे, लेकिन दिल्ली के पॉश इलाके में 30 साल पहले ऐसा होता था, जब एक नल के सामने लोगों की कतार लगी होती थी। ऐसा हमने बचपन में मध्यप्रदेश के अपने ननिहाल में ही देखा था, जहां घरों के बाहर से जाने वाली पाइपलाइन से पानी भरना होता था। सुबह तय वक्त पर जब सप्लाई शुरू होती, तो पूरी कॉलोनी के लोग छोटे-छोटे घड़े लेकर पानी भरते नजर आते थे। मुश्किल से घंटे भर के लिए धीमी गति से आने वाले उस पानी से ही अगले 24 घंटे निकालने होते थे। तब तक पानी खींचने वाले इलेक्ट्रिक पंप का कोई नामलेवा भी नहीं था।

इन तीस बरसों में हमने नदियों को इतना प्रदूषित कर दिया और भूजल का ऐसा अंधाधुंध दोहन किया कि आज देश के बहुत से इलाकों में मीठे पानी की किल्लत देखने को मिल रही है। संयुक्त राष्ट्र की ताजा रिपोर्ट कहती है कि दुनिया की 26 फीसदी आबादी को साफ पानी उपलब्ध नहीं है और दो अरब लोग मल से दूषित जल पीने को मजबूर हैं, जो उन्हें कई बीमारियां दे रहा है। मीठे पानी को तरसने का यह खतरा हमारे ऊपर भी मंडराने लगा है। इससे बचना है तो नदियों को साफ रखने के साथ ही वर्षा जल के संचयन के पारंपरिक तरीकों को पुनर्जीवित करने पर गंभीरता से काम करने का वक्त आ गया है।

नदियों के प्रदूषित जल को स्वच्छ रखने में **नदी जोड़ परियोजना** भी एक अहम भूमिका निभा सकती है क्योंकि नहरों के माध्यम से जब जल को एक स्थान से दूसरे स्थान तक ले जाया जायेगा तो वह अपने प्रवाह के दौरान स्वच्छ भी होता जायेगा और साथ ही साथ अपने मार्ग क्षेत्र के भूजल को भी रिचार्ज करेगा।

कविताएं

जल की महत्वता

जल की महत्वता पृथ्वी पर, है जिसने जानी।
पूरी सृष्टि टिकी इस जल पर, जागो प्रिय प्राणी।
जल से ही सब जीवन पाते, जल बिन जीवित न रह पाते।
जल से ही हैं समस्त संसार,
ईश्वर का यह अनमोल उपहार।
जल की कीमत जिसने जानी, वही है सबसे बड़ा ज्ञानी।

जल की महत्वता उनसे पूछो, जो सूखे के दर्द को झेले है।
बूंद-बूंद के लिए आसमान को देखे हैं।
मत करो इसको बर्बाद,
पछताओगे जब नहीं रहेगा तुम्हारे हाथ।
जल है कितना अनमोल, समझो प्राणी इसका मोल।

पंच तत्वों की इस काया में,
70 प्रतिशत जल की ही भागीदारी।
जल जीवन है, कल है, जल है तो हम सब का मंगल है।
पूरे विश्व को जगाना है।
जल का संरक्षण, संग्रह कर प्रदूषण रहित जल का संदेश
घर-घर पहुँचाना है।

आओ मिलकर हम सब करे यह प्रण,
करेंगे जल का संरक्षण एवं संग्रहण।
बूंद-बूंद अमृत जल को प्रदूषण रहित बनायेंगे।
मनुष्य जीवन को साकार,
समृद्ध एवं सौभाग्यशाली बनायेंगे।

जीवन का आधार जल है, जल है तो सुंदर कल हैं।

हिमांशु अरोडा, राजविअ, नई दिल्ली।

योग का महत्व

योग को अपनाएं
अपना जीवन स्वस्थ बनाएं
स्वस्थ और निरोगी काया
जीवन सारा निखर आया।

मनुष्य को समझाना है
आलस को दूर भगाना है
योग स्वास्थ्य की संजीवनी है
हम सब को यह बात सीखनी है..

योग करे प्राणतत्व का संचार
जिससे होता भविष्य खुशहाल
सदा जो करे योग का पालन
जीवन उसका रहता खुशहाल

ध्यान में हो एकाकार
ज्ञान का होता संचार
इन्द्रियों को रखे केन्द्रित
होता ईश्वर से साक्षात्कार

अमन, कनिष्ठ अभियंता, राजविअ, नई दिल्ली।

कहता आज है पानी

मुझे बचा लो-मुझे बचा लो
कहता आज है पानी...

कहता आज है पानी देखो
कहीं भू-जल है घट रहा
और नदियों का जल सूख रहा,
शहरों और कारखानों ने तो
सिर्फ गंदगी करने की है ठानी।
मुझे बचा लो-मुझे बचा लो
कहता आज है पानी...

कहता आज है पानी सुन लो
बस वही जल है, जो निर्मल है
अवशेष तो बस समुंदर का मल है,
निर्मल जल को बचाओ तुम
अगली पीढ़ी का भविष्य बनाओ तुम।
मुझे बचा लो-मुझे बचा लो
कहता आज है पानी...

कहता आज है पानी देखो
गंगा मटमैली हो गयी
बांध इतने बना दिए की
नर्मदा भी मूर्छित हो गयी,
अब जाकर, भले मानस ने है बोला,
जल ही है जीवन।
मुझे बचा लो-मुझे बचा लो
कहता आज है पानी...

कहता आज है पानी सुन लो
अब जीवन संकटमय है
आज बचाओगे तो कल भी बचेगा,
प्रलय विशाल है आने को
ऐ! मानव ना खुद के दिल पर तुम वार करो,
जल युद्ध ना तैयार करो
मैं ही हूँ जीवनदायिनी
मुझे बचा लो-मुझे बचा लो
कहता आज है पानी ।

अमित बूरा, कनिष्ठ अभियंता, राजविअ, नई दिल्ली।

Activities of NWDA at a Glance



5th meeting of Consultancy Evaluation Committee (CEC) for the Engagement of Project Management Consultancy(PMC) services for KBLPA held on 27.04.2023 at Lucknow



Dr. R.N. Sankhua, CE(S), NWDA and Shri Vijaya Bhaskar, CE, Irrigation &CAD, Govt.of Telangana along with other officials of NWDA and Irrigation &CAD visited Inchampally proposed offtake point and Sammakka barrage on 08.05.2023.



Dr. R.N. Sankhua, CE(S) held discussion with Officers of the design wing of CWC on 23.05.2023 regarding Gates and Dam design of DVG Link.



Shri Mahesh Kumar Raman, Executive Engineer, NWDA, Patna held a meeting with WRD, Govt. of Bihar regarding the updation cost of DPR of Kosi-Mechi Intra-state Link Project on 13.06.2023.



Meeting between officers of NWDA and CWC regarding Hydrology of modified Parbati-Kalisindh-Chambal (PKC) link project held on 23.06.2023 at New Delhi.



Meeting by Secretary, DoWR, RD & GR to review Design issues of Daudhan Dam of KBLP on 30.06.2023 at New Delhi.

Jal Vikas can also be accessed at www.nwda.gov.in
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