



## **Summary Report of The 2<sup>nd</sup> Meeting of National Soil and Nutrient Management Expert Group for ASEAN Guidelines on Soil and Nutrient Management**

### **INTRODUCTION**

1. The Ministry of Agriculture, Livestock and Irrigation of Myanmar and GIZ organised the 2<sup>nd</sup> Meeting of National Soil and Nutrient Management Expert Group for ASEAN Guidelines on 25<sup>th</sup> August 2016 in Yangon, Myanmar, Land Use Division (LUD), Department of Agriculture (DoA), Ministry of Agriculture, Livestock and Irrigation hosted the meeting.
2. Thirty-two participants comprising National Soil and Nutrient Management Experts from LUD, DoA, Department of Agricultural Research and Yezin Agricultural University from Yangon and other States and Divisions, 6 participants from UMFCCI and private sectors as well as the National project coordinator of ASEAN SAS project and four observers from the bio-fertilizer company limited were participated in the meeting. The list of participants appears as ANNEX 1.
3. The meeting was held with the following objectives:
  - i. To make a review of country input based on the 4<sup>th</sup> draft of Regional Guidelines on Soil and Nutrient Management
  - ii. To review the contents provided by ASEAN Member State for writing the 5<sup>th</sup> draft of Regional Guidelines on Soil and Nutrient Management
  - iii. To discuss opportunity to work in the future among PCU, government and private sectors, universities, and other relevant institutes to drive ASEAN guidelines on soil and nutrient management

### **OPENING SESSION**

4. Mr. Soe Win, Director of LUD, on behalf of Director General, DoA delivered the opening remarks of the meeting. He expressed his warmest thanks to all of the participants, the GIZ and ASEAN SAS Project Coordinate Unit for supporting SNM project. He mentioned that Soil and Nutrient Management (SNM) practices play a vital role to ensure the long-term food security and malnutrition in Myanmar as well as other ASEAN member state countries. For this reason, the most important step is to

write ASEAN SNM Guidelines, which includes appropriate SNM technologies for ASEAN regions by integrating the ideas of regional and national ASEAN soil experts. He welcomed and suggested all of the participants to put comments and discuss their options freely on the draft ASEAN SNM Guidelines.

5. Dr. Thandar Nyi, Assistant Director of LUD delivered the introduction remarks of the objectives and expected outputs of the meeting. She explained the arrangement of the meeting concerning which data for ASEAN Soil and Nutrient Management Guidelines does need to support by National Soil and Nutrient Management Experts.

### **SESSION 1: Introduction of the SNM Project update and Arrangement of the Meeting**

6. Dr. Aung Kyi, National Project Coordinator, ASEAN Sustainable Agri-food System (SAS) introduced to the participants on the overall objectives and implementation strategies of ASEAN SAS project and present project activities in Myanmar.

7. Dr. Thandar Nyi introduced the Soil and Nutrient Management project. She explained how to develop ASEAN SNM Guidelines. She presented the update of the SNM project and the 4<sup>th</sup> Regional Meeting of ASEAN SNM Guidelines ([ANNEX 2](#)).

### **SESSION 2: Draft ASEAN SNM Guidelines based on Outcomes from the 4<sup>th</sup> Regional Meeting of ASEAN SNM Expert**

8. Dr. Thandar Nyi introduced the draft ASEAN SNM Guidelines based on outcomes from the 4<sup>th</sup> Regional meeting of ASEAN SNM Expert. She explained the purpose, user analysis and map of inputs, outputs and synthesis sections of the Guidelines on SNM.

General comment: National SNM experts wanted the copy of draft ASEAN SNM Guidelines since they could discuss and give comments on it. Dr. Thandar Nyi will support and give it on 29<sup>th</sup> of August.

### **SESSION 3: Source of Soil Data in ASEAN**

9. Dr. Thin New Htwe, Deputy Staff Officer, LUD presented about soil type and general soil information in Myanmar. She explained soil classification system (FAO-UNESCO), a portable soil profile using the lacquer peel method. She discussed

challenges for evidence based land use planning and future plan for soil survey and classification in DoA ([ANNEX 3](#)).

General comment: The participants proposed to produce land suitability map in Myanmar in near future.

#### **SESSION 4: Soil Resources in ASEAN and Constraint to Land Use**

10. Dr. Thandar Nyi presented major soil types among the ASEAN member state countries. She also discussed how to estimate soil constraints in Myanmar with the National SNM experts.

General comment: It was agreed that the National SNM experts from States and Divisions would support the estimate area of soil constraints in agricultural land in their representative regions.

#### **SESSION 5: Good Soil Management Practices**

11. Dr. Su Su Win, Director, Department of Agricultural Research (DAR) presented crop uptake, crop removal and fertilizer recommendation on Soil-Test results in Myanmar. She explained how to get and calculate the data of crop uptake, crop removal and fertilizer recommendation from the database of DAR ([ANNEX 4](#)).

General comment: Data of sesame crop uptake and crop removal are needed to support and DAR will compile and calculate the data of sesame from their database.

12. Daw War War Thein, Deputy Director, LUD presented Site-Specific Nutrient Management (SSNM) practices in rice and fertilizer recommendation in Myanmar. She explained the methodology of SSNM practice. She also showed the results of SSNM data and discussed how to give fertilizer recommendation based on SSNM practices in Myanmar ([ANNEX 5](#)).

General comment: The participants suggested to publish the journal or paper of SSNM in Myanmar.

13. Dr. Maw Maw Than, Assistant Director, DAR presented the current status and use of Bio-fertilizer such as *Rhizobium*, *Trichoderma*, *Mycorrhiza* and Effective Microbes (EM). She explained the laboratory facilities and quality assurance in DAR. She discussed constraints, opportunities and challenges of bio-fertilizer production system in Myanmar ([ANNEX 6](#)).

## **SESSION 6: Good Nutrient Management Practices**

14. Daw Lai Lai Mon, Deputy Staff Officer, DAR presented soil testing techniques (Soil Test Kit). She explained how to test the soil by using soil test kit box ([ANNEX 7](#)).

General comment: The participants discussed about the market and distribution channel of soil test kit box.

## **SESSION 7: Standard Regulations and Market Information on Fertilizer and Supplements**

15. Daw Tin Htay Win, Assistant Bio-fertilizer quality control and standard regulations in Myanmar. She also discussed the amendments of regulation of fertilizer law in the future ([ANNEX 8](#)).

16. Dr. Khin Myat Soe, Deputy Staff Officer, LUD presented analysis of bio-fertilizer and future plan for bio-fertilizer laboratory. She explained detail of current bio-fertilizers; registration process, researches and future plan using SWOT analysis ([ANNEX 9](#)).

General comment: It was suggested that bio-fertilizer research should be focused not only on crop yield but also on soil quality.

## **SESSION 8: Conclusion and Wrap-up**

17. Dr. Thandar Nyi explained the required data that need to support for SNM Guidelines and timeline to support the data to Dr. Philip Moody. All of National SNM expert agreed to support the data at second week of September 2016. She expressed sincere thank to ASEAN SAS project coordination unit from GIZ and LUD, DoA for all of support.

## **SESSION 9: Closing Remarks and Closing of the Meeting**

18. U Soe Win thanked to all of the participants to attend the meeting. He concluded that the 2<sup>nd</sup> meeting of National SNM expert group was very effective because of fabulous job in organizing and supporting from the staff of LUD, DoA and the fruitful discussion by National SNM experts from different organization. He strongly believed that it would leave a historical record to develop for ASEAN SNM Guidelines on SNM. He officially closed the meeting at 5 pm.

## ANNEX 1

### List of participants

No.	Name	Department/Company	Position
1	U Soe Win	LUD	Director
2	Daw War WarThein	LUD	Dy Director
3	U Sa Htay Win	LUD	Asst. Director
4	Dr. EiEiTheint	LUD	Deputy staff officer
5	Daw Win WinPyone	LUD	Deputy staff officer
6	Dr. KhinMyatSoe	LUD	Deputy staff officer
7	Dr. SweSwe Mar	YAU	Lecturer
8	Dr. Maw Maw Than	DAR	Asst. Director
9	Dr. Su Su Win	DAR	Director
10	Daw Lai Lai Mon	DAR	Junior Research Assistant
11	Dr. Than ThanSein	UMFCCI	Vice Chair MOGPA
12	Daw San San Win	LUD	Staff officer
13	Daw Tin Htay Win	LUD	Asst. Director
14	Daw Lai LaiHtwe	LUD	Staff officer
15	DawKhinThandar Win	LUD	Staff officer
16	Daw Cho Cho Mar	LUD	Asst. Director
17	DawKhinMyintMyint	LUD	Asst. Director
18	DawKhin Win Mar	LUD	Deputy Director
19	Daw Win Moe	LUD	Asst. Director
20	DawKhin Mar Myo	LUD	Deputy staff officer
21	Daw Su MyatHtwe	LUD	Deputy Asst. staff officer
22	Dr. AungKyi	ASEAN SAS	National coordinator
23	Dr. Thandar Nyi	LUD	Asst. Director
24	Dr. Thin NweHtwe	LUD	Deputy staff officer
25	DawKhin Su Yi	LUD	Staff officer
26	U Han Than	LUD	Asst. Staff officer
27	U NyuntShwe	MarlarMyaing	Consultant
28	Mr. Martin Weiss	Awba	Agronomist
29	U MyintKyi	United Nilar	Consultant
30	Daw Yi Yi Cho	Avenetine Ltd.	R & D
31	U Zaw Than	Suprene	Director
32	Daw Aye AyeMyint	Food safety	Technical Expert

**List of observers**

No.	Name	Department/Company	Position
1	U KyawLwin	Suprene	Junior Agronomist
2	Daw Si Tar Win Myint	Suprene	Junior Agronomist
3	DawHtetHtet Moe Thwe	Suprene	Junior Agronomist
4	U Than Tint	Awba	General Manager