

# GROUND WATER NEWS



## Central Ground Water Board (CGWB)

Department of Water Resources, River Development and Ganga Rejuvenation

Ministry of Jal Shakti

Government of India

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

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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



#### Message



CGWB Fraternity express their 'Heartiest Welcome' to Sh. Gajendra Singh Shekhawat Ji, Hon'ble Minister, Ministry of Jal Shakti & Sh. Ratan Lal Kataria Ji Hon'ble Minister of State, Ministry of Jal Shakti, Government of India.

As all of us know 'Water' is a matter of concern now a days. Draught, Suicides of farmers, Late onset of monsoon etc. have given a clear indication that we need to hold and save every single drop of water. Some States had already declared draught one and two months before reaching monsoon and even ground water is declining very fast. CGWB would endeavor under the leadership of our Hon'ble Minister Sh. Gajendra Singh Shekhawat Ji to achieve the dream of making "water for all" a reality. Recently 'Jal Shakti Abhiyaan' has been launched on 1st July, 2019 with various themes to harvest rainwater and store/recharge for sustainable water management. We are very hopeful that under leadership of our Hon'ble Minister; we will definitely try to save every single water droplet and spread mass awareness.

Ground Water News (Quarterly News Bulletin) is 5th issue in the series since Jan-Mar, 2018 issue. This issue contains current updates of National Aquifer Mapping and Management Programme (NAQUIM), sharing of NAQUIM report with District Collectors, high yielding wells under exploration programme, highlights of the visit of higher officials, Visit of Indian delegation led by Additional Secretary, DoWR, RD & GR, Ministry of Jal Shakti to Tanzania; and capacity building of scientists of CGWB at Delft, Netherlands, various training programmes (National, State/District and Block Level) conducted by Rajiv Gandhi National Ground Water Training & Research Institute (RGNGWTRI), Raipur, Meetings with State Govt. Dept., Awards & Recognition and many more.

In this quarter two major MoA has been signed; one with BARC on "Capacity Building for Ultra Trace level of Uranium Determination in Ground Water" and second one with WAPCOS on "Construction of rain water harvesting & artificial recharge structures in DDA Parks, New Delhi at Jahapanah Forest City, Chirag and Asthakunj, Nehru Place for aquifer rejuvenation".

In the ongoing "Jal Shakti Abhiyan"(JSA) Programme as many as around 125 Scientists/Officers of CGWB has been assigned as Technical Officers in the JSA team. My best wishes to them for their new challenging assignments.

*Abuk*  
(K. C. Naik)

Chairman, CGWB

# Major Activities of Central Ground Water Board

## 1. NAQUIM

- As a part of the ongoing National Aquifer Mapping and Management Programme, CGWB is preparing aquifer maps and management plans for sustainable development of ground water resources. The recommended management strategies include supply as well as demand side interventions, while recharge augmentations have so far been the major tool of ground water management in the country. NAQUIM studies have brought out that demand- side management has more pronounced effect on improving ground water scenario in comparison to supply side interventions. CGWB has been advocating shifting to less water consuming crops for containing over-exploitation.

### Haryana Government Launches pilot project for crop diversification

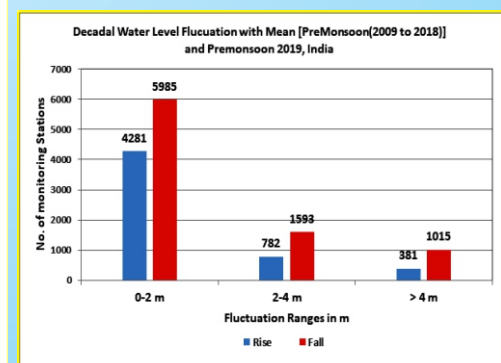
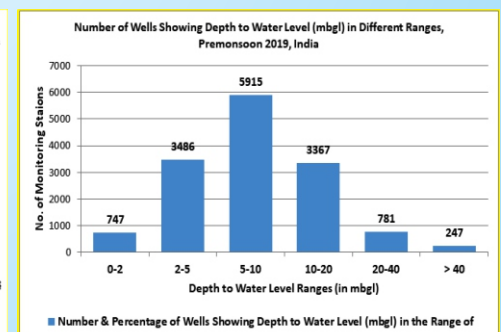
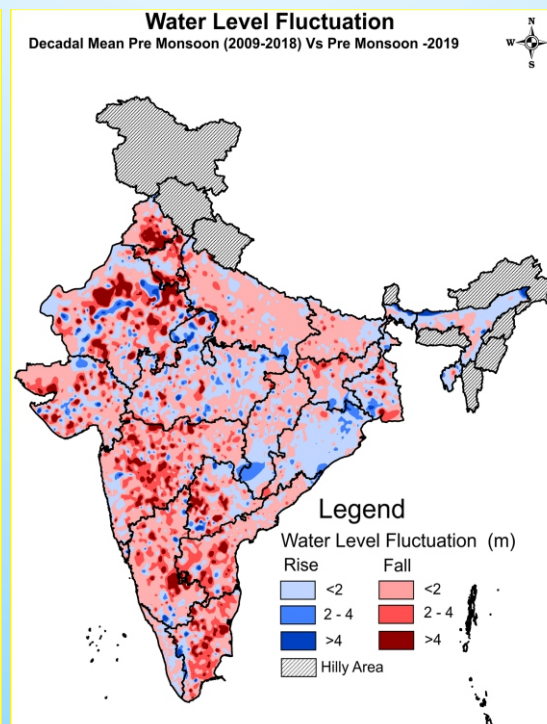
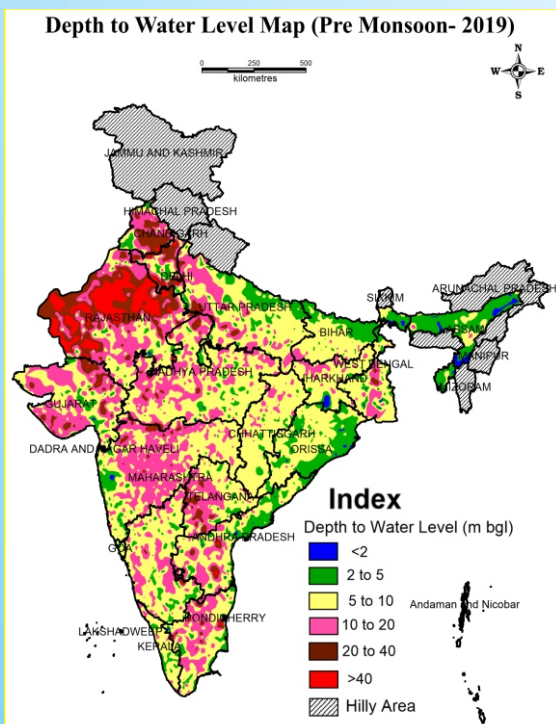
- Hon'ble Chief Minister of the Govt. of Haryana has recently launched a pilot project in seven blocks, one each in the districts of Karnal, Ambala, Jind, Kurukshetra, Yamunanagar, Sonipat and Kaithal for cultivation of maize, arhar and pulses instead of paddy so that water could be conserved as these crops consume much less water than paddy. Prior to the launch of the scheme a video-conference chaired by the Hon'ble chief minister was held on 29.05.2019 to discuss the issue of crop diversification in which the Regional Director, CGWB, NWR, Chandigarh also participated.



## 2. Ground Water Regime Monitoring

### Ground Water Level Scenario – Premonsoon 2019

- Ground water level data of Premonsoon 2019 for the country reveals that the general depth to water level of the country ranges from 5 to 10 m bgl. Very shallow water level of less than 2 m bgl is observed in few states, such as Assam, Odisha and Tripura in small patches. Ground Water level in the range of 2-5 m bgl is seen in Assam, northern parts of Uttar Pradesh and Bihar, Coastal parts of Odisha, few pockets in Andhra Pradesh, Gujarat and Maharashtra. Major part of the country shows water level in the range 5-10 m bgl, especially in the states of Madhya Pradesh, Uttar Pradesh, Bihar, Jharkhand, West Bengal, Odisha, Chhattisgarh, Maharashtra, Gujarat, Tamil Nadu, Telangana and Karnataka. In major parts of north-western and western states, especially in the states of Delhi, Haryana, Punjab and Rajasthan, depth to water level is generally deeper and ranges from about 20 to more than 40 m bgl. The peninsular part of country recorded a water level in the range of 5 to 20 m bgl. The maximum depth to water level of 128.15 m bgl is observed in Bikaner district of Rajasthan whereas the minimum is less than 1 m bgl.



## Achivements

### 1. High Yielding Wells

- During the quarter April- June, 2019 a total of 14 high discharge exploratory wells have been drilled in the States of Maharashtra (4 wells), Jharkhand (3 wells), and Karnataka (2 wells), J&K (1 well), Telangana (1 well), Himachal Pradesh(1 well), West Bengal(1 well)and Odisha(1 well). The location details and the discharge of the wells are outlined as under.

Sl. No	State	District	Well Type	Drilled down to a Depth Meter Below Ground Level (m bgl)	Discharge in Litre Per minute (lpm)
1.	Maharashtra	Wardha District (1 well) and Nagpur District (3 wells)	Exploratory Well and Observation Well	40 m bgl-180 m bgl	200 -1500 lpm
2.	Odisha	Khurdha District	Exploratory Well	up to 91 m bgl	540 lpm
3.	Karnataka	Belgaum District (2 wells)	Exploratory Well	140-150 m bgl	400-700 lpm
4.	Jammu & Kashmir	Dwwat village, Udhampur District	Exploratory Well	172.00 m bgl	210 lpm
5.	Jharkhand	Pakur District (3 wells)	Exploratory Well	150 m bgl-220 m bgl	230 lpm-520 lpm
6.	Telangana	Khammam District	Exploratory Well in granite gneiss (hard rock formation)	150 m bgl	350 lpm
7.	Himachal Pradesh	Kangra District	Exploratory Well		300 lpm
8.	West Bengal	Purulia District	Exploratory Well (hard Rock Terrain)	118.70 m bgl	750 lpm



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

- Aquifer Maps and Management Plans for East Jaintia Hills, West Jaintia Hills and East Khasi Hills districts of Meghalaya State have been shared with Deputy Commissioner of the respective districts. Similarly Aquifer Maps and Management Plans for Dhalai and Sepahijala districts of Tripura State have been shared with Additional District Magistrate of the respective districts during April-June, 2019.



Sharing of the NAQUIM Report of East Jaintia Hills, Meghalaya with Dy Commissioner by CGWB officer at Khliehriat.



Sharing of the NAQUIM Report of West Jaintia Hills district, Meghalaya with Dy Commissioner by CGWB officer at Jowai.



Sharing of the NAQUIM Report of East Khasi Hills district, Meghalaya with Dy Commissioner by CGWB officer at Shillong.



Sharing of the NAQUIM Report of Sepahijala district, Tripura with Additional District Magistrate by CGWB officer.

## 3. MoU between Bhabha Atomic Research Centre (BARC) and Central Ground Water Board (CGWB) on "Capacity Building for Ultra Trace level of Uranium Determination in Ground Water"

- The MOU was signed on 4th June 2019 between BARC and CGWB for capacity building for ultra-traces level of Uranium determination in Ground Water. The period of MOU is valid for a total of 24 months from the date of signing of a MOU.
- The major scope of the work relates to lecture sessions on radiation & radioactivity, uranium and its analysis by different analytical techniques with their advantages and disadvantages, practical demonstration sessions on uranium analysis in spiked sample and Groundwater samples, methodology for minimization of matrix effect and interferences in the measurement of uranium in ground water, transfer of know-how on collection and statistical analysis of environmental data, understanding of correlation of water quality parameters and regional geology with uranium concentration in ground water, understanding of correlation of water quality parameters and regional geology with uranium concentration in ground water etc.
- Both BARC and CGWB will have role and responsibility in their respective fields. Under this MoU, Four training sessions, each of three days, will be conducted for a batch of maximum 30 chemists every 6 months for a period of 2 years. If required, the MoU may be extended further preparation of national uranium database.
- The MoU was signed by Dr. M.S. Kulkarni, Head, Health Physics Division, BARC on behalf of BARC and Shri G. C. Pati, Member (HQ), CGWB on behalf of CGWB. Sh. Sanjay Ku. Jha, Head, Radiation Protection Section (Nuclear Fuels), BARC and Dr. S. K. Srivastava, Sc. D, CGWB were also present during the occasion.



Sh. G. C. Pati, Member (HQ), CGWB;  
Dr. S. K. Srivastava, Sc. D, CGWB;  
Dr. M.S. Kulkarni, Head, Health Physics Division BARC; Sh. Sanjay Ku. Jha, Head, Radiation Protection Section (Nuclear Fuels), BARC during MOU on 4th June 2019

## 4. MoU Between Central Ground Water Board & WAPCOS & CGWB

- MOU was signed between CGWB & WAPCOS on 26th June, 2019 for construction of rain water harvesting & artificial recharge structures in DDA Parks, New Delhi at two locations (Jahapanah Forest City, Chirag and Asthakunj, Nehru Place) for aquifer rejuvenation.
- The MoU was signed by Sh. G. C. Pati, Member (HQ), CGWB on behalf of CGWB and Dr. Kamleshwar Pratap Singh, Director WAPCOS on behalf of WAPCOS. Sh. S. K. Juneja, Suptdg. Hydrogeologist, & OIC, CGWB, SUO, New Delhi was also present during the occasion.



## 5. Joint Working Group Meeting between the Government of the Republic of India and the Government of the Kingdom of Morocco

- Sh. D. Subba Rao, Regional Director, CGWB, Hyderabad attended 2nd Joint Working Group Meeting on June 18-21, 2019 at Rabat, Morocco as a part of MoU between the Government of the Republic of India and the Government of the Kingdom of Morocco on Cooperation in the Field of Water Resources as a delegate.



### Capacity Building

#### 1. Training Programmes conducted by Rajiv Gandhi National Ground Water Training & Research Institute (RGNGWTRI), Raipur.

- A number of training programmes have been conducted by RGNGWTRI, Raipur and various Offices of CGWB (under the aegis of RGNGWTRI) during April-June, 2019 for imparting training to ground water professionals, semi-professionals and grass root stakeholders. Three types of training courses conducted as Tier-I (National level), Tier-II (State/District level) and Tier-III (Block level) are as follows.

**Tier-I (National level) Training Courses:** Tier-I training courses are conducted in RGNGWTRI, Raipur to impart training on core ground water areas with scientific input to ground water professionals and semi-professionals from State and Central Government Organisations, PSUs as well as Academic Institutions. A total of 13 Tier-I training courses have been conducted during April-June, 2019 against the annual target of 40 trainings, wherein 245 persons got the training of which 64 are women participants.



Inauguration of training course on "Administration and Establishment Rules" started on 27.05.2019 for Superintendents of CGWB



Capacity building of Engineers of CGWB on "Material Management, Store Keeping & Store Accounting" during 24th June to 5th July, 2019 at RGNGWTRI, Raipur

**Tier-II (State/District level) Training Courses:** Tier-II training courses are conducted by RGNGWTRI through 18 Regional Offices of CGWB spreading over different States of India to impart training on local ground water management issues to ground water professionals and semi-professionals from State Government Organisations, Water Managers/Administrators, NGOs as well as Academic Institutions. Against the annual target of 20 trainings, so far one training course was completed in which 34 trainees have participated including 6 women participants.

**Tier-III (Block level) Training Courses:** Tier-III training courses are conducted by RGNGWTRI through 18 Regional Offices of CGWB spreading over different States of India to impart training on local ground water related issues and participatory ground water management. Tier-III trainings are imparted to the grass root level stakeholders on basic skills of ground water and for assistance in data collection and field studies.

One day training programme on "Local Ground Water Related Issues and Participatory Ground Water Management" was held in the conference hall of Hotel Brahmagiri, Kannur Road, Mananthavady, Wayanad district on 28th May 2019. The training was inaugurated by **Smt. GeethaBabu, President, Mananthavady block panchayat**. The welcome speech was made by **Shri. V. Kunhambu, Regional Director, CGWB, Thiruvananthapuram**. Officers from Gram Panchayats appreciated efforts of CGWB in organizing such trainings for dissemination of newer technological knowhow at the local level including Panchayat members, NGOs, Farmers, Government officials working in the field of water management. Dr.K.R.Sooryanarayana, Superintending Hydrogeologist CGWB, Thiruvananthapuram proposed the vote of thanks. A total of 137 trainees including 85 women participants representing all the gram panchayats and one Municipality of Mananthavady Block, tribal promoters from Mananthavady block, officials from Soil conservation dept., Ground Water Department office, Wayanad, Kerala Water Authority, Irrigation dept, Krishibhavan, various NGOs attended the training.



## 2. Training programme on Groundwater quality monitoring and assessment at IHE, Delft, the Netherlands

- A tailor-made training programme on Groundwater quality monitoring and assessment was organised at IHE, Delft, the Netherlands for 25 ground water professionals of CGWB. The training was of two weeks duration (6th – 17th May 2019) and was organised under the ground water management and regulation plan scheme. The training covered topics like hydrochemical evolution of ground water, monitoring networks, ground water contamination including pathogens and emerging pollutants etc.



Participants on a visit to the chemical lab at IHE, Delft, The Netherlands

### Visit of Higher Officials

#### 1. Visit of Indian Delegation on the First meeting of the India-Tanzania Joint Working Group held at Dar es Salaam, Tanzania on 17th May, 2019:

Sh.K.C. Naik, Chairman, CGWB visited Tanzania during 15th May to 17th May, 2019 to attend the first meeting of the India - Tanzania Joint Working Group held at Dar es Salaam, Tanzania. He was part of Indian Delegation led by Ms. T. Rajeswari, Additional Secretary, DoWR, RD & GR. The Tanzanian delegation was led by Prof. Kitila Mkumbo, Permanent Secretary, Ministry of Water, The United Republic of Tanzania.



- The Indian delegation along with the representative of the Indian High Commission in Tanzania visited the Water Institute of Tanzania and gave a detailed presentation on:
  - Water Resources Scenario
  - Policy, legal and Institutional framework
  - Flood Management Practices
  - Financing of Water Resources Projects
  - Ground Water Management and Conservation
- Both sides agreed on the following possible areas of Technical Cooperation and Capacity Building:
  - Aquifer Mapping and Ground Water Management;
  - Integrated Water Resource Management;
  - GIS & Remote Sensing in Water Resources;
  - Water Harvesting & Ground Recharge



Joint Working Group (JWG) Meeting held on 17th May, 2019



Exchange of Minutes of Meeting of the JWG



Presentation by Ms. T. Rajeswari, Additional Secretary, MoWR, RD & GR



Presentation by Sh.K.C. Naik, Chairman, CGWB, MoWR, RD & GR

**2. Foundation Day Programme of India Institute of Geomagnetism (IIG) :**

Sh. K.C.Naik, Chairman, CGWB was Chief Guest in the Foundation Day Programme of India Institute of Geomagnetism (IIG) at Panvel, Raigad district, Maharashtra on 01.04.2019 and delivered lecture on 'Groundwater Development and Management in India'.



3. Shri K. C. Naik, Chairman CGWB, visited CGWB MER, Patna/SUO, Ranchi office on in connection with reviewing overall progress of the Region and had meeting with representatives of Bihar Industrial Association (BIA). He also visited NAQUIM areas in Dumka District of Jharkhand state with Sh. A. K. Agrawal, Regional Director, CGWB, Patna.

4. Dr. E. Sampath Kumar, Member (South), CGWB visited and inspected the outsourcing exploration work by WAPCOS in Goa on 27.04.2019. He also visited and reviewed progress of CGWB, Belgaum, State unit office and CGWB, SWR Bengaluru.



5. Dr. E. Sampath Kumar, Member South along with HOO, CGWB, Bengaluru in Karnataka state had meeting with Principal Secretary (Agriculture), Govt. of Karnataka on 29.04.2019 to have discussion on issues of PMKSY.



Member (South) visited Goa on 27 th April 2019 for WAPCOS Out sourcing Drilling activities inspection.



PMKSY Meeting ,Member (South) with Commissioner (Agriculture), Govt. of Karnataka on 29th April 2019 in Bangalore.

6. Joint meeting of Evaluation and Monitoring Committee for Ground water modelling study for parts of Karnataka state, being undertaken by IISc Bangalore, was held on 30.4.2019 at Department of Civil Engineering IISc, Bangalore.

7. Sh. U. P. Singh, Secretary, DoWR, Ministry of Jal Shakti (MoJS) visited CGWB, Regional Office, Guwahati on 17.06.2019 and interacted with the officials. During the interaction, status of NAQUIM progress and other activities of the region were briefed.



The Secretary, MoWR RD&GR interacting with the officers of CGWB during his visit to Guwahati.



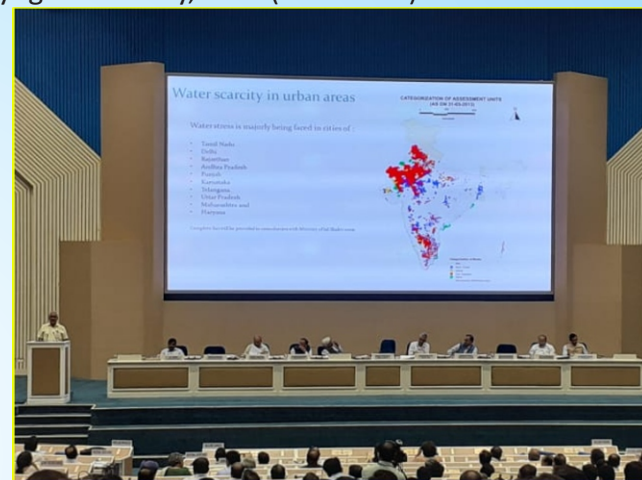
8. Sh. K. C. Naik, Chairman, CGWB attended meeting on 6th June, 2019 regarding revision of Mission Document – National Water Mission (NWM) Chaired by Secretary (WR,RD&GR) at New Delhi.

9. Sh. K. C. Naik, Chairman, CGWB attended fourth Water Talk at Dr. Ambedkar International Centre, New Delhi organized by NWM on 21st June, 2019.

10. Sh. K. C. Naik, Chairman, CGWB attended briefing meeting taken by Hon'ble Minister of Water Resources at Ministry of Jal Shakti, New Delhi on 26th June, 2019.

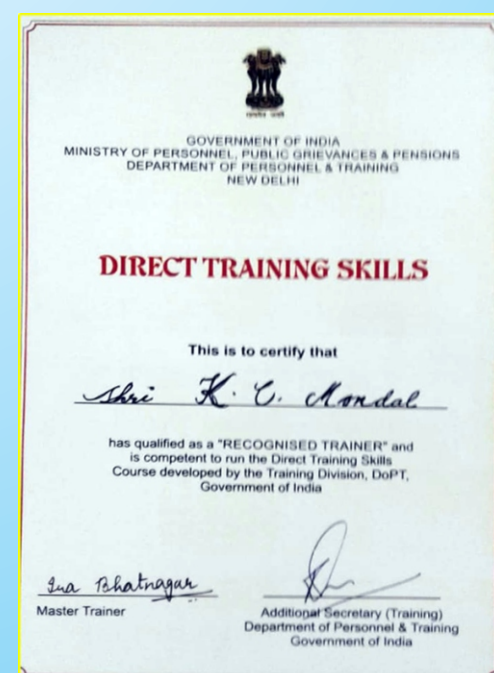
## Workshop/Seminar/Lecture/Talk/Awareness Programme

1. **"Restoring Water, Restoring Nature-II" conference – Water Digest : The Chairman, CGWB attended "Restoring Water, Restoring Nature-II" conference – Water Digest as a panelist at India Habitat Centre, New Delhi on 3rd May, 2019 (morning).** The Chairman addressing the delegates in the plenary session on SDG6 in Water Digest conclave.
2. Sh. K.C. Naik, Chairman, CGWB attended meeting of "Inter- Ministerial Committee on Water Conservation" chaired by Secretary (WR, RD&GR) at Conference Hall of Ministry of Labour and Employment, Shram Shakti Bhawan, New Delhi on 1st May, 2019 (morning).
3. The Chairman, CGWB attended 'Water Talk' seminar at Dr. Ambedkar International Centre, New Delhi. The seminar was graced by Shri U.P. Singh, Secretary (WR, RD & GR). He also lead the panel discussion with eminent water experts. Shri Shashi Shekhar, Former Secretary (WR, RD & GR) delivered the Water Talk on 1st May, 2019 (afternoon)
4. The Chairman, CGWB attended a half-day workshop in collaboration with World Bank and Food and Agriculture Organisation (FAO) at NITI Aayog, under the Chairmanship of CEO, NITI Aayog on 3rd May, 2019 (afternoon).
5. **Jal Shakti Abhiyan Technical Workshop:** Sh. K. C. Naik, Chairman, CGWB, Members of the Board and Officers from CGWB attended orientation meeting on Jal Shakti Abhiyan convened by the Secretary, DoWR, RD&GR on 28th June 2019 at Ambedkar International Convention Centre, New Delhi. In the program, the Hon'ble Union Minister of Jal Shakti & Hon'ble Minister of State for Jal Shakti along with the Secretary, DoWR, RD&GR, Secretary, Department of Drinking Water and Sanitation addressed the gathering. This was followed by a Technical Session in which 4 presentations were made by the officers of CGWB & other Departments. The presentations covered the topics on a) Rain Water Harvesting & Water Conservation, b) Best Practices of PMKSY-MNEREGA, c) PMKSY, (WDC) & d) NAQUIM.
6. Sh. Rakesh Rana, Sc D delivered a lecture and presentation on "Rain Water Harvesting and Ground Water Recharge" in ICT based training programme on "Sustainable Development and Natural Resources Management" held at Department of Rural Development, National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh on 01.05.2019.
7. Officers of CGWB North Eastern Regions (NER), Guwahati, Assam attended State-level workshop on "Springshed Management in the North-Eastern States of the Indian Himalayan Region" organised by Advanced Centre for Water Resources Development and Management (ACWADAM), Pune with Land Resource Development, Govt. of Nagaland at New Secretariat Road, Kohima, Nagaland on 29th May, 2019.
8. The Regional Director, CGWB, Kerala chaired a session on "Local Water Resources for Water Security Plan" on 30th May 2019 organised by 'Haritha Keralam Mission' – 'Water Resources Sub Mission'.



## Award/Recognition

- Dr. A.G.S.Reddy, Scientist-D & Sh. K. C. Mondal, Scientist-B, Rajiv Gandhi National Ground Water Training & Research Institute (RGNGWTRI), Raipur have been qualified as a "RECOGNISED TRAINER" by DoPT, Government of India for the Trainers Development Programme (TDP) of Design of Training (DoT) & Direct Training Skills (DTS) Courses respectively. These courses are developed by DoPT, Government of India with the collaboration with Theme' Valley University, United Kingdom.





## Miscellaneous

- 1. Celebration of 5th international Yoga Day:** International Yoga Day (IYD) was organized by all CGWB offices on 21-06-2019. The renowned yoga experts were invited and given demonstration on various yoga practices during the program.



- 2. Sh. K. C. Naik, Chairman, CGWB, Members of the Board and Officers participated in cleanathon of Yamuna River Ghats at Hazrat Nizamuddin on 28th June 2019. It was followed by a meeting on Jal Shakti Abhiyan at Ambedkar International Centre, New Delhi. The meeting was Chaired by Sh. Gajendra Singh Shekhawat, Hon'able Union Minister of Jal Shakti and Sh. Ratan Lal Kataria, Hon'ble Minister of State for Jal Shakti.**



- 3. Celebration of World Environment Day 2019 at CGWB Nagpur :** The offices of CGWB celebrated World Environmental Day (WED) 2019 on 06-06-2019. The theme for this year WED- 2019 was "Air Pollution". Sh. Milind Joshi, Ex-Scientist, NEERI, Nagpur delivered a talk presentation on World Environmental Day at CGWB, Nagpur.





## Gallery



SGWCC meeting held on 04/06/2019 at Ranchi. Sahibganj NAQUIM, Phase-IF report presented before Additional Chief Secretary, Water Resources Jharkhand State.



Water filled up in first rain in check dam in Osmanabad.



Visit of Joint Secretary, (IC & GW) DoWR, RD & GR to Rain Water Harvesting pits & wells inside Cancer institute, Adyar, Chennai on 11.05.19



Visit of Joint Secretary, IC & GW DoWR, RD & GR to Rain Water Harvesting pits & wells inside Cancer institute, Adyar, Chennai on 11.05.19



Presentation of results of NAQUIM studies in 5 basins in Tamilnadu in the 5th State GW Coordination Committee meeting chaired by the Principal Secretary PWD Govt. of Tamilnadu on 27.05.19.



Release of Telangana GWRA-2017 by Sh. SK Joshi, Chief Secretary, Telangana on 05.06.2019



Presentation of National Aquifer Mapping & Ground Water Management Plan by CGWB at State Ground Water Coordination Committee of Kerala at Trivandrum.



State Ground Water Coordination Committee Nagaland has approved NAQUIM Report & Management Plan of Dimapur District after discussions and presentations before Secretary DGM, Nagaland.



Visit of Shri Akhil Kumar, Joint Secretary (IC & GW) DoWR, RD & GR to CGWB SR Hyderabad on 08.05.2019 regarding GP level ground water governance.



Sh. A.K. Agrawal, Regional Director, CGWB MER Patna delivering lecture on GW Scenario, Resource Potential and Challenges in Bihar in the workshop on GW Conservation & Management organized by Govt. of Bihar on 9th April 2019



Tier-III Training Programme at Mananthavadi, Wayanad Aspirational District, Kerala



Jal Shakti Abhiyan team visit to field sites at Tiruvanamalai district, Tamilnadu.

## Capacity Building Activities of Central Ground Water Board

- Rajiv Gandhi National Ground Water Training & Research Institute (RGNGWTRI) was established at Raipur (Chhattisgarh) in 1997 as a Training Institute of Central Ground Water Board (CGWB). The institute has the mandate to conduct training courses for ground water professionals at induction, mid-career, and senior management levels. RGNGWTRI is envisaged to be a 'Centre of Excellence' in training ground water resources personnel and is engaged in conducting training courses for various stakeholders ranging from grass root level workers to ground water professionals. It also promotes research activities in various aspects of exploration, development and management. Training courses are designed to cover all relevant aspects of investigations, exploration, assessment, development and management of ground water, customised training courses on administrative matters and general management aspects. It also conducts training courses for professionals from foreign countries.
- Three tier training programme is being organized by CGWB to develop a panel of trained personal across the country at different level for sustainable management of GW resources. In Tier- I (National Level) Training programme, the training is provided in core ground water areas with scientific input to State and Central Level ground water professionals and sub-professionals at the training Institute at Raipur. Tier - II Training programs, organized through Regional Offices of CGWB is aimed at training ground water professionals and sub-professionals at State / District levels. In Tier - III training programs, aimed primarily at promoting participatory ground water management; grass-root level stake holders at block/village levels are imparted basic skills for ground water data collection and assistance in field studies.
- The details of training programs organized by the Institute during 2012-19 are summarized below:

Training Type	Number of Trainings	Number of Participants
Tier - I	259	4771
Tier - II	201	6356
Tier - III	413	59415

### Trainings conducted for foreign nationals

- Training Course on "Ground Water Management and Modelling" was organised for ground water professionals from the Republic of Yemen (2006).
- Training Course on "Ground Water Management and Modelling" for the ground water professionals from eight different African countries (Nigeria, Sudan, Kenya, Ethiopia, Tanzania, Zimbabwe, Zambia and Mauritius (2011).
- Training Course on "Ground Water Technology and Management" for Ground Water Professionals of Government of Nepal (2016).

### Research & Development

- RGNGWTRI has taken up in-house Research Projects as well as collaborative R&D Projects with reputed institutions on emerging and challenging fields of ground water. Dissertation works by M.Sc and M.Tech students from different Universities are also being undertaken at the Institute.

### P G Diploma Course

- RGNGWTRI is launching a 1 year P G Diploma course on "Applied Hydrogeology" in collaboration with Pandit Ravishankar Shukla University, Raipur.

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

**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.

**Central Ground Water Board**

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