Crystal Water 2002

—the sheet for facilitating maximization of your training outcome—

Name	HTAR HTAR WIN	Country	MYANMAR

Training Group Name	Domestic/Regional Problems	Contents (Subjects) to be studied in each unit	Results of Training	Additional Information Hoped for
Execution Case of E.I.A. (Aug.5-8)	• Water Logging Problem. • Lack of knowledge on E.I.A.	• How to recover the water logging problem area and How to avoid this kind of problem in future. • Basic knowledge on E.I.A and general information about E.I.A of Japan & other countries.	Basic Knowledge of E.I.A, which was received from this training, can be transferred to the ID staff personnel through ITC training program.	- The consequences of E.I.A Problem and - How to recover the water logging problem area and How to avoid this kind of problem in future.
Water Storage and Supply Facilities (Aug.12-16)	• Poor in the design of dam & canal (Earth). • Seepage from the canal (Earth).	• Some advanced knowledge on design of dam & canal (Earth). • How to reduce the seepage of canal.	Dam accident, safety problem and sedimentation in dam should be included in consideration of dam design. Concrete line canal should be used to reduce the seepage.	-How to reduce the seepage of earth-canal.
Farm / Forest Management and Food Policy (Aug.20-24)	• Lack of knowledge on food production in arid and semi-arid region.	• The development of water resources and food production in arid and semi-arid region.	Methods of survey for farm management can be introduced to ID staff personnel. Farm Management Information System (FMIS) should be established for stable food production. World market prices should be considered in future our food production.	The development of water resources in arid and semi-arid region.
Ground Water (Aug.26-29)	• At present, only pump irrigation is being used in arid and semi-arid region for agriculture purpose.	• More knowledge on using of ground water in irrigation works.	Improved the following knowledge in Ground Water. - Classification, methods of investigation of saline water intrusion, construction of cut-off - Advantages & disadvantages of under ground dam and suitable geological condition for under ground dam. - Types of aquifer and analysis of pumping test data & slug test data.	About the irrigation facilities for ground water.
Soil / Water Quality Assessment (Sep.9-12)	• In arid area, waterlogged land become saline.	• How to recover the saline area. • How to treat the wasted water for reusing.	- Improved the knowledge on soil degradation, features of soil and the properties of soil. To recover the problem area, first we should check the features and properties of soil before treatment. -Improved the knowledge on characteristics of sewage water. Understood about the wastewater treatment process and methods. Wastewater treatment is necessary not only for water supply but also to keep the environmental condition.	Methods for recover the saline area.
Field Water and Soil Management (Sep.24-Oct.3)	• Poor in knowledge of - 1.Water resources and water control for irrigation in arid and semi-arid region. 2. Influences of water control in environment.	• About the water resources and water control for irrigation in arid & semi-arid region. • The efficient water-use system. • About the influence of water control in environment.	1.Grained the knowledge of water management for salinity control. Studied the irrigation methods used in arid and got some information about the computer software, which is useful for salinity Prob:(calculation of Ec). 2.Understand the important of irrigation management & Get some knowledge on ◆Concept of irrigation system management (IWMI) ◆Parameter of irrigation performance ◆Water distribution system performance ◆Environmental consideration (Potential negative impact of irrigation) 3.Get knowledge on estimation of evapotranspiration	I would like to study more ◆ Soluble salt and salinity ◆The drip irrigation, soil degradation, desertification, soil salinization problem and zeolite ◆Environmental consideration (Irrigation) I would like to make some research on those causes to solve my country's problems. (Problem of Irrigation water resources in arid and semi-arid region (CR-Item 5.1) and E.I.A Problem(CR-Item5.2)

			(Penman Montheith method- using meteorology data) 4.Learned about the mathematical analysis of irrigation schedule such as ◆Variable amount irrigation at fixed interval ◆Fixed amount of irrigation at variable interval ◆Optimum amount of irrigation at fixed interval 5. Understand the measurement of soil water content and soil water pressure, calculation of WC and water storage (by core method). Improved in knowledge on measurement of soluble salt and salinity. 6.Learned about the drip irrigation, soil degradation, prevention of sun dune, desertification, soil salinization problem, secondary salinization problem and introduced zeolite.	
Design and Practice in Water Supply / Service System (Oct.8-10)	• Present irrigation system in arid & semi-arid area is very poor.	• The efficient irrigation system for arid & semi-arid region.	Studied the about the preservation of water hammer after emergency stop of pump & characteristics of suction force of self-priming pump. By visiting the Okayama plant, get some knowledge about the Watchmen gate, Rubber dam, Solar system.	
Crops Suitable for Arid Area; Plant Nutrition (Fertilization) (Oct.15-17)	• Lack of the knowledge on choosing and growing the suitable crops for arid & semi-arid region.	• The general knowledge on choosing and growing of suitable crops for arid & semi-arid region.	Get some knowledge on drought and salt tolerant crops & plants.	
Preservation of Greens; Assessment of Vegetation (Oct.28-Nov.1)	• Lack of knowledge in using the remote sensing of vegetation and land utilization.	• General knowledge on using the remote sensing of vegetation and land utilization	General knowledge on 1. Environmental characteristics of arid land, causes & control of desertification and revegetation in arid area. 2. Natural environment & Fixation of sand dune 3. Environmental regulation of growth, wood structure of tree, important of water, environmental stress. 4. Ring formation, growth in stems, how to take the core sample, measurement of density with Densitometer. 5. Advantages & characteristics of remote sensing, contents of application of remote sensing. 6. Knowledge on the steps of Ecological Impact Assessment.	More information about remote sensing & GIS.

Remark:

The ideas shown in this table and the courses listed by the training staff in Tottori University are relevant to the region I came from.

Courses on E.I.A. and Appropriate Research methods are also very instrumental in my case and the region I came from.