

Bokaro Power Supply Company (P) Limited
(A Joint Venture of SAIL & DVC)
Hall No. M-01, Old Administrative Building
Ispat Bhawan, Bokaro Steel City 827 001

Ref : BPSCL/MM/24-25/PUR-002/NIT-006/Corrigendum-01

Date: 09.05.2024

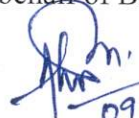
CORRIGENDUM / ADDENDUM

TENDER NOTICE NO. BPSCL/MM/24-25/PUR-002/NIT-006 Dated 16.04.2024

Subject: Procurement of Thermal Mass Flow Meters for CO, BF and LD gas.

Annexure- IV "The detailed specifications of Thermal Mass Flow Meters for CO, BF and LD gas" is being added to the referred Tender Document.

For and on behalf of BPSCL


09.05.2024
(A K Das)
CGM (MM)

Specifications for Thermal Mass Flow Meter for CO, BF & LD Gas:

Insertion type Thermal Mass Flow Meter; One each for CO, BF & LD Gas

- Type – Insertion type with Base Valve Fitting
- Process Pressure is Max. - 1000 mm WC
- Working Temperature – Upto 150 Degree C
- Accuracy - $\pm 3\%$ of FS
- Repeatability - $\pm 0.5\%$ of Full Scale
- Power Supply – 24V DC
- Output – 4 to 20mA with Modbus / HART Compatible
- Probe Material – SS316
- Protection – IP66 / IP67
- LCD Display: **Instantaneous Flow and Accumulated Flow**
- Probe Length – Should be adjustable & suitable for line size & flow rate mentioned below:
- Qty.- a) 01 No. for CO Gas: Line Size- DN 1200 mm NB, Flow Rate- 0 to 80,000 Nm³/Hr.
b) 01 No. for BF Gas: Line Size- DN 2600 mm NB, Flow Rate- 0 to 3.5 lakh Nm³/Hr.
c) 01 No. for LD Gas: Line Size- DN 1600 mm NB, Flow Rate- 0 to 40,000 Nm³/Hr.

Composition of Gases:

Chemical Name	Chemical Formula	% Volume		
		CO GAS	BF GAS	LD GAS
Nitrogen	N ₂	5.0 – 6.0	49.0 – 55.0	12.0 - 15.0
Carbon monoxide	CO	5.0 – 6.0	22.0 – 23.0	65.0 - 70.0
Carbon dioxide	CO ₂	1.0 – 2.0	22.0 – 23.0	10.0 - 15.0
Hydrogen	H ₂	55.0 – 60.0	2.0 – 4.5	0.9 - 1.0
Oxygen	O ₂	0.5 - 1.0	0.0	0.5 - 1.0
Methane	CH ₄	20.0 – 25.0	0.0	0.0
Water Vapour	H ₂ O	2.0 – 3.0	0.0	3.0 – 4.0

