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### **Progress Report of Three Days Training Workshop on Analytical Techniques in Soil and Water Analysis (June 15-17, 2010)**

By

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With the verbal directions by PD(WSIP-SIDA) Ehsan Lighari sahib and Email by Nazeer Ahmed Memon (GMT-SIDA) the above cited training workshop was participated. This workshop consists on 10 sessions. All the sessions were delivered very effectively by prominent and learned resource persons from different institutions. The details of the sessions are attached with flag-A.

#### **Key findings and Observations**

1. Attending this kind of workshop the techniques for soil and water analysis were understood that how the digital meters and other instruments are to be operated,
2. How the standard solution and calibration curves of these instruments is done,
3. what is basic principle, theory and instrumentation of pH meter,
4. what is basic principle, theory and instrumentation of spectrophotometry,
5. what is basic principle, theory and instrumentation of flamephotometry,
6. what is basic principle, theory and instrumentation of electrical conductivity meter,
7. Determination of phosphorus in soil and water samples using spectrophotometry,
8. Determination of phosphorus in soil and water samples using flamephotometry,
9. It was also observed by participants that lot of instruments purchased by many institutions the instruments for water and soil analysis are kept only in pouches and bags. These instruments are not properly used only due to unawareness and unfamiliarity by technicians with these instruments,
10. This was observed that like these training further trainings are necessary for those technical and concerned persons who are related with the water and soil chemistry and analysis within in different institutions and departments of Governmental and Non-governmental organizations.