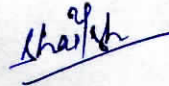


**Sub. : Pre-Qualifying Requirement of Vendors for supply of Ultrasonic Flowmeter
of Code No.ZWG050401017 Indent No.C6360/20133618/T**

1. Vendor should be either original equipment manufacturer (OEM) or authorized distributor of OEM for quoted item. In case vendor is authorized distributor ink-signed copy of authorization from OEM to be submitted along with offer.
2. Vendor should have experience of manufacturing or supplying the offered item/or higher rating item for at least 2 years.
3. Vendor to submit customers list of at least 2 years for above mentioned item.
4. The offered model should be from current manufacturing range.



**Shailesh Kumar Sharma
Sr.Engineer (WEX-INSTT.)**



DGM (WEX-INSTT.)

Technical specification for Portable Ultrasonic Liquid Flow Meter

Code No.: ZWG050401017

Indent No.: C6360/20133618/T

Portable Transit time liquid Flowmeter (Non intrusive flow measurement) of following specification-

Portable transit time flowmeter with internal rechargeable batteries- able to measure the flow on the pipe sizes ranges from 2" to 12".

Principle	:	Transit Time
Fluid Type	:	Acoustically conductive fluids with mostly clean liquids.
Clamp-on flow accuracy (Velocity)	:	±1% of reading or better
Velocity Range	:	(-12)-12 m/s
Repeatability	:	0.3% or better
Measurement parameters	:	Volumetric flow, totalized flow and flow velocity with Data logging facility
Enclosure	:	IP67 or better
Internal Battery	:	Rechargeable battery, 10 hrs of continues operation
Operating temperature range	:	0°C to 55°C
Mounting	:	Stainless steel strap or chain
Memory capacity	:	1Lakh flow data points logging
Process Temperature range	:	0°C to 150°C
Output	:	4-20mA
Display	:	LCD or LED display 128 x 64 pixel graphics or better

Provision for site Parameter Programming with Menu driven operator interfacing using keypad and storage for saving site parameters.

Accessories required-

1. Suitable clamp on (non invasive) transducers for the given pipe size with easy to install clamping fixture.
2. Acoustic couplant for sensor mounting- 500gm.
3. Charging unit/convertor for charging rechargeable battery used.
4. Thickness gauge transducer (Range: 0.05" -3")
5. Communication interface cable with connector for PC to flowmeter communication.
6. Data transfer software for online/offline data transfer
7. Carrying case
8. Any other accessories essential for flow calibration in site.

Note: -

1. Calibration Certificate traceable to national or international standard required.
2. Operation & Service Manual required.
3. Original technical brochure of the model quoted to be enclosed with offer.
4. Parties to quote for complete set and not individual items.
5. Parties to demonstrate & explain all features of flowmeter and give full training to BHEL personnel in operation & maintenance of flowmeter at BHEL works.
6. Warranty Certificate required for 12 months from date of despatch.

Sarbani Roy Choudhury
 Sarbani Roy Choudhury
 DGM (WEX-Instt.)

Shailsh
 Shailesh Kumar Sharma
 Sr.Engineer (WEX-Instt.)