

Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 11:00:00
Bid Opening Date/Time	20-07-2020 11:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	40 (Days)
Ministry/State Name	Ministry Of Coal
Department Name	Materials Management
Organisation Name	Nlc
Office Name	Materials Management
Total Quantity	2
Item Category	Multi Gas Detector
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

Multi Gas Detector (2 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
TYPE/APPLICATION/TECHNOLOGY	Type	Portable /Handheld	Portable /Handheld
	Technology	Electro-Chemical type - replaceable sensor and Catalytic Type	*
	Functions	To generate audio -visual alarm at Preset value along with simultaneous digital display of i) Lower Explosive Limit(LEL) ii) O2 iii) H2S iv)Any one of the selectable gas such as (CO/NH3/SO2/CL2 etc)	*
	Detactable Gases	Combustible Gas-Lower Explosive Limit(LEL),Oxygen(O2),Carbon Monoxide(CO),Hydrosulfide (H2S)	Combustible Gas-Lower Explosive Limit(LEL), Oxygen(O2), Hydrosulfide(H2S), Carbon Monooxide(CO)
	Preset Value (To generate audio- visual alarm)	User Setable	*
	Gases for which Preset value to be set by user	Lower Explosive Limit(LEL),Oxygen(O2),Carbon Monooxide(CO),Hydrosulfide(H2S)	*
AREA OF USE - HAZARDOUS AREA CLASSIFICATION	Hazardous area classification standard	IEC 60079 (latest)	*
	Area of use - Hazardous area classification	Intrinsically safe for use in hazardous area classification conforming to Class I, Division I, Group A, B, C & D or Zone - 0, Group-IIA, IIB & IIC	Intrinsically safe for use in hazardous area classification conforming to Class I, Division I, Group A, B, C & D or Zone - 0, Group-IIA, IIB & IIC
MEASUREMENT OF Combustible Gas- Lower Explosive Limit(LEL)	Measurment Range of Combustible gas(LEL)	0 -100 %	0 -100 %
	Resolution of the Combustible gas(LEL) measurement	1 %	1 %

MEASUREMENT OF OXYGEN(O ₂)	Measurment Range of Oxygen(O₂) gas concentration	0 -25 %	0 -25 %
	Resolution of the Oxygen(O₂) measurement	0.1	0.1
MEASUREMENT OF HYDROGEN SULFIDE (H ₂ S)	Measurment Range of HYDROGEN SULFIDE (H₂S) gas concentration	0 -100 ppm	0 -100 ppm
	Resolution of the HYDROGEN SULFIDE (H₂S) measurement	1 ppm	1 ppm
MEASUREMENT OF SELECTABLE GAS(CO/NH ₃ /SO ₂ /Cl ₂ etc)	Measurment Range of Selectable Gas(CO/NH₃/SO₂/Cl₂)	0 -500 ppm	0 -500 ppm
	Resolution of the Range of Selectable Gas(CO/NH₃/SO₂/Cl₂) measurement	2 ppm	2 ppm
PERFORMANCE PARAMETER OF THE DETECTOR	Accuracy	+/- 2 % of measured value	*
	Response time to reach to 90% of measured value(with Sampling pumping house)	30	*
SAMPLING PUMP	Sampling Pump	NA	NA
	Remote Sampling Accessories in the scope of Supply	NA	NA
POWER SOURCE	Power Source	Rechargeable Batteries;	Rechargeable Batteries;
	Battery Size	Inbuilt Replaceable rechargeable Battery	*
	Battery chemistry	Li-ion	*
	"Number of Batteries required for operation "	One Number of Inbuilt replacable rechargeable Batteries	*
	Number of Batteries Inclusive in the Scope of Supply	1	*
	Battery capacity (mAH)	2000	*
	Operation time on fully charged battery(With Pump operation)	60	*
	Suitable Battery Charger operable with	Yes	*

	230 V + 5%, 50 Hz AC inclusive in the scope of supply		
GENERIC	Display	Self-illuminating back-light digital display	*
	Housing Material	ABS	*
	Enclosure Protection rating	IP 67	*
	Overall Dimension(W x D x H) (mmxmmxmm)	-	*
	Weight(Including Battery & Sampling pump)	< 500 gram(Handheld/ Portable)	*
	Connectivity interface	USB	*
	Weight of Equipment(Including Battery & Sampling pump)	6 - 8 kg	*
	RF Protection	Compliant with EMC directive against EMI/RF interferences	*
	Application	-	*
FEATURES	Salient Features	Two Levels of alarms for TWA (Time Weighted Average) & STEL (Short Term Exposure Limit),Low battery indication,The Set Points are adjustable over entire Range,Calibration due date indication,Data logging,Hand free Operation	*
	Display Features	Simultaneous Display for all four gases	*
	Audio Visual Alarm	configurable alarm patterns frequencies and volumes	*
ACCESSORIES	Accessories in the scope of supply	Calibration cup/adaptor/calibration tubing to facilitate calibration locally,Operation Manual	*
WARRANTY/SERVICE	Warranty on Equipment	24	24 Or higher
	Warranty on Sensor	24	24 Or higher
	Maximum Time period	two weeks (from	*

	within which any defects reported be rectified, at the buyer/consigne site, without any extra cost during warranty period of equipment	reporting of the defect)	
OPERATING ENVIRONMENT	Minimum Operating Temperature	-20	*
	Maximum Operating Temperature	50	*
	Opeating Humidity	Up to 90%(Non-Condensing)	*
GENERAL TECHNICAL REQUIREMENTS (GTR)	Other General Requirement	<p>a) Agreed to provide Declaration on the cross-sensitivity of sensor with other gasses, to the buyer at the time of supply. b) Agreed to pre despatch inspection of the material by byuer/ buyer's authorized Inspection Agency, if applicable. c) Agreed to provide details regading frequency of calibration as recommendad by OEM or calibration frequency is once in six month whichever is earlier. d) Agreed to provide certificate for area of use (hazardous area) and Enclosure Protection Rating Certificate by accredited agencies like FM/UL/CENELEC/BA SSEFA/ ATEX/CIMFR/IEC Ex/CSA/SAA/TIIS/INMET RO/CUTR etc. e) Agreed to provide PESO approval Certificate to the buyer at the time of supply. f) Agreed to provide 2 free calibration services per year during warranty period. g) Agreed to provide authorized supplier having valid authorization from OEM. All other details</p>	*

		shall be as per ANSI/ISA 92.0.01 to 92.06.01 or equivalent IEC standards(In Case of Reseller). h)Agreed to provide relevant technical literature of the offered instrument with make & model with copy of relevant approval, including sensor specification sheet for sensor used in the instrument.	
CALIBRATION CERTIFICATE	Calibration Certificate provided	Yes	*
	Calibration Certificate issuing authority	OEM Certificate	*
TEST REPORT	Type of lab which carried out Test of Complete Product to prove the conformity of product as per specification	OEM	*
	Test Report Number and Date	-	*
	Name and address of the Lab where Test conducted	-	*

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Meganathan Rajangam	607807,MINES SUB STORES, NEW SERVICE UNIT, NLC INDIA LIMITED, NEYVELI	2	30

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---