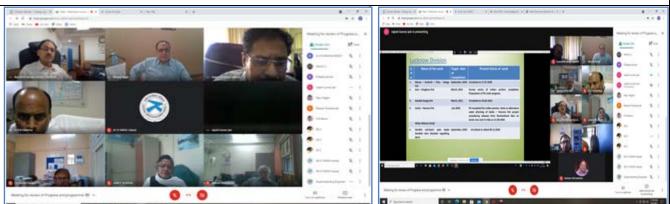


Activities of NWDA during the Quarter at a Glance



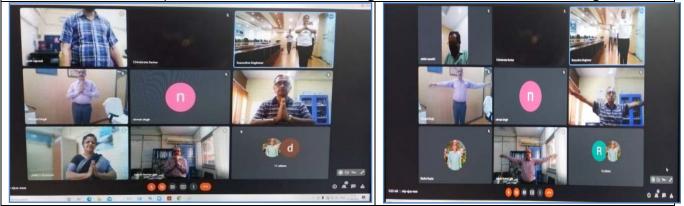
Senior Officers Meeting Chaired by DG, NWDA on 06.04. 2021 for Review of Programme and Progress of Planned and Targetted Works of NWDA.



In Commemoration of 102th Anniversary of Jallianwala Bagh Incident, Officials of NWDA(HQ) gave tribute to Freedom Fighters of India by observing 2 minute silence.



Virtual web meet hosted by National Water Academy, Pune on 28.04.2021, CE(HQ) ,NWDA made a presentation on "Interlinking of Rivers-Issues and Challenges".



The 7th International Yoga Day 2021 was celebrated in NWDA (HQ) in Virtual Format on 21.06.2021 with the support of a Yoga Instructer.



From Director General's Desk

It gives me great pleasure in placing the quarterly issue of "Jal Vikas-July 2021" of NWDA. The issue covers activities of the quarter starting from 01st April to 30th June 2021. The in-house bulletin gives a recap of works and functions of NWDA particularly with respect to Interlinking of Rivers (ILR) Programme of the Department of Water Resources, River Development & Ganga Rejuvenation (DoWR, RD&GR), Ministry of Jal Shakti (MoJS), Government of India.

During the preparation of the issue, the deadly pandemic of Covid-19 in the form of second wave struck almost the entire length and breadth of our country making the entrusted works of collection of data and field investigations and physically interacting with officials of field units and at various levels were became a hericulian task.

However, inspite of the constraints, NWDA Officials jointly acted for conducting the meeting of Sub-Committee for Sytem Studies of the SCILR; Review meeting for finanilizing the work programme of NWDA for the year 2021-22 and achieving the targets in preparing the DPRs, FRs/PFRs of ILR proposals coming under the National Perspective Plan (NPP) pertained to Peninsular as well as Himalayan Rivers Development Components and Intra-State Link Projects as suggested by various State Governments; and Post DPR Activities and attainment of related targeted works. The achievements that could accomplish during the period were completion of the draft DPR of Cauvery (Kattalai) – Vaigai – Gundar and circulation of it to party States; PIB memo for financing and setting up of SPV for Ken-Betwa Link Project Authority for the implementation of Ken-Betwa Link Project to various Union Ministries and Departments for their comments; and deliberations and processing of various parameters for finalizing /carrying out System Studies of Mahanadi-Godavari; Manas – Sankosh – Tista – Ganga; Farakka – Sunderbans; Ganga – Damodar – Subarnarekha and Subarnarekha – Mahanadi Link Projects.

While going through the inside pages of the magazine, you can find an article on "Possibility of Solar Power Generation through Canal Top Power House on Par-Tapi-Narmada Link Canal Project"; Technical Digest; Water Resources in Media; Glimpses of NWDA briefing about the meetings and activities conducted by NWDA; Involvement of NWDA in PMKSY; Appointments, Promotions and Retirements of NWDA Officials; Family Corner Articles, and Obituary of NWDA Officials who lost their lives due to Covid-19 Pandemic.

In the end I wish to express my sincere thanks to the entire Editorial Team of Jal Vikas in assimilating the articles and bringing the July 2021 Issue of Jal Vikas to an informative one. Our efforts to further improve and expand the Jal Vikas Issues of NWDA will continue and would be possible by your timely contributions, supports and suggestions.

(Bhopal Singh) Director General

Contents	
Particulars	Page No.
Functions of NWDA	5
Highlights of NWDA Activities	6
Technical Article:	0
Possibility of Solar power generation through Canal Top Power House on	8
Par-Tapi-Narmada Link Canal Project	C
Technical Digest	11
ILR in Parliament (Lok Sabha and Rajya Sabha)	13
Water Resources in Media	14
 मानस्न पूर्व वर्षा जल को सहेजने का प्रयास 	14
Pre-monsoon rain deficiency hits states	14
Monsoon 2021: The good and bad news	15
 Groundwater depletion may reduce winter cropping intensity by 20% in India 	15
Will the proposed Ken-Betwa project solve the region's water woes or	15
destroy livelihoods and ecosystems?	-
River Linking should be done on a scientific basis	16
Groundwater Role in Capital Tremors	16
Monsoon advances across country 14 days early: IMD	16
 क्ला इमेटचेंज से नदियों के बहाव में तेजी - स्टdडी 	16
Glimpses of NWDA	17
Meeting for Reviewing the Progress and to Finalise the Work Programme	17
of NWDA for the year 2021-22	
17th Meeting of the Sub-Committee for System Studies	17
Technical Review Meeting of NWDA NWDA on 07.06.2021	18
 Amrut Mahotsav Celebrations Held in NWDA Jallianwalah Wala Bagh Massacre Day 	18
 Awareness Activity on River Interlinking Programme 	
Anti Tobacco day (31 May)	
International Yoga Day (21 June)	
Involvement of NWDA in Pradhan Mantri Krishi Sinchayee Yojana	21
Appointments, Promotions and Retirements of NWDA Officials	22
Participation of NWDA Officials in Trainings/Seminars/ Conferences	23
हिन्दी के बढ़तेकदम	24
Family Corner	25 25
 World Environment Day World Health Day 	25
 Obituary of NWDA Officials who lost their lives due to Covid-19 	26
Pandemic	20
कविता	27
• मोल पानी का	
 מוניו אוסוו או 	
Activities of NWDA during the Quarter at a Glance	
Editorial Board	
Shri R.K. Jain, Chief Engineer (Headquarters), NWDA: ChairmanShri Muzaffar Ahmad, Director (Techical), NWDA: Member	
Smir Muzanar Anniad, Director (Techical), NWDA	er Secretarv
Editorial Support	
Smt. Vineeta Sharma, Assistant Director (Hydrology); Shri Lalit Kumar Siyaniya and Shri Nikunj Malik, Junior Engineer;	
Smt. Nirmala Singh, Steno Grade-II; and	
Smt. Radha, Upper Division Clerk, Multi Disciplinary Unit (MDU), NWDA, New Del	hi.

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 linkproposals 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 theMoJS; DoWR, RD & GR) and to secure the repayment of any such borrowed funds/money deposits/loan etc. by way of mortgage, pledge, change 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)*.

*Year of Gazette Notification



Highlights of NWDA Activities during the Quarter

- M/S ASITE made a presentation on 01.04.2021 regarding indicative scope of Project Management Consultancy(PMC) in the Committee Room, NWDA , Palika Bhawan, New Delhi,
- 5th meeting of the Core Group of Scientific Committee for India Water Week 2021 held on 01.04.2021 at Sewa Bhawan, New Delhi,
- DG, NWDA held a Virtual Meeting on 06.04.2021 with Officials of NWDA and finalized the Work Programme of NWDA for the year 2021- 22,
- DG, NWDA reviewed the status of appraisal of the three projects viz., Lower Orr, Kotha Barrage and Bina Complex Projects of Ken-Betwa Link Project with CWC Officials on 07.04.2021,
- DG, NWDA reviewed the progress of Development of Landscape Management Plan (LMP) and Monitoring with respect to Ken-Betwa Link Project Phase-I in Panna Tiger Reserve with Officials of Wildlife Institute of India (WII), Dehradun and field units of NWDA on 09.04.2021 and decided to extend the time period for completing the LMP study being carried by WII, Dehradun till September, 2021,
- DG, NWDA attended the 7th Water Tech Talk- National Water Mission held on 09.04.2021,
- DG, NWDA attended the review meeting of Member (WP&P), CWC regarding the integration of Parbati-Kuno-Sindh(P-K-S) Link Project and Eastern Rajasthan Canal Project (ERCP) on 16.04.2021 at CWC, Sewa Bhawan, New Delhi,
- DG, NWDA attended the 25th Water Talk-National Water Mission held on 16.04.2021,
- DG, NWDA has requested the Additional Principal Chief Conservator of Forests (APCCF), Government of Madhya Pradesh vide letter dated 19.04.2021 to expedite the process of verification of revenue land for transfer to the forest department for Compensatory Afforestation & Submission of Report to the Ministry of Environment and Forests & Climate Change (MoEF & CC) for accord of Stage-II forest clearance for expeditious implementation of the Ken-Betwa Link Project,
- A revised format as finalized by the Sub-Committee for System Studies for taking up System Studies of MSTG, GDS, FS and SM Link Projects was circulated to concerned Organizations/Academic Institutions on 20.04.2021,
- CE (HQ), NWDA attended the 235th meeting of Executive Committee of CBIP held on 28.04.2021,
- CE (HQ), NWDA presented a Power Point Presentation on 'Interlinking of Rivers-Issues and Challenges" during the training cum workshop on Overview of Water Resources Sector in India organized by National Water Academy on 28.04.2021,

- DG, NWDA and CE (HQ) attended the Foruth Meeting of the Committee for planning BRICS Water Ministers Meeting & BRICS Water Forum during 7th India Water Week (IWW)-2021 through Virtual Platform on 04.05.2021,
- DG, NWDA attended 48th CDRC Meeting of Classified Data Release Committee (CDRC) through Video Conference on 12.05.2021,
- DG, NWDA attended 26th Water Talk National Water Mission through virtual platform on 21.05.2021,
- DG, NWDA attended the Third Meeting of the Organising Committee of 7th IWW-2021 through Video Conference on 03.06.2021,
- DG, NWDA held a meeting with Additional Secretary regarding NIRA on 08.06.2021,
- DG, NWDA held a meeting to review the preparatory arrangements of IWW-2021 in the Chamber of DG, NWDA, Palika Bhawan on 09.06.2021,
- DG, NWDA held a meeting regarding Participation in IWW-2021 by Israel Embassy through Video Conference on 10.06.2021,
- DG, NWDA attended 9th Water Tech Talk (National Water Mission) 'Isotope Applications in Water Resources Investigations and Management with Indian Success Stories' through Video Conference on 11.06.2021,
- DG, NWDA attended the Internal Review Meeting by Ministry, hosted by Polavaram Project Authority on 11.06.2021 through Video Conference,
- DG, NWDA held a discussion with Hon'ble Minister of Jal Shakti, DoWR, RD&GR, regarding reviewing the organisation of 7th IWW-2021 considering Covid 19 Pandemic in the Chamber of Hon'ble Minister, MoJS on 14.06.2021,
- DG, NWDA attended the meeting regarding 'Review of National Projects' taken by Hon'ble Minister, MoJS in the Chamber of Hon'ble Minister, MoJS on 16.06.2021,
- DG, NWDA attended meeting regarding revised flyer for attending the 27th Water Talk National Water Mission, MoJS through Video Conference on 18.06.2021,
- DG, NWDA attended the meeting regarding नगर राजभाषा कार्यान्वयन समिति (दक्षिण दिल्ली – 03) through Video Conference on 21.06.2021,
- DG, NWDA attended the Monthly Review Meeting taken by Secretary (WR,RD&GR) through Video Conference on 22.06.2021,
- DG, NWDA attended the meeting taken by Hon.ble Minister Jal Shakti regarding Review of Priority "Interlinking of Rivers Projects" in the Chamber of Hon'ble Minister of Jal Shakti, Shram Shakti Bhawan, New Delhi on 23.06.2021,
- DG, NWDA attended the meeting with CWC in respect of DVG & DEG links through Video Conference on 29.06.2021.

Possibility of Solar Power Generation through Canal Top Power House on Par-Tapi-Narmada Link Canal Project

1.0 General

* D. K. Sharma

India's position in the region between tropic of Cancer and tropic of Capricorn attracts more solar energy. With the aim to create a collaborative platform for increased deployment of solar energy technologies and improve access to solar energy, India has put foundation stone for the formation of International Solar Alliance (ISA) with initiation lauched by Hon'ble PM of Government of India in November 2015 in Paris and was conceived as a coalition of solar-resource-rich countries to address their special energy needs. The ISA will provide a dedicated platform for cooperation, which help global community, including governments, bilateral and multilateral organizations, corporates, industry, and other stakeholders to achieve the common goal of increasing the use and quality of solar energy in meeting energy needs of prospective ISA member countries in a safe, convenient, affordable, equitable and sustainable manner.

Around 120 countries have already been agreed on it and more are interested to be the part of it. India being headquarter of ISA would be a better market for the development of solar energy in the years to come. India is a densely populated country and would be a big concern for solar energy development, as availability of dedicated land for solar PV plant as of now requires 4.5 to 5 acres for 1 MW, which is comparatively high. The other options available in terms of rooftop solar, which is also finding difficulty because of demand side concerns.

Though India's per capita energy consumption has crossed 1,000 kWh mark but it is still very less than that of global average and developing countries like China (around 4,000 kWh). As India now thinking more strategically for its energy security as 80% of energy needs are met through imports of fossil fuels, in this regard renewable energy is going to play a pivotal role of which solar will be a leader.

Solar energy has been recognised as the most promising source of renewable energy all over the world and now it has been considered as the main source of energy. Solar energy has the potential to replace the century old energy harnessing technology, which was highly carbon intensive. As per the recent International Energy Agency (IEA) declaration, renewables is now in mainstream and the world now is talking more on it in terms of carbon efficiency because of global environment and related warming concerns, which is a big threat to the humanity.

Solar and wind is surpassing the other renewables to be the largest share in renewable market. The drastic downfall in the cost of solar modules has accelerated the growth and led the energy enthusiasts all over the world to think of it. The PV module prices are declined by around 25% during the last years – which facilitated the bidders to build projects at competitive rates.

2.0 Solar Energy Scenario

Indian government has targeted 100 GW of Solar PV by 2022 of which 60 GW is ground-mounted solar and 40 GW is rooftop solar. India's strong commitment in Paris during the event of UN's Climate Conference COP 21 in 2015 was a game changer not only for Indian solar market but also for Global ones. India's Intended Nationally Determined Contribution (INDC) prior to Paris Conference talked too much about the renewable energy and decarbonisation of energy mix.

^{*} Superintending Engineer, NWDA, Palika Bhawan, New Delhi-110066.

Solar power capacity in India is expected to shoot up rapidly over the next few years as the Central Government and several State Governments have planned for many solar projects in near future.

2.1 Solar Canal Top Scenario

One of the biggest disadvantages of solar PV plant is the requirement of huge land area of 4.5 acre per MW. The solar PV plants are generally installed away from the point of use. Canal-Top has proved to be most innovative with respect to use of unused area for solar plant. India's proposed target of 100 GW Solar Energy by 2022 requires a toal land of about 1.5 times the size of Delhi, if the entire capacity of Solar PV Plants were installed at one place.



Considering the country's large irrigation canal network and issues of huge land use for solar plants, the Government of Gujarat put forth the concept of construction of solar PV plant on canal top.

The pilot project of 1 MW Canal Top Solar PV Power Plant was inaugurated on 24 April 2012 on Narmada Branch Canal at Sanand, Gujarat. The project virtually eliminated the requirement to acquire vast tracts of lands and saved evaporation of water from the 750 metres long canal and is presently tackling two challenges simultaneously by providing energy and water security. After the success of the pilot project, Gujarat came up with another 10 MW Canal Top Solar Power Plant on Narmada Canal near Vadodara and is running very successfully. Thereafter, Karnataka Government came up with 1 MW Canal-Top Solar PV Power Plant on Krishna River System recently.

2.2 **Benefits of having Canal Top Solar PV Plant**

- Saving of huge land area (4.5 to 5 acres per MW).
- Helps reduce CO_2 Emission by 1,280,000 kg per year.
- Helps reduce water loss due to Evaporation approx 90 Lakh Litres per MW annually.
- Generation efficiency increases by 2.5% compared to similar ground mounted solar plant.
- Helps strengthen the power grid.
- Helps reduce the T&D losses as generation is close to consumption point.

3.0 Par Tapi Narmada Link Project

The PTN Link Project is a multipurpose scheme with proposals for providing irrigation, hydropower and water supply benefits. Gujarat State is principal beneficiary the and Maharashtra State will get the benefits of irrigation, water supply to tribal areas in Nasik district and power



Canal Top Solar PH on Narmada Canal near Vadodara

generation. The project will provide an annual irrigation of 2.32 lakh ha utilizing about 1330 MCM of water including water supply and also generate 21 MW of hydropower.

The PTN Link Project comprises construction of Six dams:

- i) Jheri dam across river Par in Peint taluka of Nasik district in Maharashtra,
- ii) Paikhed dam across river Nar a tributary of river Par,
- iii) Chasmandva dam across river Tan-tributary of river Auranga- in Dharampur taluka of Valsad district in Gujarat,
- iv) Chikkar dam across river Ambica, in Ahwa taluka of Dang district,
- v) Dabdar dam across river Khapri a tributary of river Ambica in Ahwa taluka of Dang district, and
- vi) Kelwan dam across river Purna in Ahwa taluka of Dang district in Gujarat.

3.1 Canal-Top Solar PV Power Plant on Par-Tapi- Narmada Link Canal Project

In pursuit of promotion of Renewable Energy Generation and utilization of Canal Top Solar Plant as objectives, NWDA has decided to explore the possibility of developing Canal Top Solar Power Plant on the proposed PTN Canal Project. This would help the country as well as State Government of Gujarat to cater the huge potential of solar energy in an efficient manner and help achieve big solar energy target of 8,020 MW of the Gujarat State by 2022. In this regard, a Detailed Project Report for the proposed Canal-Top Solar PV Power Plant has been prepared by M/s Gujarat Energy Research and Management Institute (GERMI), Gandhi Nagar by considering all the parameters at par with Vadodara region of Gujarat.

The overall capacity considering the total length of the canal, it is estimated that from all the segments of PTN canal, 1138 MW solar power can be generated. Power generations in terms of kilowatt-hours have been calculated using PV Syst simulation software. Standard radiation data for last 25 years have been fetched from NASA-SSE database in the appropriate format and are fed into PV Syst software. As per NASA radiation data, the main results show that the annual energy production for a 1 MW Solar Plant would be of the order of 1,590 MWh/year; the produced useful energy (inverter output) of the plant for the location would be 4.34kWh/kWp/day with performance ratio of 78.4%. As expected, maximum generation is observed in summer months with reasonably good generation in winters.

Further, financial projections for 25 years have been estimated by GERMI with the variable parameters of site - specific project costs and Capacity Utilization Factor (CUF) keeping all other parameters, e.g. discount rate, depreciation, and O&M cost, etc. same as assumed in Central Electricity Regulatory Commission (CERC) order dated 30th March 2016.

Considering the current cost trends of solar PV systems and structure cost, the project cost is estimated as Rs.822 lakh/MW and the operation and maintenance cost are calculated at 1% of the project cost/year. The CUF of the plant is calculated at 18.20% considering the tariff without Accelerated Depreciation (AD) benefit at Rs. 5.60/KWh for 25 years and thereafter degrading by 1% per year relative, as compared to the previous year. It is observed that the Internal Rate of Return (IRR) for the Project is worked out as 6.59%, while the Equity IRR for the Project is 4.49%. Whereas, if we consider with AD, then IRR remains the same; but Equity IRR is increased to 6.04%. Benefit-Cost Ratio for the project is estimated as 1.02.

Source:

Detailed Project Report for Canal-Top Solar PV Power Plant on Par-Tapi-Narmada Link Canal, Gujarat; prepared by Gujarat Energy Research & Management Institute (GERMI), Gandhinagar.

Technical Digest

The technical work programme of NWDA for the year 2021-22 has been finalized by DG, NWDA. The finalized programme pertained to various Investigation Circles and Divisions of NWDA spread across various regions of our Country. The work programme namely contains DPR /FRs/PFRs preparations of various link projects both coming under the NPP as well as Intra-State as proposed by various State Governments of India; post DPR activities; modifications and scrutiny of FRs and Revision of Water Balance Studies (WBS) of River Basins/Sub-basins.

The present status of the progress achieved on the above cited works during the reporting period starting from 1st April 2021 to 30th June 2021 were as follows:

I. Present Status of Preparation of DPRs

SI. No.	Name of Link Project	Present Status of Preparation of DPRs
1.	Godavari(Inchampalli /Janampet)– Cauvery (Grand Anicut)	The draft DPR of the link project has been completed and circulated to party States. The draft DPR was modified after incorporating the feasible comments of the States and observations of HQs. The final draft report is circulated to the Party States on 28-04-2021.
2.	Krishna (Srisailam) - Pennar	Detailed action plan for DPR preparation is completed
3.	Godavari (Inchampalli) - Krishna (Pulichintala)	Drawings of the FR stage are being modified for the DPR by updating the relevant details.
4.	Bedti – Varada	The DPR is taken up for two alternatives viz., Alt-I: Bedti - Varada NPP link proposal envisaging diversion of 276 MCM and Alt-II: Bedti (Suremane) - Dharma (Varada) link project envisaging diversion of 327 MCM. Preparation of the DPR is in progress.
5.	Cauvery (Kattalai) – Vaigai – Gundar	Draft DPR has been prepared and circulated to the concerned States of Tamil Naidu, Kerala and Karnataka and UT of Puducherry for their observations/comments.
6.	Integration of Parbati-Kuno- Sindh(P-K-S) with Eastern Rajasthan Canal Project(ERCP)	DG, NWDA held a review meeting under the Chairmanship of Member (WP&P), CWC regarding the integration of P-K-S and ERCP link projects on 16.04.2021 at CWC, New Delhi. Draft PFR of this link project was circulated to Madhya Pradesh and Rajasthan Governments. Comments from Rajasthan Government are being attended
7.	Damanganga (Ekdare) –Godavari and Damanganga Val/Vagh) – Vaitarna – Godavari (Kadva Dev) (Intra-State Link projects)	SE, NWDA, Valsad held a meeting with Chief Engineers and Directors of CWC on 20.04.2021 through VC regarding MoUs for consultancy works with CWC and supply of data / reports to CWC for Design. Another meeting was also held in the O/o Chief Engineer (WRD), Maharashtra,Nashik between the Officers of WRD, Maharashtra and NWDA, Nashik on S&I works for the preparations of DPRs of the two link projects of Maharashtra on 31-05-2021. The works are in progress.
8.	Damanganga – Sabarmati – Chorwad Link Project (Intra- State Link)	Realignment work of the link alignment in Sabarmati- Chorwad reach of D-S-C is in progress. As per the suggestions of Gujarat Government, alternatives (a) connecting D-S-C with Narmada canal near Raska Weir and (b) D-S-C with Kalpasar Project through Bhadbhut Barrage are being explored by field office. Digitization of maps for the portion of P-T-N link canal common with the D-S-C Link Project is under progress.

<u> </u>	Present Status of Post DPR Activities		
SI.No.	Name of Link Project	Present Status of Post DPR Activities	
1.	Ken – Betwa Link Project (KBLP)	A tripartite MoA for the implementation of the project was signed jointly by the Hon'ble Union Minister for Jal Shakti and Hon'ble Chief Ministers of Madhya Pradesh and Uttar Pradesh on 22.03.2021 in the virtual presence of Hon'ble Prime Minister of India. A PIB Memo for financing Ken-Betwa Link Project on 90(C):10(S) funding pattern and setting up of SPV viz Ken-Betwa Link Project Authority(KBLPA) for its implementation has been circulated to various Union Ministries and Departments on 20.05.2021 for their comments.	
2.	Par – Tapi – Narmada Link Project (PTNLP)	The issue of consensus building is being pursued by NWDA and MoJS with Gujarat and Maharashtra Governments on sharing of water. The DPR is presently under appraisal in CWC. Matter of getting clearances from MoEF&CC and MoTA are being persued.	
3.	Damanganga-Pinjal Link Project (DPLP)	The issue of consensus building for water sharing is being pursued by NWDA with the Government of Maharashtra and Gujarat. Matter of getting clearances from the MoEF&CC and MoTA are also being persued.	
4.	Wainganga(Gosikhurd) – Nalganga((Purna / Tapi) Link Project (Intra-State)	Desk top study for extension of Wainganga (Gosikhurd) – Nalganga (Purna) Intra-State link project upto Pentakli dam through pipeline and tunnel prepared by field office as requested by the Government of Maharashtra is under scrutiny.	
5.	Kosi-Mechi Link Project(Intra-State)	DPR was accepted and recommended respectively by the Advisory Committee and Investment Clearance Committee of DoWR, RD& GR in its 129th and 40th meetings held on 22.10.2020 for investment clearance under State Plan. Role of NWDA in implementation of the link project is to be decided in consultation with Bihar Government.	
6.	Ponnaiyar-Palar Link Project (Intra- State)	DPR has been completed and the EIA studies for getting Environment Clearance from State Environment Impact Assessment Authority are in progress.	

~

<u> </u>	Present Status of Prepa	aration/Modifications of FRs/PFs of Link Project
SI No.	Name of Link Project	Present Status of Modification of FRs
1.	Yamuna – Rajasthan Link Project	FR of this link project is under updation in field office.
2.	Rajasthan–Sabarmati Link Project	FR of Rajasthan — Sabarmati link is circulated to concerned states in February 2021.
3.	Ganga-Damodar- Subarnarekha Link Project	FR of the link project has been completed and circulated in March 2021.
4.	Subarnarekha-Mahanadi Link Project	FR of Subarnarekha-Mahanadi link project is completed and circulated to concerned States in February 2021. Preliminary works for taking up of DPR work is under progress.

5.	Chunar-Sone barrage Link project	Report is under modification in field office as per the HQs observations.
1.	FRs of Manas-Sankosh – Tista – Ganga (M-S-T-G) and Mahanadi (Barmul) –Rushikulya – Godavari (Dowlaiswaram) Link Project	The draft FRs of the link projects have been finalized and circulated to the concerned States. Presently system study of various possible scenarios for understanding long term effect on enroute canal irrigation for the M-G link is under progress through outsourcing by NIH, Roorkee. This study will also consider the effect of Groundwater Recharge/Climate Change etc. Expression of interest has also been received from Academic Institutions /Organisations for the System Studies of M-S-T-G, G-D-S and S-M link projects and the processes for finalizing various attributes of these system studies are in progress
2.	FR of Gandak – Ganga Link Project	FR of Gandak – Ganga Link Project for Indian portion has been completed and circulated to concerned states. Topographical surveys of Nepal portion using latest technology like drone/ satellite data is proposed to be taken up.
3.	FR of Kosi – Ghaghara Link	FR of Kosi – Ghaghara Link for Indian portion is under preparation in field office.
4.	FR of Netravati - Hemavati Link Project	For preparation of FR of the Project the WBS at Yettinahole, Kerihole and Hongadhalladhole diversion sites submitted by Division Office is scrutinized in Circle Office and sent the views to ID Office for incorporation.
5.	PFR of Nagavalli- Vam sadhara Rushikulya link Project	The PFR of Nagavalli-Vamsadhara Rushikulya Intra-State link Project of the State Government of Odisha is in progress.

IV. Present Status of Revisions of Water Balance Studies

Revisions of the WBS reports are generally done after a period 10 years of the completion of its Preliminary WBS that were conducted for the same basins/subbasins and at the events of availability of more data and need of conducting alternative studies to optimise water resources utilizations at various locations of the same river basins/sub-basins.

Presently 33 WBS are considered for revisions in the targeted work plan of NWDA for the year 2021-22 and are at various stages of completions. Efforts are being made to complete the revisions as per the planned/targeted work plan of NWDA for the year 2021-22.

ILR in Parliament

The ILR issues raised and discussed in both the houses of Parliament (Lok Sabha and Rajya Sabha) during the reporting period starting from 01st April 2021 to 30th June, 2021 and projected on the Parliament of India Website are usually used to incorporate here for projections.

However, since both the houses could not conduct any sessions during the reporting period, matter under this portion may be treated as "NIL".

Water Resources in Media



Pre-monsoon rain deficiency hits states

Jayashree Nandi

letters@hindustantimes.com

NEW DELHI: The pre-monsoon season (March, April and May) has remained dry in several parts of the country with many states recording deficient rainfall, the India Meterological Department (IMD) has said.

While northwest India reported a rain deficiency of 43% between March 1 and April 12, Uttarakhand recorded a deficiency of 78%.

Likewise, western and eastern Uttar Pradesh registered a deficiency of 93% while Haryana, Chandigarh and Delhi reported a shortage of 68% during the same period, the weather body noted. RAIN DEFICIENCY HAS LED TO FOREST FIRES IN U'KHAND AND HIGH DUST AND PM LEVELS OVER NORTHERN PLAINS, OFFICIALS SAID

"It hasn't rained at all in the plains during this season. There was light rain and thunderstorm activity in the first week of April but it was very light. Even though four western disturbances have affected the western Himalayan region this month, their impact has been limited to the upper reaches. It has been so dry that the relative humidity in Delhi yesterday was only 31% in the morning when it is supposed to be the highest and only 17% in the evening," Kuldeep Shrivastava, head, regional weather forecasting centre, said.

IMD Pune's Standard Precipitation Index for March and the first week of April suggested that almost the entire northwest India and Indo-Gangetic Plains region remained mildly to moderately dry between April 1 and 7.

The country as a whole recorded a rain deficiency of 42% between March 1 and April 12 with 54% deficiency over the southern peninsula, 30% over the central region and 39% over northeast and east India. It is this rain deficiency that has led to several forest fires in Uttarakhand and high dust and particulate matter (PM) levels over the northern plains.

At least 8,550 forest fires have been recorded in Uttarakhand alone between April 1 and 12, according to data provided by Forest Survey of India's Fire Alert System.

However, a fresh disturbance is likely to affect the Western Himalayan region between April 14 and 17. It is likely to cause scattered to fairly widespread rainfall with thunderstorm and gusty winds over the western Himalayan region during this period and isolated light rainfall over the adjoining plains between April 15 and 17.

Hindustan Timnes Dated : 19.04.2021 The Hindu Dated : 25.04.2021 Groundwater depletion may reduce winter Monsoon 2021: The good and bad news cropping intensity by 20% in India n its long-range forecast, the India Meteorological Department (IMD) announced that this year's monsoon is likely to be "normal" at around 98% Policy-supported intensive agriculture led to unsustainable groundwater use, water scarcity of the long period average (LPA). The 2020 and 2019 monsoon were "above normal" at 110% and 109% of LPA, respectively. The monsoon is not just important understand how groundwa- cy-supported intensive agrithese villages may lose 68% because it is responsible for a remarkable 80% of the ASWATHI PACHA culture led to unsustainabl ter depletion has already reof their cropped area in futotal rainfall in India. It is also essential for the groundwater use for irrigaduced yields and cropped economy, and has been termed India's real finance India is the second-largest ture if access to all groundareas in India over the last tion and in turn groundwawater irrigation is lost. The minister. Rains are crucial for agricultural producer of wheat in the 20 years, and also how cliter scarcity. There was also productivity, food security, farm employment, and world, with over 30 million results suggest that these mate change may affect the post-harvest residue burnrural income. Additionally, a normal monsoon hectares in the country dedlosses will largely occur in future availability of grounding to make way for the icated to producing this northwest and central India. rejuvenates arid lands, restores water sources, and timely sowing of wheat. He provides much-needed relief from the summer heat. water resources. crop. But with severe is one of the authors of the However, all is not well with the monsoon rains. groundwater depletion, the Alternative sources cropping intensity or the The team then looked at ca- Scarcity: A good 13% of Unsuited soils A study by scientists at the Ludwig Maximilian paper. amount of land planted in nais to understand if they villages with winter crops are Balwinder Singh from the In-University shows that the monsoon season will turn ternational Maize and Wheat Poor infrastructure stronger and more erratic due to the climate crisis. the winter season may de- can be promoted as an alter- in critically water-depleted Improvement Center, New He adds that there are Apart from damaging crops, the highly wet weather crease by up to 20% by 2025, native irrigation source and regions. +GETTY IMAGES Delhi, explains more about enough groundwater recan also impact health, as the season becomes a notes a new paper. Some of as an adaptation strategy to the important winter crops falling groundwater tables, gies can be implemented, the problems wheat farmers sources supported with breeding ground for epidemics and vectors. That its are wheat, barley, mustard But the results showed that corresponding author Meha face in our country. "There higher monsoon rainfall in spatial distribution may not be optimal is also clear "switching to canal irrigation Jain explains: "We can con- are several first-generation eastern Indian states like Bifrom IMD's last week's forecast that Jharkhand, and peas. The international team has limited adaptation po- jecture based on other litera- (productivity) and second- har. But due to lack of Odisha, Bihar, and the northeastern states may not studied india's three main ir- tential at the national scale. ture and say that adoption of generation (sustainability) enough irrigation infrasreceive adequate rain. If one reads this warning rigation types on winter We find that even if all re- water-saving technologies problems. In the green revo- tructure, farmers are not along with a report released last week by Indian lution era, policy-supported able to make use of natural Institute of Science, Bengaluru, and Indian Institute cropped areas: dug wells, gions that are currently us- like a sprinkler, drip irrigatube wells, canals, and also ing depleted groundwater tion and maybe switching to environment led to a large of Technology at Mandi and Guwahati, which says resources there. that Assam, Bihar, and Jharkhand are the most analysed the groundwater for irrigation will switch to less water-intensive crops "So we need better poliincrease in rice cultivation in data from the Central using canal irrigation, crop may help use the limited northwestern India mainly cies in eastern India to exvulnerable due to the climate crisis, then the link Ground Water Board. They ping intensity may decline groundwater resources in Punjab and Haryana between the climate crisis, monsoon and economic pand the irrigation and thus found that 13% of the villages by 7% nationally," notes the __mateeffectively," She is from which are ecologically less growth is visible. These are some of India's poorest increase agriculture proin which farmers plant a paper published in Science the School for Environment suitable for rice cultivation ductivity. This will also reregions. The State must strengthen them against associated risks such as drought and floods. India winter crop are located in Advances. and Sustainability at the Un- due to predominantly light lease some pressure from must also develop a climate-risk index based on northwestern India critically water-depleted re- When asked what new or iversity of Michigan. soils." hazards faced by and the vulnerability of states. Her team is now trying to He explains that this poli-states," he concludes. gions. The team writes that additional adaptation strate-

The Times of India Dated : 07.05.2021

Will The Proposed Ken-Betwa Project Solve The Region's Water Woes Or Destroy Livelihoods And Ecosystems? Experts Are Sharply Divided

With uneven rain, river linking only way to ensure equitable distribution of water

Interlinking of rivers will help the country fulfill its dream of ensuring the country fulfill its dream of ensuring thereby, prosperity for all. There have been several such steps in this di-rection, and in 1980 a National Perspe-tive Plan was formalised. This is involved transfer of water from water-surplus shins to water-deficit basin's regions in which 30 links were identified. Somehow, while imagination hough its wall name would have been the National Inter-Basin while invariantion hough its wall name would have been the National Inter-Basin water Transfer Project. Nough India receives about 4000 BCM (billion cubic meters) of precipitation munually utilisable resources are only util evenly in space or time. Most of the precipitation occurs in about 90 days in a year and the distribution of annual water and 11.00 RCM for mars and 12.00 BCM for Ganga, SZT BCM from Brahma-utra and 11.00 RCM for Pennar and 12.00 BCM for Sabarmant. This shows the skew

Like any other infrastructure Ken-Betwa interlinking project, Ken-Betwa interlinkin will have some environmental and resettlement issues. But, with a comprehensive environment management plan, compensatory afforestation and a liberal R&R policy, these impacts will be taken care of

tween potential demands and availa-lity It has, therefore, been recognised at the inter-basin transfer of water is e only recourse for making an equita-ic distribution of water across the coun-y and thereby ensuring equal opportu-tives of devoloment.

Determination of water across the coun-try and thereby ensuring equal opportu-nities of development. Inter-basis water transfer is not a new concept and there have been many such successful examples in the country. It has been practised in our country since 1867 when the Mulla Periyar dam was built and waters of the west flowing einer berth muse basef new basef. some bull and the new of the breast flowing some bull and the new of the breast flowing time basis new term time and some flow the durant for about 68,000 heetares. Just ask durant for about 68,000 heetares. Just ask some plays in their lives. Similarly, we have already made trans-basin transfers under glays in their lives. Similarly, we have already mainter trans-basin transfers and the Calorado El gifthour and a star-tic some of the Beas Satuly link. Sardar Sahayak pariyojana, Sardar Sarvara Project, Kurrood Cuddapaja canal etc which are through the Calorado Elig Thourpason project has some of the Calorado Elig Thourpason project has



AB randya AB randya

roject, KBLP wil



WHAT ARE THE PROS ... Irrigation water to help farmers in water-scarce areas Drinking water supply will reduce pressure on ground water sources Hydro and solar power to be generated

generator source micromental and resettlement and rehabilitation (R&R) issues. Bundhan res-evolar will cause submergence of about 9,000 hal and of which 5,000 ha is forest and. However, with a comprehensive en-vironment management plant (&BP), com-pensatory afforestation and librari R&R policy, these impacts will be taken care of a comprehensive lundscape management plant is nice be-tour the second second second second plant is nice be-tour the second second second second plant is nice be-tour the second second second second plant is nice be-tour the second second second second plant is nice be-tour the second second

vation of Panna Tiger Reserve. Even wildlife will get suste-nance in hot summers with assured water supply from the

maining arbs: tively low level will expose large tracts of land allowing fielder to be grown, benefit-ting the lower rang of wildlife which, in turn, can support the whole yramid. The second second second second second employment in Bundelshand region, com-rolling forced ungeration to far Hung ansas for livelihood. The assured drinking water rolling alroad up upth health standards of the local populao. Paradys is Secretary General, International Commission on Irritation and Demisson

AND THE CONS

 Will submerge large parts of Panna reserve and impact Ken ghariyal sanctuary
 Large-scale chopping of trees will only increase water scarcity ive and usually

A tfirst glance, the Interlinking Rivers Programme (ILRP) offers great appeal. India is generously system biothysed with a sprear dimensional outs, these rivers are whinsical prone to recerring flocks, bone dry droughts and with vast volumes winding circuitously before was-to-ble

<text><text><text><text><text><text><text><text><text>

ree levels. First, the entire oject rests on a project reals on a wrong assumption thing as a river with a 'striver with a 'striver with a 'striver der the broad field of 'river color have convincingly established that a river cannot be defined

Our quest to control rivers doesn't

account for the stiff ecological cost

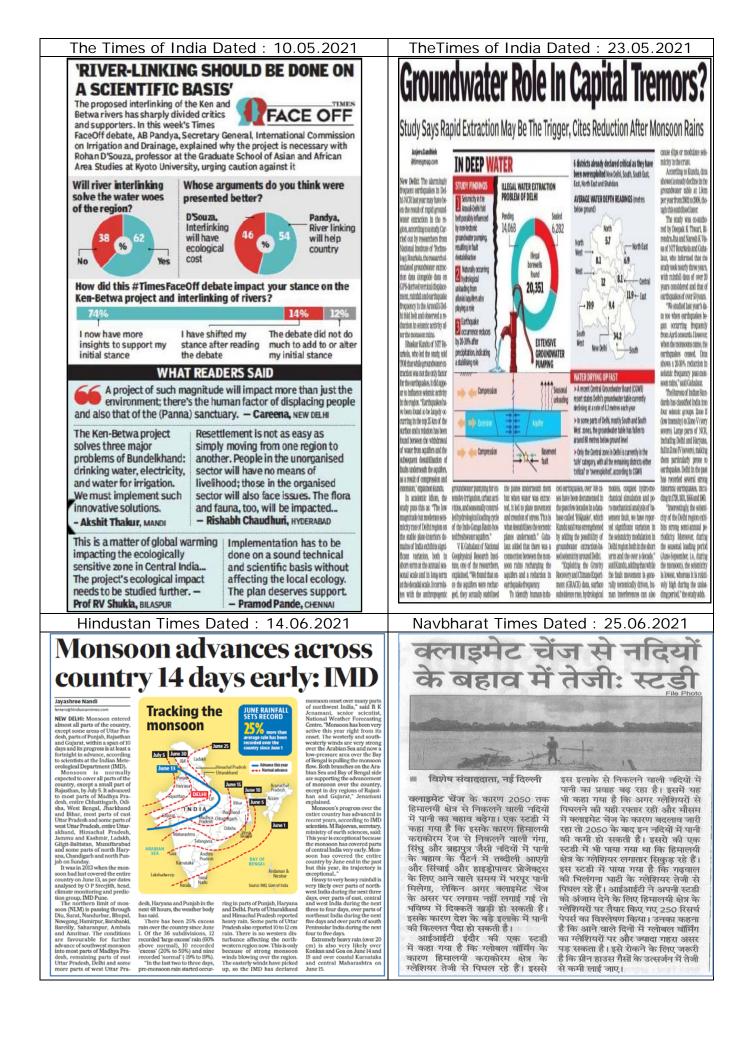
der the broad field of 'river cosing' AGAINST testablished that a 'ver cannot be defined as 'lots of water' in a channel. Rather, every river is a fluvial highway that con-nects floor and fluun across and between floodplains, wetlands, deltas and estury term metal inverses such as creating fish habitats, replenishing soil, sustaining biodiversity avriability floods or low fores any tial to enabling the river to cool and deposition. Seasonal variability floods or low fores any tial to enabling the river to cool and deposition. Seasonal variability floods or low fores are y tial to enabling the river to cool and the river to cool and the river to the fore be understood not an assist flows but as a collection of coological relations have a surplus flow. If the principal assumption is clearly wrong it should also come as no surprise for and order of complications for and nor targe scale irrigation project in hadia has a tundency to get the target and the interview of the strength and the interview of the strength or the strength or the river to be revery big dam or large scale irrigation project in hadia has a tundency to get their to a represent the is becomplications failed with the low the maximum rate dams, the long-term impacts from large dams, the long-term impacts from large scale were inseling the seasoned the strength for all the assumed the rightly rel to be maximal the river does of fish-eries have yet to be maximal the solution of the rest of trigging and the does fish-eries flow the infrastructure develop mant dum developing methodologies that can meaningfully capture ecological targe scale water infrastructure develop method the infrastructure develop method the river work the ecological cost. But the even meaningfully added and the develop as the infrastructure develop method ware long rate scale local cost.

But the wrong assumption and flawed reasoning that haunts the ILRP is actu-ally indicative of a far more profound and fatal limitation. Recent scholarship, mestly by historians, has ably described how water infrastructure and manage-ment in post Independent India has tended to retain a strong colonial ener.

the ILRP was, in fact, first championed in the 1866 by the famed coincil angi-neer and irrigator General Sir Arthur Cottor, first the famed coincil angi-neer and irrigator General Sir Arthur Cottor, first the bruild mark sittine ca-nais that would link Karachi (now in Pakistan) to Madras (Cheman) via Kan-pur, Kolkata and Cuttack with additional ines crawling uwards to Phan. In terms of rivers, this meant connecting the Indus ines crawling uwards to Phan. In terms of rivers, this meant connecting the Indus the Inter servey to the South to link up with the Mahamdi, Krishna, Godwari and finally the Cauvery And if such a vast navigation network could be built, the General then confidently concluded, these would be a such that the confidently concluded, the of the confidently concluded in the poorly understood claim that rivers are never flows that need to be regulated and can be put to work by dams, barrages, Starkly missing in the picture is how we

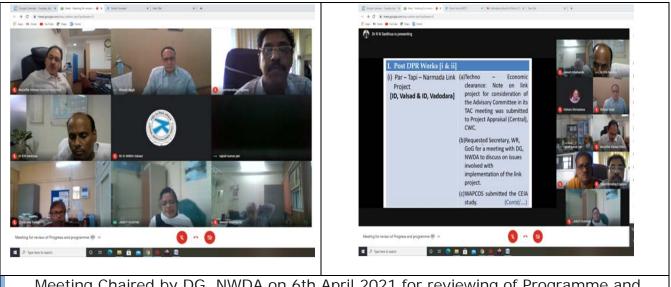
The entire project rests on a wrong assumption. There is no such thing as a river with a 'surplus flow'. And if the principal assumption is clearly wrong, it should come as no surprise that the other calculations are based on flawof macaning. flawed reasoning

rater: D'Souza is Professor, Gr School of Asian and Africa Studies, Kyoto Uni



1. Meeting for reviewing the progress and finalising the work programme of NWDA for the year 2021-22

A virtual meeting to review the progress of works completed during the year 2020-21 and finalise the work programme of NWDA for the year 2021-22 had been convened on 06.04.2021 under the Chairmanship of DG, NWDA. All the Heads of Field Offices and Unit Heads of the HQs, NWDA were participated in the meeting. At the outset DG, NWDA mentioned that the progress of works achieved during the year 2020-21 was quite satisfactory and sought the co-operation of all the Officers and Staff to continue their working spirit in the coming years also. DG, NWDA opined that all the pending FRs are to be targeted for completion by December, 2021. In addition, he informed that 3 or 4 DPRs under each Chief Engineer (North/South) jurisdictions are also to be completed by 2023. Both the Chief Engineer (North), NWDA, Lucknow and Chief Engineer (South), NWDA, Hyderabad made their presentations on their achievements during the year 2020-21. After seeing the presentations, Officers were engaged into detailed deliberations and a tentative work programme for the year 2021-22 had been finalised.



Meeting Chaired by DG, NWDA on 6th April 2021 for reviewing of Programme and Progress of NWDA and Preparing Tentative work programme for the year 2021-22.

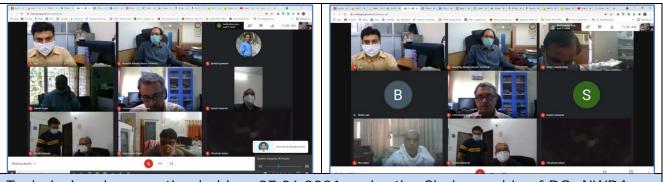
2. 17th Meeting of the Sub-Committee for System Studies

The 17th meeting of the Sub-Committee on "System Studies for identification of most Appropriate Alternative Plan" of the Special Committee for Interlinking of Rivers (SC-ILR) was held on 08.04.2021 through video conferencing under the Chairmanship of Prof. P.B.S. Sarma (Retd.), CED, IIT Delhi. In the meeting issues of System Studies of Mahanadi – Godavari Link Project, including reconciliation in the parameters of System Studies being carried out by NIH, Roorkee and the Proposals for taking up the system studies of other links namely Manas – Sankosh – Tista – Ganga; Farakka – Sunderbans; Ganga – Damodar – Subarnarekha and Subarnarekha – Mahanadi had been discussed. A brief presentation on the approach and methodology proposed to be used in the system studies of identified links had been made before the Sub-Committee by reputed institutes along with Expression of Interest. During the meeting, the attributes and their weightages to be assigned for the evaluation of technical proposals for carrying out system studies of link proposals were deliberated.

The Chairman of the Sub-Committee opined that Members may suggest /convey their views, if any, on the attributes and their weightages as proposed above as soon as possible so that technical proposals may be sought from the institutes/organisations at an early date. DG, NWDA also suggested to encourage organisation or institute to associate with other organisations/institutes to carry out the study looking at the requirements of experts in various domains based on geographical spread of study areas and also mentioned that such consortiums with the required multiple specialists would be useful for conducting the studies and the approach may further help not only in carrying out the studies efficiently but also in creating expertise base in the required domain across the country.

3. Technical Review Meeting of NWDA

Technical review meeting of NWDA had been taken by DG, NWDA on 07.06.2021 through virtual platform. In the meeting issues of publication of Jal Vikas; finalisation /preparation of Annual Reports of NWDA for the financial year 2019-20/2020-21; finalisation of Agenda for the forthcoming Governing Body meeting of NWDA; Survey works for FR studies in Nepal portion; and Stage-II forest clearance of KBLP had been discussed.While concluding the review meeting DG, NWDA informed to accomplish each activity as per the targeted work programme of NWDA fixed for the year 2021-22.



Technical review meeting held on 07.06.2021 under the Chairmanship of DG, NWDA

4. Amrit Mahotsav Celebrations Held in NWDA

'Azadi Ka Amrit Mahotsav' is an initiative of the Government of India to celebrate and commemorate 75 years of independence of progressive India and the glorious history of its people, culture and achievements. Hon'ble Prime Minister of India, Shri Narendra Modi inaugurated the 'Azadi Ka Amrit Mahotsav' by flagging off 'Dandi March' from Sabarmati Ashram, Ahmedabad on 12-03-2021. The celebrations thus started 75 weeks before our 75th Anniversary of Independence Day and will end on 15th August, 2023.

NWDA carried out various programme/ activities to commemorate the 'Azadi Ka Amrit Mahotsav'. During the reporting period activities planned by NWDA starting from 5th to 17th week of the Mahotsav had been observed with the activities/programme especially on "Jallianwalah Wala Bagh Massacre Day[13 April- as the historical Jallianwala Bagh Incident was happened on 13-04-1919"]; "Awareness on River Interlinking Programme" [on various dates - 5th& 26th April; 3rd, 17th & 24th May; and 14th June and respectively at different Field Offices located at Valsad, Chennai, Bhubanewar, Jhansi, Vadodara and Lucknow]; "First War of Independence [10 May-India's first war of independence, known as the Indian Rebellion of 1857, began on May 10 in the year 1857. The first martyr of the revolt was Mangal Pandey]; National Technology Day [11 May- India observes National Technology Day on May 11 to mark the anniversary of the Pokhran nuclear tests of 1998]"; "Anti Tobacco Day"[31 May]";

"Awareness on Water Conservation and Water Security" [7th June at Patna]" and "International Yoga Day" [21 June at Headquarters and Field Offices of NWDA]:



4.1. In Commemoration of Jallianwala Bagh Incident, Officials of NWDA(HQ), Saket give tribute to Freedom Fighters of India by observing 2 minute Silence on 13.04.2021





4.2.1 Posters of P-T-N, D-P and K-B Link Projects displayed and Pamphlets were distributed at Investigation Division, Valsad, NWDA for Creation of Awareness on ILR Programe.





4.2.2 Banners and Pamphlets related to P-T-N and D-S-C Link Projects shown and distributed at Investigation Division, Vadodara, NWDA for awareness creation on ILR Programe.





4.2.3 A short procession was held on 26.04.2021 by displaying banners on IIR Programme by the Investigation Division, Chennai, NWDA as a part of awareness creation on ILR.

4.3 Anti Tobacco Day (31 May)

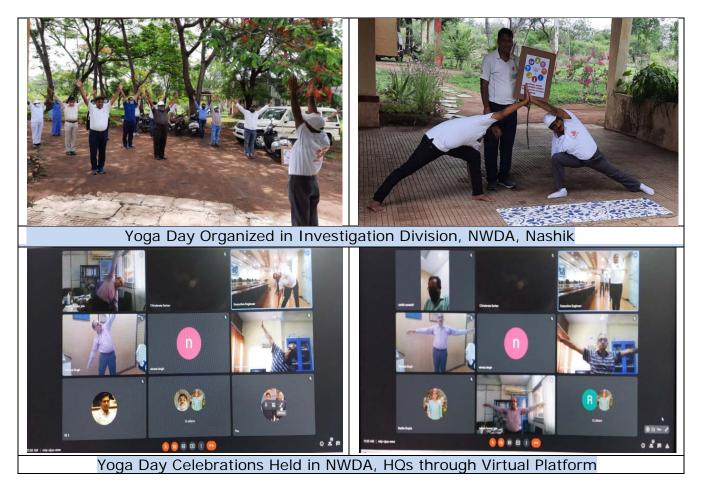


Anti Tobacco day was falling in the 13th week of Amrut Mahotsav. The Member States of the World Health Organization (WHO) created World No Tobacco Day or Anti Tobacco Day(ATD) in 1987 to draw global attention to the tobacco epidemic and the preventable death and disease it causes. This year's theme ATD was "Commit to Quit". On the day pledge had been taken by the Officials of NWDA to never smoke & consume any type of tobacco products in their lives and motivate their family, colleagues and acquaintances not to smoke/ use any tobacco products.

4.4 International Yoga Day (21 June)

International Yoga Day was under the 16th week of Amrut Mahotsav Celebrations planned by NWDA. An age-old health care and wellness practice for holistic living and it ensures a balance of mind, body and soul. International Yoga Day has been celebrated annually on 21st June since 2015, following its inception in UN Assembly in 2014 and is originated in India.

Yoga Day has been celebrated in HQ as well as in field offices of NWDA with great enthusiasm. A virtual workshop on International Yoga Day was organised in NWDA on 21.6.21, with support of a Yoga Instructor. All the Officials of NWDA HQ offices (Saket and Palika Bhawan) participated in the workshop. The Yoga day was celebrated in various field offices of NWDA as well as shown below:



5. Involvement of NWDA in Pradhan Mantri Krishi Sinchayee Yojana

During 2015-16, Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) was launched by the Central Government with an overarching vision to ensure access to protective irrigation for all agricultural farms in the country, and to produce 'per drop more crop', thus bringing much desired rural prosperity.

Accelerated Irrigation Benefits Programme: Central Government launched the Accelerated Irrigation Benefits Programme (AIBP) in the year 1996-97 to provide Central Assistance (CA) to Major/Medium Irrigation (MMI) projects in the country, with the objective to accelerate implementation of such projects which were in advanced stage of completion. After the launch of the PMKSY, the AIBP became a part of the PMKSY. Under PMKSY-AIBP, 99 projects have been prioritized for implementation. The progress of the projects in physical as well as financial terms is monitored through the field units of CWC and Nodal Officer nominated for each of the 99 priority projects regularly, using Management Information System (MIS) developed for this purpose.

NWDA has been identified to act as an agency for borrowing resources from Long Term Irrigation Fund (LTIF) and release Central Assistance (CA) received from NABARD to concerned State Government(s) to complete the PMKSY-AIBP projects in a time bound manner.

	Release of Fund made by NWDA (Rs. in Crores) under PMKSY-AIBP to various States up to 30.06.2021			
S.NO	Distribution of funds to different states	Fund released upto 2020-21	Fund released during year 2021-22	Total fund released upto 30.06.2021
1	Andhra pradesh	91.8100	0.00	91.8100
2	Assam	7.5500	0.00	7.5500
3	Bihar	146.0633	0.00	146.0633
4	Chhattisgarh	62.7896	0.00	62.7896
5	Goa	3.84	0.00	3.8400
6	Gujarat	5635.4553	0.00	5635.4553
7	J&K	46.2522	0.00	46.2522
8	Jharkhand	756.7300	0.00	756.7300
9	Karnataka	1183.3170	0.00	1183.3170
10	Kerala	2.69	0.00	2.6900
11	Madhya pradesh	811.1150	0.00	811.1150
12	Maharashtra	1796.7866	0.00	1796.7866
13	Manipur	228.3540	0.00	228.3540
14	Odisha	1340.8247	0.00	1340.8247
15	Punjab	277.9460	0.00	277.9460
16	Rajasthan	509.9450	0.00	509.9450
17	Telangana	673.8640	0.00	673.8640
18	Uttar pradesh	1553.9120	0.00	1553.9120
Projec	Projects Name			
19	Polavaram project	9898.3600	333.0000	10231.3600
20	North Koel project	721.2200	0.00	721.2200
	TOTAL	25748.8247	333.0000	26081.8247

Appointments, Promotions and Retirements of NWDA Officials

During the reporting period starting from 1st April 2021 to 30th June 2021:

Appointments:

SI.No	Name & Designation	Deputation/Direct	Place of Posting
1	Shri Shiva Prakash,	Deputation	O/o Chief Engineer (North),
	Chief Engineer (North)	w.e.f. 20.04.2021	NWDA, Lucknow.
2.	Shri Subarta Halder,	Deputation	NWDA (HQs.) New Delhi.
	Director (Finance)	w.e.f. 01.06.2021	

Promotions:

SI. No.	Name & Designation	Post and Date of Promotion	Place of Posting on Promotion
1.	Shri Niranjan Swain, Upper Division Clerk	Head Clerk w.e.f. 31.05.2021	ID, NWDA, Bhubaneswar.
2.	Smt. Bijendri Santriwal, Upper Division Clerk	Head Clerk w.e.f. 04.05.2021	NWDA (HQs.), New Delhi.
3.	Shri S.C. Choudhary Junior Engineer	Assistant Engineer w.e.f. 04.05.2021	CE(North), NWDA, Lucknow
4.	Shri Pramod Kumar Rathor, Junior Engineer	Assistant Engineer w.e.f. 05.05.2021	ID, NWDA, Bhopal
5.	Shri Ashok Kumar Shukla Lower Division Clerk	Upper Division Clerk w.e.f. 10.05.2021	ID, NWDA, Lucknow
6.	Shri Praveen Dixit Lower Division Clerk	Upper Division Clerk w.e.f. 07.05.2021	IC, NWDA, Gwalior
7.	Shri R.K. Gupta, Executive Engineer (HQs.)	Superintending Engineer w.e.f. 01.06.2021	IC, NWDA, Bhubaneswar
8.	Shri Rajendra Singh Nayal Lower Division Clerk	Upper Division Clerk w.e.f. 1.6.2021	O/o CE(North), NWDA. Lucknow
9.	Shri Vikram Singh, Lower Division Clerk	Upper Division Clerk w.e.f. 1.6.2021	NWDA (HQs.), New Delhi.
10.	Shri Mohemad Irfaan Lower Division Clerk	Upper Division Clerk w.e.f. 1.6.2021	NWDA (HQs.), New Delhi.
11.	Smt.Mithlesh Maurya Lower Division Clerk	Upper Division Clerk w.e.f. 1.6.2021	NWDA (HQs.), New Delhi.
12.	Smt. Radha, Lower Division Clerk	Upper Division Clerk w.e.f. 9.6.2021	NWDA (HQs.), New Delhi.

Retirements:

SI. No.	Name & Designation	Date of Retirement
1	Shri Gyani Ram, Head Clerk, NWDA, HQs. New Delhi.	30.04.2021
2	Smt. Ravinder Sethi, Head Clerk, NWDA, ID, Gwalior	30.04.2021

3	Shri A.K. Rangare, Assistant Engineer, ID, NWDA, Bhopal	30.04.2021
4	Smt. R. Shyamala, MTS, ID, NWDA, Hyderabad	30.04.2021
5	Shri Ramkesh Meena, JE, ID, NWDA, Nasik.	06.05.2021
Ũ		(Resigned)
6	Shri Hemendra Mishra, LDC, NWDA(HQs), New Delhi	12.05.2021
		(Resigned)
7	Shri P.V. Rama Raju, SE, IC, NWDA, Hyderabad.	31.05.2021
8	Shri K.K. Ali, Assistant Engineer, NWDA(Hqs.) New Delhi.	31.05.2021
9	Shri N.K. Sexena, Head Clerk, ID, NWDA, Gwalior	31.05.2021
10	Shri G.P. Behuria, UDC, ID, NWDA, Kolkata.	31.05.2021
11	Shri T.R. Shyamala, UDC, IC, NWDA, Hyderabad.	31.05.2021
12	Shri A.C. Patel, Driver Gr.I, IC, NWDA, Valsad.	31.05.2021
13	Shri Manish Kumar, LDC, NWDA (HQs.), New Delhi	31.05.2021
		(Resigned)
14	Shri Abhishek Sharma, Stenographer Gr.II	21.06.2021
		(Resigned)
15	Shri Hari Krishan Pandey, EE, NWDA(HQs.), New Delhi.	30.06.2021
16	Shri R.K. Sahoo, Superintendent Gr.II, CE(North),	30.06.2021
	Lucknow	
17	Smt. Saroj Bala Shiv Chandra Nath Sharma,	30.06.2021
	Superintendent Gr.II, ID. NWDA, Valsad.	
18	Shri Sayed Rafique Mohammed, D'man Gr.I, ID-I.	30.06.2021
	NWDA, Nasik.	
19	Shri Narender Kumar, D'man Gr.I,NWDA,(HQs.), New	30.06.2021
	Delhi.	
20	Smt. B.L. Nayak, UDC, ID, NWDA, Kolkata.	30.06.2021
21	Shri C.N. Murali, MTS, ID, NWDA, Chennai	30.06.2021

Participation of NWDA Officials in Trainings/ Seminars/ Conferences

During the reporting period starting from 1stApril 2021 to 30thJune 2021, the number of trainings / seminars/ workshops etc. organized was 4.

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

- Technical Officers of NWDA, HQ attended the 25th Water Talk on "Catch the Rain, importance of water literacy" on 16.4.21 being organised by National Water Mission, MoJS on 16.04.2021
- 235th Meeting of CBIP Executive Committee was attended by CE (HQ) on behalf of DG, NWDA. The meeting was held on 28.04.2021 through virtual platform under the chairmanship of Sh.P.S.Mhaske, President, CBIP.
- Technical Officers of NWDA, HQ attended the 26th Water Talk on "Raising Water Table : Prerequisite to Jal Jeevan Mission" on 21.05.21 being organised by National Water Mission, MoJS.
- Technical Officers of NWDA, HQ attended the 27th Water Talk on "Women Water Champions from the grassroots" on 18.06.21 being organised by National Water Mission, MoJS.

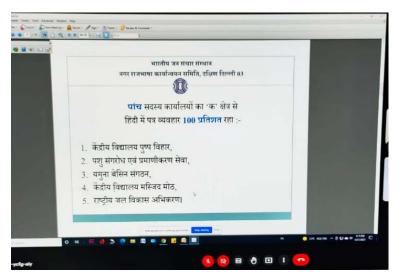
______ ______

हिन्दी- के बढ़ते कदम

 दिनांक 21.06.2021 को नगर राजभाषा कार्यान्वसयन समिति की बैठक वीडियो कॉन्फ्रेसिंग द्वारा महानिदेशक,भारतीय जन संचार संस्थाकन, आई आई एम सी , अरूणा आसफ अली मार्ग, न्यू जेएनयू कैंपस, नई दिल्ली-110067 में आयोजित की गई । इस बैठक में महानिदेशक महोदय ने भाग लिया। इस बैठक में राजभाषा कार्यान्वेयन के संबंध में गहन चर्चा की गई ।







बैठक में पिछले छह महीनों के राजभाषा संबंधी कार्यों की छमाही रिपोर्ट के आधार पर समीक्षा की गई और पत्राचार का लक्ष्यो 100 प्रतिशत तथा हिन्दी में पत्र व्यछवहार 100 प्रतिशत होने के लिए राष्ट्रीय जल विकास अभिकरण की सराहना की गई । नोडल कार्यालय होने के नाते रा.ज.वि.अ. ने सदस्य कार्यालयों की समीक्षा करके नराकास को उपलब्ध भी करवाई ।

 दिनांक 29.06.2021 को महानिदेशक महोदय की अध्यंक्षता में वीडियो कॉन्फ्रेसिंग द्वारा राजभाषा कार्यान्वनयन समिति की तिमाही बैठक आयोजित की गई। पिछली बैठक के निर्णयों की अनुवर्ती कार्रवाई और पत्राचार की स्थिति पर विचार किया गया। इस बैठक के विचारणीय विषयों पर विस्ताकर से चर्चा की गई एवं उन पर निर्णय लिए गए।

Family Corner



WORLD ENVIRONMENT D&Y

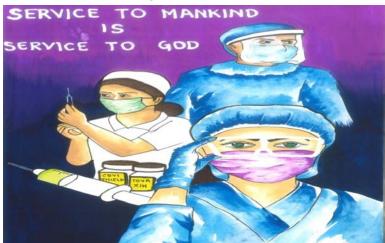


World Environment Day [WED] is celebrated annually on 5 June and is the United Nations' principal vehicle for encouraging awareness and action for the protection of the environment. In 1974 the first WED was held with the theme "Only One Earth". This day remind us that we are not alone on this planet. There is a huge biological ecosystem that exists and human survives healthly because of the upport receive from the ecosystem. Hence, duty of each one is there to preserve and restore them when the life cycle proceeds.



The theme for the WED 2021 was "Ecosystem Restoration" and will see the planned activites of the UN Decade on Ecosystem Restoration in the next coming 10 years, the UN with the support of its Member Countries, Partners and People want to focus on preventing and reversing the losses of degraded natural ecosystems to fight the impacts of climate change and go Ecosystem with aim for the Restoration; and thereby witnessing the co-existance of various ecosystems and its

communities in an healthy and wealthy manner for the overall wellbeing of humanbeing.



World Health Day-2021

April 7 of each year marks the celebration of World Health Day (WHD). From its inception at the First Health Assembly in 1948 and since its effect in 1950, the celebration has aimed to create awareness of a specific health theme to highlight a priority area of concern for the WHO. "Building healthier world", was а fairer, the theme of the WHD 2021. COVID-19 has hit all countries hard, but its impact has been harshest on those communities

which were already vulnerable, who are more exposed to the disease, less likely to have access to quality health care services and had undercut recent health gains, pushed more people into poverty and food insecurity, and amplified gender, social and health inequities in many regions. Health inequities are preventable with efficacious strategies by placing greater attention and services to improving health equity.

The drawings depicted here above and below are respectively contributed by Kumar Shubham Samantaray; and Kumari Shreya Samantaray; son and daughter of Shri. Lalit Kumar Samantaray, Administrative Officer, NWDA, New Delhi.

Obituary and I	Obituary and Rememberance of NWDA Officials, who Expired due to Covid-19 Pandemic		
	Shri K.P. Gupta retired from the post of Chief Engineer (North), Lucknow, NWDA on 28.02.2021. He expired on 28.05.2021. He served NWDA with effect from 22.05.1984 to 28.02.2021		
	Shri P Anjaneyulu was serving in the Investigation Division, Hyderabad, NWDA as Assistant Executive Engineer, when he succumbed to Covid Pandemic. He served in NWDA with effect from 27.02.1984 to 26.08.2020.		
	Shri S.M. Basha was working as Assistant Engineer in the Investigation Division, Chennai, NWDA and succumbed to Covid-19. He worked in NWDA during the period starting from 04.06.1984 to 10.07.2020.		
	The demise of Shri Rajiv Nigam was happened when he was serving in NWDA (HQ), Palika Bhawan, New Delhi as Junior Engineer. He served in NWDA with effect from 28.06.1993 to 23.05.2021.		
	Shri Ramesh Kamatagi retired from the post of Superintendent Grade- II from Investigation Division, Valsad, NWDA. He gave his service to NWDA with effect from 08.06.1984 to 31.05.2020.		
lovent	Smt. V. Kalavathi had opted for Valuntary Retirement from NWDA from the post of Steno Grade-II when she was in the Investigation Division, Bengaluru, NWDA. She served in NWDA with effect from 04.10.1989 to 07.03.2014.		
	Shri K.K. Dhokia, retired from the post of Draftsman Grade-II from the Investigation Division, Valsad, NWDA. He served in NWDA during the period starting from 16.04.1984 to 31.08.2020.		
	Shri Nanak Chand was serving as Upper Division Clerk at NWDA (HQ), Palika Bhawan, New Delhi. He expired 30.04.2021. He served in NWDA with effect from 01.07.1988 to 30.04.2021.		
	Shri N.M. Bhutia retired from Investigation Division, Bhubaneshwar from the post of Driver Grade-I on 30.04.2019. His demise happened on 07.10.2020. He gave his service to NWDA with effect from 21.02.1984 to 30.04.2019.		
	Shri C. Muniyappa retired from the post of Driver Grade-I, Investigation Division, Bengaluru, NWDA. He served in NWDA with effect from 25.10.1983 to 31.03.2011. Services of the Officials of NWDA, Who expired during the Covid-19 Pandemic;		

Honouring the Services of the Officials of NWDA, Who expired during the Covid-19 Pandemic; Let Us Pray for the Departed Soul to Rest In Peace and have Eternal Life

कविता

<u>मोल पानी का</u>

ललित कुमार स्यानियाँ

जनसंख्याल के बोझ नेमाट दिए तालाब। मटका ले अब खोजते, घाट-घाट पर आब।।

मानव रग-रग रक्ते सा, धरती भीतर नीर। बिन इसके बस मौत ही, है सबकी तकदीर।।

जब तक जल है जान है, बिन जल काया ढोल। गोल-गोल धरती कहे, बूंद-बूंद अनमोल।।

सूखी नदियां देखकर, करे प्रकृति संताप। बढ़ा प्रदूषण इस कदर, घटा श्वासस का चाप।।

बच्चों् को तालीम द्रेंकरें न जल बर्बाद। बिन पानी जीवन नहीं, रखें हमेशा याद।।

बिगड़ा वर्षा संतुलन, लाता है तूफान। कहीं-कहीं सूखा पड़े, कहीं बाढ़ ले जान।।

नीर जलाशय में नहीं, जंगल डाले काट। छाया पाएं किस डगर, प्याजस बुझे किस घाट।।

अति दोहन हमने किया, देकर कष्टा तमाम। किए कार्य का फल मिला, प्रकृति हुई है वाम।।

काटे पादप पल्ललवित्रफैला तभी प्रकोप। प्रकृति कहे यह सत्यख ही मानव पर आरोप।।

गर्मी में रखना सभी, भरा सकोरा नीर। प्याीसे व्यावकुल हैं विहम्मीड़ी-कबूतर-कीर।।

* कनिष्ठस अभियन्ता**ग्न**.ज.वि.अ., मुख्यालय, नई दिल्ली

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

राष्ट्रीय जल विकास अभिकरण, 18–20 सामुदायिक केंद्र, साकेत नई दिल्ली – 110017 द्वारा प्रकाशित