



GAIL (India) Limited
CENTRAL INTEGRITY MANAGEMENT GROUP, NOIDA

NOIDA
30th July, 2018

Expression of Interest (EOI) – EOI for seeking interest to buy 12 numbers of GTC Units/Skids installed at Hazira and Jhabua Compressor Stations of GAIL as and where basis.

The instant EOI shall not be construed as Empanelment Exercise or Tender Terms & Conditions. EOI is being floated to seek interest and to get a feedback from prospective interested Vendor(s) to participate in the future bidding process.

GAIL (India) Limited is operating a large network of Natural Gas Pipelines across India. There are intermediate Compressor Stations along HVJ pipeline network.

Due to present operating conditions, GTC Units of Hazira and Jhabua have been kept in stand-by mode. GAIL intends to explore the possibility to phase-out of these GTC Units.

This EOI is being published to seek interest from prospective Vendors having requisite works experience to buy 12 numbers (05 numbers of Hazira and 07 numbers of Jhabua) of GTC Units as and where basis.

The completed Application Form along with attachments, if any, to be mailed to cmggroup@gail.co.in latest by **30.09.2018**.

ADDRESS FOR APPLICATION FORM & DOCUMENTS SUBMISSION

Chief General Manager (O&M)-CO
GAIL (India) Ltd
20th Floor, Jubilee Tower, B-35, 36, Sector-1,
Noida-201301, Uttar Pradesh, India
Email: cmggroup@gail.co.in
Contact no: +91-(120) 2446400/4862400

1.0 BACKGROUND:

GAIL (India) Ltd is a Central Public Sector Undertaking (PSU) under the Ministry of Petroleum & Natural Gas (MoP&NG) Government of India.

GAIL is Operating & Maintaining a large network of natural gas Pipeline (approximately 11000 kilometers) across India. Along HVJ-GREP-DVPL pipeline, there are eight compressor stations namely Hazira, Vaghodia, Jhabua, Khera, Vijaipur, Dibiyapur, Kailaras & Chhainsa.

In each compressor station(s), Gas Turbine driven compressor (GTC) units are installed for boosting gas pressure for onward transportation through the pipeline network.

2.0 OBJECTIVE OF THE EOI:

In Year, 1987; HVJ pipeline project of GAIL was executed. Along HVJ pipeline, four different Compressor Stations namely, Hazira, Jhabua, Vijaipur & Dibiyapur were installed. In each compressor station(s), Gas Turbine driven Compressor (GTC) units were installed for boosting gas pressure for onward transportation through the pipeline network.

Details of those GTC Units are given below:

NAME OF COMPRESSOR STATIONS	DETAILS OF GTC UNITS			
	Gas Generator	Power Turbine	Centrifugal Compressor	Installed Quantity
Hazira	501-KC5	GT-22C	CDP416	10
Jhabua	501-KC5	GT-22C	CDP416	07
Vijaipur	501-KC5	GT-22C	CDP416	08
Dibiyapur	501-KC5	GT-22C	CDP416	03

Due to present pipeline hydraulics and with the installation of new fuel efficient GTC Units at some Compressor Stations; GAIL intends to explore the possibility to sell following GTC Units as and where basis:

- 05 numbers GTC Units of Hazira Compressor Station
- 07 numbers GTC Units of Jhabua Compressor Station

Technical details of GTC Units are given.

3.0 TYPICAL SCOPE OF WORK & SPECIAL TERMS AND CONDITIONS:

It will be formulated at the time of tendering exercise.

4.0 PRE QUALIFICATION REQUIREMENTS:

- 4.1 Reputed Vendor/Contractor shall be allowed to participate in the EOI process.
- 4.2 Vendor/Contractor shall be selected by inviting bids on International Competitive Bidding Process.
- 4.3 However, for participation in the instant EOI, no documentation is required.

APPLICATION FORM

1	Name of the Company	
2	Address of the Company	
3	Nature of Business of the Company	
4	Prior experience of such type of works execution	
5	Suggestions, if any	

Place:

Date:

(Signature of Interested Vendor)

NOTES:

- 1. Documents in other than English Language have to be attached along with self-certified English translated copies.

COMPRESSOR PERFORMANCE
GUARANTEE POINT ONLY

HAZIRA STATION

Operating Conditions

Model:	CDP-416	
Case:	Design	
Gas Handled:	Natural Gas	
MMSCFD (14.7 PSIA, 60°F, Dry)		
(SM ³ /HR at 1.033 kg/cm ² a 15°C):	80.484	(94791)
Weight Flow, lb/min (kg/hr):	3049.7	(82985)
Inlet Conditions:		
Pressure, PSIA (kg/cm ² A):	654.1	(46.0)
Temperature, °F (°C):	104	(40)
Molecular Weight:	20.7	
Cp/Cv (K Avg):	1.255	
Compressibility (Z ₁):	0.90	
Inlet Volume (ICFM-Wet) (AM ³ /Hr):	1226	(2083)
Discharge Pressure:		
Pressure, PSIA (kg/cm ² A):	1228.6	(86.4)
Temperature, °F (°C):	202	(94)
Cp/Cv (K Avg):	1.255	
Compressibility (Z ₂):	0.900	

Performance

BHP required at compr cplg: (kw)	3125	(2330)
Speed, (RPM), approximate:	13172	
Max. continuous speed, RPM:	13830	
Overspeed Trip Setting, RPM:	14522	
Head (Ft): (metres) Poly:	25928	(7900)
Efficiency (%): Poly:	79.3	

Guarantee

Compressor is guaranteed for head and inlet volume. Horsepower is guaranteed, subject to a tolerance of +4%.

COMPRESSOR PERFORMANCE
GUARANTEE POINT ONLY

JHABVA STATION

Operating Conditions

Model:	CDP-416	
Case:	Design	
Gas Handled:	Natural Gas	
MMSCFD (14.7 PSIA, 60°F, Dry) (SM ³ /HR at 1.033 kg/cm ² a 15°C):	128.07	(150833)
Weight Flow, lb/min (kg/hr):	4852	(132047)
Inlet Conditions:		
Pressure, PSIA (kg/cm ² A):	831.9	(58.5)
Temperature, °F (°C):	104	(40)
Molecular Weight:	20.7	
Cp/Cv (K Avg):	1.255	
Compressibility (Z ₁):	0.90	
Inlet Volume (ICFM-Wet) (AM ³ /Hr):	1534	(2606)
Discharge Pressure:		
Pressure, PSIA (kg/cm ² A):	1228.6	(86.4)
Temperature, °F (°C):	162	(72)
Cp/Cv (K Avg):	1.255	
Compressibility (Z ₂):	0.900	

Performance

BHP required at compr. cplg: (kw)	2902	(2164)
Speed, (RPM), approximate:	13711	
Max. continuous speed, RPM:	14397	
Overspeed Trip Setting, RPM:	15116	
Head (Ft): (metres) Poly:	15522	(4732)
Efficiency (%): Poly:	80.4	

Guarantee

Compressor is guaranteed for head and inlet volume. Horsepower is guaranteed, subject to a tolerance of +4%.
