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| **Ultrasonic Water Level** |
| **System** |
| **Description** | The ultrasonic sensor is a non-contact solution. It will need to be mounted on a bridge or platform. This is generally used at sites where the distance to the water is less than 10m. |
| **Water Level** |
| **Range** | 0-10m |
| **Accuracy** | 0.25% of detected range |
| **Resolution** | 1mm |
| **Output** | 4-20mA or SDI-12 |
| **Calibration** | Calibration certificate required. Future recalibration (if needed) must be performed in India. This must be certified by bidder. |
| **Cabling** | Must be provided and will be determined on site by site basis upon inspection by bidder. High quality cable that will not compromise accuracy and stability. |
| **Power** |
| **Voltage** | 11-16 V DC Input |
| **Consumption** | unit will be on switched power so that it operates and draws power only at measurement time |
| **Environmental** |
| **Protection** | NEMA 4 or IP-65 |
| **Humidity** | 0 to 100% operational and storage |
| **Temperature** | -10 ˚ C - + 60 ˚ C operational and storage |
| **Other Requirements** |
| **Mounting** | * The ultrasonic sensor shall be easy to dismount and replace in the event of malfunction.
* Ultrasonic mounting supports and other accessories included.
* All wire runs between the ultrasonic 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.
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| **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)
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Items in RED are to be used for the Bid Evaluation Review (BER).