PARTICIPATORY GROUNDWATER MANAGEMENT WORKSHOP IN GOSABA

Report of Workshop











Participatory Groundwater Management in Gosaba

Report of Workshop 14-06-2019 Published June 2019

India-UK Water Centre www.iukwc.org

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The India-UK Water Centre promotes cooperation and collaboration between the complementary priorities of NERC-MoES water security research.

भारत-यूके जल केंद्र, एनईआरसी-एमओईएस जल स्रक्षा अन्संधान की मानार्थ प्राथमिकताओं के बीच सहयोग और सहकार्यता को प्रोत्साहित करता है।

Front cover image: River Ganga

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Executive Summary

Rajarhat PRASARI in collaboration with National Institute of Hydrology (NIH), Roorkee and British Geological Survey with the funding of India United Kingdom Water Centre (IUKWC) organized a workshop on Participatory Ground Water Management (PGWM) in Pathankhali Gram Panchayat of Gosaba Community Development Block. The main objective of the workshop was to initiate the pump priming project on aquifer study in the Sunderbans. The workshop was held in 14/06/2019 from 11am in the morning and ends with a lunch in the venue at 3pm. In the said workshop women leaders of local Self Help Groups (SHGs), local Gram Panchayat members, engineers, assistant engineers, surveyors and GP's representative for water resource management were present and shared their views on their present situation of ground water.

After end of the session 6 volunteers came up to take the task of regular water sample collection from their field for isotope testing whom Dr. Gopal Krishan from NIH gave hands on training with water sample collection kit (sample water collection bottles, EC, pH & TDS tester).



Figure 1: Participatory groundwater management workshop

1. Workshop Conveners

The workshop was convened by the Prasari and NIH, Roorkee under India-UK Water Centre (IUKWC) and led by the co-coordinators/Activity Leads:

NAME: Dr. Gopal Krishan ROLE: co-coordinator

Organisation: National Institute of Hydrology,

Roorkee

Address: NIH Roorkee-247667, Uttarakhand,

India

Email: drgopal.krishan@gmail.com

NAME: Dr. Purnaba Dasgupta

ROLE: Convenor

Organisation: Raharhat PRASARI Address: Jadhavpur, Kolkata, India Email: Purnaba.irdm@gmail.com

NAME: Mr. Andrew Mackenzie

ROLE: Co-Coordinator Organisation: BGS, UK Address: Wallingford, UK Email:aam@bgs.ac.uk

2. Workshop (or Activity) Aims

The India-UK Water Centre is based around five key cross-sectoral themes and aims to deliver a portfolio of activities across these themes. This activity focused on the theme: Using new scientific knowledge to help stakeholders set objectives for freshwater management; Improving freshwater monitoring frameworks and data for research and management;

The main objectives of the workshop were –

- Getting a picture of the Ground Water Table of Gosaba Block,
- Understanding of the problems associated with drinking and irrigation water in the Block,
- Problems faced by the local people in general to get access and use of fresh water for various purposes like- agriculture and or, household chores
- Training of the volunteers to collect water samples for isotope test

3. Workshop Participants

{Participants details):

Gosaba an important gate way to the core zone of Sunderbans and a community Development Block is located at 22°09′55″N & 88°48′28″E. It has an average elevation of 6 metres (20 ft) from the sea level.

- Participants were residents of Gosaba Block;
- Women leaders of the SHGs, GP members and others associated ground water of the area were invited by the field facilitator appointed for this project
- Officials from village panchayats;

Total 31 participants participated in the workshop where women leaders came from six GPs 40% (6 out of 14 GPs) of Gosaba Block. All the participants came from the six GPs of Gosaba Block namely- Tentultali I, Tentultali II, Pathankhali, Bot-tala, Kumor Para, Jele Para.

Table 1. List of Delegates

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4. Activity Structure

Participants were supposed to provide a primary hands on idea of the salinity and pH, for this participants were also requested to bring water from the sources they use frequently for farming and or, household chores. Analysing the sample waters it was found that in Jele Para the salinity, TDS and pH were maximum of all the six GPs present there whereas, Tentultali's deep tube well's water quality was found better amongst the six GPs water we tested on that day using EUTech's EC, pH and TDS tester.



Figure 2: Participants interaction and samples testing

5. Activity Conclusions and Outputs

As per the women members from the community their water is very poor and the quality of taste further worsen during summer time. They said that "from November onwards water quality falls heavily and in April-May it become unthinkable. We cannot drink water even from deepest tube wells on that time without boiling and filtering them". They also said the salinity is highest in Bot-tala and Jele Para whereas adjacent Tentultali and Kumor Para's water is okay to taste and has less salinity.

5.1. Key themes/Points/outcomes arising

Workshop was very useful in getting first hand information on groundwater levels, seasonal variations and salinity ingression in the study area and it helped the participants building their confidence that ground water recharge is possible to replenish their ground water table and spreading the message of fresh water conservation for meaningful use in the near future or in the lean period.

5.2. Conclusions and next steps/recommendations from the activity There was no doubt that the activity helped in getting a primary information on the groundwater conditions of the area.

5.3. Participant feedback (where applicable)

At the conclusion of the Activity participants were asked to provide comment on:

- the Workshop content; all said it is a very good initiative
- the meeting venue and organisation; Venue was GP office
- networking opportunities; and all very happy to share their views and got a first hand informationon the groundwater salinity
- provide an overall score out of 10 for the workshop. 10



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