

# GROUND WATER NEWS



## Central Ground Water Board (CGWB)

Ministry of Water Resources, River Development and Ganga Rejuvenation  
Government of India

**Vision:** Sustainable Development and Management of Ground Water Resources of the Country.

04

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#### CGWB Mandate:

*To Develop and disseminate technologies, and monitor and implement national policies for the Scientific and Sustainable development and management of India's Ground Water Resources, including their exploration, assessment, conservation, augmentation, protection from pollution and distribution, based on principles of economic and ecological efficiency and equity.*

### Chairman's Desk



#### अध्यक्ष की कलम से ✍



मानव जीवन के अस्तित्व के लिए जल सबसे बहुमूल्य प्राकृतिक संसाधन है। मानव समाज की प्रत्येक इकाई तक इस संसाधन की उपलब्धता को सुनिश्चित कराने से बेहतर कोई कार्य नहीं है। भारत में भूजल की मांग दिन प्रतिदिन बढ़ती जा रही है। बढ़ती आबादी, औद्योगीकरण और कृषि के लिए जल की आवश्यकताओं के कारण इस प्राकृतिक संसाधन पर पहले से अधिक दबाव बढ़ा है। हमारी बढ़ती मांगों को पूरा करने के लिए इस संसाधन के संरक्षण और कुशल प्रबंधन की तत्काल आवश्यकता है। केंद्रीय भूमि जल बोर्ड अपनी नीतियों और नवीन तकनीकों के माध्यम से इसे पूरा करने में निरंतर प्रयासरत है। ग्राउंड वाटर न्यूज एक ऐसा सशक्त माध्यम है जिससे प्रत्येक तिमाही में सुधि पाठक भूजल के क्षेत्र में हो रहे विकास एवं नवीनतम घटनाओं से अवगत होते हैं।

केंद्रीय भूमि जल बोर्ड NAQUIM कार्यक्रम के तहत भूजल संरक्षण एवं प्रबंधन योजना की दिशा में अपने विभिन्न जनसंपर्क कार्यक्रमों के माध्यम से आम लोगों के मध्य जागरूकता का सृजन कर रहा है। इसी क्रम में उत्तर प्रदेश, छत्तीसगढ़ एवं तेलंगाना में सहभागिता एवं जनसंपर्क कार्यक्रमों का सफल आयोजन किया गया। देश के पहाड़ी क्षेत्रों में जल सुरक्षा के लिए स्पिंग्स शोड विकास कार्यक्रम के माध्यम से स्पिंग्स का पुनरुद्धार विषय पर हिमाचल प्रदेश के धर्मशाला में एक कार्यशाला का आयोजन किया गया। इसके अतिरिक्त योजना से संबंधित मुद्दों पर राज्य सरकारों के साथ विचार-विमर्श करने के उद्देश्य से नई दिल्ली में "प्रधान मंत्री कृषि सिंचाई योजना - हर खेत को पानी - भूजल सिंचाई - केंद्र प्रायोजित योजना" विषय पर भी कार्यशाला का आयोजन किया गया।

मुझे यह बताते हुए अत्यंत हर्ष हो रहा है कि इस वर्ष स्वच्छता सर्वेक्षण के तहत केंद्रीय भूमि जल बोर्ड के सभी कार्यालयों में स्वच्छता अभियान चलाया गया तथा मार्च माह में स्वच्छता पखवाड़ा के दौरान सभी अधिकारियों एवं कर्मचारियों ने अपना सराहनीय योगदान दिया।

नए वार्षिक कार्यक्रम के दौरान केंद्रीय भूमि जल बोर्ड द्वारा इस वर्ष से दो प्रतियोगिताओं का आयोजन करने का प्रस्ताव है। पहला, स्वच्छता प्रतियोगिता जिसमें बोर्ड के तीन सबसे स्वच्छ कार्यालयों का चयन कर उन्हें पुरस्कृत किया जाएगा। दूसरा उत्कृष्ट वैज्ञानिक पुरस्कार, जिसमें ज्ञान-विज्ञान, शोध कार्य लेखन को बढ़ावा देने हेतु बोर्ड के वैज्ञानिकों एवं इंजीनियरों द्वारा किये गए उच्च कोटि के तकनीकी कार्यों का आकलन किया जाएगा और उन्हें पुरस्कृत किया जाएगा। इस वर्ग में भी तीन पुरस्कार होंगे।

गत वर्ष के दौरान राष्ट्रीय भूजल प्रशिक्षण और अनुसंधान संस्थान द्वारा (टीयर-I, II एवं III) कुल १११ प्रशिक्षण आयोजित किए गए, जिनमें लगभग ७६८३ प्रतिभागियों को प्रशिक्षण दिया गया। इनमें २२७८ महिला प्रतिभागी भी शामिल हैं। प्रशिक्षण कार्यक्रम भूजल उपलब्धता और गुणवत्ता संबंधी मुद्दों पर आयोजित किए गए थे। इसमें जमीनी स्तर पर हितधारकों को भी स्थानीय भूजल मुद्दों पर प्रशिक्षण दिया गया।

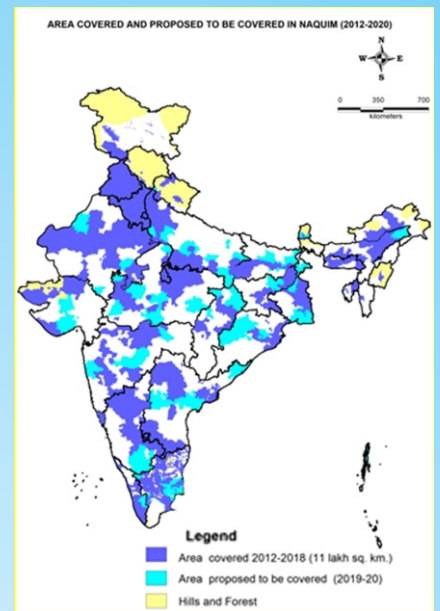
मुझे आशा है कि केंद्रीय भूमि जल बोर्ड आने वाले वर्षों में "भूजल" के संरक्षण एवं प्रबंधन के लिए नई नीतियां कार्यान्वित करेगा तथा इस क्षेत्र में सकारात्मक पहल करेगा।

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# Major Activities of Central Ground Water Board

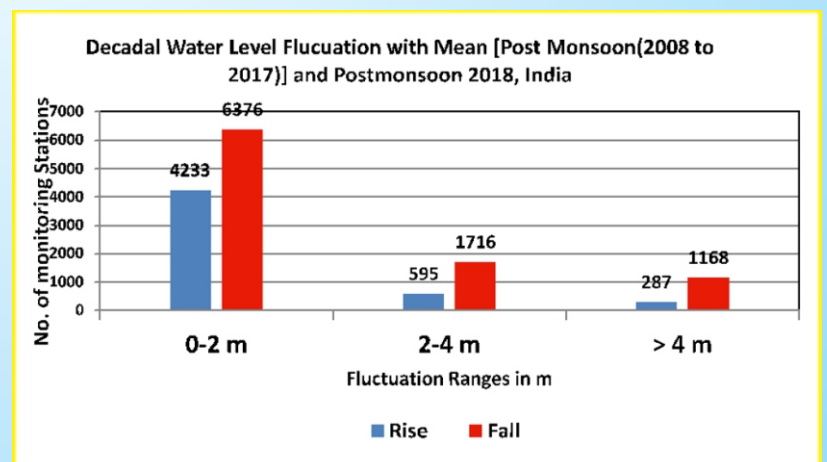
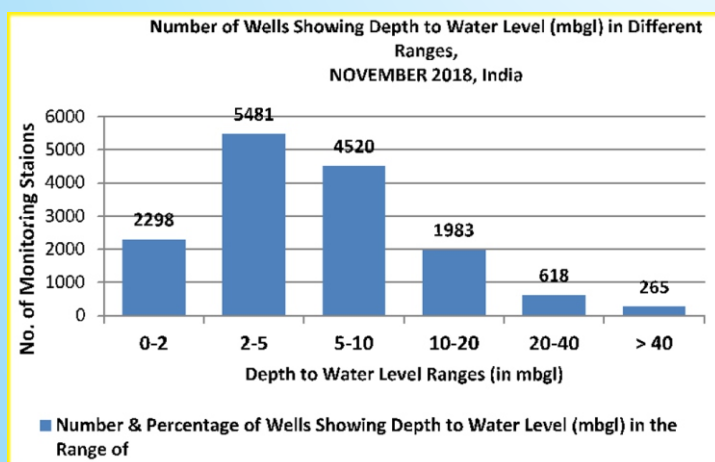
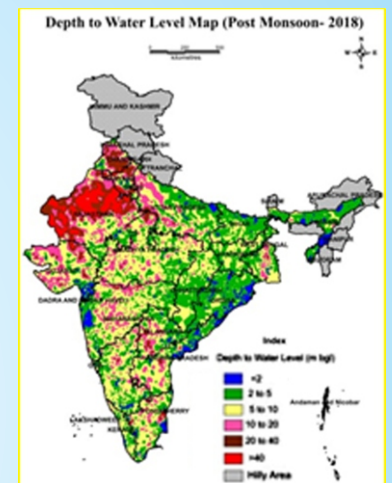
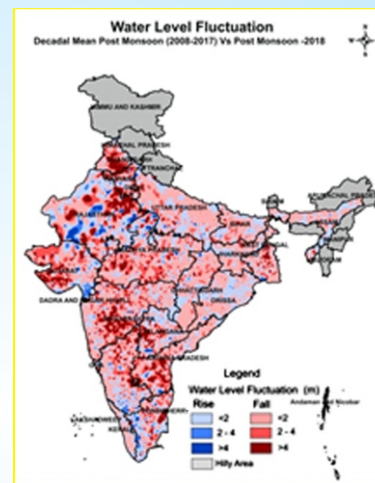
## 1. NAQUIM

- Central Ground Water Board under MoWR, RD & GR has embarked upon the new initiative of Aquifer Mapping and Management Programme which is the largest endeavour in the World. Focus of the initiative is detailed understanding of aquifer systems, to facilitate identification, delineation, characterization and effective management of aquifers to ensure sustainability of ground water resources. An area of 11 lakh km<sup>2</sup> has been covered under Aquifer Mapping up to March 2019, which includes 2.11 lakh km<sup>2</sup> covered during 2018-19. The outputs of NAQUIM are being regularly shared with District Administration through various programmes, described in succeeding section. The area covered under Aquifer Mapping is schematically represented in the adjoining figure.



## 2. Ground Water Regime Monitoring

- Ground water level data of November, 2018 for the country reveals that the general depth to water level of the country ranges from 2 to 10 m below ground level (bgl). Very shallow water level of less than 2 m bgl is observed in few states, such as Assam, Odisha, Andhra Pradesh, Maharashtra, Gujarat and Uttar Pradesh, in small patches. Eastern parts of the country, covering the states of Assam, Bihar, Odisha, Chhattisgarh, and Eastern UP shows water level in the range of 2-5 m bgl. In major parts of north-western and western states, depth to water level is generally deeper and ranges from about 10- 40 m bgl. In parts Delhi, Haryana and Rajasthan, water level of more than 40 m bgl is also recorded. The peninsular part of country recorded a water level in the range of 5 to 10 m bgl. The maximum depth to water level of 130.20 m bgl is observed in Bikaner district of Rajasthan whereas the minimum is less than 1 m bgl.



- A comparison of depth to water level of November 2018 with decadal mean of November (2008-2017) indicates that more than 50% of the wells analysed have registered decline in ground water level, mostly in the range of 0-2 m, in all the states/UTs except few states such as Daman & Diu, Himachal Pradesh, Meghalaya, Pondicherry, Tripura and Uttarakhand.
- Decline of more than 4 m has also been observed in pockets in the states/UTs of Chandigarh, Delhi, Gujarat, Haryana, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu and Telangana.
- Rise in water level is seen in few states, mostly in the range of 0-2 m, in small patches, such as Rajasthan, Gujarat, Madhya Pradesh, Odisha and Telangana

## Achivements

### 1. High Yielding Wells

Exploration carried out by CGWB in Quater Jan-Mar 2019 has indicated occurrence of high yielding ground water zones and a few of them are enumerated below:

- An exploratory well drilled down to a depth of 122m at Manju Rakha, Aurangabad Sadar block, Aurangabad district, Bihar yielded discharge of 10 lps.
- One high discharge well was constructed at Umran, Taluka Dediapada, Dist Narmada, Gujarat down to a depth of 99.30 mbgl and having a high discharge of 17.14lps.
- Potential aquifer zones with high discharge of 13.77 lps and 8.20 lps was encountered in shale in an exploratory well and observation well respectively, in Gangaperuru Village, Vontimitta Mandal, Kadapa District, Andhra Pradesh.
- A freshwater aquifer has been identified between depth range of 160-180m having discharge of 15 lps in saline infested Krishna delta in Vinnakota, Krishna district, Andhra Pradesh.
- An exploratory well was drilled at Manpachipali, Namakkal District, Tamil Nadu down to a depth of 151mbgl and encountered three productive fracture zones- : 16.0 to 16.2 mbgl with 1.7 lps discharge, 58.5 to 59.0 mbgl with 13.5 lps discharge and 117.5 to 118.0 mbgl with 47.5 lps discharge. The potential aquifer here is jointed and fractured Gneiss.
- A potential aquifer zone was encountered in Tertiary Formation at Poravacherry, Nagapattinam District, Tamil Nadu in an exploratory well drilled down to a depth of 300mbgl with high discharge of 40lps and the tapped zones are 268-274, 276-282, 289-295 mbgl.
- An exploratory bore well constructed at Rongram village under Rongram Block in hard rock terrain (Archaean Gneissic Complex) of West Garo Hills district, Meghalaya gave a drilling discharge of 8 lps at a depth of 122-125 m bgl.
- Exploratory well at Neriyamangalam, Ernakulam district, Kerala yielded a discharge of 9.25lps.
- An Observation Well at Mulkapada (EW), Dediapadataluk, Narmada District, Gujarat drilled to a depth of 141.50 mbgl yielded a discharge of 11.30 lps.
- One High Discharge Well (EW) constructed at Mangree, Block Karauli, District- Karauli, Rajasthan and yielded discharge of 21.71lps.
- A well drilled in Tertiary formation at Manakkudi (EW), Thalanyar Block Nagapattinam District, Tamil Nadu drilled to a depth of 300 mbgl yielded discharge of 38.5lps in auto flow condition.
- Potential aquifer zone with high discharge of 9.86 lps is encountered at 83.3-86.3 mbgl in shale at Observation Well of Pullapatru Village, Nandalur Mandal, Kadapa District, Andhra Pradesh.
- A well constructed at Dadenggre village under Dadenggre Block, West Garo Hills district, Meghalaya state gave a drilling discharge of 8 lps tapping productive Zones/ fractures encountered at 49-51 & 116-118 m bgl.
- Potential aquifer zone with high discharge of 9.86 lps was encountered at 33.5-34.5 m bgl in hard rock formation at Marlapadu Village, Kalluru Mandal, Khammam District, Telangana state.
- Potential aquifer zone with high discharge of 13.77 lps encountered at the depths of 55-62m& 138-139 mbgl in hard rock formation (Shales) at Upparapalli Village, Chennuru Mandal, Kadapa District, Andhra Pradesh state.
- An exploratory well at Bhadod, Sagbara Taluka, District Narmada, Gujarat State drilled down to depth 200.00 mbgl in Basalt yielded discharge of 26.01 lps.
- Wells were constructed in Rajmahal Basalt/Dubrajpur Sandstone in Jharkhand state at Dumarsol, Block-Pakuria, District-Pakur depth drilled to 153.80 m yielded discharge of 12 lps in. Another well at Pakuria, District-Pakur drilled upto 74.60 mbgl had discharge of 8 lps.



### 2. Public Interaction Programme

- 23 public interaction programmes have been conducted during Quarter (Jan-March, 2019) in the state of Madhya Pradesh, Karnataka, Maharashtra, Chhattisgarh, Jharkhand, Odisha, West Bengal, Himachal Pradesh and Punjab. Total 45 public interaction programmes were conducted across the country and 6800 participants attended the programme. The target group included mainly progressive farmers, Stakeholders, Water User Associations and officials from State Government Departments.



Public Interaction Programme on Aquifer Maps and Management Plan” at Block Zira, District Ferozpur, Punjab on 22.02.2019.



Facilitating Public Interaction on Aquifer Maps and Management Plan” at Baran District, Rajasthan on 27-02-2019



### 3. Sharing of Aquifer Maps and Management Plan with State Authorities

- Aquifer Maps and Management plans have been shared for 83 districts in the state of Andhra Pradesh, Bihar, Jharkhand, Assam, Arunachal Pradesh, Tripura, Manipur, Nagaland, Meghalaya Kerala, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Punjab, Haryana Rajasthan, Tamil-Nadu, Telangana, UT of DNH, Uttar Pradesh, Uttarakhand and Gujarat.



Presented report to Deputy Commissioner, Gurugram

### 4. NABL Accreditation of Chemical Lab of CGWB ER, Kolkata

- Final-assessment Audit of chemical lab of ER, Kolkata from NABL was conducted successfully. Assessment team has recommended for accreditation by NABL as per ISO/IEC 17025: 2005.



The Final Assessment of NABL Audit for the Regional Chemical Laboratory, ER, Kolkata

### 5. Uranium Analysis in Ground Water

- For the first time in Central Ground Water Board, Uranium Analysis was carried out in-house at Chemical Laboratory, CGWB, NR on ICP-MS.

## Major Events Organised by CGWB

### 1. Workshop on “Ground Water Management in Uttar Pradesh: Moving towards Participatory Management

- One day Workshop on “Ground Water Management in Uttar Pradesh: Moving towards Participatory Management” was organized on 29th January, 2019 at Telibagh, Lucknow by CGWB NR to deliberate and update strategies for ground water management in consultation with experts and stakeholders.
- The conference was attended by about 500 delegates from Central / State Govt. Departments, Technical Institutions, NGOs, VOs, Gram Pradhans/Sarpanchs from Jal Grams in U.P., progressive farmers, research scholars and other stakeholders.
- It had provided a platform to various stakeholders to formulate strategies, showcase demonstrable mechanisms for enrichment of knowledge in understanding the key issues related to groundwater in Uttar Pradesh and formulating possible solutions.
- Sh. U.P.Singh, Secretary, MOWR , RD & GR, New Delhi was the chief guest and Smt. Anita Singh, Principal Secretary, MI & GWD, Sh. K.C.Naik, Chairman, CGWB, Dr. P. Nandkumaran, Member, CGWB, Dhyan Singh, Engineer- in-Chief, Irrigation Department were the Guests of Honour. Sh. Y. B. Kaushik, Regional Director, Central Ground Water Board, Northern Region Lucknow organized the function.



Sh. U.P. Singh, Secretary MoWR,RD & GR Releasing Booklet during Workshop

## 2. Workshop on PMKSY-HKGP -GW -Irrigation

- Workshop on “PMKSY-HKGP-GW Irrigation – a Centrally Sponsored Scheme” held on 28 February 2019 at CSMRS Auditorium, New Delhi to deliberate upon the issues pertaining to the Scheme with State Governments. Workshop commenced with welcome address by Chairman, CGWB, Sh K.C. Naik. Sh Akhil Kumar Joint Secretary (IC&GW), Ministry of Water Resources, River Development and Ganga Rejuvenation, addressed the gathering comprising of delegates from 21 States. Delegates includes Principal Secretary (WR) Govt of West Bengal, Head of Departments of Ground Water Departments, Minor Irrigation, Agriculture & Farmers Welfare, Water Resources, Irrigation & Public Health etc. of various State Governments. District level officers from Zila Parishad, Agriculture, Irrigation, Ground Water Department etc. attended the workshop. Representing Government of India, Senior Officers from Ministry of Water Resources, River Development and Ganga Rejuvenation, Regional Directors and Nodal Officers from 18 Regional Directorates of CGWB, representatives from CWC, CSMRS, NWDA, WAPCOS etc. attended the workshop.
- A presentation giving overview of PMKSY-HKGP and revised operational Guidelines of PMKSY-HKGP-GW Irrigation component were given by Shri P.K.Parchure, Member(East), CGWB. Concluding session of workshop was conducted as Panel Discussion Chaired by Shri U.P.Singh, Secretary, Water Resources, River Development and Ganga Rejuvenation and suggestion for successful implementation of scheme poured from states .



Sh. K.C.Naik, Chairman CGWB  
addressing workshop on PMKSY-HKGP

## 3. Workshop on “Ground Water Management in Chhattisgarh: A Step Towards Public Participation”

- A Step Towards Public Participation” was organized on 8th March, 2019 at Pandit Dindayal Upadhyay Auditorium, Raipur by CGWB NCCR. The prime objective of the workshop was to share knowledge, technology dissemination and capacity building on the various issues pertaining to stakeholder's participation in the management of ground water in the State of Chhattisgarh.
- The workshop was attended by 726 Participants. Two main technical themes of the workshop were “Public participation in Ground Water Management” and “New Research and Development Initiatives by Industries and Academic Institutions in Ground Water Management”. The workshop was inaugurated by Shri. Kesari Lal Verma, Vice Chancellor, Pandit Ravishankar Shukla University, Raipur, as Chief Guest and Sh. K.C. Naik, CGWB was the Guest of Honour.



Presentation by Smt. Damini Sahu- Farmer,  
Gariyaband in workshop in Chhattisgarh



Release of Reports in workshop  
in Chhattisgarh

## 4. Workshop on Spring Rejuvenation organised at Dharamshala Himachal Pradesh on 14th March 2019

- A one day workshop on “Rejuvenation of Springs for Water Security through springshed development in hilly areas of the country” was organised by Central Ground Water Board, MoWR, RD& GR in association with the Government of Himachal Pradesh on 14th March 2019 at Dharamshala, Himachal Pradesh. The workshop was attended by nearly 170 delegates with participation from various Central and State Government departments, NGO's, academic institutions, international organisations etc. Shri U.P. Singh, Secretary, MoWR, RD&GR was the Chief Guest during the inaugural session of the workshop. Lt Gen Girish Kumar, Surveyor General of India, Shri Sanjay Kundu, Addl Principal Secretary to CM, Himachal Pradesh and Shri Suman Vikrant, Engineer in Chief, IPH, Himachal Pradesh were the Guests of Honour on the occasion. On the inaugural session, a mobile app developed by Survey of India named “SAHYOG” which has been

customized for capturing springs related data was also launched by the Chief Guest. The recommendations of the workshop include spring revival and spring shed rejuvenation, Capacity Building, Data and action research, Programme architecture, Institutions and Governance etc.



Dignitaries on the dais during the inaugural session



Chief Guest Sh. U.P. Singh, Secretary, MoWR, RD&GR giving his address



View of the Participants during the workshop

## 5. Workshop on “Ground Water Management in Telangana- a way forward in People's Participation”

- In order to sensitize the issues related to people's participation in ground water management, CGWB SR had organized one day Public Outreach Workshop on “Ground Water Management in Telangana - Way forward in People's participation” on 18th March, 2019 at Professor Jayashankar Telangana State Agricultural University (PJTSAU) Auditorium, Rajendra Nagar, Hyderabad for providing platform to deliberate on People's participation in ground water management to ensure sustainability and formulate road map.
- A Total of 550 participants including farmers ,NGOs subject experts and officers from Central/State Govt Departments (CGWB, State Ground Water Department, NIRD, RWS, KGBO, CWC), academics (PJTSAU, OU, KU, JNTU) and scientists from R&D Institutes (NRSC, TRAC, NGRI) have participated in the deliberations.



Lightening of Lamp by the Dignitaries



Address by Sh. K.C. Naik, Chairman, CGWB

- The program was inaugurated by Dr. V. Praveen Rao, Vice-Chancellor, Professor Jayashankar Telangana State Agriculture University (PJTSAU), Hyderabad and Sri. K.C. Naik, Chairman, CGWB, Dr. P. Nandakumaran, Member, CGWB, Sh. P. Shyam Sunder, Director-General, WALAMTARI, Sri Ranga Reddy, Chief Engineer, KGBO, Central Water Commission and Dr. Pandith Madhnure, Director, Ground Water Department, Telangana had graced the occasion. A brochure on Ground Water Resources of Telangana State was released on the occasion. The Technical sessions were divided into two, viz., Technical Session-I with a theme on Participatory Approach in Ground Water Management and Technical Session-II with a theme on Water conservation and Water use efficiency.

## 6. Swachhta Campaign

- Responding to the Nation's call by the Prime Minister, CGWB, CHQ Organized Cleanliness Drive on the bank of River Yamuna at Kalindi Kunj Ghat, New Delhi on 26.03.2019. Shri U.P.Singh, Secretary, MOWR, RD & GR along with Sh. K.C.Naik, Chairman and other senior officers of CGWB, CHQ, Staff reached at 7.00 a.m in the morning to clean the Holi Yamuna river. Under this drive all waste and useless items found in the area were identified and removed. All the Regional, Divisional offices of CGWB undertook cleanliness drives which includes various activities like cleaning and maintenance of selected water bodies, office premises etc.



Sh U.P.Singh, Secretary, MOWR, RD&GR during cleanliness drive at Kalindi Kunj Ghat, Yamuna River, New Delhi

## 7. Hindi

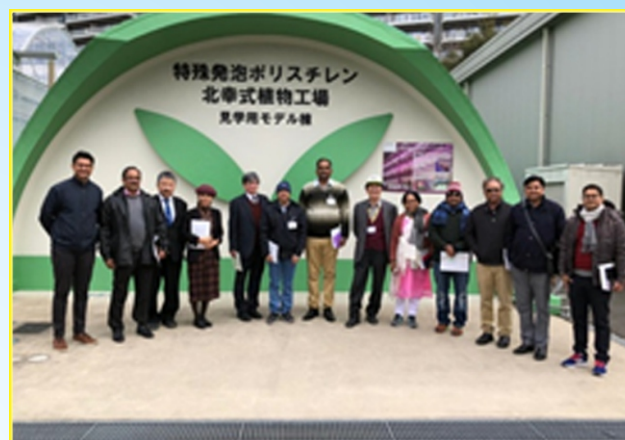
- जल संसाधन, नदी विकास और गंगा संरक्षण मंत्रालय द्वारा केंद्रीय जल आयोग के तत्वावधान में दिनांक ०७.०२.२०१९ को हैदराबाद में “जल संरक्षण हमारी ज़िम्मेदारी है” विषय पर एक दिवसीय तकनीकी संगोष्ठी का आयोजन किया गया। सम्मेलन में मंत्रालय के सभी अधीनस्थ कार्यालयों के प्रतिनिधियों ने भाग लिया। केंद्रीय भूमि जल बोर्ड से दक्षिणी क्षेत्र हैदराबाद के क्षेत्रीय निदेशक सहित ८ अधिकारियों ने इस संगोष्ठी में भाग लिया।
- केन्द्रीय भूमि जल बोर्ड, राज्य एकक कार्यालय, नई दिल्ली तथा केन्द्रीय भूमि जल प्राधिकरण, नई दिल्ली के अधिकारियों एवं कर्मचारियों हेतु हिंदी के प्रगामी प्रयोग व कार्यान्वयन के लिए दिनांक 08.03.2019 को संयुक्त रूप से हिन्दी कार्यशाला का आयोजन किया गया।



### Capacity Building

#### 1. Country Focused Training Course on Integrated Water Management (J18-22102) by Japan International Cooperation Agency (JICA), Tsukuba, Japan From 20th January to 9th February, 2019

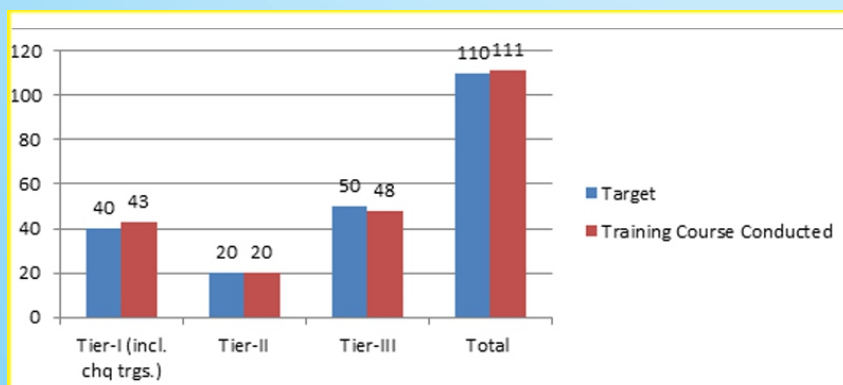
- The Country Focused Training Course on “Integrated Water Management” was organized by Japan International Co-operation Agency (JICA) at Tsukuba, Japan during January 20 - February 09, 2019. The training course is a part of knowledge co-creation program of JICA and is implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both the Governments. The training was attended by 8 officers from CGWB, CWC, GFCC & CWPRS under MoWR, RD & GR and 2 officers from State Water Resource Departments (Maharashtra & Andhra Pradesh State). Dr. Ratikanta Nayak, Scientist D and Dr. Rakesh Singh, Scientist B from CGWB attended the above said JICA training program at Japan.
- The goal of the program was strengthening the organizations to formulate and implement measures of Integrated Water Management to improve the Hydrological Cycle and resolve problems related to Integrated Water Management.



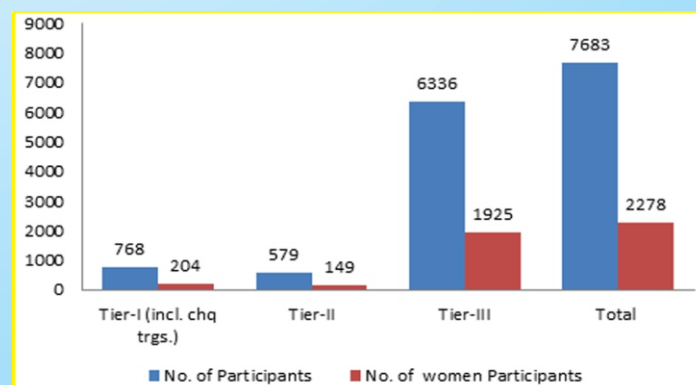
Dr. Ratikanta Nayak, Scientist D and Dr. Rakesh Singh, Scientist B from CGWB, CHQ

#### 2. Training Programmes by Rajiv Gandhi National Ground Water Training & Research Institute (RGNGWTRI)

- Various trainings under Tier-I (National level), Tier-II (State/District level) and Tier-III (Block level) Training programmes have been conducted by RGNGWTRI, Raipur and Regional Offices of CGWB during 2018-19 for capacity building of ground water professionals, sub-professionals and grass root level stakeholders.



Trainings under RGNGWTRI (Target vs. Achievement) during 2018-19



Number of Participants in the Training Programmes during 2018-19

### 3. Training on Ground Water Modeling Technique

- One day training for officers of Central Ground Water Board on Ground Water Modelling Technique was conducted by Civil Engineering Department, Indian Institute of Science Bangalore as a part of Outsource Modelling Assignment on 25.1.2019.

#### Visit of Higher Officials

1. **Minister of State , MoWR, RD & GR** visited Namami Gange stall at the ongoing Kumbh 2019, Prayagraj on 28.01.2019 where Central Ground Water Board, NR/SUO has put up exhibition of posters and model of Rotary Drilling as part of Namami Gange stall of National Mission for Clean Ganga (NMCG). He was briefed about the CGWB activities regarding arsenic-free tube wells, heliborne survey for palaeochannel etc. by CGWB officers present during the visit. Hon'ble Minister recorded his **appreciation of CGWB work in arsenic infested area** in the visitor's book.
2. **Hon'ble Minister of State MoWR, RD & GR** visited the Western Region, Jaipur on 18-02-2019.
3. **Hon'ble Minister of State MoWR, RD & GR** inaugurated and presided over Jal Manthan programme at Prayagraj on 28.02.2019. The programme was attended by Sh. Y B Kaushik, Regional Director, Dr M N Khan, HOO, CGWB, SUO and other officers of CGWB, NR, at Prayagraj.
4. **Sh. U P Singh, Secretary, MoWR, RD & GR** visiting Namami Ganga Stall at Kumbh 2019, Prayagraj.
5. **Joint Secretary, MOWR, RD & GR** visited NER, Guwahati discussed with Principal Secretary, Secretary and other officers of Dept. of Irrigation, Govt. of Assam on progress of preparation of DPR under PMKSY-HKPP. He also visited CGWB, NER, Guwahati office and taken status of progress constraints, etc. He also inspected the Regional Chemical Laboratory as well as workshop of CGWB, Div-VII.
6. **Visit of Chairman to Hiware Bazar: Sh. K.C. Naik, Chairman, CGWB** visited Hiware Bazar village in Ahmednagar district, Maharashtra on 20th January, 2019. The Chairman held technical discussions with Sh. Popatrao Powar, a pioneer in the implementation of Water Conservation measures and the Chairman also addressed the visitors' gathering, stressing the importance of groundwater and its conservation, augmentation and management.
7. **Sh. K.C.Naik, Chairman,CGWB** inspected **New RGI Building at Naya Raipur, Chattisgarh on 07.03.2019.**
8. **Sh. P K Purchase, Member East, CGWB** has visited in CGWB, NCCR, Raipur office on 9th March 2019 and reviewed progress of NAQUIM, Departmental Exploration, Ground Water Resource Estimation, PMKSY and CGWA.



Sh. U.P. Singh, Secretary visiting Namami Gange Stall at Kumbh



#### Workshop/Seminar/Lecture/Talk/Awareness Programme

### 1. 9th International Micro Irrigation Conference

- Irrigation Conference (9th IMIC) with the theme 'Micro Irrigation for Modern Agriculture' was organised by MoWR through INCSW (CWC) & WAPCOS from January 16-18th, 2019 at Aurangabad, Maharashtra. The programme was presided over by Shri Devendra Fadnavis, the Hon'ble Chief Minister of Maharashtra. Sh. Nitin Gadkari, Hon'ble Union Minister of Water Resources, RD&GR visited Aurangabad district and graced the Conference as the Chief Guest. Shri Arjun Ram Meghwal, the Hon'ble Minister of Parliamentary Affairs and Water Resources, RD&GR was the Guest of Honour. Sh. U.P. Singh, Secretary, MoWR, RD&GR graced the 9th IMIC event and delivered the Welcome Address. The Secretary also graced the Valedictory Session held on 18th January 2019. The Chairman, CGWB attended 9th IMIC at Aurangabad and also chaired the technical session on "Participatory Irrigation". He was also interviewed by TV channel, multimedia at the conference.



Shri. K.C. Naik, Chairman, CGWB chairing the Technical Session on Participatory Irrigation



## 2. National Water Award 2018

- The Union Minister for Water Resources, River Development and Ganga rejuvenation presented 82 national water awards in 13 categories for the year 2018 on 27.02.2019 for spreading awareness about water conservation. The National Water Awards were instituted with the objectives of encouraging the stakeholders to adopt a holistic approach towards water resources management. They awards were given for Best State; Best District; Best Village Panchayat; Best Municipal Corporation; Best research, innovation and adaptation of new technology for water conservation; Best educative and mass awareness efforts; Best TV show for promoting water conservation; Best Newspaper; Best School; Best Institution for successful campus water usage; Best Resident Welfare Association (RWA), Organizations for Best Religious and Recreational & Tourism Water Uses and Best Industry for industrial water conservation. CGWB was one of the main active participants in organizing the water award 2018.

## 3. 4th India Water Forum (IWF) 2019

- The Energy and Resources Institute (TERI), in association with the Ministry of Water Resources, River Development & Ganga Rejuvenation, Government of India, organized the India Water Forum (IWF) during 5th -6th March 2019 in New Delhi. The theme of India Water Forum 2019 "Water for All: Option for Safe, Sustainable and Resilient Future". Shri K.C.Naik, Chairman, CGWB, Chaired the technical session on "Role of PPP in building resilient society" in 4th India Water Forum (IWF) 2019. Its objective to attract diverse perspectives on issues related to ensuring water security for billions of people in India and South Asia.



## 4. World Water Day 22nd March 2019

- Shri K. C. Naik, Chairman, CGWB, attended the first edition of Seminar series 'WATER TALK' organized by National Water Mission(MWM), MoWR, RD&GR to celebrate the World Water Day at Dr. Ambedkar International Centre, New Delhi.
- Sh. K.C.Naik, Chairman, CGWB also attended the Seminar on the World Water Day organized by Central Water Commission under the guidance of Ministry of Water Resources, River Development and Ganga Rejuvenation at R. K. Puram, New Delhi. The theme for World Water Day: "Leaving no one behind" and it is an adaptation of the central promise of the 2030 Agenda for Sustainable Development: as sustainable development progresses, everyone must benefit.



## 5. National Conference on Ground Water Sustainability (Joint Efforts of MRIIRS, INC-IAH, CGWB & GHS)

- A National conference on Ground Water Sustainability was organized with joint collaborative effort of Manav Rachna Institute of Research and Studies, Faridabad, Indian National Chapter of international Association of Hydro geologists, Central Ground Water Board & Global Hydrogeological Solutions, New Delhi at Faridabad on 28.03.2019. Sh. Sompal, Former Minister of State, Agriculture and Water Resources, Govt of India was the chief guest on the occasion. Padma Shri Sh. M.C.Mehta; Sh. K.C.Naik, Chairman, CGWB; Mrs. Satya Bhalla, Chief Patron, MREI; Dr. D. K. Chadha, President, INC-IAH; Dr. M. M. Kathuria, Trustee, MREI; Dr. N.C.Wadhwa, DG, MREI; Dr. Sanjay Srivastava, VC, MRIIRS and Dr. Sanjay Bajpai were the Guests of Honour on that



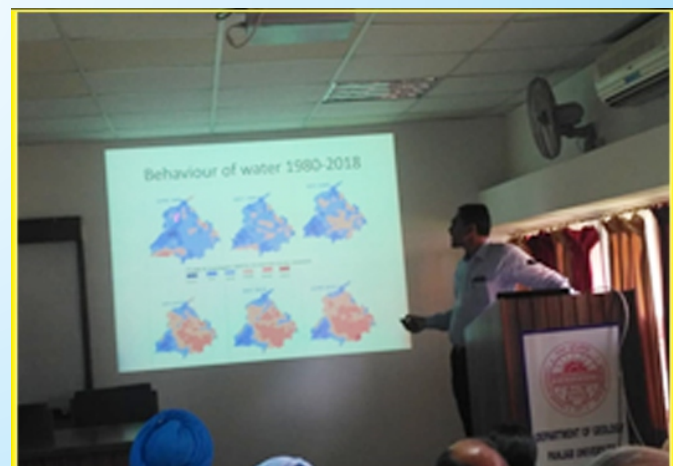
occasion. They highlighted the importance of Groundwater and suggested the sustainable solutions. The conference focused on the issues related to Ground water sector and the possible solutions to achieve ground water sustainability.

## 6. Others

- Shri K.C.Naik, Chairman, CGWB visited Pune to participate in the Brain Storming Workshop on “Surface Water and Ground Water Resources of Western and Central Regions of India: Potentials, Status, Management Issues & Strategies” 10- 11th January, 2019 Pune. Shri K. C. Naik, Chairman, CGWB was the Chief Guest for the inaugural function and also delivered Key Note address. This event was Organised by Savitribai Phule Pune University, Pune in association with Geological Society of India, Bangalore.
- Shri K.C.Naik, Chairman, CGWB graced the Seminar on "Developing a Roadmap for Conservation of Wetlands in Ganga Basin" organized by National Mission for Clean Ganga (NMCG) and WWF-India on 04.02.2019 at Juniper Hall, India Habitat Centre in Delhi.
- Shri K.C.Naik, Chairman, CGWB invited as Guest of Honour at National Convention 2019 Revitalising Rainfed Agriculture on 15 Feb 2019 at India International Centre, New Delhi.
- Shri . G.C. Pati, Member (HQ), CGWB was chief guest in the valedictory session and also was a panelist in the brain storming session in workshop on “Surface Water and Ground Water Resources of Western and Central Region of India: Potentials, Management issues and Strategies” organized by Geological Society of India and Savitribai Phule Pune University on 10th& 11th January, 2019 at Pune. He presented a paper on “Ground Water Resources of India with special reference to Western Region”.
- Shri G .C.Pati, Member (HQ), CGWB presented a paper on “Approaches and steps towards sustainable groundwater management in India”, in 4th India-EU Water Forum, held at India Habitat Centre, New Delhi on 13th February 2019.
- Central Ground Water Board, NR, Lucknow/ SUO, Allahabad has put up exhibition of posters and model of Rotary Drilling as part of Namami Gange stall of National Mission for Clean Ganga (NMCG) at the ongoing Kumbh 2019, Prayagraj. The Namami Gange Stall is attended and managed by officers of CGWB, SUO, Prayagraj. Hon'ble Minister for Health and in-charge of Kumbh 2019 visited the stall on 18.01.2019. Dr M.N. Khan OIC, SUO. Allahabad briefed the Minister about achievements of CGWB in Ghazipur district regarding construction of deep arsenic-free tube wells with cement sealing to separate shallow aquifer containing arsenic. He was also briefed about palaeo-channel studies and heliborne survey conducted by CGWB recently. Hon'ble State Minister MoWR, RD & GR visited Namami Gange stall on 28.01.2019. Shri Sant Lal, Scientist D, briefed him about CGWB activities regarding arsenic-free tubewells, heliborne survey for palaeochannel etc.
- A presentation delivered by Sh. Anoop Nagar, Regional Director and other officers of CGWB, Chandigarh in the “International Conference on Sarasvati River” at Panjab University, Chandigarh in collaboration with Haryana Saraswati Heritage Development Board (HSHDB) on 08.02.2019.
- Sh. Anoop Nagar, Regional Director, NWR, Chandigarh delivered a talk on the occasion of World Water Day on 22.03.2019 at Department of Geology, Punjab University, Chandigarh.



Shri G .C.Pati Member, CHQ



## 7. Awareness Programmes on Water Conservation was organised by various CGWB Regional Offices

- Awareness Programme under NHP was organized by CGWB, SR in Vijayawada, Andhra Pradesh. All 57 Officers from Water Resources Department, Govt. of Andhra Pradesh participated in the programme on 25.01.2019.
- CGWB, KR organised one day Awareness Programme on Ground Water Conservation under Tribal Sub Plan at Attapadi, Palakkad on 07.03.2019.
- CGWB, SWR organised one day programme on water conservation at Kaaveri Kalakeshtra, Townhall, Madikeri, Kodagu district, Karnataka under Tribal sub plan on 08.03.2019.



## Meeting With State Govt. Dept.

### Various Officers of CGWB Regularly interact with State Govt./Academic Institution to provide input for framing Policy for GW governance.

#### A few of such interactions are enumerated below:

- Shri Amlanjyoti Kar, Superintending Hydrogeologist attended meeting regarding State Specific Action Plan under National Water Mission (NWM) held at New Delhi on 10.01.2019.
- Sh. Sunil Kumar, Regional Director, participated in meeting taken by Additional Secretary, MoWR, RD & GR on 11.01.2019 held at New Delhi on formation of National Water Commission.
- Shri Y B Kaushik, Regional Director and Shri P K Tripathi, Scientist D. CGWB, Lucknow attended 2nd meeting of Bundelkhand Integrated Water Resources Management Multi Stakeholder Platform (MSP), chaired by the Chief Secretary, Government of UP on 14.01.2019 in his Conference Room at Lok Bhawan, Lucknow. The meeting was organised by Water Resource Group (WRG 2030).
- CGWB represented DLEC meeting at Thiruvananthapuram on 16/01/19 organized by GWD, State Ground Water Department and Thiruvananthapuram.
- Dr. Arijit Dey, Suptdg. HG, CGWB, Jaipur attended meeting on “State Level Stakeholder consultation on Assessment of MGNREGA's Contribution to Climate Resilience” held under the chairmanship of Project Director cum Joint Secretary, MGNREGA, EGS, Govt. of Rajasthan on 18-01-2019 at Secretariat Jaipur.
- Shri A K Agrawal, Regional Director and Dr. Indranil Roy, Sci-C, attended review meeting of ADB funded modernization of Ara Canal, a part of Sone Canal Command, Bihar on 23.01.2019. ADB is proposing to use Groundwater from 600 odd DTWs to augment canal water supply in tail end for irrigation through pressure pipe irrigation system.
- The European Union (EU) Team with Ground water Expert visited CGWB, Nagpur office on 24th Jan, 2019 at 10.00 AM. The visit was in connection with preparation of Tapi River basin Management Plan. Dr. P.K. Jain, Superintending Hydrogeologist addressed the GW related issues.
- A meeting was held on 28.01.2019 at Nepal House, Ranchi pertaining to Composite Water Management Index (CWMI) for the state of Jharkhand. The meeting was attended by representative of Niti Ayog, GoI. For validation of data, a field visit was made to Piezometric sites in Ranchi urban area.
- Dr. K. R. Sooryanarayana, Suptd. HG attended the state credit seminar on 29th January conducted by NABARD.
- Sh. Anoop Nagar, Regional Director along with other officers of CGWB NWR Chandigarh attended a meeting regarding issues related to Ground Water regulation under the Chairmanship of Director Industries & Commerce on 29.01.2019.
- Dr. S. K. Jain, Regional Director and Sh. Sujeet Kumar, Scientist-D (Jr. Hydrogeologist), WR, Jaipur attended meeting under the chairmanship of Chief Secretary, Government of Rajasthan regarding compliance to the directions of Hon'ble NGT order dated 31.01.2019 regarding Pollution in Pali on 05-02-2019 and 27.02.2018.
- Sh. Anoop Nagar, Regional Director, CGWB NWR Chandigarh attended a Workshop on Unit Cost Price organised by NABARD on 04.02.2019.
- Sh. S.K. Mohiddin, Sr. HG, CGWB NWR Chandigarh attended the 4th meeting of the committee in compliance to Hon'ble NGT (PB), order dated 26.10.2018 in the OA No 458 of 2017 in the matter of Harinder Dhingra Vs International Recreation & Amusement Ltd. & Ors on illegal withdrawal of ground Water on dated 05.02.2019.
- Shri T. Chakrabarty, Sr. Hydrogeologist, CGWB NER Shillong attended eighth sitting of NGT Committee headed by the Hon'ble Justice Sh. B.P. Katakey, former Judge, Guwahati High Court held on 11th February 2019.
- Shri Sourabh Gupta (Sr. Hg), CGWB, WCR Ahmedabad attended the meeting of the expert committee on implementation of GPCB guidelines on “Implementing Liabilities and Disposal of Hazardous Waste and Penalty” held on 20th February, 2019.
- Sh. Anoop Nagar, Regional Director along with Sh. Tarun Mishra, Sc “B” and Sh. Rakesh Rana, Sc “D” attended the meeting in the Chamber of Industries and Chamber of Undertakings (CICU), Ludhiana, Punjab regarding presentation of CGWA guidelines and filling online application form procedure to the Industries on dated 12.02.2019. The report was published in 'Times of India' Newspaper and Local Newspaper.
- CGWB made a presentation on the outcomes of all the NAQUIM studies carried out by CGWB, Kerala Region before the newly appointed Additional Chief Secretary, Water Resources, Govt of Kerala, Dr Vishwas Mehta IAS on 21/2/2019.
- Shri. C. Paul Prabhakar, Regional Director along with Shri. K. Azhahia Nambi, Scientist-D of CGWB SECR Chennai participated in the 3rd meeting of Monitoring Committee under National Water Mission on 22.02.2019.
- Regional Director, CGWB MER Patna attending Crisis Management Group (CMG) of Apada Prabandhan Vibhag, Government of Bihar in the chamber of Chief Secretary, Bihar on 22.02.2019.
- Shri Y. B. Kaushik, Regional Director and other officers of CGWB, NR Lucknow attended meeting of the committee to discuss and finalize MoA with NGRI for taking up the project 'Tracing the Extension of Newly Discovered Palaeochannel near Prayagaraj and 3D Mapping of Aquifer System in the Middle Ganga Plain' at New Delhi on 27.02.2019.

- Shri Y. B. Kaushik, Regional Director was invited guest at the Launch of #WaterWiseLucknow, a citizen's campaign initiative by WaterAid for responsible consumption and sustainable management of water resources in Lucknow City organised at Sangeet Natak Academy, Gomtinagar, Lucknow on 18.03.2019.
- Sh. Anoop Nagar, Regional Director NWR, Chandigarh attended the first meeting of Monitoring Committee to review the progress on implementation of Action Plans for abatement of pollution in River Sutlej & Beas on 20.03.2019 at Punjab State Council for Science & Technology.

## Publications

- A Paper titled "Knowledge Guided Integrated Geo-Hydrological, Geo-Mathematical and GIS bases Groundwater Draft Estimation Modelling in Budhan Pochampalli Water shed, Nalgonda district, Telangana State" by Praveen Kumar, et.al (along with NRSC Scientists) is published in the Journal of " Earth Science India- V.11 (IV), October 2018, pp 216-231".
- Groundwater conservation and management in North Eastern India Adopting Traditional wisdom in Journal of Geological Society of India , Vol 93, Feb-2019, PP-250- 251 by Sangita P. Bhattacharjee, Asst. Hydrogeologist, CGWB.

## Award/Recognition

- Dr. Subhash C Singh, Sr Geophysicist CGWB, NCR, Bhopal is honored by Professor Mark Everard, University of West of England (UK) for delivering invited lecture titled "Geophysical method for groundwater resources explanation development and management in Central India" at workshop on 'Water Resources Management and Water Supply in Central India' organized by India-UK water center at Indian Institute of Science and Education Research (IISER), Bhopal during 28th Feb and 2nd March, 2019.
- Dr. R. C. Jain, GWRDC, Gandhinagar (Ex-Chairman, CGWB) got Award of Excellence in Ground Water Science 2018 in conference on Ground Water Sustainability on March 28, 2019 at Manav Rachna campus.



## Miscellaneous



Sh. Alok Kumar Dubey,  
Member(N&W), CGWB  
took voluntary retirement  
on 24.01.2019.



Shri P.K.Parchure,  
Member (East), CGWB  
superannuated on 31.03.2019.



Sh. Sunil Kumar took charge as  
Member (N&W), CGWB on 22.02.2019.

### Over-exploitation of freshwater leads to saline water ingress

It will cause irreversible damage to the groundwater table, says expert

Over-exploitation of freshwater leads to saline water ingress, says expert. The groundwater table is being lowered, and this will cause irreversible damage to the groundwater table, says expert. The groundwater table is being lowered, and this will cause irreversible damage to the groundwater table, says expert.

### କେନ୍ଦ୍ରୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର

ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର.

ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର.

### ଗିରତେ ଭୂଜଳ ସ୍ତର ପର ଚିନ୍ତା, ସମସ୍ୟା ସେ ନିପଟନେ ଜନଭାଗୀଦାରି ପର ଜୋର

ଭୂଜଳ ମଂଥନ କାର୍ଯ୍ୟକ୍ରମ ମେଁ ବିରୋଧୀମାନେ ଯ ଯତ୍ନାଠାଁ ମେଁ ସୁସ୍ଥାଫ ଉପାୟ

ଭୂଜଳ ମଂଥନ କାର୍ଯ୍ୟକ୍ରମ ମେଁ ବିରୋଧୀମାନେ ଯ ଯତ୍ନାଠାଁ ମେଁ ସୁସ୍ଥାଫ ଉପାୟ. ଭୂଜଳ ମଂଥନ କାର୍ଯ୍ୟକ୍ରମ ମେଁ ବିରୋଧୀମାନେ ଯ ଯତ୍ନାଠାଁ ମେଁ ସୁସ୍ଥାଫ ଉପାୟ.

### ଜଳସଂକଟ ସେ ନିପଟନେ କେ ଲିଫେ ଗାଂଠାଁ ମେଁ ଡାଲାବ କୋ ଜିଂଡା ରଖନା ଜରୁରୀ

ପତ୍ରିକା ନ୍ୟୁଜ ନେଟୱର୍କ patrika.com

ଭୂଜଳ ସଂକଟ କି ସମସ୍ୟା ସେ ନିଜାତ ପାନା ହୋ ତୋ ଗାଂଠାଁ ମେଁ ଡାଲାବ କି ସମସ୍ୟା ତବ ତକ ବନୀ ରହେଗୀ, ଜବ ତକ ଲୋଗ ପାନୀ ବଚାନେ କୋ ଲେକର ଜଗାଝଟ ନ ହୋ. ଇସକେ ଲିଫେ ଗାଂଠାଁ ମେଁ ଡାଲାବ କା ନିର୍ମାଣ ତଥା ଡାଲାବ କୋ ଫିର ସେ ଜୀଠିତ କରନା ଜରୁରୀ ହେ. କାର୍ଯ୍ୟଶାଳା ମେଁ ବିଶେଷଜ୍ଞ କେସୀ ନାୟକ, ମୁଖ୍ୟ ଅତିଥି କେଲ୍ କୁଲପତି, ରାୟପୁର. ଭୂଜଳ ସଂକଟ କି ସମସ୍ୟା ସେ ନିଜାତ ପାନା ହୋ ତୋ ଗାଂଠାଁ ମେଁ ଡାଲାବ କି ସମସ୍ୟା ତବ ତକ ବନୀ ରହେଗୀ, ଜବ ତକ ଲୋଗ ପାନୀ ବଚାନେ କୋ ଲେକର ଜଗାଝଟ ନ ହୋ. ଇସକେ ଲିଫେ ଗାଂଠାଁ ମେଁ ଡାଲାବ କା ନିର୍ମାଣ ତଥା ଡାଲାବ କୋ ଫିର ସେ ଜୀଠିତ କରନା ଜରୁରୀ ହେ. କାର୍ଯ୍ୟଶାଳା ମେଁ ବିଶେଷଜ୍ଞ କେସୀ ନାୟକ,

### Koderma champions water conservation, bags two nat'l awards

ଜାତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର.

### These residents reduced water use, earned Centre's accolades

ଓପିଏଲ୍ ଫିଟ୍ନେସ୍ ଗ୍ରୁପ୍ କୋମ୍ପାନୀ. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର. ଭାରତୀୟ ଭୂମିଜଳ ବୋର୍ଡର ପ୍ରଶିକ୍ଷଣ ଶିବିର.

### ଆଗରଣ ସିଟି

## ରାଂଚି

### ଫେସେ ହୋତା ରହା ଭୂଜଳ କା ଦୋହନ ତୋ ସୁଖ ଜାଫେଗୀ ଘରା

ଭୂଜଳ ମଂଥନ କାର୍ଯ୍ୟକ୍ରମ ମେଁ ବିରୋଧୀମାନେ ଯ ଯତ୍ନାଠାଁ ମେଁ ସୁସ୍ଥାଫ ଉପାୟ. ଭୂଜଳ ମଂଥନ କାର୍ଯ୍ୟକ୍ରମ ମେଁ ବିରୋଧୀମାନେ ଯ ଯତ୍ନାଠାଁ ମେଁ ସୁସ୍ଥାଫ ଉପାୟ.

### ଚିନ୍ତା : ପ୍ରଦେଶ ମେଁ ସାଢ଼େ 32 ହଜାର ନାଲେ, 21 ବଢ଼ି ନଢ଼ିଆଁ, ଫିର ମି ପଢ଼ତା ହେ ସୁଖା 'ନଢ଼ିଆଁ କୋ ନାଲୋଁ ଯ ଡାଲାବ କୋ ସେ ଜୋଢ଼କର ପ୍ରଦେଶ ମେଁ ଫିର ଲା ସକତେ ହେଁ ହରିତ କ୍ରାନ୍ତି'

କେନ୍ଦ୍ରୀୟ ଭୂମିଜଳ ବୋର୍ଡ କେ ଡାଲାବ ସେ ନିପଟନେ କେ ଲିଫେ ଗାଂଠାଁ ମେଁ ଡାଲାବ କି ସମସ୍ୟା ତବ ତକ ବନୀ ରହେଗୀ, ଜବ ତକ ଲୋଗ ପାନୀ ବଚାନେ କୋ ଲେକର ଜଗାଝଟ ନ ହୋ. ଇସକେ ଲିଫେ ଗାଂଠାଁ ମେଁ ଡାଲାବ କା ନିର୍ମାଣ ତଥା ଡାଲାବ କୋ ଫିର ସେ ଜୀଠିତ କରନା ଜରୁରୀ ହେ. କାର୍ଯ୍ୟଶାଳା ମେଁ ବିଶେଷଜ୍ଞ କେସୀ ନାୟକ, ମୁଖ୍ୟ ଅତିଥି କେଲ୍ କୁଲପତି, ରାୟପୁର. ଭୂଜଳ ସଂକଟ କି ସମସ୍ୟା ସେ ନିଜାତ ପାନା ହୋ ତୋ ଗାଂଠାଁ ମେଁ ଡାଲାବ କି ସମସ୍ୟା ତବ ତକ ବନୀ ରହେଗୀ, ଜବ ତକ ଲୋଗ ପାନୀ ବଚାନେ କୋ ଲେକର ଜଗାଝଟ ନ ହୋ. ଇସକେ ଲିଫେ ଗାଂଠାଁ ମେଁ ଡାଲାବ କା ନିର୍ମାଣ ତଥା ଡାଲାବ କୋ ଫିର ସେ ଜୀଠିତ କରନା ଜରୁରୀ ହେ. କାର୍ଯ୍ୟଶାଳା ମେଁ ବିଶେଷଜ୍ଞ କେସୀ ନାୟକ,

## Gallery



Dr. Basant Maheshwari, Dr. Himanshu Kulkarni, Dr. Saha, Dr. Peter & Dr. Ian (Australia) at the training programme on "Managed Aquifer Recharge (MAR)"



Infiltration Test conducted at Nachiyapuram, Andipatti block, Theni district, Tamil Nadu under Aquifer Mapping, Vaigai Basin, TN.



Field inspection of AR work at Kini and Khamgaon sites in Osmanabad Aspirational taluk.



Secretary, PHED Mizoram and RD NER in the SLC reconciliation meeting of DGWR of Mizoram as on March 2017 in the chamber of Secy. on 8 Feb 2019.



The European Union (EU) team with ground water experts visited CGWB CR Nagpur on 24.01.2019 in connection with preparation of Tapi River Basin Management Plan.



Sh. D. Subba Rao, RD, SR delivering talk at CSIR -NGRI, Hyderabad on the occasion of WWD



Awareness Raising Program of NHP organized at Bhopal on 23-01-2019



Hindi Workshop successfully organised at CGWB NER Guwahati. Smt. Sharmila Taye, Principal, Central Hindi Training Institute, Guwahati graced the workshop as the Chief Guest. GL Meena, RD NER has presided over the function.



Inaugural session of Awareness Raising Programme under NHP at Andaman and Nicobar Islands, organised by CGWB, ER, Kolkata. Dated- 11/03/2019



SLC approved the DGWR of Manipur as on March 2017. Meeting was held in the chamber of Secretary WRD Manipur on 06.03.2019



NAQUIM report presented to D.M. West Tripura District, Tripura.



PMKSY (HKKP) meeting in the chamber of Principal Secretary, WRD & Irrigation, Assam. Joint Secretary (IC & GW), Govt of India with the Principal Secretary, Secretary Irrigation, CE Irrigation, RD NER on 26.02.2019



Member (East) giving presentation on details of the scheme- PMKSY-GW.



Discussions with Karnataka government officers regarding progress in water conservation and ground water recharge in identified block- Gouribidanur Taluk, chikballapur District, Karnataka



State Level Committee Meeting for approval of GWRE 2017 Gujarat was held today under the Chairmanship of Special Secretary (Water Resources) and was approved.



Inspections of RWH by NGT monitoring Committee at The Mother's International School Hauz Khas New Delhi



नागपुर द्वारा अस्पिरेशनल डिस्ट्रिक्ट्स जिले में गतिविधियों के एक भाग के रूप में एक दिवसीय टियर 3 प्रशिक्षणकार्यक्रम "भुजल सम्बन्धित सार्वजनिक विचारविमर्श" कार्यक्रम दि.11.02.2019 को ईट गाव ,ता. भूम,जि.उस्मानाबाद में आयोजित किया।





# Replete Ground Water, Before it Depletes

## About Central Ground Water Board

- Central Ground Water Board (CGWB), a subordinate office of the Ministry of Water Resources, Government of India, is the National Apex Agency entrusted with the responsibilities of providing scientific inputs for management, exploration, monitoring, assessment, augmentation and regulation of ground water resources of the country. Central Ground Water Board was established in 1970 by renaming the Exploratory Tube wells Organization under the Ministry of Agriculture, Government of India. It was merged with the Ground Water Wing of the Geological Survey of India during 1972. CGWB Head Quarter is located at NH-IV, Faridabad, Haryana.
- It is headed by the Chairman and has five Members, namely (i) Member (HQ), (ii) Member (North & West), (iii) Member (East), (iv) Member (South) and (v) Member (CGWA). The administrative & financial matters of the Board are being dealt with by the Director (Administration) and Finance & Accounts Officer (FAO) respectively.
- The Board has 18 Regional offices, each headed by a Regional Director, supported by 17 Engineering Divisions and 11 State Unit Offices for undertaking various field activities.
- The Rajiv Gandhi National Ground Water Training & Research Institute (RGNGT&RI), which coordinates the capacity building activities of the Board functions from Raipur.
- Various activities related to regulation of ground water development in the country are being looked after by the Central Ground Water Authority (CGWA), constituted under the Environmental (Protection) Act, 1986.
- The Board regularly publishes scientific reports based on the data generated through various investigations for dissemination to the stakeholders. These include State and District hydrogeological reports, ground water year books and Atlas, ground water user maps and guides/manuals/pamphlets on various aspects of ground water management.
- For more information site may be access through <http://cgwb.gov.in>.

**EDITORIAL BOARD** : *Sh. G.C.Pati, Member (HQ), Dr. S. Suresh, Sc.D, Dr. Ratikanta Nayak, Sc.D, Mrs. Pooja Rani,DD (Stats.), Sh. Yuvranjan Sachdev, Photographer.*

*“Let us Join our hands together to Recharge the Ground Water”*

**Central Ground Water Board**

**Ministry of Water Resources, River Development & Ganga Rejuvenation**

**Government of India**

**Bhujal Bhawan, NH-IV, Faridabad - 121001**

**E-mail: [tschmn-cgwb@nic.in](mailto:tschmn-cgwb@nic.in)**

**Phone No.: 0129-2477110**



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