

BOQ Summary Details Tender Title: PROCUREMENT OF 600 SCMH ELECTRIC MOTOR DRIVEN CNG COMPRESSORS (VFD STARTER) (18 MONTHS ARC) FOR CGD PROJECT AT SIX GEOGRAPHICAL AREAS (GAs) Tender ID: 2025_GAIL_245944_1				
--	--	--	--	--

Sheet Name	Sl.No	Bidder Name	Amount upon NPV calculation	Bid Rank
BoQ1	1	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV (BID ID -906581)	140497035.28	L1
	2	TULIP COMPRESSION PRIVATE LIMITED (BID ID - 906606)	141426307.91	L2
	3	Kirloskar Pneumatic Company Limited (BID ID -906855)	143967249.92	L3

Tender Inviting Authority: GAIL INDIA LTD

Name of Work: PROCUREMENT OF 600 SCMH ELECTRIC MOTOR DRIVEN CNG COMPRESSORS [VFD STARTER] (18 MONTHS ARC) FOR CGD PROJECT AT SIX GEOGRAPHICAL AREAS (GAs)

Tender Reference No: GAIL/BNR/PROJ/PROC/25-26/18 (Tender ID: 2025_GAIL_245944_1)

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Kirkoskar Pneumatic Company Limited (GSTN-NA) BID ID -906855		ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV (GSTN-NA) BID ID -906581		TULIP COMPRESSION PRIVATE LIMITED (GSTN-NA) BID ID -906606		L1 Amount	L1 Vendor
				Rate	Amount	Rate	Amount	Rate	Amount		
1.00	ELECTRIC MOTOR DRIVEN 600 SCMH CNG COMPRESSORS AND ITS ASSOCIATED AUXILIARIES (SUPPLY)										
2.00	Design, Engineering, Manufacturing, String test, Supply including packaging and forwarding, insurance, loading and unloading of Skid mounted 600 SCMH Electric Motor driven CNG Compressor [VFD Starter] Package with discharge flow capacity of 600 SCMH at the specified conditions (as per technical specification and scope of work) with explosion proof electric & control panel complete with power, control cable & 3 nos. of ESDs having suction pressure of 16 kg/cm2(g), inlet line gas pressure range of 14 – 49 kg/cm2(g) (performance range 14 to 19 kg/cm2(g) with discharge pressure 255 kg/cm2(g) with 9 bank priority panel(fully automatic) with 3/4" OD Isolation ball valves on each outlet line along with all special tools and tackles required for erection and commissioning, supply of hydraulic oil, flame arrester, spark arrester, Knock out drum, oil separator, pulsation vessel, CO2 flooding system etc., to commission the compressor as per Technical volume. The package shall be inclusive of, but not limited to, the following: a) String test of complete compressor package along with accessories at packager's factory including TPIA (Third Party Inspection Agency) Charges. b) Design, Engineering, Manufacturing, Supply including packaging and forwarding, insurance, custom clearance, handling, loading and unloading of air compressor of 5.5KW capacity (approx..) discharge pressure approx. 10-16 kg/cm2g, 500 Water liter capacity air receiver for instrumentation air dryer along with all accessories and auxiliaries. (excluding SCOPE OF TRANSPORTATION CHARGES for this item, which is to be quoted separately at ITEM No. A.1.1.1 BELOW)	7.00	NOS	7400000.00	61124000.00	7000000.00	57820000.00	8000000.00	66080000.00	57820000.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Kirloskar Pneumatic Company Limited (GSTN-NA) BID ID -906855		ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV (GSTN-NA) BID ID -906581		TULIP COMPRESSION PRIVATE LIMITED (GSTN-NA) BID ID -906606		L1 Amount	L1 Vendor
				Rate	Amount	Rate	Amount	Rate	Amount		
3.00	Inland Transportation up to Delivery location and other cost incidental to delivery of goods at Item Code A.1.1 (Compressor) Note: (i) GAIL's GA locations are Varanasi, Patna, Ranchi, Jamshedpur, Cuttack, and Bhubaneswar. The tentative quantity-wise delivery locations are mentioned in the notes to MR of the tender document (Vol-II of II), for reference only. However, the actual delivery locations will be mentioned/confirmed at the time of the released order/P.O. (ii) 1500 Km per Compressor has been considered for the purpose of evaluation only. However, the Inland transportation Charges shall be paid for actual distance based on quoted per KM per Compressor (machine) rate. (iii) The distance between the Vendor work/warehouse and delivery location shall be derived on the basis of shortest distance available in Google map / MapmyIndia website. Refer tender for details. Refer tender for details. (iv) *Unit refers to 1 no. of Compressor	10500.00	per km per unit*	600.00	7434000.00	1070.00	13257300.00	100.00	1239000.00	1239000.00	TULIP COMPRESSION PRIVATE LIMITED
4.00	LCV Trailer Panels Supply & Delivery of LCV trailer panel complete with mass flow meter (with internal local display) based on Coriolis principle of Micro motion, USA (Model CNG 50 with 2700 transmitter, cabling, suitable for hazardous area classification. Panel shall be weather proof. Sheet metal work shall be SS 304. LCV trailer panel shall be mounted / installed near LCV stand. Purchaser shall arrange SS316 tubing from compressor to trailer panel and from trailer panel to LCV filling point with hose and fittings. Hose & fittings shall be in bidder's scope. Hose shall be 5 feet in length along with breakaway coupling & fitting (quick connector coupler & Stem) should have provision of NRV. Dispatch of LCV panels shall be as intimated during dispatch clearance. Note: GAIL's GA locations are Varanasi, Patna, Ranchi, Jamshedpur, Cuttack, and Bhubaneswar. The quantity-wise delivery locations for LCV Trailer Panels in aforesaid GA Locations shall be confirmed at the time of Released Order (RO). Bidder to quote the charges for Inland Transportation up to Delivery location and other cost incidental to delivery of goods of this Item (LCV Trailer Panel) including rate of its Ex-works Supply. Thus, Cost of Transportation Charges against this item is included in this scope. No separate payment towards Transportation Charges shall be paid against delivery of LCV Trailer Panels at any of aforementioned 6 GA Locations of GAIL.	3.00	NOS	400000.00	1416000.00	100000.00	354000.00	300000.00	1062000.00	354000.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV
5.00	INSTALLATION, COMMISSIONING, TESTING										

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Kirkoskar Pneumatic Company Limited (GSTN-NA) BID ID -906855		ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV (GSTN-NA) BID ID -906581		TULIP COMPRESSION PRIVATE LIMITED (GSTN-NA) BID ID -906606		L1 Amount	L1 Vendor
				Rate	Amount	Rate	Amount	Rate	Amount		
6.00	Installation, commissioning & Field performance test of Compressor Package including all accessories/ equipment(s) i.e. air compressor, CO2 flooding system etc. system at site.	7.00	Nos.	150000.00	1239000.00	1000.00	8260.00	10000.00	82600.00	8260.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV
7.00	Design, supply, loading, unloading, transportation, fabrication, installation, blasting and painting of structure for placing 4500 WL cascade above the compressor package. Note: Requirement for 4500 WL shall be intimated during release order.	7.00	Nos.	300000.00	2478000.00	1000.00	8260.00	50000.00	413000.00	8260.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV
8.00	Total amount for supply, installation, testing & commissioning (inclusive of taxes) based on quoted price										
9.00	SERVICES FOR OPERATIONS & COMPREHENSIVE MAINTENANCE										
10.00	ITEMS FOR OPERATIONS										
11.00	Operation charges for 1st year i.e. during Warranty period per shift of 8hrs (7 packages X 3 shifts X 365 days) Bidder to Quote equal to or above Rs 1340	7665.00	No of Shifts	1340.00	11119172.48	1340.00	11119172.48	1360.00	11285130.28	11119172.48	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, Kirkoskar Pneumatic Company Limited
12.00	Operation charges for 2nd year i.e. after Warranty period per shift of 8hrs (7 packages X 3 shifts X 365 days) Bidder to Quote equal to or above Rs 1410	7665.00	No of Shifts	1410.00	10733967.68	1410.00	10733967.68	1430.00	10886222.54	10733967.68	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, Kirkoskar Pneumatic Company Limited
13.00	Operation charges for 3rd year i.e. after Warranty period per shift of 8hrs (7 packages X 3 shifts X 365 days) Bidder to Quote equal to or above Rs 1490	7665.00	No of Shifts	1490.00	10406410.20	1490.00	10406410.20	1510.00	10546093.56	10406410.20	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, Kirkoskar Pneumatic Company Limited
14.00	Operation charges for 4th year i.e. after Warranty period per shift of 8hrs (7 packages X 3 shifts X 365 days) Bidder to Quote equal to or above Rs 1570	7665.00	No of Shifts	1570.00	10059764.81	1570.00	10059764.81	1590.00	10187914.68	10059764.81	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, Kirkoskar Pneumatic Company Limited
15.00	Operation charges for 5th year i.e. after Warranty period per shift of 8hrs (7 packages X 3 shifts X 365 days) Bidder to Quote equal to or above Rs 1650	7665.00	No of Shifts	1650.00	9699416.78	1650.00	9699416.78	1670.00	9816985.46	9699416.78	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, Kirkoskar Pneumatic Company Limited
16.00	Total amount for OPERATIONS (inclusive of taxes) based on quoted price										
17.00	Total amount for OPERATIONS (inclusive of taxes) based on NPV CALCULATION										
18.00	ITEMS FOR COMPREHENSIVE MAINTENANCE [Bidder to quote Percentage Rate for the following in Cell M31, M33, M34, M35 & M36] (Note: Bidder to enter percentage rate for Comprehensive Maintenance charges in NUMBERS, without affixing the % symbol. For Example, if bidder wants to quote 0.40% then enter 0.40, if bidder wants to quote 1.36% then enter 1.36 etc. Total Value will be automatically calculated based on the same)										

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Kirkoskar Pneumatic Company Limited (GSTN-NA) BID ID -906855		ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV (GSTN-NA) BID ID -906581		TULIP COMPRESSION PRIVATE LIMITED (GSTN-NA) BID ID -906606		L1 Amount	L1 Vendor
				Rate	Amount	Rate	Amount	Rate	Amount		
19.00	Lump sum Repair & Comprehensive Maintenance charges (excluding the scope covers under warrantee) per Compressor Package including air compressor for 1st year during warrantee period in all Geographical Areas of GAIL inclusive of all manpower, spare parts, lubricants and consumables etc. (7 packages X 12 Months) The quoted rate (for 1 Machine Month) for this item must be equal to or more than 0.40% of unit price of MR Item no. A.1.1 quoted by the bidder.	84.00	Machine Months	.40	3176204.92	.40	3004518.17	.41	3519578.42	3004518.17	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV
20.00	Lump sum Repair & comprehensive maintenance charges (including major overhaul) per Compressor Package including air compressor in all Geographical Area's under GAIL periphery inclusive of all manpower, spare parts, lubricants and consumables etc. For the below mentioned years (7 packages X 12 Months)										
21.00	For 2nd Year The quoted rate (for 1 Machine Month) for this item must be equal to or more than 0.50% of unit price of MR Item no. A.1.1 quoted by the bidder.	84.00	Machine Months	.50	3642436.83	.50	3445548.35	.51	4016524.94	3445548.35	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV
22.00	For 3rd year The quoted rate (for 1 Machine Month) for this item must be equal to or more than 0.55% of unit price of MR Item no. A.1.1 quoted by the bidder.	84.00	Machine Months	.55	3675853.68	.55	3477158.89	.56	4046148.53	3477158.89	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV
23.00	For 4th Year The quoted rate (for 1 Machine Month) for this item must be equal to or more than 0.61% of unit price of MR Item no. A.1.1 quoted by the bidder.	84.00	Machine Months	.61	3740234.77	.61	3538059.92	.62	4109783.89	3538059.92	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV
24.00	For 5th Year The quoted rate (for 1 Machine Month) for this item must be equal to or more than 0.67% of unit price of MR Item no. A.1.1 quoted by the bidder.	84.00	Machine Months	.67	3768923.60	.67	3565198.00	.68	4135325.61	3565198.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV
25.00	Total amount for COMPREHENSIVE MAINTENANCE (inclusive of taxes) based on quoted price										
26.00	Total amount for COMPREHENSIVE MAINTENANCE (inclusive of taxes) based on NPV CALCULATION										
27.00	A. Package Gas Loss: [Bidder to quote Percentage Rate for the following in Cell M41, M42, M43, M44 & M45] (Note: Bidder to enter percentage rate for "Vent/Leakage rate" for Package Gas Loss in NUMBERS, without affixing the % symbol. For Example, if bidder wants to quote 0.98% then enter 0.98, if bidder wants to quote 1% then enter 1.00 etc. Total Value will be automatically calculated based on the same.) [Bidder to quote fixed value 18.00 only in Cell N41,N42, N43, N44 & N45]										

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Kirloskar Pneumatic Company Limited (GSTN-NA) BID ID -906855		ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV (GSTN-NA) BID ID -906581		TULIP COMPRESSION PRIVATE LIMITED (GSTN-NA) BID ID -906606		L1 Amount	L1 Vendor
				Rate	Amount	Rate	Amount	Rate	Amount		
28.00	The bidder shall design the compressor package so that no venting and leakage of gas takes place. Bidder shall indicate actual vent & leakage losses through the compressor package. If package loss is quoted more than 1% of suction capacity gas consumption than bid shall be rejected. This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools and tackles, transportation, erection & commissioning, operations and comprehensive maintenance will be calculated as per following formulas: $F = G * H * I * N * W$ Where, F = amount in Rs. G = Vent/Leakage rate quoted in percentage H = Cost of Natural Gas per Kg @ Rs. 48/- per kg I = Avg. no. of running hours per year i.e. @ 3650 hours N = Number of machines W = 451 kg/hr for 600 SCMH Notes: 1) The amount (F) as per the above calculations for 5 years shall be considered on NPV basis with discount factor @9% p.a. Under coloumn 'M', bidder to quote 'G = Vent/Leakage rate in percentage' (without affixing % symbol).										
29.00	Package Gas Loss for 1st year Under coloumn 'M', bidder to quote 'G = Vent/Leakage rate in percentage' (without affixing % symbol).	7.00	No	.01	59877.58	0.00	0.00	0.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED
30.00	Package Gas Loss for 2nd year Under coloumn 'M', bidder to quote 'G = Vent/Leakage rate in percentage' (without affixing % symbol).	7.00	No	.01	54933.56	0.00	0.00	0.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED
31.00	Package Gas Loss for 3rd year Under coloumn 'M', bidder to quote 'G = Vent/Leakage rate in percentage' (without affixing % symbol).	7.00	No	.01	50397.76	0.00	0.00	0.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED
32.00	Package Gas Loss for 4th year Under coloumn 'M', bidder to quote 'G = Vent/Leakage rate in percentage' (without affixing % symbol).	7.00	No	.01	46236.48	0.00	0.00	0.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED
33.00	Package Gas Loss for 5th year Under coloumn 'M', bidder to quote 'G = Vent/Leakage rate in percentage' (without affixing % symbol).	7.00	No	.01	42418.79	0.00	0.00	0.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED
34.00	Total Value of Gas loss based on NPV CALCULATION										

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Kirloskar Pneumatic Company Limited (GSTN-NA) BID ID -906855		ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV (GSTN-NA) BID ID -906581		TULIP COMPRESSION PRIVATE LIMITED (GSTN-NA) BID ID -906606		L1 Amount	L1 Vendor
				Rate	Amount	Rate	Amount	Rate	Amount		
35.00	B. Energy Consumption: [Bidder to quote Percentage Rate for the following in Cell M49, M50, M51, M52 & M53] (Note: Bidder to enter "Energy consumption rate in KWH for every 600 SCMH (451 Kg) of CNG produced" in NUMBERS for Energy Consumption, without affixing the KWH unit. For Example, if bidder wants to quote 72 KWH then enter 72, if bidder wants to quote 73 KWH then enter 73 etc. Total Value will be automatically calculated based on the same.) [Bidder to quote fixed value 18.00 only in Cell N49, N50, N51, N52 & N53]										
36.00	The compressor package shall be designed in such a way that Energy Consumption of engine (KWH) should be minimum for production of CNG. Bidder shall indicate actual energy consumption for their compressor package. This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools & tackles, erection and commissioning will be calculated as per following formulas: $F = (G-72) \times H \times I \times N$ Where, F = amount in Rs. G = Bidder's Energy consumption rate quoted in KWH for every 600 SCMH (451 Kg) of CNG produced H = Cost of Energy @ Rs. 10/- per KWH I = Avg. no. of running hours per year i.e. @ 3650 hours N = Number of machines Notes: 1)The amount (F) as per the above calculations for 5 years shall be considered on NPV basis with discount factor @9% p.a.										
37.00	Energy Consumption for 1st year	7.00	No	72.00	0.00	72.00	0.00	72.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED, Kirloskar Pneumatic Company Limited
38.00	Energy Consumption for 2nd year	7.00	No	72.00	0.00	72.00	0.00	72.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED, Kirloskar Pneumatic Company Limited
39.00	Energy Consumption for 3rd year	7.00	No	72.00	0.00	72.00	0.00	72.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED, Kirloskar Pneumatic Company Limited

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Kirloskar Pneumatic Company Limited (GSTN-NA) BID ID -906855		ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV (GSTN-NA) BID ID -906581		TULIP COMPRESSION PRIVATE LIMITED (GSTN-NA) BID ID -906606		L1 Amount	L1 Vendor
				Rate	Amount	Rate	Amount	Rate	Amount		
40.00	Energy Consumption for 4th year	7.00	No	72.00	0.00	72.00	0.00	72.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED, Kirloskar Pneumatic Company Limited
41.00	Energy Consumption for 5th year	7.00	No	72.00	0.00	72.00	0.00	72.00	0.00	0.00	ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV, TULIP COMPRESSION PRIVATE LIMITED, Kirloskar Pneumatic Company Limited
42.00	Total IV.Value of Energy consumption based on NPV CALCULATION										
43.00	NOTE : 1. Inspection shall be carried out by Owner or its authorized consultant/ TPI at owner's cost. 2. Inlet piping shall be of class 300# (filter, inlet valve and 3-way valve). 3. Delivery location of the Compressors may change as per requirement and the same shall be intimated to the supplier before dispatch. 4. For SOR Sr. No. 10, Bidder to ensure the minimum wages of Skilled labour/worker for construction industries per day (in Rupees) of respective state/ Central (whichever is higher). 5. Deployment of Bidder personal/Resources for Operation will be as per the direction of Engineer In Charge/GAIL representative/GA in-charge with prior information of minimum one month. In case of installation of 2 nos compressors at a particular CNG Station/Mother station i.e. in same premises, EIC may ask the supplier/Bidder to deploy one personnel for operations of both compressors and payment will be done for one personnel/Resource only.										
44.00	Total Price for Supply, Installation/Erection, Testing, Commissioning, Inland Transportation (for 1500 Km) including charges for OPERATIONS & COMPREHENSIVE MAINTENANCE based on quoted price (without NPV calculation) is given in Cell AZ58.										
45.00	Total Evaluated Bid Value (EBV) (inclusive of taxes) as per tender condition i.e., based on NPV calculations for cost heads (wherever applicable, as per tender) is given at row below in Cell BA58.										
	Total in Figures				143967249.92		140497035.28		141426307.91		

Signature Not Verified

Lowest Amount Quoted BY: ATLAS COPCO INDIA LTD, CHICAGO PNEUMATIC COMPRESSOR DIV(140497035.28)
Digitally signed by KUNAL BAIDYA
Date: 2025.11.07 19:32:13 IST
Location: eProcurement System for Central PSUs