

Date :

06.11.2024



Notification regarding Pre-Tender meet for supply of Master Mass Flow Meter (Prover System) used for calibration of flowmeters used in CNG dispensers and at LCV points.

General Instructions

IGL intends to pre-tender meet for supply of Master Mass Flow Meter (Prover System) used for calibration of flowmeters used in CNG dispensers and at LCV points as per scope of work specified below. In continuation with that, IGL intends to conduct a pre-tender meet with the interested bidders on 08.11.2024 at 15:00 hrs. through video conferencing. .

Bidders interested in participating in pre-tender meet must send their interest through email at least 2 hours prior to the scheduled time of pre-tender meet.

Note:-

- 1) Interested bidders shall send their interest on email id:- **Sachin.mujoo@igl.co.in; Sweeti.kumari@igl.co.in; Navdeep.kanwar@igl.co.in; Executivecnp@igl.co.in**
- 2) Bidders must send any query on the same email ids as mentioned in Point 1.

Venue for pre-tender meet	Through Video conferencing (link shall be shared prior to the meeting)
Pre-tender meet date and time	08.11.2024 at 15:00 hrs. (IST)
Contact details	Telephone: +91 (11) 4607 4682/653 Email: Sachin.mujoo@igl.co.in; Sweeti.kumari@igl.co.in; Navdeep.kanwar@igl.co.in; Executivecnp@igl.co.in

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Draft Scope of work

The objective of this document is to define the scope of work for the supply of Master Mass Flow Meter (Prover System) used for calibration of flowmeters used in CNG dispensers and at LCV points. This Master flow meter (Prover system) will be used for calibration of flowmeters across various geographic areas i.e Delhi, Noida, Greater Noida, Ghaziabad, Hapur, Gurugram, Rewari, Ajmer, Kanpur, Karnal, kaithal, Muzzafarnagar, Banda.

The scope includes supply, inspection, testing, marking, packaging, handling and despatch of Master Mass Flow Meter (Prover system) to different stores of IGL located in Delhi, Ghaziabad, Gurugram, Kanpur, Ajmer and Muzzafarnagar, as indicated in the Schedule of Rates, meeting all the requirements as laid down in technical specifications.

S.No.	PARAMETER	REQUIREMENT TECHNICAL SPECIFICATION
1.	Mass Flow Sensor with Transmitter	<u>Sensor:</u> Make – Micromotion Model – CNG 050 <u>Transmitter:</u> Make – Micromotion Model – 2700 with display.
2.	Warranty requirement	Mass Flow meter with transmitter including all electronic components, hoses, fittings & enclosure box should be warranted for a period of minimum 1 year from the date of material supplied at IGL store.
3.	Prover Enclosure Box	Portable enclosure (Pelican Make) made up of fiber is required for carrying this master mass flow meter prover setup. The protection cover is watertight, crushproof, and dust proof ideal for lifting and transportation. Type & specification details for reference attached as per Annexure-II .
4.	Battery	Re-chargeable SMF type suitable for use in Class 1, Division 1 & Zone 1 as per classification given in IS:5572/2009 for hazardous area. The battery should have a minimum of 4 hours backup provided along with suitable complete battery charger (or) Rechargeable type maintenance free battery will be provided in Flame proof box. The battery will give minimum 4 hours backup. Battery charger will be provided for charging the battery. The enclosure for battery shall be of explosion and flame proof suitable for Gas Group II A & II B.
5.	Pressure Gauge	Make: WIKA/Druck/Waaree Range: 0 – 400 bar, Class I Dial Size: 65mm / 100mm.
6.	Prover Inlet Process Connections	1. NZS receptacle (OPW make) for Car. 2. NGV receptacle (OPW make) for Bus. 3. Quick connect coupling (OPW make) for LCV Hose.

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7.	Prover Outlet Process Connections	1. Quick connect coupling stem end (OPW make) suitable for Car, Bus and LCV Hose. 2. Outlet Hose (Swagelok/Parker make) 3 m long with Quick connect NGV coupling for car dispenser with NGV Nozzle of (OPW make). (With Parker or Swagelok make 3 way valve.) 3. Outlet Hose (Swagelok/Parker make) 3 m long with Quick connect NGV coupling for bus dispenser with Bus Nozzle of (OPW make). 4. Outlet Hose (Swagelok/Parker make) 3 m long with both ends Quick connect coupling (OPW make) for LCV Hose.
8.	SS Fitting	Swagelok/Parker make
9.	SS Tubing	Sandvik/Tubacex/Parker make
10.	Programmer for Zero Calibration.	Latest calibration software, perpetual license with data logging facility with all connectors, power adopters, batteries and communication cables (USB to RS485) (1 set for each prover) of Reputed make should be provided. Prover system should be suitable for calibration, proving, configuring the flow meter, etc.
11.	Switch provision required.	Separate switch provision required for Zero point calibration & Totalizer reading reset.
12.	Communication Socket required.	Separate RS 485 communication socket required for configuring flow meter.
13.	Calibration & Approvals	Custody Transfer approval, AGA 11 Conformance certification and Calibration Certificate on water and Natural Gas from accredited test labs with traceability acceptable internationally. Hazardous area compatibility, Weather proof certification i.e. IP67, Material Test, Manufacturer's certification.
14.	Pattern Approval Certificate	Pattern approval certificate from Legal Metrology Department, Govt. of India for Prover model has to be provided.
15.	Documentation	O&M manual with exploded view and part number, Compatibility certificate to use in hazardous area, Calibration Certification, Approval towards custody transfer from Govt. W&M department and OIML approved from the country of origin.

Tenderers to Note:

1.	The tenderer shall furnish detailed specification of the model offered , supported by product literature , brochure , point wise compliance, a) General arrangement drawing of complete system showing different component and confirmation. b) Arrangement of components and controls in the carrying case.
2.	The tenderer shall also furnish with the tender the name of the accredited laboratory from where the calibration certificate shall be furnished and a copy of the accreditation certificate with the name of accreditation body for verification.

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| 3. | The tenderer shall furnish documentary evidence and current reference toward offered model's application on natural gas service by reputed companies. |
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Quality Assurance

1. The supplier shall provide a certificate of compliance with the specified standards.
2. Any defective or non-compliant Master Mass Flow Meters (Prover system) must be replaced at the supplier's expense.

Packaging and Delivery

1. The Master Mass Flow Meters (Prover System) shall be securely packaged to prevent any damage during transit.
2. The supplier is responsible for delivering the Master Mass Flow Meters (Prover system) to the designated storage facility or site as specified by the purchaser.

After-Sales Support

1. The supplier shall provide support for any issues related to the supplied Master Mass Flow Meters (Prover system) including replacement of any faulty items identified upon delivery or during warranty period.

Duration

The duration for supply of 12 nos. of Master Mass Flow Meters (Prover System) at IGL store shall be 08 weeks from date of issuance of 1st intimation of award.

Penalty Clauses:

Supply: @ ½ % (Half Per Cent) per week of delay or part thereof of the value of the supply of material as defined in release orders.

Terms of Payment:

100% (Hundred Percent) Payment of invoice value: Shall be released on receipt of materials at IGL's stores against submission of material receipt certificate issued by owner, bill of entry / Goods Receipt, manufacturer's test certificates, invoice, packing list, insurance policy, dispatch clearance issued by the Owner.