|  |  |
| --- | --- |
| **Bubbler Water Level** | |
| **System** | |
| **Description** | The bubbler is a contact solution that will be used if there is a site that is suitable for this technology. A continuous bubbling system is required, where bubbles are continuously produced thus keeping the line under pressure |
| **Water Level** | |
| **Range** | 15 psi or the range of the level at the site (please request site information if it has not been provided by purchaser) |
| **Accuracy** | ± 0.02% Full Scale |
| **Precision** | < 0.02% per year |
| **Resolution** | 1mm |
| **Signal Output** | SDI-12 |
| **Calibration** | Calibration certificate required. Future recalibration (if needed) must be performed in India. This must be certified by bidder. |
| **Orifice Line** | Must be provided and will be determined on site by site basis upon inspection by bidder. |
| **Air Drying System** | System must not require maintenance for a minimum of two years of continuous service in the field, which includes changing desiccant, if a desiccant system is offered. A manufacturers certification is required, and to be included with the bid. |
| **Sensor Type** | Non-submersible transducer. |
| **Purge** | Manual line purge. |
| **Bubble Rate** | Programmable 30-120 bubbles per minute |
| **Power** | |
| **Voltage** | 10-15 V DC |
| **Environmental** | |
| **Protection** | NEMA 4 |
| **Humidity** | 0 to 100% operational and storage |
| **Temperature** | -10˚C to +60˚C operational and storage |
| **Other Requirements** | |
| **Mounting** | * The bubbler shall be easy to dismount and replace in the event of malfunction. * Bubbler mounting supports and other accessories included. * Enclosure shall be designed to dissuade or otherwise prevent unauthorized access. * All wire runs between the bubbler and the data logger shall be similarly designed. * Bidder must submit and have approved a schematic of civil works that assures a robust and secure installation prior to start of work. * Orifice line must be protected by conduit. |
| **Other** | * An interface and a display panel will be provided with the bubbler that will allow setting the water level without using the data logger to do this. |
| **Tools and Manuals** | * Complete toolkit for installation and routine maintenance giving full details. (number of pieces and type) * Full documentation and maintenance instructions in English. (1 per station) |

Items in RED are to be used for the Bid Evaluation Review (BER).