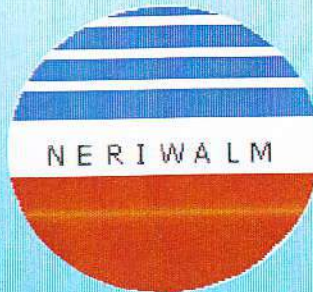




ANNUAL REPORT 2015-16

जल बचत - जल संचय



**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 Societies Registration Act, 1860)

DOLABARI, TEZPUR – 784027, INDIA.

Website : www.neriwalm.gov.in

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Dolabari, P.O. Kaliabhomora, Tezpur - 784 027, Assam (India)

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Annual Report, 2015-16 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) was established at Tezpur, Assam by North Eastern Council (NEC), in December, 1989 when NEC was under the Ministry of Home Affairs, Govt. of India. The Institute's was registered under Society Registration Act, XXI of 1860. After signing a tripartite agreement 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, the Institute was transferred to MoWR, RD & GR, Govt. of India with effect from 1st April, 2012. Since then the Institute is under the administrative control of MoWR, RD & GR, Govt. of India. The Institute is situated in 3km away from the historically famous town of Tezpur, Sonitpur district of Assam which is located on the north bank of mighty river Brahmaputra at about 180 km from Guwahati. It is connected by road, rail and air with other parts of the country.

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 like training, seminar, workshop, conferences in the NE region. To fill the gender gap, Institute also organizes programmes especially of women of the NE Region. It also conducts field researches in farmer's fields as well as in its Research Farm. The Institute also provides technical back-up services by undertaking projects, experiments and offers consultancy services etc. 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 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 resource 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 has full-fledged infrastructure facilities which are developed in its own land of 08 hectare situated in the northern bank of the mighty river Brahmaputra at Dolabari near Tezpur town in Assam.

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

6.2 Trainees Hostel: To serve the trainees and guests the Institute has a trainees hostel of capacity of 20 double bedded rooms, 3 VIP rooms and 3 deluxe rooms. It has also a meeting hall, a VIP lounge, VIP dining room and a large dining hall for trainees. It has also a



Figure 1: Trainees Hostel of NERIWALM

Meeting Hall with necessary facilities like air-condition, LCD projector and other audio-visual arrangements. Institute also earns revenue by letting the trainee's hostel facilities to officials of state and central governments and visitors on payment basis (Figure: 1).

6.3 Class Room:

For imparting in-campus training and other capacity building programme, 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.



Figure 2: View of a Class Room



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 be used by farmers, students, different organizations and researchers.



Figure 3: View of Soil and Water Testing Laboratory

6.5 Computational Laboratory

The Computational Laboratory serves the purpose of conducting hands-on practices during trainings courses. 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

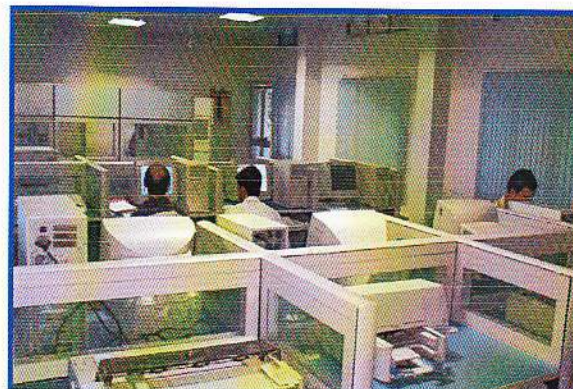


Figure 4: Computational Laboratory of the Institute

(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 of the Institute in 1999 with objectives of creation of agro-met data base for planning agriculture and irrigation activities. The data base also being used by other

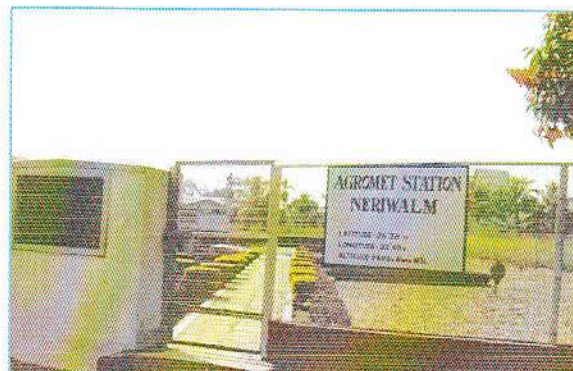


Figure 5: Agro-meteorological station



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 and evaluation of irrigation projects and watershed projects etc.

6.8 Research Farm:

Spreading over an area of 1.2 ha within the Institute's campus lays the Research Farm for the purpose of demonstration of few important horticultural crops of NE region and volumetric measurement of irrigation water, crop experiments etc. to trainees and visitors. The farm has irrigation facilities using ground water through two Shallow Tube Wells (STWs) with net work of lined channels fitted with water measuring devices (Figure:6).



Figure 6: View of the Research Farm

6.9 Library:

Library of the Institute has books related to irrigation, hydrology, watershed management, soil conservation, agricultural and horticultural sciences, computer science, remote sensing & GIS, social science, etc. that are necessary in providing support to the faculty members and scientific staff in getting updated scientific knowledge and information, references in preparing their training materials, R&D reports etc. (Figure:7). It is opened during office hour to all the staffs of NERIWALM and others. It has about 4170 books, various reports



Figure 7: Library of the Institute



and magazines on water and land resources management published by different organizations and subscribing to 38 national and international journals.

6.10 Guest House:

The Institute also 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 has been utilizing by dignitaries and VIPs visiting the Institute from time to time.



Figure 8: Guest House of the Institute

6.11 Conference Room:

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



Figure 9: Conference Room of the Institute

7. MEETING OF EXECUTIVE COMMITTEE:

The second meeting of Executive Committee (EC) of NERIWALM was held on 29th October, 2015 at Shram Shakti Bhawan, Ministry of Water Resources (MoWR), RD & GR, New Delhi. The meeting was chaired by Shri Shashi Shekhar, IAS, Secretary, MoWR, RD & GR, Government of India and Chairperson, EC of NERIWALM. The list of members present in the meeting is given at **Annexure-3**. The meeting reviewed the administrative, financial and technical activities of NERIWALM and suggested actions for further improvement. Meeting stressed upon



speed up the process of finalization of Recruitments Rules, Bye-laws and Memorandum of Association (MoA) of NERIWALM. Thread bare discussion was held on technical activities particularly on capacity building activities like training, conferences, workshop etc. on various issues on water and land resources management pertaining to NE region of India. Meeting suggested for exploring possibility to obtain sponsorship for its different technical activities from National Water Mission, North Eastern Council (NEC), different ministries and organizations of both central and state governments. For expansion of both activities and coverage area, collaboration with organizations working in the NE region like Indian Council of Agricultural Research (ICAR), NER Hill Centre, Barapani and Assam Agricultural University (AAU), Jorhat may be initiated. It was also suggested to chalk out programmes to benefit all sections of stakeholders with due importance to farming community including Water Users Associations (WUAs) and women groups.

8. VISIT OF IAS OFFICERS:

Newly recruited five IAS officers from the Ministry of Water Resources, RD &GR, Government of India made a visit to NERIWALM on 15th October, 2015 as a part of their training in different ministries and departments. The team of IAS officers had an interaction with the Director, and



Figure10: Interaction with of IAS officers

other 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:10).

9. ACHIEVEMENT OF TECHNICAL ACTIVITIES DURING 2015-16

9.1 TRAINING PROGRAMME:

One of the main objectives of the Institute is to impart training to enhance technological and managerial capabilities of professionals working in the Departments of Water Resources/Irrigation, Soil Conservation, Agriculture & Horticulture, Rural Development etc. including Water Users Associations (WUAs) and farmers thereby ensuring their active and effective participation in the development and management of water and land resources. The Institute organized trainings, awareness programmes, workshop and conferences etc. on different



subjects pertaining to water and land management and the list of different subjects is given at **Annexure-4**. The subjects and module of the trainings are decided after getting requirements, comments, views and suggestions from the clientele departments of NE region. Institute organizes both in-campus programmes at its campus at Dolabari, Tezpur and off-campus trainings in different locations of NE Region.

During 2015-16, the Institute organized 52 training programmes including awareness programmes conference/seminar etc. Out of 52 programmes, 29 were conducted as in-campus and 23 as off-campus programmes comprising of 18 for officers, 27 for farmers and WUAs, 6 programmes for NGOs/SHGs and 1 for student (Figure:11). The total numbers of persons benefited from these 52 programmes are 1497. The breakup of number of programmes for different target groups is given in Table 1. List of the training/awareness programme etc. organised during 2015-16 is given at **Annexure -5**.

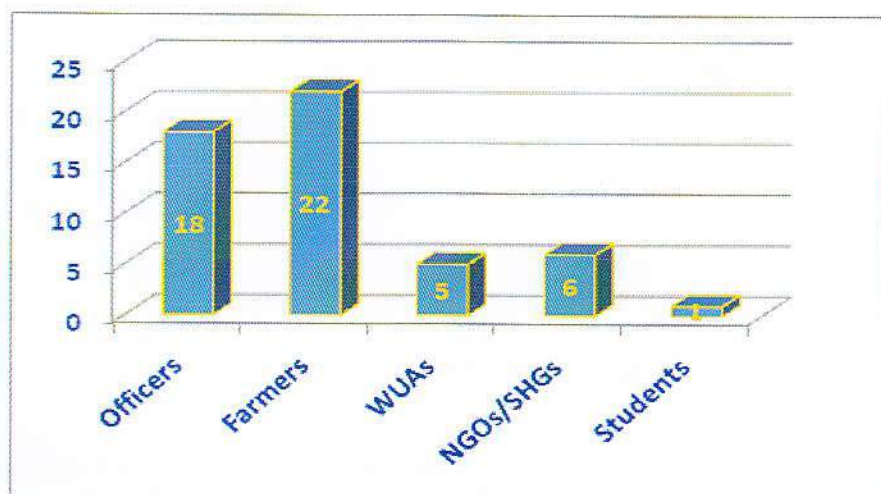


Figure 11: Number of programmes conducted for different target groups during 2015-16

Table 1: Number of programmes conducted for different target groups during 2015-16

Target group	Number of programmes	Total participants	Remarks
Officers	18	402 (26.8%)	22+5+6=33 programmes covering 735+200+152 = 1087 participants are of farmer's category (72.6%)
Farmers	22	735 (49%)	
WUAs	5	200 (13.4%)	
NGOs/SHGs	6	152 (10.2)	
Students	1	08 (0.5%)	0.50%
Total	52	1497	



9.1.1. Sponsored training programmes

Out of the 52 programmes conducted during the year, Institute received sponsorship for 21 programmes while 31 were conducted from Institute's fund. The achievements of the sponsored trainings programmes during 2015-16 are as follows:

Training programmes sponsored by Meghalaya Water Resources Development Agency:

The Meghalaya Water Resources Development Agency (MeWDA), Government of Meghalaya sponsored 12 training programmes on the following subjects for their newly recruited Junior Engineers.

- Irrigation Water Management: 02 nos.
- Command Area Development & Water Management: 02 Nos.
- Water Use Efficiency in Irrigation Water Management: 02 Nos.
- Formulation of Detail Project Report of Irrigation Projects: 02 Nos.
- Micro-irrigation: 02 Nos.
- Water Quality Management: 02 nos.

Training and workshop sponsored by National Water Mission (NWM):

The National Water Mission (NWM), Ministry of Water Resources, RD & GR, Government of India had sponsored 3 trainings and one national workshop to the Institute during 2015-16. The 3 training programmes were conducted on the following subjects.

- **Training of Trainers (ToT) on Water Use Efficiency in Irrigation Water Management** for the members of WUAs of NE Region of India which was participated by 30 farmer members of different WUAs from the States of Assam, Meghalaya, Nagaland and Manipur. Area Development Authority (LA- CADA), Department of Irrigation, Government of Assam participated by 35 participants.
- District level training on **Water Use Efficiency in Irrigation Water Management** for members of WUAs under Lower Assam Command
- Training on **Water Use Efficiency and Water Productivity** for the women farmers and women Self Help Groups (SHGs) of NE region. 35 women participants from the NE region participated.



Training programmes sponsored by Department of Soil Conservation, Government of Assam:

The Project Manager, Integrated Watershed Management Programme (IWMP), Udalguri district, Department of Soil Conservation, Government of Assam sponsored 4 (four) trainings programmes on **Livelihood Enhancement under Integrated Watershed Management Programme (IWMP)**. The institute organised the trainings for 107 person comprises of Secretary, Watershed Committees, members of Self Help Groups under IWMP project area site of Udalguri district of Assam.

Exposure visit sponsored by Meghalaya Water Development Agency

For the first time Institute has organized an Exposure visit programme for farmer members belonging to Water Users' Associations and professionals of Meghalaya. The Programme was sponsored by the Meghalaya Water Resources Development Agency (MeWRDA) , Govt. of Meghalaya. A team of 20 members of Water Users Associations and 2 Junior Engineers nominated by MeWRDA was taken for visit to Water and Land Management Institute (WALMI), Aurangabad, Maharashtra, WALMI, Ananad, Gujarat and Dr. Y.S. Parmar University of Horticulture and Forestry , Nauni, Himachal Pradesh to get acquainted with the better practices of irrigation water management, agriculture and horticulture practices, community organization etc.



Figures 11 & 12: Participants of the Exposure Visit to Maharashtra, Gujarat and Himachal Pradesh conducted by NERIWALM

The programme was conducted from 27th February, 2016 to 15th March, 2016 (Figures 11 & 12). Participants could learn about the functions and management of WUAs, updated techniques of irrigation water management, water saving techniques, collection of water chess and cultivation of multiple cropping in irrigated command in many places of Maharashtra and Gujarat, Horticultural practices in medicinal, aromatic plants, floriculture, vegetables, high value crops like kiwi, apricot, pear, peach, plum and apple etc. in hilly topography in Himachal Pradesh which can be suitably replicated in similar topography of Meghalaya.



Glimpses of Training programmes conducted during 2015-16





9.2 WORKSHOP

9.2.1 National Workshop on “Enhancement of Irrigation Water Use Efficiency and Water Productivity”

Enhancement of irrigation water use efficiency is of paramount importance as it is directly linked with water productivity, thereby leading to prosperity of the region. The irrigation sector consumes the maximum amount of water but water use efficiency in most of the major and medium irrigation projects in India are poor. The average water use efficiency of irrigation projects in the country has been assessed to be only of 30 to 35%. The National Water Mission, Ministry of Water Resources (MoWR), RD &GR, Government of India with a view to fulfill its goal to increase the Water Use



Figure 13 : View of the participants of the National Workshop

Efficiency (WUE) of irrigation projects and water productivity sponsored a National workshop on **Enhancement of Irrigation Water Use Efficiency and Water Productivity** which was organized by NERIWALM during 21-22 January, 2016 at Tezpur. Altogether 50 participants comprises of working engineers and officers belonging to Departments of Water Resources/Irrigation, Agriculture, Soil and Water Conservation of the States of Assam, Meghalaya, Nagaland, Manipur and Odisha, scientists from Indian Council of Agriculture Research (ICAR) for NER Hill Centre, Barapani, Assam Agriculture University (AAU), Jorhat, senior officials of Central Ground Water Board (CGWB), NE regional centre Guwahati, Director & faculty members of NERIWALM and the Adviser (Technical), National Water Mission, MoWR, RD & GR, New Delhi along with members of Water Users Associations participated in the workshop (Figure: 13).

The workshop was started with presentation of the following papers on:

- (i) **“Irrigation Water Use Efficiency in some Major and Medium Irrigation Projects of NE Region”** by Dr. A C Debnath, Associate Professor (WRE), NERIWALM
- (ii) **“Innovative Approaches for Water Resources Management for Sustaining Agricultural Productivity in NE Region of India”** by Dr. D J Rajkhowa, Principal Scientist, ICAR, NER Hill Centre, Barapani, Shillong.



- (iii) **“National Project on Aquifer Management”** by Dr. P Kalita, Superintending Hydrogeologist, CGWB, NER, MoWR, RD & GR, Govt. of India, Guwahati.
- (iv) **“Enhancement of Crop Water Productivity through Proper Irrigation Management of Crops”** by Dr. Ramani Thakuria, Chief Scientist, AICRP on IWM, Assam Agricultural University, Jorhat.

Dr. Joginder Singh, Adviser (Technical), NWM highlighted importance of increasing the WUE in the light of climate change and elaborated the five main goals of NWM, i.e. (i) data generation on water sector, (ii) promotion of people for conservation of water, (iii) attention on vulnerable and exploited areas, (iv) increasing water used efficiency, and (v) promotion of activities on integrated basin level water like groundwater, surface water, drinking water, irrigation water and industry etc. (Figure 14). Er. R.K. Sinha, Chief Engineer, B&BBO, CWC, Shillong & Director, NERIWALM also explained the need for efficient and productive use of water in irrigation sector through equitable distribution of water from head to tail of irrigation command areas.



Figure 14: Dr. Joginder Singh, Adviser (Technical) NWM addressing the gathering of the National Workshop

The representatives of the NER states presented the status of water use efficiency of irrigation projects and functioning of the WUAs in their states. Recommendations adopted in the workshop were sent to all concerned for taking necessary follow up actions. A bound volume of compendium of articles and write up containing guidelines of Government of India schemes on improving water use efficiency, guidelines of Pradhan Mantri Krishi Sinchayee Yojana (PKKSY), Status of irrigation water use efficiency in some major and medium irrigation projects in NE region, activities of the Central Ground Water Board of NE Region and enhancement of crop productivity through better irrigation management of crops was given to all participants.



9.3 RESEARCH & DEVELOPMENT (R&D) ACTIVITIES

The Institute also undertakes R&D activities from different Ministries of Government of India, State Departments of NER states and government organizations on various aspects of water and management. During 2015-16, Institute has undertaken following R&D activities of which progress in brief is given below:

9.3.1. 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 of following five irrigation projects of NE region.

- Pohumara Medium Irrigation Project in Assam (Rs. 23.70 lakh). Inception Report under preparation.
- Loktak Major Irrigation Project in Manipur (Rs.52.81 lakh). Inception Report under preparation.
- Kaliabor Lift Irrigation project in Assam (Rs. 22.53 lakh). Inception Report under preparation.
- Sukla Medium Irrigation Project in Assam (Rs. 32.93 lakh). Inception Report under preparation.
- Rupahi Medium Irrigation Project in Assam (Rs.12.79 lakh). However, 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 started the study for four irrigation projects except the Phumara medium irrigation project of Assam. The project staff on contractual basis has been recruited. Collection of data & information and season wise experiments etc. in the concerned irrigation projects have been taken up. The studies are expected to be completed within stipulated time period of 18 months. 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. After completion of these five baseline studies, more studies are expected from the NWM in coming years.



9.3.2. Concurrent evaluation of minor irrigation projects in Assam

Few irrigation projects have been constructed in the NE Region with financial assistance from Accelerated Irrigation Benefit Programme (AIBP) under MoWR, RD & GR, Government of India. NERIWALM was requested by the Department of Irrigation, Government of Assam to undertake concurrent evaluation studies for five minor irrigation projects during 2015-16. The names of Minor Irrigation projects for concurrent evaluation are as follows.

- Athiabari Electrical Lift Irrigation Scheme (ELIS) under Guwahati Irrigation Division .
- Ghogajan Flow Irrigation Scheme (FIS) under Guwahati Irrigation Division
- Ranighat-Ghagraguri FIS under Kokrajhar Irrigation Division
- Anthaibari Bikarampur FIS Kokrajhar Irrigation Division
- Longa FIS Kokrajhar Irrigation Division.

The study envisages 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.

10 NERIWALM AS NODAL AGENCY OF NATIONAL WATER MISSION:

The National Water Mission (NWM) has engaged NERIWALM as Nodal Agency to coordinate for **Preparation of State Specific Action Plan (SSAP) for Water Sector** due to climate change for 12 States of India in Phase-I. The states selected for Phase-I are Assam, Andhra Pradesh, Gujarat, Maharashtra, Karnataka, Madhya Pradesh, Odisha, West Bengal, Tamilnadu Telengana and two small states namely Uttarakhand and Chattisgarh. NERIWALM has signed a Memorandum of Understanding (MoU) with the NWM on 16th February, 2016 to act as its Nodal Agency to get SSAPs for water sector prepared from the State Governments as per terms and conditions set forth in the MoU. The SSAP for water sector will be prepared by nodal agency nominated by the states. NERIWALM may also enter in to agreements with the respective state i.e. nominated nodal agencies.

Necessary funds required for the purpose will be disbursed by NWM through NERIWALM to notified nodal agencies of the states. NWM will also provide 2% to NERIWALM of total amount disbursed. The major states will get Rs.50.00 lakhs (Rupees fifty lakhs only) and small states will be given Rs.30.00 lakhs (Rupees thirty lakhs only) for preparation of the SSAP for



water sector. Funds will be released in 3 (three) instalments. First instalment @40% will be released just after signing the agreement by the state with NERIWALM. The second and third instalments @30% each will be released after consideration and approval of the action plan by the Steering Committee based on recommendation of the Technical Committee responsible for examination of the same. Director, NERIWALM is also one of the members of both Technical Committee and Steering Committee formed by NWM. An Inception Course on preparation of SSAP for water sector is to be conducted by NERIWALM for nodal agencies nominated by the states and officers of the states. NERIWALM has received Rs.93.84 lakh for 5 states namely, Gujarat, Madhya Pradesh, Karnataka, Maharashtra and Uttarakhand.

11 COLLABORATIVE PROGRAMMES:

The 2nd meeting of Executive Council (EC) of NERIWALM held on 29.10.2015 at New Delhi has instructed to promote **in- situ moisture conservation** through demonstration and organize training on **Water Management Technologies** for crop production in Assam in collaboration with Assam Agricultural University (AAU). NERIWALM has signed a Memorandum of Understanding (MoU) on 17th March, 2016 with the AAU, Jorhat for undertaking experiments/demonstrations in different locations of Assam on in-situ soil moisture conservation technologies developed by AAU. As per the MoU, both the organization will also organize training for farmers with help of Krishi Vigyan Kendra's (KVKs) of AAU on "Water Management in different crops" and "Motivation of farmers (women groups in particular) for irrigated agriculture". Site selection process for demonstration of in-situ moisture conservation technologies has been started jointly by the scientists of AAU and NERIWALM. Several programmes will be taken up at least up to 3 (three) years as per action plan agreed upon by both NERIWALM and AAU.

The 2nd meeting of EC also meeting also instructed for taking necessary activities for promotion of **Rainwater Harvesting** in NE region in collaboration with Indian Council of Agricultural Research (ICAR), NER Hill Centre, Barapani. Necessary initiative has been taken up to identify the locations for the activities for taking up capacity building programmes and demonstration of rainwater harvesting methodologies in farmers' fields of NE Region and preparation of a draft MoU to be signed with ICAR.

12 PUBLICATIONS

To highlight the Institute's endeavours, activities and achievements during each year, NERIWALM publishes regularly its Annual report since 1997. Institute also brings out the reports



on its R&D activities after their acceptance by the concerned sponsors. The Institute conducts seminar/workshop on various topics at frequent interval to provide a platform for exchange of technical knowledge and interaction and recommendations as well as other details are regularly brought out as printed pre-seminar proceedings and post-seminar proceedings. 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 reports etc. are kept in the library of the Institute.

13 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 Ministry of Water Resources (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. During 2015-16, an amount of Rs. 375.04 lakhs (Rupees three hundred seventy five lakhs and four thousand only) under recurring head and Rs.0.32 lakh (Rupees thirty two thousand only) under capital head have been utilized. The Annual accounts of 2015-16 have also been audited by a Chartered Accountant appointed for the purpose. The Balance Sheets and relevant pages of the audited accounts of 2015-16 are enclosed as **Annexure – 6** (total 04 pages).

14 STAFF

Out of total 71 sanctioned posts of different cadres, only 48 posts are in position and 23 posts of different categories including the post of Director is lying vacant since March, 2013. The Chief Engineer, B&BBO, CWC, Shillong, MoWR, RD &GR, Govt. of India has been given additional charge of Director, NERIWALM since 07.03.2013. Out of 48 posts, 02 staff belongs to Schedule Tribes (ST), 08 (including 01 Physically Handicapped) to Schedule Caste (SC), 09 to Other Backward Castes (OBC) and 29 under general category. The list of NERIWALM staff is given at **Annexure -7**.



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	
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	
34	Additional Secretary, MoWR, New Delhi	
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



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

**LIST OF PARTICIPANTS OF SECOND MEETING OF EXECUTIVE COUNCIL (EC) OF NERIWALM HELD
ON 29.10.2015 AT SHRAM SHAKTI BHAWAN, NEW DELHI**

SL. NO.	DESIGNATION & ADDRESS	STATUS
1	Sri Shashi Shekhar, IAS Secretary, Ministry of Water Resources, RD & GR Govt. of India, New Delhi and Chairperson, Executive Council of NERIWALM	Chairperson
2.	Dr. Amita Prasad, IAS Joint Secretary (Administration), Ministry of Water Resources, RD & GR, Govt. of India, New Delhi – 110 001	Member
3.	Sri Jagmohan Gupta Joint Secretary & Financial Adviser, Ministry of Water Resources, RD & GR, Govt. of India, New Delhi – 110 001	Member
4.	Sri Rajat Bhargava, IAS Joint Secretary (RB), Ministry of Water Resources, RD & GR, Govt. of India, New Delhi – 110 001	Special Invitee
5.	Sri Pradeep Kumar Commissioner (SP) Ministry of Water Resources, RD & GR, Govt. of India, New Delhi – 110 001	Member
6.	Sri Jogender Singh, Adviser (Technical) National Water Mission, Ministry of Water Resources, RD & GR, Govt. of India, New Delhi – 110 001	Member
7.	Sri Geyum Padu Secretary, Water Resources Department & in- Charge of CAD, Govt. of Arunachal Pradesh, Itanagar-791 111	Member
8.	Dr. S. V. Ngachan Director, ICAR, Research Complex for NEH Region, Umroi Road, Umiam, Barapani Shillong- 793 103, Meghalaya	Member
9.	Sri W. Nongsiej, Joint Secretary Water Resources Department, Govt. of Meghalaya, Shillong – 793 001	Member
10.	Sri Chaman Lal Vice- Chairman, Brahmaputra Board, Govt. of India, Basistha, Guwahati – 781 029	Member
11.	Sri Brajen Malakar Chairman-Cum-Managing Director, Lower Assam CADA, Department of Irrigation, Govt. of Assam, Guwahati – 781 003	Member
12.	Dr. R. K. Thakuria Chief Scientist, AICRP on Irrigation Water Management, Assam Agricultural University, Jorhat – 785013	Member



13.	Smt. Smita Sarangi, (Representative of IFCD, Nagaland) Joint Resident Commissioner, Nagaland House, Aurangzeb Road New Delhi-110011	Member
14.	Sri J. B. Basnett, SE, Irrigation and Flood Control Department, Govt. of Sikkim, Gangtok – 737101	Member
15.	Sri K. Manoranjan Singh, Additional Chief Engineer, Command Area Development Department, Govt. of Manipur, Imphal – 795 001	Member
16.	Sri B. M. War, Adviser (IFC & WSM), North Eastern Council (NEC), Ministry of DoNER, Govt. of India, Shillong – 793 003	Member
17.	Sri Avinash Mishra, Joint Adviser (WR, E&F), NITI Aayog, Yojna Bhawan, Parliament Street, New Delhi – 110 001	Member
18.	Sri K. B. Biswas, Chairman, Central Ground Water Board, Ministry of Water Resources, RD & GR, Govt. of India, New Delhi- 110011	Member
19.	Er. R K Sinha, CWES Director, NERIWALM, Tezpur -784027	Member- Secretary



Subjects of training programme, Seminar, Conferences, workshops proposed to be conducted by NERIWALM during 2015-16

Sl. No.	Subjects of the training programmes	Target group	No. of Programmes Proposed
1	Irrigation Water Management	EE/AE/JE of WRD & S&WC, MeWDA, Meghalaya	3
2	Water Use Efficiency in Irrigation Water Management	Professional (JE/AE) of MeWDA, Meghalaya and other NE States	3
3	Benchmarking of Irrigation Projects	Professional (JE/AEs/AEEs) of Irrigation WRD of NE States	1
4	Formulation of Detail Project Report of Irrigation Project	Professional (JE/AE) of WRD of NE States	2
5	Command Area Development & Water Management	Professional (field functionaries) of MeWDA, WRD, Meghalaya	2
6	Awareness programme on Participatory Irrigation Management (PIM)	WUA members/ Field functionaries of WRD of all NER	6
7	Application of RS & GIS in Water and Land Management	EE/AE/JE of WRD & S&WC, MeWDA, Meghalaya	2
8	Micro-irrigation	JE/AE of MeWDA, WRD, Meghalaya	2
9	Women participation in Irrigation Management	Women members of WUA and progressive women farmers	2
10	Water Quality Management (WQM)	Officials of PHED /NGOs associated with WQM activities	3
11	Crop Management in Irrigated Scenario	Professionals Irrigation and Agricultural departments	1
12	Rain Water Harvesting	Professional of departments of PHED, SWC, DRDA, Agriculture/Horticulture	1
13	Multiple Cropping System	Farmers of NE states	2
14	Organic Farming and Water Management	Professionals of Agricultural department	1
15	System of Rice Intensification (SRI)	Progressive Farmers	3
16	Industrial Training/Summer training/Internship course in fulfilling the BE/B Tech degree	For the final year students of Assam Engineering College, CAU, NERIST, Nagaland University and GIMT, Tezpur etc.	1
New subjects introduced			
17	Data Collection and Management	EE/AE/JE of WRD/Irrigation departments	1
18	Volumetric Measurement of Water in Irrigation Projects	JE/AE of WRD/Irrigation departments of NE Region (NER) of India	1
19	Canal Operation and Automation	JE/AE of WRD/Irrigation departments of NE Region (NER) of India	1
20	Realization of Irrigation Service Charges	JE of WRD/Irrigation departments of NE Region (NER) of India	1
21	Water Management: Issues and Remedies	JE/AE of WRD/Irrigation departments of NE Region (NER) of India	1



22	Design of Barrage /weirs and canal	JE/AE of WRD/Irrigation departments of NE Region (NER) of India	1
23	Social Aspects related to Irrigation Projects	Progressive farmers of NE states	1
24	Water Use Efficiency and Water Productivity	JE/AE of WRD/Irrigation departments of NE Region (NER) of India	1
25	Water Management in Multiple cropping System	Field functionaries of Agril. Department, Assam and farmers	5
26	Livelihood Enhancement under Integrated Watershed Management Programme	WC/UGs/SHG under centrally sponsored IWMP projects	3
27	Restoring Water bodies to secure livelihood and promote conservation	Field functionaries and farmers	2
Seminar, conferences, workshop etc.			
28	Regional Seminar on "Data Collection and Management"	Working Engineers of Irrigation/WRD departments of NE States	1
29	Inception workshop of the project on "Baseline Studies for Water Use Efficiency" of few Irrigation projects of NE Region	Engineers/Field Functionaries & WUAs working under Sukla and Loktak Major Irrigation Projects, Rupahi and Pohumara medium projects and Kaliabor LI project	5
30	National workshop on "PIM and better management of Water Resources" of all stake holders	Stakeholders of Irrigation projects of NER states	1
Total			60



List of training, workshop etc., conducted by NERIWALM during 2015-16

Sl. No.	Subjects of training	Date/Duration	Target group	Venue	No. of participants
1	Livelihood Enhancement under IWMP (Sponsored by WCDC, IWMP, Udalguri, Assam)	23-27 April, 2015	WS/WC/SHG/ UGs of Udalguri Soil Conservation, Assam	NERIWALM, Tezpur	25
2	Water Quality Management	12-14 May, 2015	NGOs of Assam & Manipur	NERIWALM, Tezpur	16
3	System of Rice Intensification (SRI)	15 -16 May, 2015	Farmers of Sonitpur & Dhemaji districts, Assam	NERIWALM, Tezpur	19
4	Livelihood Enhancement under IWMP (Sponsored by WCDC, IWMP, Udalguri, Assam)	19-23 May, 2015	USGs/SHGs of Udalguri Division of Soil Conservation, Assam	NERIWALM, Tezpur	29
5	Livelihood Enhancement under IWMP (Sponsored by WCDC, IWMP, Udalguri Division, Assam)	26-30 May, 2015	SHGs & UGs of IWMP, Udalguri Soil Conservation Division, Assam	NERIWALM, Tezpur	33
6	Summer Training/Hands on Training on Irrigation management/soil water conservation	2 June – 1 st July, 2015	B Tech (Agril. Engineering) / BE (Civil) students of NE region of India	NERIWALM, Tezpur	08
7	Awareness on PIM	17 June, 2015	Professionals of MID, Manipur	Imphal, Manipur	41
8	Women participation in Irrigation	18, June 2015	Women farmers under MID, Manipur	Imphal, Manipur	42
9	Irrigation Water Management (Sponsored by MeWDA, Meghalaya)	29 June- 1 July, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	30
10	Command Area Development & WM (Sponsored by MeWDA, Meghalaya)	2 – 4 July, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	30
11	Women participation in Irrigation	2 July, 2015	Women farmers of	NERIWALM, Tezpur	19
12	Water Use Efficiency in Irrigation Water Management (Sponsored by MeWDA, Meghalaya)	6-10 July, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	30
13	ToT on Water Use Efficiency in Irrigation Water Management (sponsored by NWM, Govt. of India)	14-16 July, 2015	Members of WUAs of NE Region of India	NERIWALM, Tezpur	30
14	Awareness programmes on Participatory	21 July, 2015	JE/AE/EE of Nagaon Irrigation Circle, Assam	Nagaon	30



	Irrigation Management (PIM)				
15	Water Use Efficiency in Irrigation Water Management (sponsored by NWM, Govt. of India)	23-25 July, 2015	Members of WUAs under Lower Assam CADA	District HQ of Barpeta district of Assam	35
16	Water Use Efficiency and Water Productivity (sponsored by NWM, Govt. of India)	5-7 August, 2015	Women groups & women SHGs of NER	NERIWALM, Tezpur	35
17	Awareness programmes on Participatory Irrigation Management (PIM)	13 August, 2015	Members of WUAs under Lakhimpur Circle, Irrigation department, Assam	North Lakhimpur	30
18	Water Use Efficiency in Irrigation Water Management (Sponsored by MeWDA, Meghalaya)	7-11 Sept, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	18
19	Organic Farming System and Water Management	8 September 2015	Farmers of Barpeta district, Assam	Barpeta, Assam	35
20	System of Rice Intensification (SRI)	9 September, 2015	Farmers of Barpeta district, Assam	Barpeta, Assam	35
21	Organic farming and Water Management	10 September 2015	Farmers of Darrang district, Assam	Mangaldoi, Assam	36
22	Command Area Development & WM MeWDA (Sponsored by MeWDA, Meghalaya)	14-16 Sept, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	18
23	Irrigation Water Management (Sponsored by MeWDA, Meghalaya)	17-19 Sept, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	18
24	Volumetric measurement of irrigation water	22-24 Sept, 2015	JE/AE/EEs of WRD/Irrigation departments of NER	NERIWALM, Tezpur	06
25	Livelihood Enhancement under IWMP (Sponsored by WCDC, IWMP, Udalguri, Assam)	5-9 Oct, 2015	WS/WC/SHGUGs of Udalguri Soil Conservation, Assam	NERIWALM, Tezpur	20
26	Multiple Cropping System	6 October, 2015	Farmers of Arunachal Pradesh	Itanagar	35
27	Data collection and management	13-14 October, 2015	JE/AE/EEs of WRD/Irrigation departments of NER	NERIWALM, Tezpur	10
28	Women participation in irrigation management	16-17 Oct, 2015	Women farmers of Sibsagar district	NERIWALM, Tezpur	12
29	Benchmarking of Irrigation Projects	3-5 November, 2015	JE/AE/EEs of WRD of Tripura	Agartala, Tripura	31



30	Realization of Irrigation Service Charges	6 November, 2015	Members of Water Users committees and Field functionaries of WRD, Tripura	Agartala, Tripura	36
31	Formulation of Detail Project Report of Irrigation Projects (Sponsored by MeWDA, Meghalaya)	17-21 Nov, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	25
32	Micro-irrigation (Sponsored by MeWDA, Meghalaya)	23-24 Nov, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	25
33	Water Quality Management (Sponsored by MeWDA, Meghalaya)	26-28 Nov, 2015	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	25
34	Social Aspects related to Irrigation projects	30 November, 2015	Women farmers associated with irrigation activities of NE region of India	NERIWALM, Tezpur	33
35	Awareness programme on PIM	09 December, 2015	Maloibari LIS under Guwahati Irrigation Division	Maloibari	41
36	Command Area Development & WM	15-16 December, 2015	JE/AE/EEs of MID, Mizoram	Aizawl, Mizoram	32
37	Awareness programme on PIM	17, December, 2015	Members of WUAs and field functionaries of MID, Mizoram	Aizawl, Mizoram	32
38	Awareness programme on "Water Management in Multiple Cropping"	4 th January, 2016	Farmers of Barpeta District	Barpeta, Assam	35
39	Awareness programme on "Water Management in Multiple Cropping"	6 th January, 2016	Farmers of Sonitpur District	NERIWALM, Tezpur	28
40	Awareness programme on "Water Management in Multiple Cropping"	8 th January, 2016	Farmers of Nalbari District	Nalbari, Assam	45
41	National Workshop on "Enhancement of Irrigation Water Use Efficiency" sponsored by NWM, MoWR, RD & GR	21-22 January, 2016	All Stakeholders of departments of Irrigation, Agriculture, Soil Conservation of NE States, AAU, ICAR, CGWB, WRD of Odisha	NERIWALM, Tezpur	50
42	Awareness programme on "Water Management in Multiple Cropping"	25 January, 2016	Farmers of Nagaon District	EE (Agriculture) Office of Senchua, Nagaon Assam	40
43	Awareness programme on "Water Management in Multiple Cropping"	29 January, 2016	Farmers of Morigaon District	AEE (Agriculture) Office of Morigaon	43



44	Awareness programme on "Water Management in Multiple Cropping"	5 February, 2016	Farmers of Nagaon District	EE (Agriculture) Office of Senchua, Nagaon Assam	40
45	Awareness programme on "Participatory Irrigation Management"	11 February, 2016	WUAs members of Morigaon Irrigation Division	Biha, Morigaon	35
46	Formulation of Detail Project Report of Irrigation Projects (Sponsored by MeWDA, Meghalaya)	16-20 February, 2016	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	12
47	Water Quality Management (Sponsored by MeWDA, Meghalaya)	22-24 February, 2016	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	09
48	Micro-irrigation (Sponsored by MeWDA, Meghalaya)	25-26 February, 2016	JEs of MeWDA, WRD, Meghalaya	NERIWALM, Tezpur	09
49	Exposure Visit	27 Feb – 15 th March, 2016	Farmers/WUAs of Meghalaya	Maharashtra, Gujarat, New Delhi, Himachal Pradesh	24
50	Awareness programme on "Participatory Irrigation Management"	29 Feb, 2016	WUAs members of Biswanath Irrigation Division, Assam	Biswanath Chariali	53
51	Awareness programme on "Water Management in Multiple Cropping"	15 March, 2016	Farmers having STW of Dalgaon Agril. Sub-division	Dalgaon	40
52	Awareness programme on "Water Conservation and Water Management"	18 th March, 2016	Women of Sonitpur district nominated by Tezpur District Mohila Somiti	NERIWALM, Tezpur	29
Total participants					1497



Annexure -6 (i)

RAJ KUMAR NAHATA & CO.
Chartered Accountants

B.B. Complex, N.B. Road
Near Ananta Cinema Hall, Tezpur
Tel:- 225178 (O); 223155 (R); 9435081355 (M)

NORTH EASTERN REGIONAL INSTITUTE OF WATER AND LAND MANAGEMENT
Dolabari, Tezpur, Assam

Balance Sheet as on 31st March, 2016

Liabilities	Amount		Assets	Amount	
	Current Yr	Previous Yr		Current Yr	Previous Yr
<u>Capital Fund</u> (As per Details -1)	122,433,431	169,402,044	<u>Fixed Assets</u> (As per Details -3)	75,015,472	81,711,589
<u>Outstanding Liabilities</u> (As per Details -2)	1,121,578	1,050,550	<u>Capital Work in Progress</u> (As per Details -4)	16,339,707	16,339,707
			<u>Current assets, Loans & Advances</u> (As per Details -5)	683,875	661,038
			<u>Contribution to Corpus Fund</u> (As per Details -6)	12,165,230	15,926,244
			<u>Cash & Bank Balance</u>		
			Cash in Hand	-	-
			Imprest	-	1,000
			UCO Bank, Panchmile Br.	15,082,599	54,117,947
			State Bank of India, Tezpur	4,268,125	1,695,070
	123,555,009	170,452,594		123,555,009	170,452,594

Signed in terms of my report of even date attached.

Date :- 23-11-2016
Place :- Tezpur

For Raj Kumar Nahata & Co.
Chartered Accountants



Raj Kumar Nahata

Raj Kumar Nahata
(Proprietor)
M No 097462
FRN- 325770E



Annexure -6 (ii)

RAJ KUMAR NAHATA & CO.
Chartered Accountants

B.B. Complex, N.B. Road
Near Ananta Cinema Hall, Tezpur
Tel:- 225178 (O); 223155 (R); 9435081355 (M)

NORTH EASTERN REGIONAL INSTITUTE OF WATER AND LAND MANAGEMENT
Dolabari, Tezpur, Assam

Income & Expenditure Account For the year ended 31st March, 2016

Expenditure	Amount		Income	Amount	
	Current Yr	Previous Yr		Current Yr	Previous Yr
To <u>Administrative Expenses</u>			By <u>Other Receipts</u>		
" Salary	24,727,038	24,191,903	" Interest on SB	151,398	634,784
" Employees Provident Fund	2,585,633	2,588,295	" License Fees	155,882	168,090
" LTC	15,509	481,524	" Electric Charges	264,968	261,286
" Medical Expenses	294,931	255,131	" Miscellaneous Receipt	22,715	18,937
" Recreation Club	13,660	14,700	" Garage Charges	4,268	3,696
" Travelling Allowance	481,313	547,139	" Utility of Infrastructure	277,701	263,695
" Rent, Rates & Taxes	95,727	173,369	" Tender Fees	5,700	5,500
" Wages	112,064	110,880	" Profit on Sale of Vehicle	123,982	-
" Office Expenses	544,502	448,162			
" Energy Charges	1,656,342	1,713,792	" Deficit for the year	46,968,613	45,683,609
" Other Charges	-	10,128			
" Bank Charges	2,573	4,463			
" Educational Expenses	484,535	493,168			
<u>Repair & Maintenance</u>					
" Vehicle	440,639	456,964			
" Infrastructure	5,333,669	4,760,709			
" Training Seminar & Workshop	571,351	1,232,789			
" Library & Information	42,561	109,025			
" Research & Publication	213,804	29,985			
" Depreciation	8,734,865	9,417,471			
" Accumulated Depreciation on old Vehicles	1,624,511	-			
	<u>47,975,227</u>	<u>47,039,597</u>		<u>47,975,227</u>	<u>47,039,597</u>

Signed in terms of my report of even date attached.

Date :- 23-11-2016

Place :- Tezpur

For Raj Kumar Nahata & Co.

Chartered Accountants

Raj Kumar Nahata

Raj Kumar Nahata

(Proprietor)

M. No. 097462

FRN- 325770E



RAJ KUMAR NAHATA & CO.
Chartered Accountants

Annexure - 6 (iv)
B.B. Complex, N.B. Road
Near Ananta Cinema Hall, Tezpur
Tel:- 225178 (O); 223155 (R); 9435081355 (M)

NORTH EASTERN REGIONAL INSTITUTE OF WATER AND LAND MANAGEMENT
Dolabari, Tezpur, Assam

Details of Fixed Assets & Depreciations -3

Sl no.	Particulars					Depreciation		
		As on 1-4-15	Addition	Deduction	Total	Rate	For the Year	As on 31-3-16
1	Buildings	72,606,929	-	-	72,606,929	10%	7,260,693	65,346,236
2	Furniture & Fittings	999,537	-	-	999,537	10%	99,954	899,583
3	Office Equipments	1,253,628	-	-	1,253,628	15%	188,044	1,065,584
4	Laboratory Equipments	1,464,270	-	-	1,464,270	15%	219,641	1,244,630
5	Tools, Training, Equipments & Other Equipments	2,008,895	32,370	-	2,041,265	15%	306,190	1,735,076
6	RRE Equipments	54,019	-	-	54,019	15%	8,103	45,916
7	Remote Sensing Equipments	209,562	-	-	209,562	15%	31,434	178,128
8	Computer Equipments	1,753	-	-	1,753	60%	1,052	701
10	Vehicles	149,982	2,136,503	130,124	2,156,361	15%	323,454	1,832,906
11	Roads & Culverts	136,344	-	-	136,344	10%	13,634	122,710
12	Furnishing of Administrative Building	1,136,389	-	-	1,136,389	10%	113,639	1,022,750
13	Furnishing of Trainees Hostel	1,690,280	-	-	1,690,280	10%	169,028	1,521,252
TOTAL		81,711,589	2,168,873	130,124	83,750,337		8,734,865	75,015,472





Annexure -7 (02 pages)

STAFF LIST OF NERIWALM (2015-16)

(Not as per seniority)

Sl. No.	Name	Designation
*1	Er. R.K. Sinha	Director (Additional charge from 8.10.2013 till 11.07.2016)
2	Dr. Amulya Chandra Debnath	Associate Professor (WRE)
3	Dr. Bharat Chandra Nath	Associate Professor (Agri)
4	Sri Ajoy Kumar Sharma	Assistant Professor (Comp.)
5	Sri Bikramjit Dutta	Assistant Professor (WRE)
6	Dr. Uzzal Moni Hazarika	Assistant Professor
7	Dr. Arup Kumar Deka	Assistant Professor (Resigned on 09.07.2015)
8	Sri Saligram Sunar	Extra Assistant Director
9	Dr. (Mrs)Chandam Victoria Devi	Research Associate (S. Sc.)
10	Sri Manoranjan Nath	Research Associate (Agri)
11	Sri Ritu Thakur	Research Associate (Agri)
12	Sri Subodh Kumar Barman	Accountant
13	Sri Ramesh Prasad	Assistant Librarian
14	Sri Atul Chandra Kalita	Junior Engineer (Civil)
15	Sri Mahesh Deka	Library & Information Assistant
16	Sri Golap Krishna Khound	Field Assistant (Agri)
17	Sri Iswar Das	Technical Assistant
18	Mrs. Rupali Hazarika	Stenographer Gr-III
19	Sri Manik Borah	LDC
20	Sri Mukut Das	LDC
21	Mrs. Nirmali Hazarika	Draughtsman Gr. II
22	Sri Manik Ch. Das	Stenographer Gr-III
23	Mrs. Dipali Mohan	Stenographer Gr-III
24	Sri HIRAK Saharia	Stenographer Gr-III
25	Mrs. Jaylata Deori Baruah	Stenographer Gr-III
26	Mrs. Rina Singha	Stenographer Gr-III
27	Mrs. Sanghamitra Singh	Stenographer Gr-III
28	Sri Abdul Razzak	Driver
29	Sri Rohit Kattel	Driver
30	Sri Moni Kumar Das	Driver
31	Md. Abdul Khalek	Driver
32	Sri Ghana Kanata Nath	MTS
33	Md. Nurul Islam	MTS
34	Md. Ikramul Hussain	MTS
35	Md. Abdul Jalil	MTS
36	Sri Suresh Kumar	MTS
37	Sri Amarendra Kumar	MTS
38	Sri Chandan Mech	MTS
39	Md. Abdul Kadir	MTS (Expired on 01.02.2016)
40	Sri Someswar Nath	MTS (Expired on 27.04.2015)



41	Sri Dilip Bhuyan	MTS
42	Sri Badan Chandra Gogoi	MTS
43	Sri Jadav Chandra Nath	MTS
44	Sri Uttam Kakoti	MTS
45	Sri Khagendra Sarma	MTS
46	Sri Bakhun Sarmah	MTS
47	Md. Abbas Ali	MTS
48	Smt. Mamoni Borgohain	MTS

*Chief Engineer, CWC, B&BBO, Government of India, Shillong is on additional charge of Director, NERIWALM

NORTH EASTERN REGIONAL INSTITUTE OF WATER AND LAND MANAGEMENT
(NERIWALM), Dolabari, Tezpur - 784 027

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