



Food and Agriculture  
Organization of the  
United Nations



GLOBAL SOIL  
PARTNERSHIP



हर कदम, हर डगर  
किसानों का हमसफर  
ग्रामीण कृषि अनुसंधान परिषद  
*Agriseach with a human touch*



भारत  
ICAR



Institut de Recherche  
pour le Développement  
FRANCE

## Second lab managers' meeting of the South-East Asia Laboratory NETwork (SEALNET)

### Quality improvement in Asian soil laboratories:

### towards standardization and harmonization of soil analyses and their interpretation

**18 November:** meeting with the organizers and the technical moderators

Monday, 19 November 2017	
8:30 – 9:00	<b>Registration</b>
9:00 – 9:40	<p><b>Item 1. Opening</b></p> <p><b>Dr. Ashok K. Patra</b>, Director of ICAR-IISS on behalf of the organizing committee</p> <p><b>Mr. Shichiri Tomio</b>, FAO, FAO Representative for India</p> <p><b>Dr. S. K. Chaudhari</b>, Assistant Director General, Natural Resource Management, Indian Council of Agricultural Research (Proposed)</p> <p><b>Dr. Rajesh Rajora</b>, IAS, Principal Secretary (Agriculture), Govt of. MP (Proposed)</p> <p><b>Dr. Trilochan Mohapatra</b>, Secretary, Department of Agricultural Research and Education &amp; Director General, Indian Council of Agricultural Research (Proposed)</p>
9:40 – 10:00	<b>Group picture</b>
10:00 - 10:30	<p><b>Item 2. Endorsement of the agenda and review of the work performed since the first SEALNET meeting.</b> Ms. Lucrezia Caon, FAO</p>

10:30 - 11:00	<b>Coffee break</b>
---------------	---------------------

<b>Indian National Networks</b>	
11:00 – 12:30	<p>Workshop-cum-Meeting of Indian Personnel (Three to Four presentations each of 15 minutes and discussion)</p> <p>Indian Government Soil Health Card Scheme: Protocols for sampling and analysis; interpretation of results and farmers' field level impact</p> <p>Dr. S. K. Chaudhari: Government soil health card scheme</p> <p>Dr. Pradip Dey: Soil parameters, analysis protocols, interpretation, and fertilizer recommendations</p> <p><b>Director (Agriculture) /representative: Soil health card infrastructure and achievements in the state of Madhya Pradesh, India</b></p> <p>Dr Rajbir Singh, Director, Experience of soil health card from ATARI (Agricultural Technology Application Research Institute), Ludhiana (Northers India)</p>
12:30 – 13:30	<b>Lunch break</b>
13:30 – 15:00	<p>Participation of lab managers from India</p> <p>15 minutes presentation on lab protocols, methods of sample preservation, storage, analysis and interpretation of results.</p> <p>Six lab managers, each representing different states of India (e.g. Madhya Pradesh, Chhatisgarh, Gujarat, Punjab, Delhi, and Himachal Pradesh)</p>
15:00 – 15.30	<b>Tea break</b>
15:30 - 17:00	<p>Participation of lab managers from India continued</p> <p>15 minutes presentation on lab protocols, methods of sample preservation, storage, analysis and interpretation of results</p> <p>Four lab managers, each representing different states of India (e.g. Andhra Pradesh, Telangana, Tamil Nadu and Odisha)</p> <p>Summary and Plenary session</p>

	Chairman: Dr. S. K. Chaudhari, ADG, SWM, NRM, ICAR
--	--

<b>Tuesday, 20 November 2017</b>	
<b>Session 1: National profiles</b>	
8:30 – 10:00	<p><b>Item 3. Countries' presentation on internal quality control (10 minutes per country)</b></p> <p><b>Ms. Begum Samia Sultana</b>, Central Laboratory, Soil Resource Development Institute, Bangladesh</p> <p><b>Mr. Jamyang</b>, Soil Plant Analytical Laboratory, Bhutan</p> <p><b>Mr. Sun Sarak</b>, National Agriculture Laboratory, Cambodia</p> <p><b>Mr. Wang Hong and Ms. Liping Yang</b>, National Laboratory of Soil Testing and Fertilizer Recommendation, China</p> <p><b>Mr. Ashok Kumar Patra</b>, ICAR – Indian Institute of Soil Science, India</p> <p><b>Ms. Lenita Herawaty and Linca Anggria</b>, Laboratorium Pengujian, Balittanah, Soil Test Laboratory, Indonesian Soil Research Institute, Indonesia</p> <p><b>Mr. Yuji Maejima and Yasuhito Shirato</b>, Institute for Agro-Environmental Sciences, Japan</p> <p><b>Mr. Xaysatith Souliyavongsa</b>, Soil Analysis Unit, Department of Agricultural Land Management, Lao DPR</p> <p><b>Mr. Abd Razak Bin Abu Samah</b>, Analytical Service Section, Soil Management and Conservation Division, Malaysia</p> <p style="text-align: center;"><b>Moderator:</b> Lucrezia Caon, FAO</p>
10:00 - 10:30	Coffee break
10:30 - 12:30	<p><b>Item 3. Countries' presentation on internal quality control (10 minutes per country)</b></p>

	<p><b>Ms. Bazarradnaa Enkhtuya</b>, Soil, agro-chemistry laboratory of Institute of Plant and Agricultural Sciences, Mongolia</p> <p><b>Ms. Su Su Win</b>, Soil and Plant Analysis Laboratory, Department of Agricultural Research, Myanmar</p> <p><b>Mr. Janardan Khadka</b>, Soil Management Directorate, Nepal</p> <p><b>Mr. Arshad Ali</b>, National Agriculture Research Centre, Pakistan</p> <p><b>Ms. Gina P. Nilo</b>, Bureau of Soils and Water Management Laboratory Services Division, Philippines</p> <p><b>Mr. Sonn Yeonkyu</b>, Soil and Fertilizer Division National Institute of Agricultural Sciences, Rep. of Korea</p> <p><b>Ms. N.R.N. Silva</b>, Horticultural Research and Development Centre, Sri Lanka</p> <p><b>Ms. Chanida Charanworapan</b>, Office of Science for Land Development, Land Development Department, Thailand</p> <p><b>Mr. Dr. Phai Đổ Duy</b>, Central Analytical Laboratory - Soils and Fertilizers Research Institute, Vietnam</p> <p><b>Moderator:</b> Lucrezia Caon, FAO</p>
12:30 – 1:30	<b>Lunch</b>
<b>Session 2: Ring test analysis</b>	
1:30 – 3:30	<p><b>Item 5. Evaluation of the ring test results</b></p> <p>Mr. Christian Hartmann, IRD, and Ms. Nopmanee Suvannang, LDD</p>
3:30 - 4:00	Coffee break
4:00 – 5:00	<p><b>Item 6. Standard Operational Procedures (SOPs)</b></p> <p style="padding-left: 40px;">- <b>Review and endorsement of the SOPs for pH, OC, available phosphorous, exchangeable potassium and CEC</b></p> <p>Mr. Ashok Patra</p> <p>Ms. Gina Pilo</p>

	Ms. Su Su Win  <b>Moderator:</b> Ms. Lucrezia Caon, FAO, and Ms. Nopmanee Suvannang, LDD
<b>Wednesday, 21 November 2017</b>	
8:30 – 10:30	<b>Item 6. Standard Operational Procedures (SOPs) (continuation)</b>
10:30 - 11:00	<b>Coffee break</b>
11:00 – 12:30	<b>Item 6. Standard Operational Procedures (SOPs) (continuation)</b>

12:30 – 1:30	<b>Lunch</b>
<b>Session 3: Standardization and harmonization (continued)</b>	
1:30 – 2:30	<b>Item 7. Decision on the SOPs to develop in 2018-2019</b>  Mr. Christian Hartmann, IRD, and Ms. Nopmanee Suvannang, LDD
3:30 – 4:00	Coffee break
4:00 – 5:00	<b>Item 8. Interpretation of data results</b>  <b>Moderator:</b> Mr. Christian Hartmann, IRD, and Ms. Nopmanee Suvannang, LDD

<b>Thursday, 22 November 2017</b>	
<b>FIELD TRIP</b>	

<b>Friday, 23 November 2017</b>	
---------------------------------	--

**Session 4 (continued)**

Moderator: Lucrezia Caon, FAO

8:30 – 10:30	<b>Item 9. Guidelines for implementing and maintaining good laboratory practices and quality management in soil laboratories</b>  - <b>Review and endorsement of the document</b>  Mr. Christian Hartmann, IRD
10:30 – 11:00	Coffee break
11:00 – 12:30	<b>Item 10. Global Soil Laboratory Network (GLOSOLAN)</b>  <b>Moderator:</b> Ms. Nopmanee Suvannang, GLOSOLAN Chairperson, and Ms. Lucrezia Caon, FAO
12:30 – 13:30	Lunch
13:30 – 14:30	<b>Item 11. Conclusions and way forward</b>  - <b>Review of the SEALNET roadmap in 2018-2019 (planning, timing and roles)</b> - <b>Topics to bring to the attention of GLOSOLAN</b>  <b>Moderator:</b> Lucrezia Caon, FAO
14:30 – 15:00	<b>Item 12. Time and venue of the next meeting</b>