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**Second Lab Managers Meeting-cum-Workshop of the South-East Asia Laboratory NETwork (SEALNET)**

**Quality improvement in Asian soil laboratories:**

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

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| **Monday,** 19 **November 2018** |
| 9.30 – 10:00 | **Registration** |
| 10:00 – 11:00 | **Item 1. Opening**Dr. Ashok Patra, Director ICAR-IISSMr. Tomio Shichiri, FAO Representative for IndiaMr. Jamyang, SEALNET Chair, Soil & Plant Analytical Laboratory (SPAL), NSSC, Department of Agriculture, MoAF, Kingdom of BhutanMs. Lucrezia Caon, GSP Secretariat, FAO HQDr. S.K. Chaudhari, Assistant Director General, Natural Resource Management, Indian Council of Agricultural Research, New DelhiDr. Sanjay Srivastava, Principal Scientist, Division of Soil Chem. & Fertil., ICAR-IISS |
| 11:00 – 11:10 | **Group picture** |
| 11:10 - 11:40  | **Tea/Coffee break** |
| 11:40 - 12:10 | **Item 2. Endorsement of the agenda and review of the work performed since the first SEALNET meeting**Ms. Lucrezia Caon, FAO |
| **Session 1: Indian National Network** |
| 12:10 – 13:00 | **Item 3. Indian Government Soil Health Card Sceme: Protocols for sampling and analysis; interpretation of results and farmers’field level impact****Chairman:** Dr. S. K Chaudhari, ICAR, New Delhi**Rapporteur:** Dr. A. K. Biswas, ICAR-IISS, Bhopal and Dr. R. S. Chaudhary, ICAR-IISS, BhopalGovernment soil health card scheme, Dr. S. K. Chaudhari, ADG (SW&M), NRM, ICAR, New Delhi, IndiaSoil health card infrastructure and achievements in the state of Madhya Pradesh, India, Dr. M L Meena/Mr. B M Sahare, Director of Agriculture, Government of madhya Pradesh, India Soil parameters, analysis protocols, interpretation, and fertilizer recommendations, Drs. Sanjay Srivastava and Pradip Dey, ICAR-IISS, Bhopal, India |
| 13: 00 – 14:00 | **Lunch break** |
| 14:00 – 15:30 | **Item 3. Indian Government Soil Health Card Sceme: Protocols for sampling and analysis; interpretation of results and farmers’field level impact [Continuation]**Potassium in soil and plant: analytical and management issues: T Satyanarayana, PhDDirector, South Asia Program, International Plant Nutrition Institute (IPNI)Infrared Spectroscopy and its potential for estimation of soil properties: Dr. K M Hati, Principal Scientist, ICAR-IISS, Bhopal, IndiaExperience sharing: Discussion and reflection by foreign delegates on convergence and divergence on soil testing procedures |
| 15:30 – 16.00 | **Tea/Coffee break** |
| 15:00 - 17:00 | Demonstration/discussion: * Mini lab
* MIR/NIR
* Soil test kit
 |
| **Tuesday,** 20 **November 2018** |
| **Session 2: National profiles****Moderator:** Lucrezia Caon, FAO |
| 9:00 – 10:30 | **Item 4. Countries’ presentation on internal quality control (10 minutes per country)** **Ms. Begom Samia Sultana**, Central Laboratory, Soil Resource Development Institute, Bangladesh **Mr. Jamyang**, Soil Plant Analytical Laboratory, Bhutan**Mr. Sun Sarak**, National Agriculture Laboratory, Cambodia**Ms. Liping Yang and Mr. Wang Hong** China National Center for Quality Supervision and Test of Chemical Fertilizers(Beijing)**Mr. Ashok Kumar Patra**, ICAR – Indian Institute of Soil Science, India**Ms. Lenita Herawaty and Ms. Linca Anggria**, Laboratorium Pengujian, Balittanah, Soil Test Laboratory, Indonesian Soil Research Institute, Indonesia **Mr. Yasuhito Shirato,** National Agriculture and Food Research Organization, Japan and **Mr. Yuji Maejima**, Institute for Agro-Environmental Sciences, NARO (NIAES)**Mr. Xaysatith Souliyavongsa**, Soil Analysis Unit, Department of Agricultural Land Management, Lao DPR**Mr** **Muhammad Izzat Bin Ilmin**, Lab Division, Department of Agriculture, Malaysia |
| 10:30 - 11:00 | **Coffee break** |
| 11:00 - 13:00 | **Item 4. Countries’ presentation on internal quality control (10 minutes per country) [Continuation]****Ms. Bazarradnaa Enkhtuya**, Soil, agro-chemistry laboratory of Institute of Plant and Agricultural Sciences, Mongolia**Ms. Su Su Win**, Soil and Plant Analysis Laboratory, Department of Agricultural Research, Myanmar**Mr. Janardan Khadka**, Soil Management Directorate, Nepal**Ms. Gina P. Nilo**, Bureau of Soils and Water Management Laboratory Services Division, Philippines**Ms. N. R. N. Silva**, Horticultural Research and Development Centre, Sri Lanka**Ms. Chanida Charanworapan**, Office of Science for Land Development, Land Development Department, Thailand**Mr. Phai Đỗ Duy**, Central Analytical Laboratory - Soils and Fertilizers Research Institute, Vietnam |
| 13:00 – 14:00 | **Lunch** |
| **Session 3: Ring test analysis** |
| 14:00 – 16:00 | **Item 5. Evaluation of the ring test results**Mr. Christian Hartmann, IRD, and Ms. Nopmanee Suvannang, LDD |
| 16:00 - 16:30 | **Coffee break** |
| 16:30 – 17:30 | **Item 6. Interpretation of data results****Moderator**: Mr. Christian Hartmann, IRD, and Ms. Nopmanee Suvannang, LDD |
| **Wednesday,** 21 **November 2018** |
| **Session 4: Standardization and harmonization** **Moderator: Ms. Lucrezia Caon, FAO, and Ms. Nopmanee Suvannang, LDD** |
| 9:00 – 11:00 | **Item 7. Standard Operational Procedures (SOPs)*** **Review and endorsement of the SOPs for pH, OC, available phosphorous, exchangeable potassium and CEC**

Mr. Ashok PatraMs. Gina P. NiloMs. Su Su Win **Moderator**: Ms. Lucrezia Caon, FAO, and Ms. Nopmanee Suvannang, LDD |
| 11:00 - 11:30 | **Coffee break** |
| 11:30 – 13:00 | **Item 7. Standard Operational Procedures (SOPs) (continuation)** |
| 13:00 – 14:00 | **Lunch** |
| 14:00 – 16:00 | **Item 7. Standard Operational Procedures (SOPs) (continuation)** |
| 16:00 – 16:30 | **Coffee break** |
| 16:30 – 17:30 | **Item 8. Decision on the SOPs to develop in 2018-2019**Mr. Christian Hartmann, IRD, and Ms. Nopmanee Suvannang, LDD |
| **Thursday,** 22 **November 2018** |
| **FIELD TRIP****Evening: Cultural Programme** |
| **Friday,** 23 **November 2018** |
| **Session 4 Standardization and harmonization (continued)****Moderator:** Lucrezia Caon, FAO |
| 9:00 – 11:00 | **Item 9. Guidelines for implementing and maintaining good laboratory practices and quality management in soil laboratories*** **Review and endorsement of the document**

Mr. Christian Hartmann, IRD |
| 11:00 – 11:30 | **Coffee break** |
| 11:30 – 13:00 | **Item 10. Global Soil Laboratory Network (GLOSOLAN)****Moderator:** Ms. Nopmanee Suvannang, GLOSOLAN Chairperson, and Ms. Lucrezia Caon, FAO |
| 13:00 – 14:00 | **Lunch** |
| 14:00 – 15:00 | **Item 11. Conclusions and way forward*** **Review of the SEALNET roadmap in 2018-2019 (planning, timing and roles)**
* **Topics to bring to the attention of GLOSOLAN**

**Moderator:** Lucrezia Caon, FAO |
| 15:00 – 15:30 | **Item 12. Time and venue of the next meeting** |