

Brief Report of ToT programme on “Water Use Efficiency and Irrigation Water Management” conducted by NERIWALM at Tezpur during 14-16 July 2015 sponsored by National Water Mission, MoWR, RD & GR, Govt. of India

SALIENT FEATURES OF THE ToT:

(A) Objectives:

The National Water Mission envisages empowerment and involvement of Water Users Associations (WUAs) and other stakeholders in promoting participatory irrigation management and better management of water resources with focus on water conservation, presentation and augmentation. In this connection, a three day long **Training of Trainees (ToT)** on **Water Use Efficiency and Irrigation Water Management** for selected office bearers of Water Users Associations (WUAs) of NE region states was conducted by NERIWALM during 14-16 July, 2015 in its campus at Tezpur. The programme was sponsored by National Water Mission, MoWR, RD & GR, Govt. of India. The ToT was focused upon efficient use of irrigation water, crop water requirement, government policies and subsidy, water accounting, booking and procedures to run WUAs, micro irrigation etc. as per the objectives of National Water Mission.

(B) Number of participants:

Altogether 30 Nos. of office bearers of WUAs from the following NE region states of

1. Assam,
2. Meghalaya,
3. Manipur and
4. Nagaland

participated in the ToT. **No women participation.**

(C) Opening Session:

The ToT was started with an opening session to interact by the resource persons of NERIWALM to understand activities of the participants and level of their experiences in irrigation water management. They were explained about objectives of the ToT and their role after the training that they have to disseminate the knowledge/skills earned during the programme among other members of WUAs to make them familiar with the concept of irrigation water management to increase water use efficiency.

(D) Course content:

Both classroom deliberations and field visit to at irrigation project site were organised in the ToT programme. Classroom deliberation was made on the following topics based upon the course requirement and suggested by the NWM:

- i) National Water Mission with reference to efficiency of irrigation water management
- ii) Water use efficiency and volumetric measurement of irrigation water
- iii) Crop water requirement, crop planning and cropping pattern
- iv) Rotational water distribution system
- v) Water accounting methodology, booking and other procedures to run WUA

- vi) Participatory irrigation management, irrigation act and water pricing in irrigation water management
- vii) Various government policies regarding subsidy in agriculture and irrigation sectors
- viii) Micro and drip irrigation system

(E) Field Visit:

To give practical idea about the efficiency of an irrigation project, participants were taken to Jamuna Major Irrigation project at Hojai, Nagaon district of Assam which falls under the Upper Assam CADA. The main canal, net work of branch canal net works, distributaries , field canals were shown and possible measures that may be taken up for increase efficiency were discussed. Participants also interacted with the local farmers and few members of WUAs associated with the projects about their activities in irrigation water management particularly in demanding and distribution of irrigation water, collection of irrigation charges and what is the change of cropping pattern in the irrigated command area etc. The Engineer and field staff of the project explained about the salient features of the project, operation of regulator, water course, outlets, formation of WUAs in the command area, cropping pattern under practice etc.

(F) Group Discussion:

On the last day of the training a group discussion was held with the participants to get the feedback of the training programme. The feedbacks given by the trainees were summarised below:

- 1) The training was organised well and gave opportunity to interact with other fellow WUAs from different states of NE region.
- 2) The course content was thought provoking and learn new concept like drip irrigation and volumetric measurement of water. However the implementation of such concept is not yet known to them.
- 3) The field visit at irrigation project site gave them exposure with how irrigation canals and water courses distribute water to the fields.
- 4) Visiting irrigation project of was the first experience for participants coming from Meghalaya and Nagaland. So they found the field visit quite useful to understand irrigation project.

(G) Feed back:

A group discussion was held at to have immediate feedback of the participants at the end of the training where in addition to NERIWALM faculty members few representatives of field level engineers of irrigation department of Tezpur irrigation division were also participated. Excerpts of some of the feedback received are presented below:

Scraps of Feedback of the trainees:

Feedback 1. 'Earlier was not aware about the process and skills in increasing WUE in irrigation project. The maintenance activities particularly de-siltation of canals would be taken care of by the WUAs and the matter will be discussed in next joint meeting of WUAs with concerned engineers and field staff of Irrigation scheme.'

Feedback 2. 'Water distribution to all the areas of irrigation scheme presently is not meeting everybody's requirement. Some are as are not getting adequate quantity while few farmers are getting more than requirement. Discharge also not is in full potential. The ToT has opened eyes in many aspects like regular maintenance of all the canals, check excess use of water and adoption of suitable and profitable cropping pattern in irrigation command. '

Feedback 3. 'The ToT has given confidence to go for cultivation of Rabi crops during next winter season and though water may be less, necessary steps will be taken to distribute water rationally among the farmers. Requested NERIWALM scientists to make a visit in the Irrigation project during winter to guide the practical aspects for increasing water use efficiency.'

(H) Valedictory function:

On the completion of the training course the Training In-charge, Deputy Director of NERIWALM have distributed certificates to the trainees and congratulated them for successful participation in the course. They are requested to become a partner of NERIWALM in transferring what they learnt during the training to their fellow friends. Most of them agreed to it.

(I) Resource Person from NERIWALM:

- i) Dr. A.C. Debanth, Associate Professor (WRE)
- ii) Sri. B.C. Nath, Associate Professor (Agri) and in-charge, Training, NERIWALM
- iii) Dr. U.M. Hazarika, Assistant Professor
- iv) Dr. Ch.Victoria Devi, Research Associate (Social Sc.)

(J) External Resource Person:

- i) Sri M Gautum, Extention Officer, CAD, Jamuna, Irrigation Dept. Govt. of Assam

Contd...
(Enclosed list of participants)

List of participants

ToT on “Water Use Efficiency and Irrigation Water Management” conducted by NERIWALM at Tezpur during 14-16 July 2015 sponsored by National Water Mission, MoWR,RD & GR, Govt. of India

Sl. No	Name	Gender	Caste	State	Address
Assam					
1	Sri Ajit Ch. Basumatary	M	ST	Assam	Laugaon,P.O. Udulguri-781325 Baksa BTAD (Assam)
2	Sri Kiran Das	M	OBC	Assam	Uzan Barbari P.O Kadguri , Barpeta, Assam
3	Sri Humeswar Das	M	OBC	Assam	Naharbari, PO. Charaiari-781337,Baska district, Assam
4	Sri Guneswar Choudhary	M	Gen	Assam	Naityananda-781329 Pathsala ,Assam
5	Sri Akshay Barman	M	Gen	Assam	Tuply Panbari PO: Naityananda-781329 ,Barpeta district Assam
6	Sri Nagen Barman	M	Gen	Assam	Barsaderi,Barpeta, Assam
7	Sri M.Brojokishor Singh	M	OBC	Assam	Hojai, Jamuna CADA
8	Sri Bijoy Chandra Singh	M	OBC	Assam	Bishnupur, PO: Komorakata-782435 , Hojai, Nagaon district Assam
9	Sri Tankeswar Chakraborty	M	Gen	Assam	Dhanuhar Basti PO Padum Pukhuri Hojai,Nagaon district Pin code: Assam
10	Sri Narayan Chouhan	M	OBC	Assam	Milik Basti PO Nando pur charali - 782435,Hojai, Nagaon district, Assam
11	Sri M.Kenedy Singh	M	Gen	Assam	Hojai, Jamuna CADA
12	Sri Bali Subba	M	OBC	Assam	Bhanupur 3 No. Tejal Patti PO: Balijuri-784182, Sonitpur
13	Sri Suresh Gahatraj	M	OBC	Assam	Morisuti P.O : Rangachakua Sonitpur district, 784185, Assam
14	Sri Nitya Lal Das	M	SC	Assam	Hojai, Nagaon , Assam
15	Sri Sohan Gour	M	OBC	Assam	Sankar BastiPO: Sankar Dev Nagaon , Hojai 782442 Assam
16	Sri Buddhi Man Baniya	M	OBC	Assam	Balijuri PO: Balijuri Sonitpur district, 784182 Assam
Manipur					
17	Sri Thokchom Rajen Singh	M	Gen	Manipur	Bishnupur, Manipur
18	Sri Loitongbam Debchand	M	Gen	Manipur	Bishnupur, Manipur
19	Sri Khundrakpam Sunil Singh	M	OBC	Manipur	Khangabok Part-II Leikai, PO.Thoubal - 795138, Manipur

20	Sri Elangbam Sharat Singh	M	OBC	Manipur	Khangabok Part-II Khullakpam Leikai, PO.Thoubal - 795138, Manipur
21	Sri Kh. Jotin Singh	M	Gen	Manipur	Minor Irrigation Dept., Lamphal PO Lamphal - 795004 Manipur
22	Sri H.Ibohal Singh	M	Gen	Manipur	Minor Irrigation Dept., Lamphal PO Lamphal- 795004 Manipur
23	Sri L. Debachand	M	Gen	Manipur	Bishnupur Thiyam Leikia , Ward No.9 Bishnupur district - 795126,Manipur
24	Sri Th. Rajen Singh	M	Gen	Manipur	Thinungei, PO: Bishnupur - 795126, Manipur
Meghalaya					
25	Sri Phonis Khongstid	M	ST	Meghalaya	Nongmadan Shaosngi village PO: Pynursla, East Khasi Hills, Meghalaya Pin code: 793110
26	Sri Everestson Kharbudon	M	ST	Meghalaya	Nongmadan Shaosngi village PO: Pynursla, East Khasi Hills,Meghalaya Pin code: 793110
27	Sri David Copperfield Tynsong	M	ST	Meghalaya	Nongtyngur village PO: Pynursla East Khasi Hills,Meghalaya Pin code: 793110
28	Sri Stephen Davids Budon	M	ST	Meghalaya	Lyngkhat village PO: Pynursla, East Khasi Hills ,Shillong Pin code: 793110
Nagaland					
29	Sri Menovituo Kehie	M	ST	Nagaland	Ruzaphema village, Dimapur, Pin code: 797112, Nagaland
30	Sri Thejasesalie Kehie	M	ST	Nagaland	Ruzaphema village Medziphema, Dimapur, Pin code: 797112, Nagaland