

OIL & GAS DEVELOPMENT COMPANY LIMITED PROCUREMENT DEPARTMENT (LOCAL), ISLAMABAD SCHEDULE OF REQUIREMENT



Material :Requirement of Calibration Gas Cylinders for Various Field Locations

Tender Enquiry No: prod-18639/2021

EVALUATION WILL BE CARRIED OUT ON FULL PKG.

Due Date:

Bid Bond Value: RS.500,000/--

Attachment(if any): YES

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CALIBRATION GAS CYLINDER WITH COMPATIBLE REGULATOR,50 LITERS ALUMINUM/STEEL CYLINDER WITH SS VALVE,CYLINDER PRESSURE 90 BAR, FOR CALIBRATION OF GAS CHROMATOGRAPH, GAS COMPOSITION AND DETAIL	LITRES STEEL CYLINDER WITH SS VALVE, CYLINDER PRESSURE 90 BAR, FOR CALIBRATION OF GAS CHROMATOGRAPH. GAS COMPOSITION AND DETAIL SPECIFICATION IS ATTACHED AT ANNEXURE—B (BOBI)	CALIBHA IJON GAS CYLINDER WITH COMPATIBLE HEGULATOH, 50 LITRES ALUMINUM CYLINDER WITH SX VALVE, CYLINDER PRESSURE 90 BAR, FOR CALIBRATION OF GAS, CHROMATOGRAPH. GAS COMPOSITION AND DETAIL SPECIFICATION IS ATTACHED AT ANNEXURE-K (KPD) CALIBRATION GAS CYLINDER WITH COMPATIBLE BEGLINATOR FOR	CALIBRATION GAS CYLINDER WITH COMPATIBLE REGULATOR, 50 LITERS STEEL CYLINDER WITH SS VALVE, CYLINDER PRESSURE 90 BAR, FOR CALIBRATION OF GAS CHROMATOGRAPH. GAS COMPOSITION AND DETAIL SPECIFICATION IS ATTACHED AT ANNEXURE—T (TOC)	CALIBRATION GAS CYLINDER WITH COMPATIBLE REGULATOR, 50 LITERS STEEL CYLINDER WITH SS VALVE, CYLINDER PRESSURE 90 BAR, FOR CALIBRATION OF GAS CHROMATOGRAPH. GAS COMPOSITION AND DETAIL SPECIFICATION IS ATTACHED AT ANNEXURE—N (NASHPA)	CALIBRATION GAS CYLINDER WITH COMPATIBLE REGULATOR, 50 LITERS STEEL CYLINDER WITH SS VALVE, CYLINDER PRESSURE 90 BAR FOR CALIBRATION OF GAS CHROMATOGRAPH. GAS COMPOSITION AND DETAIL SPECIFICATION IS ATTACHED AT ANNEXURE—Tg (TOGH)	CALIBRATION GAS CYLINDER WITH COMPATIBLE REGULATOR, 50 LITERS ALUMINUM CYLINDER WITH SS VALVE, CYLINDER PRESSURE 90 BAR, FOR CALIBRATION OF GAS CHROMATOGRAPH. GAS COMPOSITION AND DETAIL SPECIFICATION IS ATTACHED AT ANNEXURE-U (UCH)	CALIBRATION GAS CYLINDER WITH COMPATIBLE REGULATOR, 10 LITERS ALUMINUM CYLINDER WITH SS VALVE, CYLINDER PRESSURE 45 BAR, FOR CALIBRATION OF GAS CHROMATOGRAPH. GAS COMPOSITION AND DETAIL SPECIFICATION IS ATTACHED AT ANNEXURE-U (UCH)	Description
· ယ		· N.				· <u>-</u>	ហ	Quantity
			11.0					Make/Brand offered
Number		Number	Number	Number	Number	Number	Number	Unit
								Unit Price (PKR) Inclusive Of All Taxes Except GST
								Unit Price (PKR) Inclusive of GST
	,							Total Price (PKR) Inclusive of GST
								Delivery Period Offered
-			The second secon					deviation from Tender Spec. If Any



OIL & GAS DEVELOPMENT COMPANY LIMITED PROCUREMENT DEPARTMENT (LOCAL), ISLAMABAD SCHEDULE OF REQUIREMENT



Material :Requirement of Calibration Gas Cylinders for Various Field Locations

Due Date:

Tender Enquiry No: prod-18639/2021

EVALUATION WILL BE CARRIED OUT ON FULL PKG.

S				Sr No
SPECIFICATION IS ATTACHED AT ANNEXURE-S (SINJHORC				Description
-S (SINJHORO)				Quantity
			offered	Make/Brand
				Unit
	Of All Taxes Except GST	Inclusive	(PKR)	Unit Price
	GST	Inclusive of	(PKR)	Unit Price
	GST	Inclusive of	(PKR)	Total Price
			Period	
		Апу	Tender Spec.	deviation fron

Special Note: The prospective bidders also download the master set of Tender Document

- The prospective bidders may keep in touch with OGDCL web site for downloading the clarifications/amendments (if any) issued by OGDCL.
 BID VALIDITY:180 DAYS FROM TECHNICAL BID OPENING, DELIVERY PERIOD:120 DAYS AFTER ISSUANCE OF LPO PAYMENT: AFTER ISSUANC

Letted

FDMS Officer (Pr...!.)
Extn. 2797

<u>Tender Enquiry No. PROD-18639/2021 for Requirement of</u> <u>Calibration Gas Cylinders for Various Field Locations</u>

Delivery Locations:

Serial No. 1 & 2 of SOR:

Uch Gas Field

Serial No. 3 of SOR:

Togh Field

Serial No. 4 of SOR:

Nashpa Field

Serial No. 5 of SOR:

TOC

Serial No. 6 of SOR:

KPD

Serial No. 7 of SOR:

Bobi Field

Serial No. 8 of SOR:

Sinjhoro Field

Instructions to Bidder/Supplier:

- i. Bidder/Supplier shall be responsible for the compliance of SOR
- ii. Bidder/ Supplier shall be responsible for the compliance of detailed composition of required calibration gas cylinders specified at Annexure-B, Annexure-K, Annexure-N, Annexure-S, Annexure-T, Annexure-Tg and Annexure-U.
- iii. Mole% composition given against each component at attached annexures is approximate value, hence 1-2% margin will be acceptable for offered gas calibration cylinders.
- iv. Each Calibration gas cylinder is required with compatible regulator.
- v. Bidder/ Supplier shall be responsible to ensure the delivery of material within
 02 Months after issuance of LPO.
- vi. Each Calibration cylinder is required to be delivered at desired field location as mentioned at attached annexures.

Necessary Attachments/Documents:

- 1. Complete Technical data, Literature, calibration gas composition certificate and other relevant documents in Hard Copies.
- 2. Valid material test certificates to ensure that cylinder material is safe for use of filled gas mixture.
- 3. Copy of at least 3 POs for same type of material to be provided with the bid.
- 4. Warrantee Guarantee must be confirmed with the technical bid.

Annexurė-B

Required Composition of Calibr	ation Gas Cylinder for Bobi Gas Field		
Cal Gas Cylinders Composition and Specification	GC (ABB NGC-8206)		
Delivery Location	Bobi		
Specifications			
Cylinder Material Type	Steel with SS valve		
Cylinder Volume	50L		
Cylinder Pressure	90 Bar		
	With Comaptible Regulator (Adjustable Outlet Pressure 0-4 Bar)		
With or Without Regulator			
Accuracy	± 1%		
Quantity	01 No		
Shelf Life	36 months		
Composition			
Nitrogen (Mol %)	7.18487		
Carbon Dioxide (Mol %)	3.58613		
Methane (Mol %)	67.78204		
Ethane (Mol %)	14.37264		
Propane (Mol %)	5.59159		
IsoButane (Mol %)	0.50684		
N-butane (Mol %)	0.8574		
Isopentane (Mol %)	0.07874		
N-pentane (Mol %)	0.04899		
N-hexane (Mol %)	0.0076		



Annexure-K

	sition of Calibration Gas Cylinder	TOT RED Gas Field	
Cal Gas Cylinders Composition and Specification	GC1 (X770)	GC2 (X700)	
Delivery Location	KPD-TAY		
Specifications			
Cylinder Material Type	Aluminum with SS Valve	Aluminum with SS Valve	
Cylinder Volume	50L	50L	
Cylinder Pressure	90 Bar	90 Bar	
	With Comaptible Regulator	With Comaptible Regulator	
	(Adjustable Outlet Pressure 0-4	(Adjustable Outlet Pressure 0-4	
With or Without Regulator	Bar)	Bar)	
Accuracy	± 1%	± 1%	
Quantity	01 No	01 No	
Shelf Life	24 months	24 months	
Composition			
Nitrogen (Mol %)	. 2	2	
Carbon Dioxide (Mol %)	3	3	
Methane (Mol %)	Balance	Balance	
Ethane (Mol %)	5.5	5.5	
Propane (Mol %)	1.5	1.5	
IsoButane (Mol %)	0.2	0.2	
N-butane (Mol %)	0.3	0.3	
sopentane (Mol %)	0.05	0.05	
N-pentane (Mol %)	0.03	0.03	
N-hexane (Mol %)	0.05	0.05	
Methyl Mercaptan	8ppm	Not Required	
Hydrogen Sulphide (ppm)	20ppm	20ppm	



Annexure-N	
Required Composition of Calibra	tion Gas Cylinder for Nashpa Gas Field
Cal Gas Cylinders Composition and Specification	GC (ABB NGC-8206 & Daniel 700XA
Delivery Location	Nashpa
Specifications	
Cylinder Material Type	Steel with SS valve
Cylinder Volume	50L
Cylinder Pressure	90 Bar
	With Comaptible Regulator (Adjustable Outlet
With or Without Regulator	Pressure 0-4 Bar)
Accuraçy	± 1%
Quantity	01 No
Shelf Life	36 months
Composition	
Nitrogen (Mo! %)	0.3
Carbon Dioxide (Mol %)	1.8361
Methane (Mol %)	89,4644
Ethane (Mol %)	7.0995
Propane (Mol %)	0.6
IsoButane (Mol %)	0.2
N-butane (Mol %)	0.2
Isopentane (Mol %)	0.1
N-pentane (Mol %)	0.1
N-hexane (Mol %)	0.1

Annexure-S

Cal Gas Cylinders Composition and Specification	2 NGC (ABB 8206)	2 GCs With H2S Detection (ABB 8206)
Delivery Location	Sinji	noro
Specifications		
Cylinder Material Type	Steel with SS Valve	Aluminum with SS Valve
Cylinder Volume	50L	50L
Cylinder Pressure	90 Bar	90 Bar
	With Comaptible Regulator	With Comaptible Regulator
With or Without Regulator	(Adjustable Outlet Pressure 0-4	(Adjustable Outlet Pressure 0-4
	Bar)	Bar)
Accuracy	± 1%	± 1%
Quantity	02 No	01 No
Shelf Life	36 months	24 months
Composition		
Nitrogen (Mol %)	6.49536	
Carbon Dioxide (Mol %)	2.77584	
Methane (Mol %)	76.92448	
Ethane (Mol %)	12.34172	
Propane (Mol %)	1.39186	
IsoButane (Mol %)	0.0309	
N-butane (Mol %)	0.03538	
Isopentane (Mol %)	0.00192	
N-pentane (Mol %)	0.00112	
N-hexane (Mol %)	0.00134	
Hydrogen Sulphide (ppm)		3-10 PPM

Annexure-T

Annexure-T						
Required Composition of Calibration Gas Cylinder for TOC Gas Field						
Cal Gas Cylinders Composition and Specification	GC (ABB BTU-8000)					
Delivery Location	TOC					
Specifications						
Cylinder Material Type	Steel with SS valve					
Cylinder Volume	50L					
Cylinder Pressure	90 Bar					
	With Comaptible Regulator (Adjustable Outlet					
With or Without Regulator	Pressure 0-4 Bar)					
Accuracy .	± 1%					
Quantity	01 No					
Shelf Life	36 months					
Composition						
Nitrogen (Mol %)	1.2					
Carbon Dioxide (Mol %)	2.6					
Methane (Mol %)	Balance					
Ethane (Mol %)	8.3					
Propane (Mol %)	4.1					
IsoButane (Mol %)	0.78					
N-butane (Mol %)	0.84					
Isopentane (Mol %)	0.34					
N-pentane (Mol %)	0.18					
N-hexane (Mol %)	0.25					



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Gas Cylinder for Togh Gas Field		
GC (ABB NGC-8206)		
Togh		
Steel with SS valve		
50L		
90 Bar		
With Comaptible Regulator (Adjustable		
Outlet Pressure 0-4 Bar)		
± 1%		
01 No		
36 months		
0.7724		
0.6537		
94.1105		
2.7424		
0.7065		
0.2253		
0.2225		
0.146		
0.1067		
0.314		



Annexure-U

Required Compos	ition of Calibration Gas Cylin	der for Uch Gas Field		
Cal Gas Cylinders				
Composition and	GC (for Sale Gas)	GC (for Feed Gas)	GC (H2S)	
Specification	,			
Delivery Location		Uch		
Specifications				
Cylinder Material Type	Aluminum with SS valve	Aluminum with SS valve	Aluminum with SS valve	
Cylinder Volume	10L	10L	50L	
Cylinder Pressure	45 Bar	45 Bar	90 Bar	
	With Comaptible Regulator	With Comaptible Regulator	With Comaptible Regulator	
With or Without Regulator	(Adjustable Outlet Pressure 0-	(Adjustable Outlet Pressure 0-	(Adjustable Outlet Pressure 0-	
· .	4 Bar)	4 Bar)	4 Bar)	
Accuracy	± 1%	± 1%	± 1%	
Quantity	04 Nos	01 Nos	01 Nos	
Shelf Life	24 months	24 months	24 months	
Composition		2111011113	24 11011(1)5	
Nit _en (Mol %)	23.99	20.9638		
Carbon Dioxide (Mol %)	Balance	Balance		
Methane (Mol %)	40.24	35.5254		
Ethane (Mol %)	1.05	0.9276		
Propane (Mol %)	0.39	0.3487		
IsoButane (Mol %)	0.103	0.1		
N-butane (Mol %)	0.118	0.1122		
Isopentane (Mol %)	0.0603	0.063		
N-pentane (Mol %)	0.042	0.0448		
N-hexane (Mol %)	0.157	0.102		
Hydrogen Sulphide (ppm)	20	500	50	