

India Water Partnership (GWP-INDIA)

Monthly Report, October-2014



Contents

PART- I: CORE ACTIVITY REPORT	1
PART- II: WACREP REPORT	10

PART- I: CORE ACTIVITY REPORT

1.1 Study for Reviewing and Examining the State Level Regulatory and Institutional Framework of State Water Policy of Maharashtra, Meghalaya and Karnataka to Operationalize the National Water Policy- 2012

India Water Partnership is supporting Indian Environment Law Offices (IELO) to review and examine the state level regulatory and institutional framework of state water policy of **Maharashtra, Meghalaya and Karnataka** to operationalize the National Water Policy- 2012 (NWP-2012). In the month of April, 2014, the IELO in consultation with IWP finalized common assessment framework for carrying out the study which has been prepared based on the thematic areas covered under NWP-2012. In the preceding month, the IELO completed the review of Maharashtra State Water Policy. The Meghalaya State Water Policy was taken up for review in the month of April and was completed in the month of July. The salient findings of the review of both the state water policies have been shared in the previous monthly reports.

During the month of August, State Water Policy of Karnataka was taken-up for the study and is in its third month of review. The policy is being reviewed under the 16 thematic issues, which have been shared in the previous reports. A major part of review has been shared in the report of the previous months. The following analysis is from the review done in the month of October, 2014 on the identified thematic issues.

1. Adaptation to climate change:

- a. In addition to State plans, the district level climate change action plans are to be formulated.
- b. There is an increased propagation of drip and sprinkle irrigation in the state.

2. Augmenting water supply and sanitation

Water supply and sanitation forms the most basic development challenges in the present situation. In this context, the Government of Karnataka have undertaken following steps for augmenting and supplying water to rural areas as per the State Water Policy:

Bore wells with Hand Pumps: Bore wells fitted with hand pumps are the major source of potable drinking water in rural areas. Since inception 213725 bore wells have been drilled in the State up to the end of March 2010.

Mini Water Supply Scheme: In this scheme water is pumped to a small tank (Cistern) fitted with 3 - 4 taps, from where water can be collected by households. Since inception of the programme to the end of March 2010, 34,073 Mini water supply schemes have been completed and commissioned.

Piped Water Supply Scheme: There are as of March, 2010, 24182 PW schemes have been completed and commissioned.

Desert Development Programme (DDP): In drought prone districts of Bagalkot, Bellary, Bijapur, Davanagere, Raichur and Koppal additional rural water supply schemes are being implemented under the Centrally Sponsored Desert Development Programme (DDP).

3. Demand Management and Water use efficiency

a. Existing Schemes

- Micro Irrigation Scheme is implemented by the Department of Horticulture with the objective of better utilization of available water. It will be a Centrally Sponsored Scheme under which out of the total cost of the MI System, 40% will be borne by the Central Government, 35% by the State Government and the remaining 25% will be borne by the beneficiary either through his/her own resources or soft loan from financial institutions (the subsidy for Drip Irrigation in Bijapur&Kolar districts is 100%) During 2011-12, an amount of Rs. 124.43 Crores subsidy has been given to the beneficiaries for the installation of Drip Irrigation in area of 43,783 hectares. 75% subsidy is given to encourage installation of drip irrigation in horticulture crops in all the districts of the State.
- Micro irrigation Monitoring System has been developed for submitting the online applications. This enables to maintain transparency in seniority list and quick clearance of drip applications.
- Subsidy is being directly given to the farmers through the Electronic Clearance System (ECS).
- Govt. Is promoting sprinkler irrigation method for crops under centrally sponsored scheme.

b. Existing Mechanism to conduct water audits

- The State Water Policy 2002 mentions about making water accounting and audit mandatory.
- Water Auditing is the most important factor in water management. The time gap between excess flows in canals and control over these flows is very high. Therefore, to achieve concurrent water audit, real time measurement and flow of water, telemetry with electronic flow meters was piloted successfully in the Ghataprabha irrigation system (GLBC)

4. Water Pricing

- a. Water Regulatory Authority: The state has not established Water Regulatory Authority
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1.2 Reviewing the State Water Polices of Bihar and Gujarat in line with National Water Policy -2012 in the context of climate change

India Water Partnership (GWP-India) with the support of Institute for Resource Management and Economic Development (IRMED) is reviewing the **State Water Polices** of **Bihar** and **Gujarat** in line with the National Water Policy, 2012 with regard to climate change. IWP requested Ministry of Water Resources, Government of India to facilitate IWP and IRMED team for undertaking field visits in Bihar and Gujarat. Accordingly, the review of Draft Water Policy of Bihar was completed in June, 2014 and a separate section on climate change in line with the National Water Policy 2012 was prepared based on the review and recommendations of the workshop held in Patna, Bihar with policy planners, officials of State Government and various line departments, Community Based Organizations, academicians etc. The recommendations have been suitably incorporated in Draft State Water Policy of Bihar which is available on www.wrd.bih.nic.in for final comments and suggestions.

The review of State Water Policy of Gujarat started from July, 2014. During the month of September various interactions were held with stakeholders at the state, district and sub district level and a number of documents were collected from the officials at the state and district level. Field study was conducted in two gram panchayats of Sundarnagar district.

Activities related to the review of Gujarat State Water Policy continued in the month of October, 2014 as well. The data collected from the field visits has been analyzed and a brief write up has been prepared which will be shared with the state officials during the workshop in Ahmedabad. Earlier it was decided to hold the workshop in the month of October, 2014 at Indian Institute of Management, Ahmadabad. Since the Secretary, Water Resources Department, Govt. of Gujarat is on a long leave and the issues to be discussed in the workshop have relevance at the policy level, it was realized that his presence is crucial. So this workshop will now be held in the month of November, 2014.

1.3 Development of participatory decision support tool for water resources assessment in 15 quality affected villages of Warangal District, Andhra Pradesh

The Safe Water Network India (SWNI) with the support of India Water Partnership is undertaking the above activity in water quality affected villages of Warangal District of Andhra Pradesh. This activity has two broad objectives (i) Map the water resources through application of GIS by adopting micro-watershed approach and estimating water balance in the 15 selected project villages of Warangal District, Andhra Pradesh; (ii) Develop simplified IEC (Information Education & Communication) tools for raising awareness among users on water scarcity.

In the month of October 2014, following key activities were conducted for developing water resource assessment tool and IEC material:

- Continued data analysis for water resource mapping forming part of water balance study;
- Collection/verification of data based on the gaps identified during the analysis; and,
- Review of reference material to develop IEC material on Systems of Rice Intensification

The components given below form a part of the water balance study which have eventually been used to develop IEC material for dissemination of information to the farmers:

1. Participatory Water Budgeting

Participatory water budgeting has been carried out in the project villages. It included the following activities:

- To assess the quantity of water received in the village, rainfall data was accessed from the Indian Meteorological Department (IMD) available in public domain. This data has been collected from observatories, which are normally found at district level.
- The data to estimate the existing water utilization practices in the area by the total human population, total cattle population and for cultivation has been sourced from Ministry of Drinking Water Supply & Sanitation (MDWS), Government of India and through focus group discussions (FGDs). During the FGDs data related to water consumed by human and livestock were also collected. Based on the total population and average consumption standards and the total water requirement is estimated.

Based on the above steps, the water requirement in the project villages has been estimated and presented to the community for triangulation to get their inputs on utilization of water in the project villages.

2. Water Balance Study

Based on the inputs from water balance study, education materials have been developed for creating the awareness in the villages that are having annual water deficit. Considering that the paddy requires more quantity of water in comparison to other crops cultivated in the area, it is planned to improve the water use efficiency of paddy by informing farmers about the water management practices that are widely accepted and recognized. Safe Water Network has developed a flip chart that presents step by step visuals of systems of rice intensification. The flip charts will be available in each project village for creating awareness among the farmers. The field executives and village youths will be involved for disseminating the information among farmers.

1.4. Awareness generation and water quality testing by rural women for using safe drinking water in Kommaragiri Village, Kakinada District, Andhra Pradesh

India Water Partnership with the support of All India Women's Conference (AIWC) is undertaking awareness generation activities and water quality testing by rural women of Kommaragiri village of Kakinada District, Andhra Pradesh. In continuation to the various awareness programs organized in the previous months, the AIWC team with support of India Water Partnership undertook the following activities in the month of October:

a) Follow up Meeting

On 12th October, a follow up interaction was held with the students of the Zilla Parishad School. In the meeting, it was found that students generally get the water from their houses tested by the kits that were given to the school in the previous meetings. Students informed that the training given to them earlier on using testing kits was very useful.

b) Interaction with Self-help Groups

On 26th October, 14 Prof. GVS Muralikrishnan of Jawahar Lal Technical University (JNTU), Kakinada interacted with the women Self-Help Group (SHG) members which were earlier presented with a water testing kit. He talked about the benefits of having access to safe drinking water. He also narrated as to how women can propagate the minimum usage of water for their daily needs. He highlighted that conserving water in the light of constantly increasing population. The women who attended the meeting found it very useful as they have already started using the water testing kits in their area.

c) Discussions with the National Institute of Hydrology

On 29th October, 14 another meeting was organized with members of the Shanthi Mahila Mandal in Kakinada. In that meeting women were told about various rain water harvesting methods.

Activities set for November 2014

- Compilation of all data and photographs,
- Completion of detailed report along with findings and recommendations.

1.5 Clean India Campaign Celebration on October 2nd, 2014 by India Water Partnership and WAPCOS Ltd. Gurgaon

A country wide campaign has been launched by the Hon'ble Prime Minister of India, Mr. Narendra Modi to clean India by the year 2019. In line with this campaign, India Water

Partnership in collaboration with WAPCOS Ltd, a partner of Global Water Partnership (GWP) took the opportunity to celebrate *SwachtaDiwas* on October 2nd, 2014 all across offices of WAPCOS Ltd. in India and abroad.

Mr. R K Gupta, President, GWP India and Chairman-cum-Managing Director, WAPCOS Ltd. spearheaded the campaign by taking up the pledge to clean the surroundings, offices and streets. He also emphasized that we all should follow up this good habit regularly.

On this day all the employees actively participated in cleaning the office premise and also took the pledge to maintain the cleanliness of their work stations and surroundings.

On this occasion, a special event was also organized at IWP Secretariat, WAPCOS Ltd., Gurgaon where all the employees of IWP and WAPCOS Ltd. joined the campaign.

1.6 Twenty Fifth (25th) Board of Governors Meeting on October 27th, 2014 at WAPCOS Ltd. KailashBuilding, 26 K G Marg, New Delhi

The 25th Board of Governors meeting was held on October 27th, 2014 under the Chairmanship of Mr. R K Gupta, President, IWP & CMD, WAPCOS, Ltd. The meeting was attended by the Board Members as well as Regional Council Members. Dr. Veena Khanduri, Executive Secretary, IWP, presented the progress made under Core Program and WACREP in the previous quarter and briefed about organizing a Regional Conference for all the SAARC countries during India Water Week-2015. The Board was also informed that IWP Secretariat has sent a letter to Secretary, Ministry of Water Resources, River Development & Ganga Rejuvenation or nominating one senior official from the Ministry as Board of Governor of IWP. Besides the above, governance issues were also discussed.

1.7. Participation in Meetings/Seminars/Workshops, etc.

a) Asia- Pacific Climate Change Adaption Forum 2014 from 1st to 3rd October, 2014 at Kuala Lumpur, Malaysia

Mr. Amit Gupta, Sr. Project Manager, WAPCOS Ltd. represented India Water Partnership – GWP India in a three day Asia Pacific Climate Change Adaptation Forum 2014, which was organized by the **Asia Pacific Adaptation Network (APAN)** from 1-3 October 2014, in Kuala Lumpur, Malaysia. Over 600 climate change adaptation scientists, government officials, representatives from civil society organizations, businesses and donors from more than 30 nations in the Asia and the Pacific region gathered in this event to find new solutions to address the impacts of climate change.

Mr. Amit Gupta presented the paper on **“Hydropower - Paving way forward for food security in a changing climate through an assured success mantra "7M" - An Innovative model for accelerated development”** under the theme **Implications of Hydropower for Food Security in a Changing Climate**. The paper was well appreciated and the forum provided a platform for

exchanging of various views and ideas for mitigating the climate change, negative perceptions prevailing across the people about the hydropower were answered and the importance of mitigating, enhancement measures responding to the flipside issues of the hydropower were very well received by the people across region.

b) Regional Council Meeting of GWP South Asia from 10th to 11th October, 2014 at Colombo, Sri Lanka

The 20th Regional Council (RC) Meeting of GWP-South Asia was held on 10th& 11th October, 2014 at International Water Management Institute, Colombo, Sri Lanka. Mr. D K Manavalan, I.A.S (Retd.), Vice-President, IWP participated on behalf of President, IWP. Mr. S C Jain and Dr. K Vijaya Lakshmi participated in the meeting in the capacity of Regional Council members. Dr. VeenaKhanduri, Executive Secretary-cum-Country Coordinator, IWP attended the RC meeting as observer. Brief details of the meeting are given below:

During the 19th R C meeting held at Thimpu, Bhutan, it was proposed to make improvements in the Regional Council structure and Country Water Partnerships governance structure. Accordingly, a Committee was appointed by the Regional Chair to look into the working guidelines. Thereafter, two sub-committees; (i) Program Committee and (ii) Admn.& Finance Committee comprising of three RC members were constituted. Dr. K Vijaya Lakshmi, RC Member was coordinator of Program sub-committee and Mr. S C Jain, R C Member was overall Coordinator of both the committees. The Regional Coordinator was involved in the sub committees under the guidance of Regional Chair where it was deemed fit. It was decided that the Regional Coordinator and WACREP Manager would jointly provide the programmatic update to the program sub-committee every quarter.

During 20th R C meeting, it was decided to nominate new committee members in both sub-committees. The nomination would be sent by the respective Country Water Partnerships to the Regional Council. Besides this discussions were held on GWP-South Asia regional programs, Country Water Partnerships activities and budget both for core and WACREP. Dr. VeenaKhanduri, Executive Secretary-cum-Country Coordinator, IWP presented the 2015 activities and budget for core and WACREP along with the progress markers.

The Senior Network Officer, GWPO and Program Manager WACREP informed that WACREP budget is reduced in 2015 and the total GWP-South Asia budget is Euro 200,000 for all Country Water Partnerships and Regional Office. The budget for India is Euro 40,629. The WACREP Program Manager informed the Country Water Partnerships to send the revised budget as per the ratio suggested by the Regional Office. Accordingly, the revised budget was sent by IWP to Regional Office after reducing the activities.

c) General Assembly Meeting of GWP- South Asia on 12th October, 2014 at Colombo, Sri Lanka

Mr. D K Manavalan, I.A.S (Retd.), Mr. S C Jain, Dr. K Vijaya Lakshmi, Mr. M MVerma, Mr. Avinash Chand Tyagi and Dr. VeenaKhanduri attended the 6th General Assembly (GA) Meeting. In the meeting the minutes of 5th were approved. A special panel discussion was followed after the GA. The panel discussion was for sub-regional consultative group meeting for 7th World Water Forum (WWF), 2015 to be organized at Korea.

The Senior Network Officer, GWPO briefed that lead organizations were identified by Asia Pacific Water Forum (APWF) for each session group at the Asia Pacific Regional kick-off meeting held on 5th June, 2014 for the 7th WWF 2015 Korea. These organizations are in charge of the content and GWP will contribute to the session by organizing Sub Regional Consultative Group Meetings in the regions of GWP-South Asia, GWP-SEA and GWP, China. GWP-SAS will contribute to three session groups on Water & Food Security (lead by FAO), Water related Disasters (lead by ICIMOD) and IWRM (lead by NARBO) by preparing the case studies. Ministry of Water Resources & Drainage, Sri Lanka's has expressed interest in regional process and APWF has requested GWP-SAS to include them in the process.

As per the Regional Office earlier communication, India Water Partnership and Sri Lanka Water Partnership will work on sub-regional case study on IWRM. During the panel discussion, Mr. D K Manavalan, I.A.S. (Retd.) and Dr. VeenaKhanduri suggested that India's perspective on IWRM would be presented by Mr. Avinash Chand Tyagi. It was also decided that considering the current international discussions and regional demand, it is important to share the well summarized good practices which shows how to implement IWRM in context of too much and too little water, too dirty water, climate change and IWRM, capacity building, science and IWRM.

It was agreed that Mr. Avinash Chand Tyagi will work on case study and IWP Secretariat will provide the inputs based on the work carried out by its partners.

c) Representation of IWP in 5th Technical Committee Meeting of India Water Week-2015

Dr. VeenaKhanduri, Executive Secretary, IWP as a member of Technical Committee and Organizing Committee of India Water Week-2015 participated in the 5th Technical Committee Meeting of India Water Week-2015 held on 14th November, 2014 at Central Water Commission, Ministry of Water Resources, Government of India. The meeting was convened under the Chairmanship of Mr. A B Pandya, Chairman Central Water Commission and Organizing Secretary, India Water Week-2015.

Main agenda of the meeting was to (i) finalize the event plan ; (ii) finalize names of lead authors/organizations for various topics of sub-themes; (iii) take decision on a session to be

organized by partner country; Australia; (iv) decision on the side event to be organized by India Water Partnership and GWP-South Asia.

Mr. A B Pandya informed that Australian participation as partner country during India Water Week-2015 is confirmed. Mr. Pandya also informed that now Australian representative Mr. Ryan Thew, First Secretary – Development, DFAT would represent as a member of Technical Committee of India Water Week-2015.

Dr. VeenaKhanduri informed about organizing the IWP-GWP South Asia regional conference in collaboration with SAARC Disaster Management Centre and WAPCOS Ltd. as a side event on **“From Risk to Resilience: South Asia Regional Framework for Sustainable Water Management”** during India Water Week-2015 and asked for a suitable date for this event. The Organizing Secretariat requested IWP to submit a brief note on this event as well as for another event **“The Role of Youth in Sustainable Water Management”** for uploading on IWW-2015 website. Accordingly, both the notes were submitted to the Organizing Secretariat by IWP. The Organizing Secretariat has confirmed the date for organizing the regional conference as **15th January, 2015**.

PART- II: WACREP REPORT

2.1. Augmenting water security and food security of small farmers in the Gundar Basin by rehabilitating or constructing water harvesting tanks

In the month of October, 2014, the following activities were undertaken by India Water Partnership (GWP-India) with the support of Dhan Foundation.

(i) Tank Catchment Zone development for Drinking Water Use

Tirupullani block in Ramanathapuram district in Tamil Nadu falls in the tail region of non-perennial Gundar River basin, one among 17 basins in the State. Being Coastal district, Salinity level in the ground water is exacerbated to rise again by the climate change events. People residing in the district, though provided with drinking water access from Cauvery River and Naripaiyur Sea water conversion plant for drinking water purpose, the regularity and adequacy issues of drinking water access make them largely depend on surface water bodies such as Minor Irrigation tanks and drinking water ponds namely Oorani. DHAN Foundation has already completed all three *Ooranis* under WACREP. Activities carried out in the month of October are as below:

- Out of five tanks under the project, work on two tanks has been completed and work on third tank is under implementation.
- For fourth tank, the project coordination team has received a technical estimate worth of Rs 2.24 lakhs from Alwarkootam village. Field appraisal of the work was done in September 2014 and the technical estimate scrutiny was completed in October 2014.
- The village level Vayalagam (farmers' Association) promoted by DHAN Foundation has opened a bank account jointly operated by the office bearers of the association. In the account, the association has deposited its 15% contribution in cash and resolved to take up 10% labour work in addition to the investment made in purchase of the land. Physical work has already commenced.

(ii) Field appraisal of physical works for construction of new farm ponds

Under this, following activities were carried out in the month of October:

- The technical staff of Chittoor project team visited all five farm ponds site in respective farmer's field and interacted with the concerned farmers about the site for construction of farm ponds.
 - The approximate size of farm pond is having dimension of 15m length, 15 m width and 2 m depth
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- Technical estimate scrutiny of following farm ponds were completed:

Sl.No.	Name of the farmer	Extent of farm holding (acres)	Total cost of estimate (Rs.)	Farmers Share (Rs.)
1.	Ms.K.Gangulamma W/o Srinivasulu, Ramasamuthram Mandal	1.75	20000	10000
2.	Ms.P.Sarasamma W/o Nagaraju	2.43	20000	10000
3.	Mr.G.Venkatareddy S/o Gangulappa	1.75	20000	10000
4.	Mr.B.Venkatareddy S/O Buddareddy	2.40	20000	10000
5.	D.Gangulappa	3.30	20000	10000

(iii) Water Walk in Vaigai Channels for Public to create Awareness

Centre for Urban Resources (CURE), South Zone-India Water Partnership and Madurai Urban Kalanjiam Self Help Groups region had organized an awareness water walk for general public, academicians and students mainly to highlight the plights of degraded channels network, high level of pollution with untreated sewer and dumping of solid wastes by the residents living on the banks. On 25th October 2014, a water walk was organized on the banks of Pandhalkudi Channel. The surplus of Sellur Tank in Madurai city drains its surplus water through this channel to River Vaigai. Poor maintenance and upkeep, lead to water logging, mosquito breeding, incidence of Dengue Fever, bad smells etc. The water walk is one of the mechanism proved to be effective in changing the mindset of people in abusing river network. DHAN Foundation's effort to bring general public awareness in Madurai city was widely covered in newspapers and local TV channels.

(iv) Project Monitoring Meeting

The Chief Executive and Chief Operating officer of Dhanvayalagam (Tank) Foundation conducted monthly review to assess the overall progress of various projects including WACREP on October 14, 2014. A common signage board template was designed to display at the project sites on completion of work incorporating the logo of IWP and GWP-SAS. This was done as a part of transparency and social audit.

Activities planned for November, 2014

- Field Appraisal of Drinking Water Ponds and its impact due to North East Monsoon will be done in the month of November.

- Funds for the five farm ponds construction in Chittoor district will be released in the month of November.
- Field Appraisal of tank to understand the impact of North East monsoon in Gundar basin will be conducted.

2.2 Climate Adaptive Planning, Capacity building and training programs in Bundelkhand Region of Madhya Pradesh

In the month of October, 2014, India Water Partnership with the support of Development Alternatives (DA) undertook the following activities:

(i) National Workshop on Mainstreaming Climate Change Concerns in Planning Processes for knowledge sharing and wider dissemination

DA organized a national roundtable on, “**Mainstreaming Climate Change Concerns in Development Planning Processes**” on 15th October, 2014. The objective of the workshop was to discuss for integrating climate change in development planning with various stakeholders and to share the outcomes of WACREP initiative at national level.

2.3. Assessment of vulnerability to climate change on water resources, commons, agriculture system and animal husbandry in Sinhar watershed in Bhinder Block in Udaipur district of Rajasthan

In the month of October, 2014, India Water Partnership with the support of Action for Food Production (AFPRO) took-up the following activities:

(i) Village level monthly meeting with Core group members

Five village level meetings were organised in Dhawadiya, KhedaFala, Rayla, veripura and Gajpura villages on different dates with core group members including cluster core group and village elders. Total 125 participants were present. Till date 53 village level meetings have been conducted under the project.

(ii) Meeting of Cluster level Committee Members

A ‘cluster level meeting’ with 20 participants from all respective project villages was held at Bhavyadhara Training Centre, Rayla on 30 October 2014. Project progress was reviewed and planning for the next month was done in the meeting. Cumulative eight cluster level meetings have been conducted till October -2014.

(iii) Physical work on selected Private Pasture:

- Stone fencing work at village Kamliya and Chunakawela is ongoing.
- Physical work under Soil and Water Conservation activity on common pasture land of 26.2 ha were done in three villages namely Chunakawela, Raila and Kamliya.
- Grasses and fodder tree production on pasture land has been reported well.

(iv) Farmers Field School(FFS)

FFS works with a selected group of farmers was facilitated by extension workers and skilled farmers who meet once in every week for an entire crop growing season. Following activities were carried during the month:

- 11 farmers who cultivated maize and urad as mixed cropping, got yield of 1420 Kg of maize which is slightly less when compared to previous year of 1480 Kg of maize production. On the other hand, urad yield was good and farmers got 630 Kg additional production of urad.
- Preparation for *Rabi* crops was done with 24 farmers. Farmers involved in the planning were given 25 kg of wheat and 5 kg of gram.
- Under livestock, planning for the buck purchasing and rearing was done in the group meeting at village Veripura. Dr. Mane, an expert on livestock, recommended for the Sirohi breed. The group decided to start with five bucks in rotational manner.

(v) Climatic Vulnerability Assessment and preparation of Climate Vulnerability Matrix:

Approximately 300 farmers participated from 10 villages in awareness program on climate change organized by Rajasthan Collage of Agriculture (RCA) at village Raila under IWP program. Dr. Solanki, Dr. Mundra, Dr. Dhadhich, Dr. Mane, Mr. C P. Chubisa from APNA Sansthan were the organizer and managed the program very well.

Activities planned for November, 2014

- Monitoring of ongoing physical work (Stone fencing) will be continued on private pasture land at Dhawdiya and Kherafala.
 - Consolidation of physical work and distribution of the payments.
 - Village level and cluster level meetings on FFS for adaptation with 3 groups on agriculture, water and livestock (goats) for the review and next planning.
 - Preparing climatic vulnerability assessment report.
 - Regular Village level and cluster level meetings with core group members for review and further planning of the project activities.
 - Data compilation and analysis of household survey and preparation of report.
 - Data Compilation of survey formats of water resources and climate change vulnerability.
 - Planning for fruit plantation as Wadi concept under FFS with 20 farmers.
 - Initiate the well renovation by procurement of the material by the community under FFS water.
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- Follow-up of intercultural operation with farmers for *Rabi* cultivation under FFS agriculture.
- Initiation of homestead cultivation with selected farmers under FFS.
- Planning for the buck purchasing and rearing under FFS livestock.

2.4. Capturing lessons and reflecting for learning - A study on coping mechanisms adopted by rural communities on their traditional wisdom and their relevance for adaptation to climate change, examining how science can add value to traditional/indigenous wisdom and vice versa in the States of Meghalaya & Mizoram

Institute of Development Initiatives started a study on “**Coping mechanisms adopted by rural communities on their traditional wisdom and their relevance for adaptation to climate change, examining how science can add value to traditional/indigenous wisdom and vice versa**” in the States of Meghalaya & Mizoram from June, 2014.

The following activities were undertaken in the month of October:

- A total of six to seven local knowledge systems that are relevant for climate change adaptation were studied and documented during the course of the assignment. These includes
 1. Sustainable fish harvesting as well as rearing practices of War Khasi Tribe,
 2. Indigenous potato storage systems,
 3. Traditional herbal medicine system,
 4. Bamboo drip irrigation and drinking water supply systems,
 5. Live bridge systems using trees on the banks of rivers and streams,
 6. Nature conservation through sacred groves
 7. Traditional weather prediction systems using local knowledge
- Field work commenced in the last week of October that was halted due to heavy rains and flood in the last two months. Discussions have been completed with the identified resource institutions. Case study of the Mawphlang sacred grove in East Khasi hills, which is a repository of threatened species of flora and fauna, and is an excellent example of nature conservation by local communities, is in progress.
- Discussions and meetings with organizations like NEHU, agriculture department and forest department have been completed.

Activities planned for November, 2014

- Documentation of four case studies, along with filming will be completed in the month of November.
 - Case study of Mawphlag sacred grove has begun and will be completed in the month of November.
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2.5. Enhancing the knowledge and capacity of GWP-South Asia Country Water Partnerships and the Regional Water Partnership to promote climate resilient development in the water sector

Identification of inadequacies in existing Reservoir Operation Schedules (ROS) in Sanjay Sarovar Dam and Ghosikhurd Dam and working out a strategy for bringing changes in the ROS

is one of the major tasks under the above activity and the another task amongst the others is **preparation of community led aquifer management plan**. In this regard, India Water Partnership with the support of Gomukh Environmental Trust for Sustainable Development (Gomukh Trust), carried out following activities in the month of October:

- Meetings were held in three villages for sand bed agriculture and sand bed mining, which and was attended Mr. DilipPandhare of Gomukh Trust.
- A case study based on sand bed agriculture and sand bed mining has been prepared.
- A "Group Gramsabha" was held by the gramsabhas of five villages namely Kondurli, Jumna, Pauni, Walni and Junna. The objective of the Gramsabha was to demarcate the area to be allocated to crops for the sand bed agriculture season, and to discuss problems and issues about the sand bed mining that is operating at a short distance from the villages.

Activities planned for November, 2014

- Reservoir Operation Schedules (ROS) deliverables will be finalized in the month of November.
- Work done in the month of July, August and September on conjunctive use of groundwater will be reviewed and followed up.
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2.6 Participation in meetings/seminars/conference etc.

a) Planning Meeting with SAARC Disaster Management Centre (SDMC) New Delhi for organizing the Regional Conference for SAARC Countries under WACREP Phase-I

A planning meeting was held at SDMC on October 8th, 2014 for the preparations of the above conference to be jointly organized by India Water Partnership, SDMC and WAPCOS Ltd. as a side event during the India Water Week, 2015.

Ms. Anjali Verma and Ms. Swati Raghuvanshi from IWP attended this meeting with Prof. Santosh, Director, SDMC. During the meeting a draft position paper prepared by IWP was shared with the Prof. Santosh Kumar for his critical inputs. Based on the discussion the title of

the conference "**From Risk to Resilience: South Asia Framework for water Management**" was finalized and approved by Director, SDMC.

Director, SDMC shared a tentative number of participants for the event and said that SDMC would invite two participants from each of the SAARC nations and IWP would invite one participant from the all the six Country Water Partnerships of GWP South Asia. It was also decided that SDMC will bear the cost of local hospitality (local travel and stay arrangements) and IWP will take care of the airfare. A tentative budget was also worked out based on the funds available with SDMC and IWP. It was realized that more resources are needed to be generated in order to meet the additional cost of the event, which has been worked out to around INR 8-10 lacs. Therefore, it was decided that both IWP and SDMC will look for more partners to share this cost. The meeting ended with a note that one more meeting will held at SDMC on October 27th, 2014 for further planning and preparation.

b) Monitoring and Evaluation Meeting by Prof. M.S. Rathore and Anjali Verma for WACREP Project

On 14th and 15th October, 2014, a visit was undertaken to review the status of work under the project entitled " Identifying Strategies for Building Resilience to the Impact of Climate change in the Wainganga River Basin, Central India" being executed by the Gomukh Trust, Pune.

Prof. Vijay Paranjpye, Chairman, Gomukh Trust shared a number of issues and concerns being faced at the community level and also the seasonal flooding in the project areas due to which the planned activities have been delayed. Overall the meeting was very fruitful as most of the issues listed were clarified by Prof. Paranjpye and he agreed to deliver the outputs by end of October or first week of November.

On October 15, 2014 the team undertook the field visits in the study area to contextualize the discussion done on the previous day and to have a first-hand understanding of the ground realities. It was observed that agriculture sector is changing fast because of the impact of overall changes taking place in the Indian economy and development in the Maharashtra State and in the region hence, it would be good if some of the aspects of agrarian change are captured in the reports to be submitted by Gomukh.
