



GOA NATURAL GAS PVT. LTD.

{A Joint Venture of Bharat Petroleum Corporation Limited (BPCL) & GAIL GAS Limited}

**TENDER FOR PROCUREMENT OF CNG PROVER KIT FOR NORTH GOA
GA**

Tender No : GNGPL/C&P/2025/T-05 Dated 21/06/2025

(OPEN DOMESTIC COMPETITIVE BID)

TECHNICAL VOLUME

(Volume II of II)

TECHNICAL SPECIFICATION

Sr. No.	Parameter	Specification Requirement
1.	Fluid	Compressed Natural Gas
2.	End Use	Calibration of CNG Dispenser
3.	Measuring Principle	Coriolis Principle
4.	Operating Pressure	0 to 300 Bar
5.	Ambient Temperature	-10 To 60 Degree Celsius
6.	Enclosure Box	Portable carrying strong casing made up of fibre. The protection cover is watertight, crushproof, and dust proof ideal for lifting and transportation
7.	Battery	Rechargeable type 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.
8.	Battery Charging	Provision for battery charging through AC Adaptor. Suitable port on the calibration kit is provided to fix adaptor for charging.
9.	Battery Enclosure	The enclosure for battery shall be of explosion and flame proof suitable for Gas Group II A & II B. Necessary certificate from CMRI and PESO provided.
10.	Pressure Gauge	Range: 0 — 400 bar, Dial Size: 63mm
11.	Calibration Kit Inlet Connection	NGV Receptacle for CAR, NZS Receptacle for CAR, NGV Receptacle for BUS
12.	Calibration Kit outlet Connection	Quick Release Coupling (QRC) — 1/2" Material: SS316
13.	Programmer for Zero Calibration.	Switch provision for Zero Point Calibration is Provided. The hardware should be intrinsically safe or stored in flame proof box. Intrinsically safe wiring and communication cables from Flow Meter to hardware and connection to battery.
14.	Communication Socket	Separate RS 485 communication socket required for configuring flow meter.
15.	Hoses	-3/8" ID outlet hose 3 Mtr. long for cars complete with receptacle and nozzle -1/2" ID outlet hose 3 Mtr. long for buses complete with receptacle and nozzle
16.	Tubing	Material SS 316
	Drain Valve	Valve to drain out gas within the tubing of the calibration kit.
18.	Mass Flow Meter	The Mass Flow Meter has a Sensor and Transmitter.
19.	Power Supply (Nominal) Input	24 V DC (No external power to be used during operation).
20.	Pattern Approval certificate	Pattern approved certificate from Legal Metrology Department of government of India for Calibration Kit.
21.	Calibration	Calibration certificate from FCRI shall be provided.
22.	PESO Approval	PESO Certificate of PROVER shall be provided.

List of Approved Make

Sr. No.	Item Description	Make
1.	SS FITTINGS	PARKAR/SWAGELOK/DKLOK
	SS BALL VALVES	PARKAR/SWAGELOK/DKLOK
3.	NGV NOZZLE- CAR	STAUBLI
4.	NGV NOZZLE- BUS	OPW
5.	SS TUBE 1/2"	PARKAR/SANDVIK/RATNAMANI
6.	SS TUBE 1/4"	PARKAR/SANDVIK/RATNAMANI
7.	FLOW METER	EMERSON/E&H
8.	PRESSURE GAUGES	WIKA/GIC
9.	QUICK RELEASE COUPLING	PARKAR
10.	CNG HOSE	PARKAR/EATON