



IWMI is a CGIAR Research Center

Annex-A



IWMI-RFQ-019-2024

### Technical Specifications

Soil moisture sensor technology is frequently used in the irrigated farming sector to provide insight into water availability in the crop root zone, thus enabling users to avoid under-irrigation or over-irrigation and devising better irrigation planning at the farm scale. Similarly, salt monitoring tools are used to track salinity buildup in the crop root zone in combination with the wetting front detectors. These sensors integrated into the irrigation system will aid in scheduling water supply and efficient irrigation water management. Therefore, this integrated sensor toolkit should include the soil moisture sensors to measure and record the soil moisture status directly from the irrigation fields to identify under & over irrigation. Moreover, the sensor toolkit should have the capability to couple with wetting front detector, electrical conductivity, and nitrate strips to visualize water entering the rootzone, extraction of water by the crop and the accumulation and flushing of nitrate and salt.

For each technical specification and requirement line item listed hereunder.

S #	Items / Description	Brand	Unit Price \$	Quantity	Total Price (\$)
1	<b>Soil moisture sensors complete toolkit along with Wi-Fi reader</b> (This should include the soil water and temperature measuring sensors as well as wi-fi reader to log and upload data from field)			<b>150</b>	
2	<b>Soil moisture sensors complete toolkit along with card reader</b> (This should include the soil water and temperature measuring sensors as well as card reader to log data from field)			<b>150</b>	
3	<b>Electrical Conductivity (EC) meter</b> EC meter should capture the electrical conductivity of irrigation and soil water			<b>50</b>	



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### **Evaluation and Award:**

The award will be made to a responsible offeror whose offer follows the RFQ instructions, meets the source/origin/nationality requirements, and is judged to be the most advantageous in terms of the following evaluation criteria. Only those offers will be considered who meet or exceeds the requested specification. In judging the offers, the following criteria will be used with weights applied accordingly:

- **Meeting Technical Specification -- (70)**
- **Financial — (30)**