

**OIL & GAS DEVELOPMENT COMPANY LIMITED  
PROCUREMENT DEPARTMENT, ISLAMABAD  
FOREIGN SECTION C**

(To be completed, filled in, signed and stamped by the principal)

**ANNEXURE 'A'**

**Material** H2S GAS DETECTORS AND CALIBRATION KIT  
**Tender Enquiry No** PROC-FC/CB/PE&FD-3139/2017  
**Due Date**  
**Evaluation Criteria** FULL

**SCHEDULE OF REQUIREMENT**

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
1	H2S GAS DETECTOR (RANGE 0-100 PPM) WITH ACCESSORIES COMPLETE IN ALL RESPECTS AS PER ATTACHED INSTRUCTIONS, DETAILED SPECIFICATION IS ATTACHED AT FLAG-B.	Number	30					
2	PORTABLE TYPE COMPLETE CALIBRATION KIT AND TESTING EQUIPMENT WITH CALIBRATION GAS CYLINDERS DETAILED SPECIFICATION IS ATTACHED AT FLAG-B SERIAL NO. 29&30.	Number	1					

**Note:** NOTE:- PURSUANT TO TENDER CLAUSE # 2.2, 11.4, 13 & 35.3.2, BID BOND AMOUNTING TO US\$ 1,300/- (US DOLLARS ONE THOUSAND THREE HUNDRED ONLY) OR EQUIVELANT TO PAK RUPES MUST BE SUBMITTED WITH THE TECHNICAL BID. (2) EVALUATION CRITERIA: FULL CONSIGNMENT WISE ON C&F BY SEA, KARACHI.

*Yelled*

  
**HINA**  
 PDMS Officer (Prod.)  
 Ext: 2803  
 6/24/17

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 		<b>DETAILED SPECIFICATION SHEET</b> <b>H2S Gas Detectors [Fixed Type] and Calibration Kit</b>
<b>General</b>		
1	Gas Detection (Product)	H2S Gas Detection
2	Detection Range	0-100 PPM
3	Sensor Type	Electrochemical Cell
4	Display	Built-in local LCD Continuous display target gas concentration in PPM Flashing screen in alarm mode
5	Input Power Supply	20-30 VDC
6	Mounting	Wall/ frame mounting
7	Modes	Normal operation, set-points, calibration, set-up
8	User Input	built-in magnetic switch for selection of mode
9	Output	4-20 mA analog signal output, visible output LCD display
10	Wiring	3-Wire
11	Quantity Required	Thirty (30) with accessories [if required for normal operation of equipment]
<b>Environmental Specification</b>		
12	Operating Temperature	-10 to 70°C
13	Storage Temperature	0 to 70°C [Electronics] 0 to 20°C [Sensor]
14	Pressure Range	Atmospheric ± 20%
15	Operating Humidity	0-100%RH, non-condensing
16	Enclosure / Controller Housing	Explosion proof approved epoxy coated aluminium housing for Class 1, Division 1, Group A, B, C & D
17	Sensor Housing	Explosion proof approved stainless steel housing for Class 1, Division 1, Group A, B, C & D
18	Wiring Terminals	22 to 14 AWG
19	Conduit Entries	3/4" NPT
20	Performance Approval	FM, ATEX and IEC approved
21	Ingress Protection	IP66
<b>Performance Specifications</b>		
22	Response Time (T90)	Not more than 30 sec
23	Accuracy	± 6% of full scale
24	Alarms	2 alarm setpoints (user programmable high alarm and low alarm)
25	Calibration Guide	On screen calibration instructions
26	Diagnostics	Sensor diagnostic software for sensor replacement/ maintenance reminder
27	Guarantee/ Warranty	Yes [5 Years, minimum 1 year for cell from date of installation or 18 months from date of shipment]
28	Shipment	Fully assembled and pre-calibrated shipment within 03 Months after establishment of L/C
<b>Calibration Kit</b>		
29	Calibration Gas Cylinders	Yes - (Qty: 2) as per manufacturer's recommended specifications, minimum 6 months shelf life
30	Calibration Kit [manufacturer's standard item]	Yes - (Qty: 1) Complete calibration and testing equipment including precision constant flow valve regulator, tubing, adaptor cup to introduce test gas into sensor complete with carrying case which also has room for storing disposable cylinder of test gas
<b>Operational Spares</b>		
31	2 Years operational spares	Yes [List required with item wise price] Not to be included in Financial evaluation
<b>Documentation</b>		
32	O & M Manuals	Yes
33	Bench mark testing reports	Yes
34	Factory Calibration Certificates	Yes
35	Certificate of Origin	Yes
36	Certificate of Conformity	Yes
37	Documentation	Startup/Configuration/O&M manual (hard & soft copy)
38	Required Manufacturing Experience	Minimum 10 years for same type of material

## Instructions to Bidder/Supplier:

- i. Bidder/Manufacturer shall be responsible for the compliance of **SOR**
- ii. Bidder/Manufacturer shall be responsible for the compliance of Detailed Specification sheet placed at **Flag-B** for H2S Gas Detector and Calibration Kit.
- iii. Bidder/manufacturer should have a set up for successful selling and back-up services for same type of material for Pakistan.
- iv. Previous track record of the bidder / manufacturer and performance of equipment(s) will also be considered for technical evaluation.
- v. Bidder/Manufacturer should quote directly without involving the supply houses.
- vi. Calibration Kit for calibration of H2S Detectors as mentioned in Specification sheet serial # 29&30 is required to quote separately and same will be the part of financial evaluation.
- vii. Additional required 2 years operational spares as mentioned in Specification sheet are also required to be quoted separately with item wise price list which will not be included in financial evaluation but selection for order any accessories/spares will be on OGDCL decision. Mentioned full consignment wise Evaluation criteria in SOR is excluding of 2 years operational spares.
- viii. Bidder is required to quote complete unit along with all accessories if required for equipment's normal operation and these accessories should be included in financial evaluation. If bidder failed to quote such accessories /spares if required for normal operation of equipment, the highest price(s) quoted by any bidder will be considered for financial evaluation on his behalf.
- ix. Optional accessories not to be considered for financial evaluation.
- x. Warranty period for each item must be clearly mentioned in bid and equipment(s) will be supplied with original Certificate of Calibration / Performance and certificate of Warranty Guarantee issued by OEM.
- xi. For item at serial # 30 of Specification sheet, bidder should have to quote make/model and bidder will have to confirm its compatibility with quoted main equipment i.e. H2S Gas detector.
- xii. Supplier is bound to provide back-up services regarding repair & maintenance, trouble shooting and supply of all accessories and spares for next five years, declaration should be submitted with the bid.

- xiii. Bidder/Manufacturer shall be responsible to ensure the delivery of material within **03 Months after establishment of L/C.**
- xiv. Bidder/Manufacturer shall be responsible to ship fully assembled and pre calibrated equipment.
- xv. Incomplete / non provision of Make, Model and detailed specification of all quoted items may lead to disqualification.

### **Necessary Attachments/Documents:**

1. Complete **Technical data, literature** and other relevant documents in Hard/ Soft Copies.
2. **Documentation/ Certificates** mentioned in specification/ Data sheet (Flag-B)
3. Valid ISO 9001-2008 certificate for manufacturing of quoted product.
4. **Original Authority letter** issued by the manufacturer to bidder and to local agent (if any) not only for quoting their product but also for declaration of back-up services regarding repair & maintenance, trouble shooting and supply of optional accessories or spare for quoted product for at least **05 years.**
5. Complete profile of the local agent of the bidder/manufacturer showing their client list in Pakistan with their Contact numbers & contacting person, services and years of supplying quoted equipment (**copy of at least 3 POs required**)
6. Certificate of Calibration/performance & certificate of Warrantee Guarantee must be submitted at the time of delivery.