



Annual Report, 2016-17 of North Eastern Regional Institute of Water and Land Management (NERIWALM), an Institute under the Ministry of Water Resources, River Development & Ganga Rejuvenation, Government of India , (Registered under the Society Registration Act, XXI of 1860. Regd. No. 2575 of 1989-1990)

1. INTRODUCTION:

The North Eastern Regional Institute of Water and Land Management (NERIWALM), a training institute was established in December, 1989 by North Eastern Council (NEC), Ministry of Home Affairs, Government of India at Tezpur. The Institute was registered under Society Registration Act, XXI of 1860. The Institute has been transferred to the Ministry of Water Resources, Govt. of India with effect from April, 2012 in pursuance of a policy decision taken by the Prime Minister's Office (PMO) in October, 2006, while reviewing the role of Ministry of Development of North Eastern Region (DoNER) and NEC. A tripartite agreement was signed in the form of a Memorandum of Understanding between the Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD &GR), Govt. of India, Ministry of Development of North Eastern Region (DoNER), Govt. of India and NEC which lead to transfer of the institute under the MoWR, RD & GR , Govt. of India with effect from April,2012.

The mandate of the Institute is formulated with an overall goal of capacity building and skill enhancement of professionals working in various Government Departments like Irrigation/Water Resources, Agriculture, Horticulture, Soil & Water Conservation, Rural Development etc., Water Users Associations (WUAs), farmers and NGOs for efficient management of water and land resources of North Eastern Region of India. The Institute caters the requirements of all the eight states of North Eastern Region of India namely Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. It has made commendable progress in imparting capacity building programmes at state, regional and national level. To fill the gender gap, Institute also organizes programmes especially for women of the NE Region. It also conducted field researches in farmer's field as well as in Research Farm. The Institute also provide technical back up services by undertaking projects and offer consultancy services in various aspects of water resource management, efficient water use in irrigation management, agricultural and horticultural development, soil and water conservation and sociological parameters etc. NERIWALM also envisages fulfilling the goals of National Water Mission through its various activities.



2. OBJECTIVES OF NERIWALM:

Institute's objectives which are defined in the Memorandum of Association are as follows:

- (a) With a view to promoting advancement of science and acquisition of scientific knowledge to provide instruction/and training in all branches of science, both theoretical and applied, and in Water and Land Management for Irrigation and Agriculture.
- (b) To establish an institute for imparting instructions and training to professionals, farmers, members of Water Users Associations and conducting research in Water and Land Management for Irrigation and Agriculture.
- (c) To prescribe courses in Water and Land Management for Irrigation and Agriculture and hold examinations and grant certificates, diplomas etc.
- (d) To seek affiliation of the said Institute with Universities and other appropriate academic bodies both in India and abroad and to obtain recognition of the said courses conducted at the said Institute and for the said examinations conducted by the Institute and diplomas certificates etc.
- (e) To provide consultancy service to the Government, Local Bodies and other organizations in Water and Land Management for Irrigation and Agriculture.
- (f) To undertake research and conduct experiments in various aspects of Water and Land Management and to collaborate with other organizations for Research and Development.
- (g) To send within the country and abroad for specialized training in Water and Land Management for Irrigation and Agriculture, persons include members of staff of the said Institute and bear pay and the costs of such training.
- (h) To organize, outreach activities like training and capacity building of farmers or members and functionaries of Water Users' Associations (WUAs) with a view to enhancing their technological and managerial capabilities and ensuring their active and effective participation in the development and management of water distribution network in their jurisdiction.
- (i) To set up field centres at key locations to facilitate better coordination with the North Eastern States of India and to support the outreach activities relating to land and water management.
- (j) To network with non-governmental organizations (NOs)/private partners (PP) with a view to carrying outreach activities effectively at the grass root level.
- (k) To start, conduct, print, publish and exhibit any magazines, periodicals, newspapers, books, pamphlets or posters that may be considered desirable for the promotion of the objectives of the Society.
- (l) To invest and deal with funds of the Society.
- (m) To make rules and bye-laws and to make and perform such things for conduct of the affairs of the Society and from time to time add to, amend, vary to rescind them.



3. ORGANIZATIONAL MANAGEMENT:

The Institute management and functioning is under a two tier administration i.e Governing Body (GB) and Executive Council (EC).

The Governing Body (GB) is responsible to frame and formulate policy for NERIWALM and lay directions to the Executive Council. The Hon'ble Minister, MoWR, RD & GR, Govt. of India is the President of the Governing Body. The constitution of the Governing Body is given at **Annexure -1**.

The Executive Council (EC) looks after the administration, finances and technical activities of the Institute and ensures quick development and also reviews the progress of activities of the Institute. The Secretary, MoWR, RD & GR, Govt. of India is the Chairperson of the Executive Council. The constitution of the Executive Council is given at **Annexure -2**.

The Director, NERIWALM is the Member-Secretary for both Governing Body and Executive Council.

4. BROAD AREAS OF TECHNICAL SERVICES:

The broad areas of technical services provided by the Institute are as follows:

- Training to in-service personnels
- Training to farmers and members of Water Users Associations
- Training to NGOs
- Organising seminar, workshop, conference on land and water resources management
- Field research projects, experiments and R&D works

5. MAJOR THRUST AREAS:

The on-going activities of the Institute are taken up with a multi-disciplinary approach in the following thrust areas:

- Irrigation water management
- Integrated water resources management
- Participatory irrigation management
- Soil and water conservation and watershed management
- Command area development and water management
- Multiple cropping and crop diversification
- Women participation in irrigation management



6. INFRASTRUCTURAL FACILITIES:

The Institute is located at the northern bank of the mighty river Brahmaputra at Dolabari near Tezpur town in Assam. The total area of the campus is 08 hectare. It has full-fledged infrastructure facilities within its own campus. A brief description of the infrastructure facilities is reported here.

6.1 Administrative building: NERIWALM has a three storied Administrative building encompassing Administrative and Accounts section, two Faculty blocks, Reprography centre, two classrooms etc. In addition to this, following facilities are also created inside the Institute campus.

6.2 Trainees Hostel: The trainees' hostel has a capacity of 20 double bedded rooms, 3 VIP rooms and 3 deluxe rooms. It also has a meeting hall, a VIP lounge, VIP dining room and a dining hall for trainees. The capacity of the Meeting Hall is around 60 seats with necessary facilities like air-condition, LCD projector and other audio-visual arrangements. The facilities of the hostel are especially meant for the trainees and guest of the institute but for revenue generation sometimes the facilities are rented to officials of state and central governments and visitors on payment basis (Figure: 1).

6.3 Class Room: For conducting in-campus training and other capacity building programmes, two well-equipped class rooms in the administrative building are available (Figure:2). Both the class rooms have air conditioned facility fitted with interactive white boards and LCD projectors.

6.4 Soil and Water Testing Laboratory:

Soil and water parameters for the purpose of agriculture, drinking water, research activities are analysed in the Soil and Water Testing Laboratory of the Institute (Figure:3). The facility of the laboratory can also be used by farmers, students, different organizations and researchers.

6.5 Computational Laboratory:

The Computational Laboratory serves the purpose of conducting hands-on practices during training programmes. The laboratory is equipped with necessary peripherals like series of desktop computers, printers, scanner etc. for carrying out text processing, preparation and printing of reports of different technical activities including day to day works of the



Institute (Figure:4). Different softwares for scientific and technical activities are also available which are used for practical in some of the training programmes of the Institute. It has also internet facilities provided by the NIC, Government of India under National Knowledge Network (NKN) programme and connected with LAN.

6.6 Agro-Meteorological Station:

The Agro-meteorological station was established in the campus in 1999 with the objective of creating agro-met data base for planning agriculture and irrigation activities. The data base thus created are used by government departments/organizations and academic institutions for various purposes. At present data collected for maximum - minimum temperature, rainfall, humidity, average wind speed, evaporation, soil temperature and sunshine hour (Figure: 5).

6.7 Irrigation Laboratory:

The Irrigation laboratory is instrumental in supporting the field activities related to survey, water measurement etc. in connection with water use efficiency, evaluation of irrigation projects and watershed projects etc.

6.8 Research Farm:

Inside the institute's campus the Research Farm with an area of 1.2 ha has been used for the purpose of demonstration of some important horticultural crops of NE region, volumetric measurement of irrigation water, crop experiments etc. The Research farm has two Shallow Tube Wells (STWs) for irrigation of the entire farm with network of lined channels fitted with water measuring devices (Figure: 6).

6.9 Library:

Books on irrigation, hydrology, watershed management, soil conservation, agricultural and horticultural sciences, computer science, remote sensing & GIS, social science, etc. which are necessary for updating scientific knowledge, information, references in preparing training courses, R&D reports are available in the Library (Figure:7). It is opened during office hour to all the staffs of NERIWALM and others. It has a collection of about 4170 books, subscribe 38 national and international journals and various reports and magazines on water and land resources management published by different organizations.



Figure 1: Trainees Hostel of NERIWALM



Figure 2: View of a Class Room of NERIWALM



Figure 3: View of Water Testing Laboratory



Figure 4: Computational Laboratory of NERIWALM



Figure 5: Meteorology Station of NERIWALM



Figure 6: Research Farm of NERIWALM



Figure 7: Assam Type Guest House of NERIWALM



Figure 8: View of Library of NERIWALM



Figure 9: Conference Room of NERIWALM



Figure 10: View of faculty Block of NERIWALM



Figure 11: Satellite imagery of NERIWALM campus at Dolabari, Tezpur (Assam)



6.10 Guest House:

To accommodate the guest and VIPs the Institute has an Assam Type guest house (Figure: 8). It has one suite, two 2 bedded rooms and one 3 bedded room with TVs and Air-conditioning facilities. The guest house is utilized by dignitaries and VIPs visiting the Institute from time to time.

6.10 Conference Room:

The conference room with capacity of 25 seats is fitted with LCD TVs on three sides of the wall for making presentation (Figure: 9). It is also fitted with PA system and air-conditioned. The conference room gives a platform to organize meetings, conferences of the Institute. It is also used on hired basis by other organizations from time to time.

7. VISIT OF IAS OFFICERS:

The newly recruited three IAS officers posted in the Ministry of Water Resources, RD & GR, Government of India visited NERIWALM on 28th September, 2016 as a part of their exposure visit to different ministries and departments. The team of IAS officers had an interaction with the faculty & officers of the Institute on different activities, facilities and other issues related to water and land resources management in the North Eastern India (Figure:12). They had



Figure12: IAS officers interacting with trainees in the Class room

also interacted with the trainees from Arunachal Pradesh which were participating in atraining at class room during the time of their visit to NERIWALM.



8. ACHIEVEMENT OF TECHNICAL ACTIVITIES DURING 2016-17

8.1 TRAINING PROGRAMME:

One of the main objectives of the Institute is to impart training to enhance knowledge, skill and capacity of in-service personnels working in the Departments of Water Resources/Irrigation, Soil Conservation, Agriculture & Horticulture, Rural Development etc. including Water Users Associations (WUAs) and farmers in the NE region of India thereby ensuring their active and effective participation in the development and management of water and land resources. The capacity of the institute has been acknowledged by the MoWR, RD & GR so it was entrusted to conduct inception course on preparation of state specific action plan for water sector for 19 states of India. The subjects and module of the trainings are finalized after getting requirements, comments, views and suggestions from the clientele departments of NE region. This makes the training more need based and tailored the module to the requirement of specific target groups. Institute organizes both in-campus programmes at its campus at Dolabari, Tezpur and off-campus trainings in different locations of NE Region.

During 2016-17, the Institute organized 58 training programmes including awareness programmes/workshops/conferences/seminars. Out of 58 programmes, 37 were conducted as in-campus and 21 as off-campus programmes. Regarding target group, 27 programmes organised for officers, 19 for farmers, 7 for WUAs, 2 programmes for NGOs/SHGs and 3 for student (Table: 01 & Figure:13). The total numbers of persons benefited from these 58 programmes are 2035. The breakup of number of programmes and participants for different target groups is given in Table 1. List of the training/awareness programme organised during 2016-17 is given at **Annexure -3**.

Table 01: Numbers of programmes conducted during 2016-17 and participants of different target groups

Target group	2016-17		% coverage
	No. of programme	Total participants	
Officers	27	734	46.5 (36%)
Farmers	19	597	32.5 (29%)
WUAs	07	264	13 (13%)
NGOs/SHGs	02	70	03 (3%)
Students	03	370	05 (18%)
TOTAL	58	2035	100%

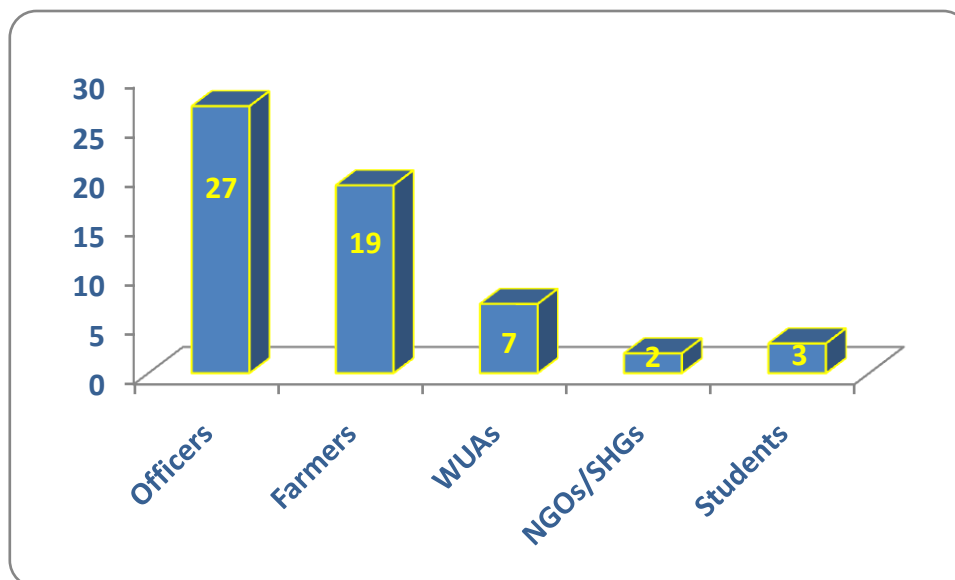


Figure 13: Number of programmes conducted for different target groups during 2016-17

Out of the total participants a number of 594 (29.4%) were women participants. The caste wise representation of participants during 2016-17 is given at Table 02.

Table 02: Participants of different categories of caste during 2016-17

Year	SC	ST	OBC	Gen	Total
2016-17	160 (7.86%)	544 (26.73%)	519 (25.50%)	812 (39.90%)	2035

8.1.1 Sponsored training programmes

Out of the 58 programmes conducted during the year, Institute received sponsorship for 18 training programmes while 40 were conducted from Institute's funds. The achievements of the sponsored trainings programmes during 2016-17 are as follows:

Table 03: Sponsored Training, workshop conducted by NERIWALM during 2016-17

Subject of the training	No. of training	Target groups	Sponsored by
Crop planning in irrigated scenario under PMKSY	02	Farmers of 5 districts of Manipur	ATMA, Department of Agriculture, Government of Manipur
	05	Field functionaries under ATMA of 18 districts of Arunachal Pradesh	ATMA, Department of Agriculture, Government of Arunachal Pradesh
Crop planning in irrigated scenario under PMKSY	03	Officers and field functionaries of 18 districts of Assam	State Agricultural Management Extension Training Institute (SAMETI), Department of Agriculture, Government



			of Assam
Water Management for crop production and crop alignment	01	Progressive farmers of Jowai district, Meghalaya	ATMA, Jowai district, Department of Agriculture, Government of Meghalaya
Water use efficiency in irrigation projects	01	Assistant Executive Engineer/ Assistant Engineer/Junior Engineer of Irrigation Department/ Irrigation and Flood Control Department of Assam and Manipur	National Water Mission (NWM), Ministry of Water Resources, RD & GR, New Delhi Govt. of India
Crop management in irrigated scenario	01	Officers of Agriculture Department and Engineers of Irrigation/WRD of Arubachal Pradesh and Assam	National Water Mission (NWM), Ministry of Water Resources, RD & GR, New Delhi Govt. of India
Inception course on Preparation of State Specific Action Plan (SSAP) for water sector	01	Officers of WRD of Assam, Chhattisgarh, Karnataka, Madhya Pradesh, Maharashtra, Odisha, West Bengal, Uttarakhand and NWM representatives	National Water Mission (NWM), Ministry of Water Resources, RD & GR, New Delhi Govt. of India
Rainwater Harvesting	01	Officers of Agriculture Department, Soil Conservation, Public Health Engineering and Engineers of Irrigation/WRD of Assam and Arunachal Pradesh	National Water Mission (NWM), Ministry of Water Resources, RD & GR, New Delhi Govt. of India
Meeting on Preparation of State Specific Action Plan for Water Sector	01	Representatives of NE states and NERIWALM faculty members	National Water Mission (NWM), Ministry of Water Resources, RD & GR, New Delhi Govt. of India
Women participation in irrigation management	01	Women farmers, members of WUAs of Assam and Meghalaya	National Water Mission (NWM), Ministry of Water Resources, RD & GR, New Delhi Govt. of India
Workshop on “Water use efficiency and performance evaluation studies of irrigation projects”	01	Officers of CWC, New Delhi, Kaliabor Lift Irrigation project, Kaldiya, Dekadong Pahumara, Sukla and Horguti Irrigation projects of Assam and other Officers of Irrigation Department, Assam, faculty and project staff of NERIWALM	National Water Mission (NWM), Ministry of Water Resources, RD & GR, New Delhi Govt. of India



Glimpses of Training programmes conducted during 2016-17





8.2 WORKSHOP

8.2.1 Workshop on “Water use efficiency and performance evaluation studies of irrigation projects”

Evaluation of irrigation projects for increasing water use efficiency is of paramount importance as it is directly linked with increasing performance of irrigation projects, thereby leading to prosperity of the irrigated command area. The importance of evaluation studies, data collection and methodology should be understood by the stakeholders. In this regard, the workshop on **Water use efficiency and performance evaluation studies of irrigation projects** was organised jointly by Central Water Commission, MoWR, RD & GR, Government of India and NERIWALM on **19-20 January , 2017** December at Tezpur. The National Water Academy (NWA) somehow, could not be roped in.

The workshop was inaugurated by Er. S.K. Sahu, Chief Engineer, LGBO, Central Water Commission, Govt. of India, Patna and Director, NERIWALM. In his inaugural speech Shri Sahu dwelt upon strategy, objectives and action plan of National Water Mission of the Ministry of Water Resources, RD & GR which inter-alia also includes increase in water use efficiency by 20%. In this regard the strategies for increasing efficiency in irrigation sector, both by structural and non-structural measures were elaborated by him.

Dr. B.C. Nath, Associate Professor (Agri) of NERIWALM welcomed the participants while doing so he also gave in details about the activities of NERIWALM being carried out under the guidance of MoWR, RD & GR, Government of India.

Er. R.K Sinha, Chief Engineer (POMIO), CWC in his speech informed the participants regarding the role of POMIO, CWC in improving performance of the irrigation project, water budgeting, water audit and performance evaluation which ultimately leads to increase in agricultural production. He was of the view that NE can play a vital role in development of agriculture production of the country.



Figure 14: Er. S.K. Sahu, Chief Engineer, LGBO, Central Water Commission, Govt. of India, Patna and Director, NERIWALM addressing the gathering of the Workshop



Er. Sher Sinha, Director (EWU), CWC highlighted the importance of ‘more crop per drop and har khet ko pani’ now becoming the flagship program of MoWR & RD and GR. He dwelt upon identification of problems and deficiencies in irrigation projects which can be address for increasing performance by way of benchmarking and similar new techniques.

Er. K.K. Jangid, Director (IPO), CWC presented an overview of the irrigation scenario in India, its problems and emphasized the need for improvement in efficiency of irrigation projects in India.

Er. Shamsul Quamer, Assistant Director (EWU), CWC dealt upon the importance of auditing of irrigation project which is needed for reducing the gap between irrigation potential created and irrigation potential utilized. The inaugural programme was concluded with a vote of thanks by Dr. A.C.Debanth, Associate Professor (WRE), NERIWALM.

Altogether, 28 participants representing CWC, New Delhi, officers and field staff of Kaldiya Irrigation project, Kaliabhor Lift Irrigation project, Dekadong Irrigation project, Pahumara Irrigation project, Sukla Irrigation project, Horguti Kaldiya Irrigation project, other Officers of Irrigation Department, Assam, faculty and project staff of NERIWALM recruited for the baseline Studies of NWM took part in the workshop.

In the first technical session, Er. K.K. Jangid, Director (IPO), CWC, New Delhi and Dr. U.M. Hazarika, Assistant Professor, NERIWALM made presentations. In the afternoon session, Er. Sher Sinha, Director (EWU), CWC and Er. Shamsul Quamer, Assistant Director (EWU), CWC, New Delhi made presentations.



Figure 15: Er. K.K. Jangid, Director (IPO), CWC presenting on WUE of irrigation projects in the technical session of the workshop



Figure 16: Er. Sher Sinha, Director (EWU), CWC presenting on performance evaluation of irrigation projects in the technical session of the



A field visit programme was also organized to Kaliabor Lift Irrigation Project, Assam in the morning hour of the second day. All the participants interacted with field functionaries of the schemes and few members of Water Users Associations.



Figure 17: A view CWC Resource Persons with NERIWALM, visiting the Kaliabor Lift Irrigation Project, Assam and deliberating with the Project Officers, State Irrigation Department

The thrust aspects regarding the WUE/PE Studies were deliberated as detailed under:

The methodology and the way to proceed about the WUE/PE Studies were deliberated at length by the CWC Resource Persons with the NERIWALM and other Participants present in the workshop. The significance of PE/WUE Studies was deliberated well in the workshop and role of water Audit and water conservation, Benchmarking, Micro-Irrigation in enhancing the WUE was also expatiated in the workshop. The necessity of Primary data collection was emphasized to produce quality baseline report of further use by the NWM for the efficiency enhancement of the Project.

In this regard, the CWC Resource Persons with NERIWALM, visited the Kaliabor Lift Irrigation Project, Assam and deliberated with the Project Officers, State Irrigation Deptt. and ascertained the availability of secondary data required for the WUE Studies. It is gathered that wealth of requisite data are available with other State Departments like Agriculture, Soil Conservation, CGWB etc. that shall be collected by the NERIWALM through concerted efforts. During the Project visit, the concerned Officers of NERIWALM raised some doubts on the process for collection of the primary data which was clarified to them.

All the primary data, as required for assessment of diversion, conveyance, on-farm and drainage efficiency, IPC/IPU have been explained by the CWC Resource Persons in clear terms which was well understood by the associated faculty members of NERIWALM.

It was also made clear that the WUE/PES reports; not it conformity with the CWC Guidelines and not par-quality shall be naturally liable for rejection and the quality WUE/PES



reports with comprehensive findings and recommendation, in conformity with the ToRs may be ensured by the NERIWALM in future.

8.3 RESEARCH & DEVELOPMENT (R&D) ACTIVITIES

The Institute achieved the objectives defined in the Memorandum of Association of NERIWALM by undertaking R&D activities from different Ministries of Government of India & State Government Departments of NER states and on various aspects of water and land management. During 2016-17, Institute has undertaken the following R&D activities of which progress in brief is given below:

8.3.1 R &D project for Baseline study of Irrigation projects of NE region

National Water Mission (NWM), Ministry of Water Resources (MoWR), RD & GR, Government of India had offered NERIWALM to undertake baseline study for water use efficiency of following five irrigation projects of NE region.

- Pohumara Medium Irrigation Project in Assam (Rs. 23.70 lakh). Inception Report submitted.
- Loktak Major Irrigation Project in Manipur (Rs.52.81 lakh). Inception Report submitted.
- Kaliabor Lift Irrigation project in Assam (Rs. 22.53 lakh). Inception Report submitted.
- Sukla Medium Irrigation Project in Assam (Rs. 32.93 lakh). Inception Report submitted.
- Rupahi Medium Irrigation Project in Assam (Rs.12.79 lakh). Study in this irrigation project could not be taken up due to defunct condition of the irrigation scheme and accordingly reported to NWM.

The Institute has already submitted inception reports for four irrigation projects except the Rupahi medium irrigation project of Assam. Stakeholders workshop as a part of the baseline studies for Water Use Efficiency has been conducted for Loktak Major Irrigation Project of Manipur and Pahumara Medium Irrigation Project of Assam. Stakeholders workshop for other two project i.e. Kaliabor and Sukla Irrigation projects of Assam are also in the process. Out of the total sanctioned amount for the above five projects, NERIWALM received 40% from NWM in two installments i.e., Rs.30.60 lakhs during October, 2015 and Rs.27.30 lakhs during February, 2016.

The outcome of these studies will provide necessary actions to be taken to improve water use efficiency of the irrigation projects in addition to providing necessary baseline information.



8.3.2 Concurrent evaluation of minor irrigation projects in Assam

The institute has conducted concurrent evaluation of 26 minor irrigation projects in Assam and Bodoland Territorial Council (BTC) of Assam implemented under Accelerated Irrigation Benefit Programme (AIBP), as per request of the Department of Irrigation, Government of Assam and Bodoland Territorial Council (BTC). The names of Minor Irrigation projects for concurrent evaluation are presented in Tables 4 & 5:

Table 04: List of completed concurrent evaluation studies conducted for AIBP projects of Assam

Sl. No.	Project name	Type of scheme	Irrigation division
1	Ranighat-ghagraguri	FIS	Kokrajhar
2	Anthaihari bikrapur	FIS	Kokrajhar
3	Longa	FIS	Kokrajhar
4	Athiabo	ELIS	Guwahati
5	Ghogajan	FIS	Guwahati
6	Lungsorjuri	FIS	Guwahati
7	Kapili at Hayang Gaon area point No.2	LIS	Jamuna CAD
8	Khakanjuri	FIS	Nagaon
9	Dighalibeel	FIS	Tezpur
10	Harharijan	FIS	Tangla
11	Kornoi	FIS	Dudhnoi

Table 05: List of completed concurrent evaluation studies conducted for AIBP projects of BTAD areas of Assam

Sl. No.	Project name	Type of scheme	Irrigation division
1	Bathowpuri Swibari	FIS	Borolia
2	Pagladia	FIS	Borolia
3	Karemura Purangolding	FIS	Borolia
4	Jalagaon Dekadong	FIS	Borolia
5	Bengsimari	FIS	Sukla
6	Lantha	FIS	Sukla
7	Jabradong	FIS	Sukla
8	Adola Khasibari	FIS	Tangla
9	Khatdong	FIS	Tangla



10	Pakrital & Khowsumkha	FIS	Tangla
11	Daimasa & Niz Japrabari	FIS	Tangla
12	Burichhatam-Polashguri	FIS	Kokrajhar
13	Dangarkhuti	FIS	Kokrajhar
14	Choutaki Naljibari	FIS	Kokrajhar
15	Bairali-Tablajhora	FIS	Kokrajhar

The study envisages implementation status as per DPR of the project and assessment of present status of irrigation potential created and utilized, command area development, cropping pattern and participatory irrigation management etc. All necessary expenditure will be reimbursed by the Irrigation Department of Govt. of Assam and Bodoland Territorial Council.

8.3.3 NERIWALM as nodal agency of National Water Mission:

NERIWALM is working as Nodal Agency of National Water Mission (NWM), Ministry of Water Resources, RD & GR, Government of India since 16th February 2016 to coordinate Preparation of State Specific Action Plan for Water Sector for 12 States of India in Phase - I. NERIWALM has released installment (40%) of the funds of NWM to nine states namely, Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, Telangana and Uttarakhand. These states have already submitted Status Report to NWM which are under consideration by the respective committee constituted for the purpose. The MoU between Nodal Agency of West Bengal could be signed only during October, 2016, whereas the States of Assam and Chhattisgarh are yet to notify their respective Nodal Agency. Subsequently, NWM also entrusted NERIWALM to coordinate with the remaining North Eastern states of India namely, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. Action has been initiated immediately. Arunachal Pradesh and Meghalaya entered in a MoU with NERIWALM for the purpose during January, 2017 and February, 2017 respectively. The states of Nagaland, Sikkim and Mizoram are also actively considering to notify their respective Nodal Agencies. Fund earmarked for Arunachal Pradesh and West Bengal was received by NERIWALM during last week of March, 2017. Total fund released to the respective states during the financial year 2016-17 is Rs. 172 lakhs. NERIWALM has received 2% of the above amount i.e. Rs. 3.44 Lakhs as management fees.



8.3.4 Inception course on Preparation of state specific action plan for water sector

For the preparation of the State Specific Action Plan (SSAP) on Water Sector an inception course for the Nodal Agencies nominated by the states and officers of the States/ UTs was conducted on 3rd June, 2016 by NERIWALM at Tezpur. The programme was participated by representatives from the 11 states namely, Andhra Pradesh, Assam, Chhattishgarh, Gujarat, Karnataka, Maharashtra, Odisha, Tamilnadu, Telangana, Uttarakhand and West Bengal with absence of Madhya Pradesh. Er. R.K.Sinha, Chief Engineer, (B&BBO), CWC, Shillong and Director, NERIWALM presided the course. Dr. R.C. Jain, Consultant, NWM, MoWR, RD & GR participated as representative from NWM. The strategies for preparing SSAP on Water Sector, time schedule, status report on water resources, availability development and management, preparation of interim report, state specific needs and problems in water sector were discussed in the course.



Figure 18: Shri R.K.Sinha, Chief Engineer, (B&BBO), CWC, Shillong and then Director, NERIWALM and Dr. R.C. Jain, Consultant, NWM with state nodal agencies officers discussing SSAP on water sector in the inception course

8.3.5 Meeting on Preparation of State Specific Action Plan for Water Sector

The Institute organised a meeting on 24th November, 2016 at Tezpur to review the progress of State Specific Action Plan (SSAP) for Water Sector under National Water Mission for the 12 states of India which were funded in the first phase. The meeting also invited 7 states namely Arunachal Pradesh, Manipur, Mizoram, Meghalaya, Nagaland, Tripura and Sikkim to sensitize regarding the preparation of SSAP for water sector. In the meeting Dr. M. Satyanarayana, Advisor (C & M), National Water Mission, Ministry of Water Resources, RD & GR, Government of India reviewed the progress of SSAP for Water Sector. He also deliberated on length the objectives, goal,



Figure 19: Meeting of SSAP for Water sector is in progress



strategy, review and funding pattern etc. for the preparation of SSAP with officials of North Eastern states. The meeting was participated by Er. S. K. Sahu, Director, NERIWALM and officials from States like Arunachal Pradesh, Meghalaya, Nagaland and Tripura. Representatives from Manipur, Mizoram and Sikkim could not attend the meeting.

9 COLLABORATIVE PROGRAMMES:

The 2nd meeting of Executive Council (EC) of NERIWALM held on 29.10.2015 at New Delhi recommended for taking up collaborative works with Assam Agricultural University (AAU), Jorhat and Indian Council of Agricultural Research (ICAR), NER Hill Centre, Barapani. As a follow up action of the recommendations, the Institute had signed Memorandum of Understanding (MoU) with the Assam Agricultural University (AAU), Jorhat for undertaking experiments/demonstrations on in-situ soil moisture conservation technologies developed by AAU and organize trainings for farmers with Krishi Vigyan Kendra's (KVKs) under AAU.

During 2016-17 NERIWALM has taken following activities with AAU: Faculty of NERIWALM and Scientist of AAU visited the command area of Molaibari Lift Irrigation Project, Kamrup district, Assam and held a discussion with the farmers of Molaibari about their cropping pattern, availability of water, present practice of irrigation water scheduling and market linkage etc. They were also motivated to give lands for demonstration of in-situ soil moisture conservation technology developed by AAU. The AAU has introduced a high yielding boro paddy variety "Kanaklota" in Molaibari in one hectare demonstration and necessary irrigation water management technologies have also been demonstrated.

Institute also organized two training programmes for farmers on **"Water Management on Multiple cropping"** in collaboration with Krishi Vigyan Kendra of Barpeta and Sonitpur



Figure 20: Engineer of Irrigation Department, Scientist from AAU and Faculty from NERIWALM interacting with WUAs of Molaibari



Figure 21: A view of resources from NERIWALM and KVK, Barpeta district, Assam interacting with participants in collaborative training programme



districts under AAU.

NERIWALM started collaborative activity with ICAR complex for NE Hills Regions, Umium, Barapani by conducting one day training cum demonstration programme on “**Rainwater Harvesting**” at Klew village in Ri-bhoi district Meghalaya.



Figure 22: Training cum demonstration of rainwater harvesting at Meghalaya

10 SWACHH BAHARAT ABHIYAN:

The Swachh Bharat Abhiyan, a campaign launched by the Government of India to fulfil the dream of Mahatma Gandhi for a Clean India was observed as “**Swachh Pakhwada**” (Cleanliness Fortnight) during 16- 31 March, 2017 by conducting various cleaning activities by all the staff of NERIWALM. The programme was initiated by taking a Swachh Pledge to participate and devote time in keeping the surrounding neat and clean. Activities like awareness programme to students, leaflet distribution, many cleanliness drives in campus and surrounding areas of NERIWALM. Er. S K Sahu, Chief Engineer, LGBO, CWC, Patna who was also holding additional charge of Director, NERIWALM along with Er. PM Scott, Chief Engineer, B&BBO, CWC, Shillong, Sri S K Kataria, Under Secretary of the Ministry of Water Resources, RD & GR, New Delhi have started the cleanliness drive and awareness programmes. The staff of NERIWALM volunteered to clean campus of a School for Physically handicapped persons at Tezpur and also cleaned two local water bodies near Tezpur town. Old files and records were disposed off for making a clean office.



Figure 23: Staff of NERIWALM taking pledge for Swachh Bharat



Figure 24: Staff of NERIWALM cleaning a water harvesting pond at Tezpur



Figure 25: Officers from CWC, MoWR, RD & GR & staff of NERIWALM cleaning irrigation canal at NERIWALM Research



11 PUBLICATIONS

To highlight the Institute's endeavours, activities and achievements during each year, NERIWALM has been publishing regularly its Annual Report since 1997. Institute also brings out reports of R&D activities after their acceptance by the concerned sponsors. The Institute conducts seminar/workshop on various topics at frequent interval at Regional and National level to provide a platform for exchange of technical knowledge and recommendations for future direction and action. Both pre-seminar and post-seminar proceedings are regularly printed. These proceedings are considered as valuable reference materials on various aspects pertaining to development of NE region. Lecture notes compendium for each of the training programmes are being distributed to the trainees as a ready reference. Copies of all these are kept in the library of the Institute for future use and references.

12 ACCOUNTS

Institute has been making expenditure for salary, routine works and technical activities from the spillover/accumulated funds received as grant-in-aid from the North Eastern Council (NEC), Ministry of DoNER, Government of India at the time of its transfer to the MoWR, RD & GR. Budgetary requirement has been sent to the MoWR, RD & GR for obtaining concurrence to make expenditure mostly under recurring head except few under capital head on urgent and unavoidable matters. Grant-in-aid during 2016-17 amounting To **Rs.375.00** lakhs (Rupees three hundred seventy five lakh only) has been received from MoWR, RD & GR under HRD & CB scheme. During 2016-17, an amount of **Rs. 392.08 lakh** (Rupees three hundred ninety two lakhs eight thousand only) has been expended. The Annual accounts of 2016-17 have also been audited by a Chartered Accountant appointed for the purpose. The Balance Sheets and relevant pages of the audited accounts of 2016-17 are enclosed as **Annexure – 4**.

13. STAFF

Out of total 71 sanctioned posts of different categories, only 44 posts are in position and 27 posts of different categories including the post of Director is lying vacant since 1st week of March, 2013. The Chief Engineer, B&BBO, CWC, Shillong, MoWR, RD & GR, Govt. of India was given additional charge of Director, NERIWALM from 07.03.2013 to 31.10.2016 followed by the Chief Engineer, LGBO, CWC, Patna since 01.11.2016. Out of present 44 incumbents, 02 belongs to Schedule Tribes (ST), 08 (including 01 Physically Handicapped) to Schedule Caste (SC), 09 to Other Backward Castes (OBC) and 25 under general category. The list of NERIWALM staff is given at **Annexure -5**.



Annexure -1 (02 pages)

CONSTITUTION OF “GOVERNING BODY” OF NERIWALM

Sl. No.	Designation & Addresses of Office held by the Members	Status
1	Hon'ble Minister of Water Resources (MoWR), Govt. of India, New Delhi	President
2	Minister of State, Water Resources , Govt. of India, New Delhi	Vice-President
3	Member (WR), Planning Commission	Member
4	Minister in-charge CAD, Govt. of Arunachal Pradesh	Member
5	Minister in-charge CAD, Govt. of Assam	Member
6	Minister in-charge CAD, Govt. of Manipur	Member
7	Minister in-charge CAD, Govt. of Meghalaya	Member
8	Minister in-charge CAD, Govt. of Mizoram	Member
9	Minister in-charge CAD, Govt. of Nagaland	Member
10	Minister in-charge CAD, Govt. of Sikkim	Member
11	Minister in-charge CAD, Govt. of Tripura	Member
12	Secretary, MoWR, New Delhi	Member
13	Secretary, Ministry of Agriculture	Member
14	Secretary, Science and Technology	Member
15	Secretary, Ministry of DoNER, Vigyan Bhawan Annexe, New Delhi	Member
16	Secretary, Ministry of Rural Development, New Delhi	Member
17	Secretary, (Department of Expenditures), Ministry of Finance	Member
18	Secretary, Agriculture/Agriculture Production Commissioner, Arunachal Pradesh	Member
19	Secretary, Agriculture/Agriculture Production Commissioner, Assam	Member
20	Secretary, Agriculture/Agriculture Production Commissioner, Manipur	Member
21	Secretary of Agriculture/Agriculture Production Commissioner, Meghalaya	Member
22	Secretary of Agriculture/Agriculture Production Commissioner, Mizoram	Member
23	Secretary of Agriculture/Agriculture Production Commissioner, Nagaland	Member
24	Secretary of Agriculture/Agriculture Production Commissioner, Sikkim	Member



25	Secretary of Agriculture/Agriculture Production Commissioner, Tripura	Member
26	Secretary, in-charge CAD, Govt. of Arunachal Pradesh	Member
27	Secretary in-charge CAD, Govt. of Assam	Member
28	Secretary in-charge CAD, Govt. of Manipur	Member
29	Secretary in-charge CAD, Govt. of Meghalaya	Member
30	Secretary in-charge CAD, Govt. of Mizoram	Member
31	Secretary in-charge CAD, Govt. of Nagaland	Member
32	Secretary in-charge CAD, Govt. of Sikkim	Member
33	Secretary in-charge CAD, Govt. of Tripura	Member
34	Additional Secretary, MoWR, New Delhi	Member
35	Mission Director, National Water Mission, MoWR	Member
36	Secretary ,NEC, Shillong	Member
37	Commissioner, dealing with CADWM, MoWR	Member
38	Commissioner, (B&B), MoWR, New Delhi	Member
39	Joint Secretary & FA, MoWR	Member
40	Vice - Chancellor, AAU, Jorhat, Assam	Member
41	Chairman ,Central Ground Water Board	Member
42	Member, River Management, CWC, New Delhi	Member
43	Chairman Brahmaputra Board, Guwahati	Member
44	Chief Engineer, BBO, CWC, Shillong	Member
45	Director, ICAR, Research Complex Barapani, Shillong	Member
46	Secretary General ,ICID	Member
47	Director, Academic ,RIST, Meghalaya	Member
48	Representatives of a Local level NGO to be nominated by Governing Body for three years	Member
49	Representatives of a National level NGO working in NE states to be nominated by Governing Body for three years	Member
50	Director, NERIWALM	Member-Secretary



Annexure -2

CONSTITUTION OF “EXECUTIVE COUNCIL” OF NERIWALM

Sl. No.	Designation & Addresses of Office held by the Members	Status
1	Secretary, Ministry of Water Resources (MoWR), New Delhi	Chairperson
2	Additional Secretary, Ministry of Water Resources, New Delhi	Vice-chairperson
3	Mission Director, National Water Mission, MoWR, New Delhi	Member
4	Secretary ,NEC, Shillong	Member
5	Chairman ,Central Ground Water Board	Member
6	Commissioner dealing with CAD programmes, MoWR	Member
7	Joint Secretary & FA, MoWR	Member
8	Representative of Planning Commission not below the rank of Joint Secretary, Planning Commission, Yajona Bhawan, New Delhi	Member
9	Secretary in-charge of CAD, Govt. of Arunachal Pradesh	Member
10	Secretary in-charge of CAD, Govt. of Assam	Member
11	Secretary in-charge of CAD, Govt. of Manipur	Member
12	Secretary in-charge of CAD, Govt. of Meghalaya	Member
13	Secretary in-charge of CAD, Govt. of Mizoram	Member
14	Secretary in-charge of CAD, Govt. of Nagaland	Member
15	Secretary in-charge of CAD, Govt. of Sikkim	Member
16	Secretary in-charge of CAD, Govt. of Tripura	Member
17	Chairman, Brahmaputra Board, Guwahati	Member
18	Chief Engineer, B&BO, CWC, Shillong	Member
19	Director, ICAR, Research Complex, Barapani, Shillong	Member
20	Dean (Agriculture), Assam Agriculture University, Jorhat	Member
21	Director, NERIWALM	Member -Secretary



Annexure -3 (04 pages)

LIST OF TRAINING/WORKSHOP CONDUCTED BY NERIWALM DURING 2016-17

Sl. No.	Subject of training	Date	Target group	Venue	No. of Participant
1	Water management in multiple cropping	22-23 April,2016	Farmers of Chandel district, Manipur	NERIWALM, Tezpur	23
2	Water conservation and water management	26 th April,2016	Women of Sonitpur district, Assam	NERIWALM, Tezpur	27
3	Water management in multiple cropping (in collaboration with KVK, Sonitpur district, AAU)	28 th April,2016	Farmers of Sonitpur district, Manipur	KVK, Napam	41
4	Water resource management	28 th April,2016	Farmers of Sonitpur district, Assam	Panchmile, Tezpur	38
5	Water management in multiple cropping (in collaboration with KVK, Barpeta district, AAU)	30 th April,2016	Farmers of Barpeta district, Assam	KVK, Barpeta	41
6	Water conservation and water management	5 th May2016	Women of Sonitpur district, Assam	Singri, Sonitpur	35
7	Organic farming and water management (in collaboration with KVK, Barpeta district, AAU)	13 th May,2016	Farmers of Barpeta district, Assam	KVK, Barpeta	45
8	Industrial training	1-30 June,2016	B Tech ,BE students of NIT/NERIST/Assam University	NERIWALM, Tezpur	20
9	Inception course on Preparation of state specific action plan for water sector (sponsored by NWM, MoWR, RD & GR)	3 rd June,2016	Officers of WRD of Assam, Chhattisgarh, Karnataka, Madhya Pradesh, Maharastra, Odisa, West Bengal, Uttarakhand and NWM representatives	NERIWALM, Tezpur	35
10	Crop planning in irrigated scenario under PMKSY (sponsored by ATMA, Dept. of Agriculture, Manipur under PMKSY)	6-7 June,2016	Farmers of Imphal East and Churhandpur district, Manipur	NERIWALM, Tezpur	26
11	Rainwater harvesting (In collaboration with ICAR, Barapani)	9 th June,2016	Farmers Ri-bhoi district, Meghalaya	Klew, Meghalaya	34



12	Crop planning in irrigated scenario under PMKSY (sponsored by ATMA, Dept. of Agriculture, Manipur under PMKSY)	13-15 June, 2016	Farmers of Tamenglong, Chandel and Ukhrul district of Manipur	NERIWALM, Tezpur	28
13	Awareness programme on PIM	14 th July, 2016	WUAs of upper Assam CADA	Hojai, Assam	30
14	Formulation for Detail Project Report of Irrigation Project	18-22 July, 2016	AE, AEE, EE of Irrigation Department, Assam and EE, SDO, JE of IFCD, Nagaland	NERIWALM, Tezpur	20
15	Water conservation and water management	26 th July 2016	Women of Sonitpur	NERIWALM, Tezpur	33
16	Formulation for Detail Project Report of Irrigation Project	2-6 Aug, 2016	EE, AE, JE, of CADA/IFCD/MID of Manipur	NERIWALM, Tezpur	28
17	Volumetric measurement	9-11 Aug	JE/AE of WRD/Irrigation Department of Nagaland and other NER states	NERIWALM, Tezpur	21
18	Crop planning in irrigated scenario under PMKSY (sponsored by ATMA, Dept. of Agriculture, Arunachal Pradesh under PMKSY)	23-25 Aug, 2016	Field functionaries under PD, ATMA of Tawang/Upper Subansiri/West Kameng /East Kameng/Upper Subansiri/Kurung Kamey of Arunachal Pradesh	NERIWALM, Tezpur	28
19	Crop Water management (in collaboration with AAU, Jorhat)	27 th Aug, 2016	WUAs under Maloibari LIS under Guwahati Irrigation Division	Maloibari	42
20	Water quality management	2-3 Sept, 2016	NGOs under PHED of NER states	NERIWALM, Tezpur	33
21	Increasing water use efficiency in irrigation water management	7-8 Sept, 2016	JE/AE of Eastern zone of WRD, Arunachal Pradesh	Itanagar, Arunachal Pradesh	42
22	Crop planning in irrigated scenario under PMKSY (sponsored by ATMA, Dept. of Agriculture, Arunachal Pradesh under PMKSY)	7-9 Sept	Field functionaries under PD, ATMA of Papum pare/West Siang/East Siang /Upper Siang/Lower Dibang Valley/Dibang Valley of Arunachal Pradesh	NERIWALM, Tezpur	21
23	Awareness programme on SRI	16 th Sept, 2016	Progressive farmers under Sukla division, Lower Assam CAD & Agril Department	Udalguri, Assam	30
24	Command area development and water management	19-20 Sept, 2016	EE, SDO, JE of IFCD, Nagaland	Kohima, Nagaland	30



25	Interaction programme on Water and land management with special reference to PMKSY (sponsored by ATMA, Dept. of Agriculture, Arunachal Pradesh under PMKSY)	25 th Sept,2016	Field functionaries under PD, ATMA of Lohit district, Arunachal Pradesh	NERIWALM, Tezpur	24
26	Crop planning in irrigated scenario under PMKSY (sponsored by ATMA, Dept. of Agriculture, Arunachal Pradesh under PMKSY)	27-29 Sept,2016	Field functionaries under PD, ATMA of Anjaw /Lohit/Namsai /Changlang/Tirap /Longding of Arunachal Pradesh	NERIWALM, Tezpur	26
27	Interaction programme on activities under water sector	28 th Sept,2016	Assistant Secretaries (IAS officers) of MoWR, RD & GR and others	NERIWALM, Tezpur	20
28	Awareness programme on PIM	4 th Oct,2016	WUAs of Golaghat Irrigation Division, Assam	Golaghat, Assam	35
29	Command area development and water management	19-20 Oct,2016	JE,AE, EE of CADA, Manipur	Imphal, Manipur	34
30	Crop water management under PMKSY (sponsored by ATMA, Dept. of Agriculture, Meghalaya under PMKSY)	20 th Oct,2016	Farmers of Jowai, Meghalaya	NERIWALM, Tezpur	11
31	Awareness programme on PIM	21 st Oct,2016	WUAs under CADA, Manipur	Imphal, Manipur	40
32	Increasing water use efficiency in irrigation water management	26-27 Oct,2016	EE/AEE/AE/EE of Goalpara division & Dudhnoi division	Goalpara, Assam	32
33	Overview of Water Sector	3-4 Nov,2016	Non-Technical officers (ASO,SO, US,DS) of MoWR, RD & GR	NERIWALM, Tezpur	7
34	Women participation in irrigation management	16-17 Nov,2016	Women farmers of Lower and Upper Assam CADA and CAD of Manipur	NERIWALM, Tezpur	33
35	Awareness programme on PIM	18 th Nov,2016	WUAs under Goalpara Division, Lower Assam CAD	Goalpara, Assam	55
36	Social Aspects related to irrigation projects	23 rd Nov,2016	WUAs of Upper and Lower Assam CAD	NERIWALM, Tezpur	31
37	Meeting on Preparation of State Specific Action Plan for Water Sector (sponsored by	24 th Nov,2016	Representatives of NE states and NERIWALM faculty members	NERIWALM, Tezpur	25



	NWM, MoWR, RD & GR)				
38	Command area development and water management	29-30 Nov,2016	JE, AE under Lower and Upper Assam CAD	NERIWALM, Tezpur	8
39	Awareness programme on Organic farming and water management	6 th Dec, 2016	WUAs of Lower Assam CAD	Pathsala	31
40	e-Tendering/e-Reverse auction	6-7Dec,2016	Officers and staff of NERIWALM	NERIWALM, Tezpur	24
41	Water use efficiency in irrigation projects (sponsored by NWM, MoWR, RD & GR)	20-22 Dec, 2016	AEE,AE, JE of Irrigation/WRD of NER states	NERIWALM, Tezpur	33
42	Workshop on Water use efficiency and performance evaluation studies of irrigation project (sponsored by NWM, MoWR, RD & GR)	19 -20 Jan,2017	Engineers of CWC, Irrigation Dept/faculty/ project staff under NWM project, NERIWALM	NERIWALM, Tezpur	20
43	Water conservation and water management	24 th Jan,2017	Women of NE region	NERIWALM, Tezpur	33
44	Crop planning in irrigated scenario under PMKSY (sponsored by ATMA, Dept. of Agriculture, Arunachal Pradesh under PMKSY)	30 Jan-1 st Feb,2017	Field functionaries under PD, ATMA of Changlang, Arunachal Pradesh	NERIWALM, Tezpur	10
45	Water conservation and water management	2-3 Feb,2017	Youths organization (NYKS, NSS, SCC, IRCS, Eco clubs)	NERIWALM, Tezpur	37
46	Water Conservation	7 th Feb,2017	Progressive farmers	Gangtok	40
47	Assessment of water resources availability	8-9 Feb,2017	EE,AEE,AE,JE under IFCD, Sikkim	Gangtok	40
48	Crop management in irrigated scenario (sponsored by NWM, MoWR, RD & GR)	14-16 Feb,2017	Working engineers of Irrigation/WRD and officers of Agriculture of NER states	NERIWALM, Tezpur	19
49	Crop management in irrigated scenario (sponsored by SAMETI, Department of Agriculture, Assam)	21-23 Feb,2017	Officers and field functionaries associated with PMKSY	NERIWALM, Tezpur	26
50	Crop management in irrigated scenario (sponsored by SAMETI, Department of Agriculture, Assam)	27 Feb- 1st March,2017	Officers and field functionaries associated with PMKSY	NERIWALM, Tezpur	30



51	Women participation in irrigation management	3-4 March,2017	Women farmers of NE region	NERIWALM, Tezpur	21
52	Organic farming and water management	7 th March,2017	Progressive farmers of NE region	NERIWALM, Tezpur	20
53	Rainwater harvesting (sponsored by NWM, MoWR, RD & GR)	8-10 March,2017	Engineer/officers of WRD/Agriculture & Horticulture/Soil Conservation/ PHED of NE region	NERIWALM, Tezpur	27
54	Crop management in irrigated scenario (sponsored by SAMETI, Department of Agriculture, Assam)	16-18 March,2017	Officers and field functionaries associated with PMKSY	NERIWALM, Tezpur	19
55	Awareness programme on Cleanliness	18 th March,2017	Students & Teachers of Surjyodoy LP, ME & High school at Gotlong, Tezpur	NERIWALM, Tezpur	200
56	Women participation in irrigation management (sponsored by NWM, MoWR, RD & GR)	23-25 March,2017	Women farmers of NE region	NERIWALM, Tezpur	38
57	Awareness programme on Cleanliness	24 th March,2017	Students and Teachers of Collegiate High School, Tezpur	NERIWALM, Tezpur	150
58	Workshop on Cleanliness and waste management	28 th March,2017	Officers of Municipal Board, Pollution Control Board, Bank, Safai Workers and staff of NERIWALM	NERIWALM, Tezpur	85
Total participant					2035



BALANCE SHEET OF NERIWALM (2016-17)

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Annexure -5 (02 pages)

STAFF LIST OF NERIWALM (2016-17)
(Not as per seniority) as on 31st March, 2017

Sl. No.	Name	Designation
*1	Er. Sudhir Kumar Sahu	Director (Additional charge from 01.11.2016 and continuing)
#2	Er. P. Manroi Scott	Director (Additional charge from 12.07.2016 till 31.10.2016)
#3	Er. R.K. Sinha	Director (Additional charge from 8.10.2013 till 12.07.2016)
4	Dr. Amulya Chandra Debnath	Associate Professor (WRE)
5	Dr. Bharat Chandra Nath	Associate Professor (Agri.)
6	Shri Ajoy Kumar Sharma	Assistant Professor (Comp.)
7	Shri Bikramjit Dutta	Assistant Professor (WRE)
8	Dr. Uzzal Moni Hazarika	Assistant Professor (WRE)
9	Shri Saligram Sunar	Assistant Engineer (Civil)
10	Shri Subodh Kumar Barman	Accountant
11	Dr. (Smti) Chandam Victoria Devi	Research Associate (S. Sc.)
12	Shri Manoranjan Nath	Research Associate (Agri.)
13	Shri Ritu Thakur	Research Associate (Agri.)
14	Shri Ramesh Prasad	Assistant Library & Information officer
15	Shri Atul Chandra Kalita	Junior Engineer (Civil)
16	Shri Mahesh Deka	Library & Information Assistant
17	Shri Golap Krishna Khound	Field Assistant (Agri.)
18	Shri Iswar Das	Technical Assistant
19	Smti. Rupali Hazarika	Stenographer
20	Shri Manik Borah	Lower Division Clerk
21	Shri. Mukut Das	Lower Division Clerk
22	Smti. Nirmali Hazarika	Draughtsman Gr. II
23	Shri Hiram Saharia	Stenographer
24	Shri Manik Ch. Das	Stenographer
25	Smti. Dipali Mohan	Stenographer
26	Smti. Sanghamitra Singh	Stenographer
27	Smti. Jaylata Deori Baruah	Stenographer
28	Smti. Rina Singha	Stenographer
29	Shri Abdul Razzak	Staff Car Diver (Ordinary Grade)
30	Shri Moni Kumar Das	Staff Car Diver (Ordinary Grade)
31	Shri Rohit Kattel	Staff Car Diver (Ordinary Grade)
32	Md. Abdul Khalek	Staff Car Diver (Ordinary Grade)
33	Md. Nurul Islam	Multi -Tasking Staff
34	Shri Ghana Kanata Nath	Multi -Tasking Staff
35	Md. Ikramul Hussain	Multi -Tasking Staff
36	Shri Suresh Kumar	Multi -Tasking Staff



37	Shri Amarendra Kumar	Multi -Tasking Staff
38	Md. Abdul Jalil	Multi -Tasking Staff
39	Shri Uttam Kakoti	Multi -Tasking Staff
40	Shri Dilip Bhuyan	Multi -Tasking Staff
41	Shri Badan Chandra Gogoi	Multi -Tasking Staff
42	Shri Chandan Mech	Multi -Tasking Staff
43	Shri Jadav Chandra Nath	Multi -Tasking Staff
44	Shri Bakhun Sarmah	Multi -Tasking Staff
45	Md. Abbas Ali	Multi -Tasking Staff (Expired on 16.10.2016)
46	Shri Khagendra Sarma	Multi -Tasking Staff
47	Smti. Mamoni Borgohain	Multi -Tasking Staff

*Chief Engineer, LGBO, CWC, Government of India, Patna is on additional charge of Director, NERIWALM
 #Two Chief Engineers, B&BBO, CWC, Government of India, Shillong were on additional charge of Director, NERIWALM