

WM-8(8)/2017  
Government of India  
Department of Consumer Affairs  
Legal Metrology Division

Krishi Bhawan, New Delhi-01  
Dated: 26.2.2019

To

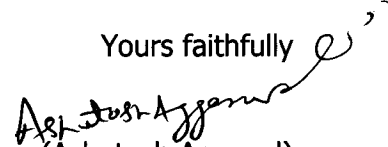
The Deputy Chief Executive Officer  
GeM, Room No. 255 A,  
5, Jeewan Tara Building, Sansad Marg,  
New Delhi-01

**Subject:** Procurement of Mass Flow Meters for verification of LPG dispensers for vehicles for Legal Metrology Departments of Union of India/ States/ UTs- request for uploading the equipment with its specifications on GeM –reg.

Sir,

Please find enclosed herewith technical specifications duly approved by the competent authority to upload the same on GeM portal for the above mentioned instruments, so that order may be placed accordingly as per the requirement of the user.

Yours faithfully

  
(Ashutosh Agarwal)

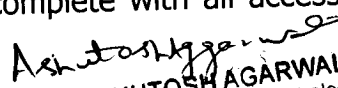
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For Director of Legal Metrology  
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Encl.: Technical Specifications

**TECHNICAL PARTICULARS OF MASS FLOW METER FOR VERIFICATION OF  
LPG DISPENSER FOR VEHICLES**

S. No.	PARAMETER	Requirement
1	Fluid	Liquid Petroleum Gas
2	End Use	Verification of LPG dispensing stations for vehicles
3	Measuring Principal	Coriolis Principle
4	Operating Pressure	Max. 20 bars (300 Psi)
5	Ambient Temperature	-10 to 60 degree Celsius
6	Hazardous Certification Area	ATEX EEx ib IIB T5 or better duly approved by PESO India
7	Flow Range	0 to 4500 Kg/hr
8	Accuracy	±0.1% of mass flow rate reading or better inclusive of zero point stability, repeatability, hysteresis
9	Repeatability	0.05% of rate or better
10	Meter tube Size	25mm (1" to ¾") (Pressure drop at max. flow not to exceed 1.2 bar)
11	Protection	IP-65 or better
12	Tube Material	Stainless Steel
13	End Connection	25 mm (1") 300 Psi/20 bar ANSI Flange connection
14	Power Supply (nominal) input	24 V D.C.
15	Output (Active)	4-20 mADC and frequency
16	Display	Integral display with Touch Screen for temperature, mass flow, totalized flow and configurable to display volume (minimum 2 line display)
17	Communication	HART or MODBUS
18	Locking arrangement	Inbuilt Hardware & Software Lock
19	Calibration	Calibration Certificate with water as medium and using gravimetric method for calibration has to be furnished for each instrument from NPL/ FCRI/ any Government Laboratory at the time of supply.
20	Zero setting	Flow Meter should have provision for zero setting after every delivery through an independent switch/ key.
21	Pattern certificate approved	Pattern approved Certificate from Legal Metrology Department of Government of India for the model of flow meter quoted to be furnished with tender. It shall also be verified at the time of pre-despatch inspection.
22	PESO approval	Certificate of approval of PESO for whole kit to comply safety norms.

Flow meter shall be housed in a portable carrying case with battery for 4 hrs. back up in flame proof battery case and battery charger complete with all accessories and

  
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fittings required for conducting verification of LPG Dispensing Stations including the following:

- a) Pressure gauge 0 – 25 bar (GIC/WIKA/MASS/BAUMER make)
- b) Ball valves 300 Psi – 2 Nos (Parker/Swage Lock make)
- c) Outlet hose –  $\frac{3}{4}$ " , PN25, 1.5m or 3 m with brass or SS end connection and suitable adapter
- d) Stud bolts for flanges (300 Psi/20 bar) – 2 sets
- e) Outlet Nozzle 1" x  $\frac{3}{4}$ " Parker/OPW/Maxwell/Gates/Eaton make

Any accessories or fittings necessarily required for the intended end use, which may or may not be specifically listed in the specification shall be included in the scope of supply.

*Ashutosh Agarwal*

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Government of India  
Deptt. of Consumer Affairs  
Min. of Consumer Affairs, Food & P.D.  
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Laboratory and Measuring and Observing and Testing Equipment; UNSPSC CODE:- 41							
Measuring and observing and testing instruments; UNSPSC CODE:- 4111							
Liquid and gas flow measuring and observing instruments; UNSPSC CODE:- 411125							
Mass Flow Meter For Verification of LPG Dispenser For Vehicles as Per Specification;UNSPSC CODE:- 4111698							
S. No	Parameter	Field type	Field Category	LOV			Unit/Remark
<b>CONFORMITY</b>							
1	Conformity to Technical Requirements	Enumerable	Mandatory	As per Approved Specification of Department of Consumer Affairs Legal Metrology Division for 'Mass Flow Meter For Verification of LPG Dispenser For Vehicles', vide letter No. WM-8(8)/2017 Dated 26th February, 2019. (Copy of Approved Specification uploaded in GeM portal)			
2	Availability of Department of Consumer Affairs Legal Metrology Division Specification for 'Mass Flow Meter For Verification of LPG Dispenser For Vehicles'	Enumerable	Mandatory	Yes			
3	Department of Consumer Affairs Legal Metrology Division Specification has been seen, read and understood	Enumerable	Mandatory	Yes			
4	Scope of supply of Mass Flow Meter For Verification of LPG Dispenser For Vehicles' covers all components / accessories complete as per governing Specification	Enumerable	Mandatory	Yes			
<b>CERTIFICATION</b>							
1	Availability of Test Reports from Central Govt / NABL approved / ILAC accredited Lab to prove conformity to the Specification	Enumerable	Golden	Yes	No		
2	If Yes, Test Report to be furnished to the Buyer on demand	Enumerable	Mandatory / Filter	Yes	NA		
3	Test Report No. and Date (hint:- May indicate 'NA' if Test Report is not available)	Text	-				AKBNV
4	Name of the Lab and Address (hint:- May indicate 'NA' if Test Report is not available)	Text	-				AKBNV

**AKBNV: Allow Key But Not Value**

**Creator**  
JITENDER-TA

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**Approval**  
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