

Minutes of the
Fourth meeting of the National Level Expert Committee
held under the Chairmanship of Chairman, CGWB
29th May 2018, 1st June 2018 & 6th June 2018 at Faridabad/ New Delhi.

List of participants is annexed. (Annexure-I)

Fourth meeting of the National Level Expert Committee for review and finalization of aquifer maps and management plans was held during 29th May 2018, 1st June 2018 & 6th June 2018 at CGWB Faridabad/ New Delhi under the Chairmanship of the Chairman, CGWB. Presentations were made in respect of area covered in the states of Uttar Pradesh, Uttarakhand, Madhya Pradesh, Maharashtra, Tamil Nadu, Puduchchery, Andhra Pradesh, Kerala, West Bengal, Bihar, Jharkhand, Chhattisgarh, North Eastern States and Odisha. Major decisions that emerged during the presentations/deliberations are summarized hereinafter.

- Uttar Pradesh (16892 sqkm)

The work carried out under NAQUIM by NR Lucknow was reviewed. Major modifications were recommended in respect of data, maps and management plans. Committee suggested to restrict the presentation as per the prevailing guidelines and focus more on the outcomes of Management Plans. Various other improvements and modifications as suggested by the Committee is to be incorporated and duly appraised to concern administrative Member before representing all presentations to the committee again.

– **Action:** Member (N&W) / RD, NR, Lucknow.

- Uttarakhand (3000 sqkm)

Presentations in respect of areas covered under Aquifer mapping by the UR, Dehradun were made by the respective RD/HOO. Presentations on Uttarkashi and Doiwala (Dehradun), is approved by the Committee with minor modifications and suggestion in management plans. Committee suggested that management plans should be made more comprehensive including area specific management options.

– **Action:** RD/HOO, UR Dehradun/Member(N&W)

- Madhya Pradesh (12769 sqkm)

Presentations in respect of area of Panna districts (6631 sqkm) covered under Aquifer mapping by the NCR, Bhopal were made by the officer of NCR CGWB in presence of RD. The committee suggested to include ground water development measures and expansion of agriculture and horticulture in proposed management plan apart from several minor suggestions. Committee approved presentation after inclusion of modification suggested and duly vetted by concerned Member.

– **Action:** Member(N&W) / RD, NCR, Bhopal

- Himachal Pradesh (2400 sqkm)

Presentation on Nalagarh valley, Himachal Pradesh was made by Officers representing RD, NHR Dharamshala. Expert Committee suggested inclusion of existing data of exploratory drilling, and ground water quality studies carried out in past to ascertain ground water quality scenario in the area. Committee recommended to include area specific measures in quantitative terms in management plan instead of recommending generic suggestions. Committee approved study with rider to revise Management Plan and inclusions of suggestions of the committee and duly vetted by the concerned administrative Member.

- **Action:** Member(N&W) / RD, NHR, Dharamshala

- Tamil Nadu (14154 sqkm)

Presentation of Lower Cauvery basin made by RD SECR, Chennai was also approved by the Committee with rider to include suggestions of NLEC in Consultation with concern Administrative Member.

- **Action:** Member(S)/RD, SECR, Chennai

- Maharashtra (14626 sqkm)

Presentation of aquifer mapping areas of parts of Pune, Sangli, Satara and Dhule was made by RD CR, Nagpur. The presentation was accepted by NLEC.

- **Action:** RD, CR, Nagpur

- Andhra Pradesh (6950 sqkm)

Presentations in respect of area of East Godavari & West Godavari districts covered under Aquifer mapping by the SR Hyderabad were made by RD, SR, Hyderabad. The committee suggested to include creek regulators in management plan to manage tidal water to prevent saline water ingress. Committee approved presentation after inclusion of modification suggested and duly vetted by concerned Member.

- **Action:** Member(S)/RD, SR, Hyderabad

- Kerala (6400 sqkm)

Presentation on Pattenamittha district, Kerala was made by RD, KR, Trivendrum. Expert Committee suggested that ground water resources to be estimated as per aquifer dispositions and their resource potentials. Incorporating resources estimation as per GEC-2015 can be restricted depict the extent of variance from GEC-2015 and Aquifer-wise resources under NAQUIM. Committee recommended to modify the management plan and duly vetted from respective administrative Member, CGWB. Presentation deemed approved by Committee.

- **Action:** Member(S)/RD, KR, Trivendrum

- North Eastern States (8679 sqkm)

Presentation of East Sing district was made by officer from NER, Guwahati. The committee appreciated the management plan prepared for East district and approved the

aquifer maps and management plan. In the similar line, the aquifer maps and management plans of 8679 sqkm of NE states was prepared and submitted. The committee also suggested that detail data on springs particularly in and around Shillong city may be incorporated in these report.

-Action: RD,NER, Guwahati /SOU, Shillong

- Odisha (3101 sqkm)

Presentation of Kendrapada district was made by officer from SER, Bhubaneswar. Thorough revision is required for aquifer maps and management plan for the areas of 3101sqkm as recommended by committee. Revised presentation should made as the circulated template.

-Action: Member(East)/RD,SER, Bhubaneswar

- West Bengal (2261 sqkm)

The officer from ER, Kolkata has presented the aquifer maps and management plan for parts of Nadia, district. Committee suggested that the ground water resources should be estimated as per the finding of Aquifer Mapping. The revised aquifer maps and management plans may be prepared as suggested and duly approved by Member In-charge. With these modification and revision committee approved the aquifer maps and management plans.

-Action: Member(East)/ RD, ER, Kolkata

- Bihar (4627sqkm)

Officer from MER, Patna was presented the aquifer maps and management plan for Bhojpur, Patna, Buxar, Bhagalpur and Kathiar districts. The sections and maps may be modified and the exploration & water quality data interpretation may be carried out by better methods as suggested by committee. With these modification, the aquifer maps and management plan was approved by committee.

-Action: Member(East)/ RD, MER, Patna

- Jharkhand (1702 sqkm)

Presentation was made by officer from SUO, Ranchi for Sahebganj district (1702 sqkm). The committee suggested to consult GSI geological maps for better understanding of disposition of lava flows and Rajmahal Traps. The management plan can be improvised by incorporating the feasibility of ground water development through wells with pumps (Solar/Diesel/Electric). The revised aquifer maps and management plans may be prepared as suggested and duly approved by Member In-charge. With these modification and revision committee approved the aquifer maps and management plans.

-Action: Member(East)/ RD,MER, Patna/SUO,Ranchi

- Chhattisgarh (8906 sqkm)

For an area of 8906 sqkm, the aquifer maps and management plans was presentation by officer form NCCR, Raipur. Committee suggested that the ground water resources should be estimated as per the finding of Aquifer Mapping. Through aquifer management plan, the state government may be suggested for better management option instead of present

practice used by Chhattisgarh state of withdrawing the ground water to fill the ponds/lakes. The committee approved the aquifer Maps and management plan for areas presented during the meeting.

Action: Member(East)/ RD, NCCR, Raipur

- The Expert Committee once again emphasized that during aquifer mapping studies ground water estimations should be made on aquifer –wise resources. Reflecting ground water resources estimation as per GEC 2015 methodology is not objective of Aquifer mapping. Further, the objective of NAQUIM should always be kept in mind by all the Regional Directorates. Presentations should be focused on objectives and desired outputs and possible outcomes. It is not appropriate to incorporate artificial recharge measures in all management plans as a thumb rule for ground water management. Areas with low development of ground water should suggest ground water development plans with area to be developed appropriately demarcated on maps based on agriculture demand.
 - **Action:** All Regional Directors
- National Level Expert Committee recommended major revision and repeat presentation for the states of Uttar Pradesh, Madhya Pradesh and Odisha.

Meeting ended with thanks to the Chair.

List of participants

1.	Shri K C Naik, Chairman, CGWB - in Chair
2.	Dr G.C.Pati, Member (East)
3.	Dr. E Sampath Kumar, Member (South)
4.	Shri Alok Dubey, Member (North and West), CGWB
5.	Dr. D K Chadha, Ex-Chairman, CGWB
6.	Shri Sushil Gupta, Ex-Chairman, CGWB
7.	Dr. A. K. Keshari, Professor, IIT, Delhi
8.	Dr. S. Mukherjee, Professor, JNU, New Delhi
9.	Dr. Bharat Sharma, Scientist Emeritus (WR), IWMI
10.	Dr. P.K. Purchase, Regional Director, CR, Nagpur
11.	Shri Sunil Kumar, Regional Director, RGI
12.	Shri S Marwaha, Regional Director, CGWB, Faridabad
13.	Shri C Paul Prabhakar, RD, SECR, Chennai
14.	Shri. Subba Rao, Regional Director, SR, Nagpur
15.	Shri Parvinder Singh, RD, NCR, Bhopal
16.	Shri. Y.B. Kaushik, Regional Director, NR, Lucknow
17.	Shri. V. Kunhambu, Regional Director, KR, Trivandrum
18.	Shri. M. Muttukkannan, Suptdg. Hydrogeologist, SWR, Bangalore
19.	Shri Sujeet Sinha, Scientist-D, CHQ, Faridabad
20.	Shri. S. K. Junejha, Scientist-D, CGWA, New Delhi
21.	Shri. Anurag Khanna, HOO, UR, Dehradun
22.	Shri. A. Ashokan, Scientist-D, SECR, Chennai
23.	Shri. Devendra Joshi, Scientist D, NCR, Bhopal
24.	Shri. M.K.Garg, Scientist-D, CHQ, Faridabad
25.	Shri Vidhya Nand Negi, Scientist D, NHR, Dharamshala
26.	Shri. Ratikant Nayak, Scientist-D, CHQ, Faridabad
27.	Shri. T. B.N. Singh, Scientist-D, SUO, Ranchi
28.	Dr. S. Brahma, Scientist-D, ER, Kolkata
29.	Shri. Tapan Chakroborty, Scientist-D, SUO, Shillong
30.	Shri. P. K. Tripathi, Scientist-D, NR, Lucknow
31.	Dr. S. K. Srivastava, Scientist-D, CHQ, Faridabad
32.	Shri Gulab Prasad, Scientist D, CGWB, SER, Bhubaneswar
33.	Shri S.N. Dewivedi, Scientist-C, CHQ, Faridabad
34.	Smt. Rumi Mukherjee, Scientist-C, CHQ, Faridabad
35.	Shri. Ravikalyan Bussa, Scientist-C, UR, Dehradun
36.	Shri. Dr. Vikas Ranjan, Scientist-C, NR, Lucknow
37.	Shri, Vidya Bhooshan, STA, NHR, Dharamshala
38.	Shri S.K.Swaroop, Scientist B (JHG), CHQ, Faridabad
39.	Shri. Debashish Bagchi, Asst. Hydrogeologist, CGWB, UR, Dehradun
40.	Ms. Shilpi Gupta, Scientist B (JHG), CHQ, Faridabad
41.	Shri. T. Madhav, Scientist-B, CHQ, Faridabad
42.	Smt. Ritu K. Oraon, Scientist-B, NCR, Bhopal
43.	Shri. P Yadaiah, AHG, CGWB, New Delhi

