

ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
INSTRUMENTATION DEPARTMENT
दुलियाजान / DULIAJAN
(केवल आंतरिक उपयोग हेतु / For Internal Use Only)

AA) Oil India Limited (OIL), a “Maharatna” Category Government of India Enterprise under the Ministry of Petroleum and Natural Gas, is a premier upstream Exploration & Production (E&P) company engaged in the exploration, production, and transportation of crude oil and natural gas, along with the production of LPG. OIL’s primary operations are concentrated in the North-Eastern states of Assam and Arunachal Pradesh while also maintaining active operations in Rajasthan, Andhra Pradesh, Andaman, and the Kerala-Konkan basin, as well as overseas.

BB) Oil India Limited is in the process of formulating a contract for “**Supply and Installation & Commissioning of Electronic Gas Compressor Control Panels along with field instruments to replace existing pneumatic control systems.**”

CC) In this connection, OIL intends to organize a pre-tender meeting on 25.05.2026 (Monday) at Instrumentation Department, Oil India Limited, Duliajan from 10:00 am.

DD) Interested vendors with following experience criteria can participate in the pre-tender meeting:

Eligibility Criteria: Experience of successfully executed order for supply and installation commissioning of control panels for reciprocating natural gas compressor/ turbo compressor package

Note: A draft scope of work along with draft bid evaluation criteria/ bid rejection criteria are enclosed herewith. Vendors are requested to review the document thoroughly before attending the meeting.

EE) View above, we request interested vendors to depute their representatives (not more than 2 per vendor) to attend the pre-tender meeting to be held as per following details:

Date: 25.05.2026

Time: 10:00 am

Venue: Instrumentation Department, R&D building, Oil India Limited, Duliajan, Assam -786602

Incase interested vendor cannot attend the physical meeting and wish to join in online mode, they may send email expressing their interest to the following email address(s) before 09:00 am on 25.05.2026:

a) raunaq.barkakati@oilindia.in

b) abhijit_konwar@oilindia.in

Scope of Work

“Supply and Installation & Commissioning of Electronic Gas Compressor Control Panels along with field instruments to replace existing pneumatic control systems.”

1.0 Introduction:

Oil India Limited (OIL), a “Maharatna” Category Government of India Enterprise under the Ministry of Petroleum and Natural Gas, is a premier upstream Exploration & Production (E&P) company engaged in the exploration, production, and transportation of crude oil and natural gas, along with the production of LPG. OIL’s primary operations are concentrated in the North-Eastern states of Assam and Arunachal Pradesh while also maintaining active operations in Rajasthan, Andhra Pradesh, Andaman, and the Kerala-Konkan basin, as well as overseas.

2.0 Objectives:

In Oil India’s Gas Compressor stations, engine driven reciprocating gas compressors are used to boost the pressure of low-pressure gas for distribution and a portion of the gas is further compressed for gas lift purposes. These compressors are currently running on pneumatic control systems which are obsolete. The project involves the replacement of existing pneumatic-based local control panels and pneumatic field instruments of engine-driven reciprocating gas compressor packages with programmable/configurable electronic logic controller-based systems and electronic field instruments. The tentative list of gas compressors has been detailed in annexure-I. The Gas Compressor Stations where the job will be carried out are within 70 kms of Duliajan. The closest airport to Duliajan is Dibrugarh. Duliajan is also connected by train with a railway station at Duliajan.

3.0 Technical Specifications:

a) Oil India’s scope:

- 230V AC, 1-phase, 50 Hz electrical power supply.
- Site illumination and utility power.
- Instrument air supply (6–9 kg/cm²(g)).
- Existing electrical feeder near installation area.

b) Bidder’s scope:

- Complete design, detailed engineering, procurement, installation, testing, calibration, loop checking, and commissioning.
- Replacement/removal of existing pneumatic panels, tubing, and instruments.
- Supply and installation of electronic control panels, field instruments, UPS, cabling, earthing system, and accessories.
- Development and configuration of controller logic, HMI graphics, alarms, shutdowns, and interlocks.
- Coordination with OEMs and third-party agencies.
- FAT, SAT, performance testing, training, and submission of as-built documentation.

- Existing electrical feeder near installation area.
- The bidder shall lay cables from feeder to UPS and UPS to control panel.

c) Control Panel Philosophy:

- Panels shall be microprocessor/PLC-based and suitable for hazardous area operation.
- Panel shall be mounted on the gas compressor package skid.
- Purged and pressurized panels and controller equipment inside FLP junction boxes are not acceptable.
- Panels shall include:
 - Minimum 15-inch HMI with touchscreen.
 - Audio-visual alarms (hooter and flasher).
 - Sequence control for startup/shutdown operations.
 - Emergency shutdown push button.
 - Historical trending and event logging.
 - User-configurable alarms, trips, and PID settings.
 - Modbus RS485 communication provision for SCADA integration.
- System shall operate on fail-safe philosophy.
- Minimum 10% spare I/O channels to be provided.
- Controller memory shall be at least 32 MB.
- Controller scan time shall be ≤ 250 ms.

d) Field Instrumentation Philosophy

- All field instruments shall operate on 24V DC.
- Major instruments include:
 - Pressure transmitters and gauges.
 - Temperature sensors (RTD/Thermocouple).
 - RPM sensors.
 - Vibration transmitters.
 - Level switches.
 - Solenoid valves.
 - I/P converters.
 - Recycle control valve with digital positioners.
- Instruments shall be resistant to RF interference and suitable for hazardous areas.
- SS316 tubing and fittings from reputed makes such as Swagelok, Parker, or Sandvik shall be used.

e) Communication & Data Management

- SCADA communication through both Modbus RS485 and Modbus TCP over Fiber Optic Interface.

- Historical trending capability for minimum 40 data points over 60 days at 5-second sampling.
- Supply of one hazardous-area compliant laptop with licensed configuration software.
- Lifetime validity licenses required for all engineering/configuration software.

f) UPS & Power Philosophy

- Double conversion online UPS with minimum 4-hour backup.
- UPS sizing shall include 20% spare capacity.
- Control panels shall operate exclusively through UPS supply.

g) Cabling, Junction Boxes & Earthing

- All signal, control, and power cables shall be armoured copper FRLS type.
- Separate routing for power and signal cables to avoid electromagnetic interference.
- Cable identification through ferrules and tags is mandatory.
- Junction boxes shall be IP65 weatherproof with suitable hazardous-area certification.
- Double compression flameproof cable glands shall be used.
- Complete maintenance-free chemical earthing system shall be in bidder's scope.

h) Functional Inputs & Outputs

- Analog inputs for pressures, temperatures, vibration monitoring, and process parameters.
- Thermocouple inputs for engine and compressor temperatures.
- Digital inputs for safety trips and level monitoring.
- Digital outputs for pre-lube systems, ignition, alarms, scrubber dump valves, and shutdown functions.
- Analog outputs for recycle and speed control loops.
- Frequency input for engine RPM.

i) Installation & Commissioning

- Removal of old pneumatic systems including control panel and instruments
- Grouting and mounting of new control panels and instruments
- Cable laying, termination, calibration, loop checking, and system integration.
- Earth pit construction and earthing.
- 72-hour uninterrupted performance run after commissioning.

j) Inspection, Testing & Acceptance

Factory Acceptance Test (FAT)

- Verification of hardware, wiring, software logic, alarms, communication, and HMI functionality.
- Communication testing over Modbus.
- FAT to be witnessed by OIL representatives.

Site Acceptance Test (SAT)

- Hardware verification, diagnostics, alarm/trip testing, performance testing, and remote communication checks.
- Final acceptance only after successful uninterrupted 72-hour operation.

k) Training Requirements

Bidder shall provide:

- 5-day OEM training for a maximum of 4 OIL engineers.
- Hands-on training on controller programming, troubleshooting, maintenance, and HMI configuration.
- 2-day onsite operational training after commissioning.

l) 14. Documentation Requirements

- GA drawings, cable schedules, loop diagrams, control philosophy, logic diagrams, cause & effect matrix, alarm/trip schedules, load calculations, FAT/SAT procedures, instrument datasheets, and operation & maintenance manuals.
- Hazardous area certificates for control panels and instruments
- Ingress protection certificates for control panels and instruments

m) Safety & Statutory Compliance

- All equipment shall comply with Oil Mines Regulation (OMR) 2017 and hazardous-area requirements.
- Equipment shall be certified by NABL/IECEX/ATEX/ Indian government approved laboratories.
- Bidder shall comply with all HSE regulations, work permit systems, SOP requirements, toolbox talks, and incident reporting procedures.
- Necessary PPE and safety arrangements shall be provided by the bidder.

n) Project Schedule

- Bidder shall complete the entire project including supply, installation and commissioning within seven (07) months from the date of placement of order.
- Bidder shall deploy minimum of 3 teams for simultaneous installation and commissioning at 3 different sites.

BEC/ BRC

A1 BRC-TECHNICAL:

1.0 BIDDERS' QUALIFYING CRITERIA:

1.1 The bidder shall be an Original Equipment Manufacturer (OEM) of the tendered item(s)

OR

The bidder shall be authorized agent / dealer / distributor / supply house / authorized system house of an OEM of the tendered item(s).

Note: a) Bidder(s) other than OEM must submit a valid Authorization letter and back-up warranty from the manufacturer. The Authorization and back-up warranty letter duly sealed & signed by the Manufacturer on their official letterhead must be submitted along with the technical bid.

b) The Sole Selling Agent/Dealer/Distributor/Supply House / authorized system house shall categorically confirm in their technical bid that there will be no change of the proposed OEM after submission of the bid.

2.1 IN CASE THE BIDDER IS A MANUFACTURER (OEM):

2.1.1 OEM proposing for supply and services by themselves: The bidder must have experience of successfully executing (either by themselves or through any sole selling agent/ dealer/ distributor/ supply house/authorized system house)

A) one (1) order for Supply of minimum thirteen (13) nos. of Control Panels for Reciprocating Natural Gas Compressor / Turbo Compressor Package during last ten (10) years preceding to the original bid closing date of the tender.

AND

B) The bidder must have experience of successfully executing one (1) order/contract for Installation & Commissioning of Control Panels for Reciprocating Natural Gas Compressor / Turbo compressor Package during last ten (10) years preceding to the original bid closing date of the tender.

OR

Bidder must have the experience executing single contract by themselves or by joint venture for supply and installation & commissioning of Controls Panels /PLC for Turbo Compressor Package during last ten (10) years preceding to the original bid closing date of the tender. In case bidder submitted credentials for the experience criteria based on joint venture/Consortium, contract agreement submitted by the bidder must clearly indicating their roles under the scope of work which must be in line with the current tender.

Documentary evidences in this regard(A,B) must be submitted along with the technical bid as per Para 2.3,

2.1.2 OEM proposing for supply by themselves and services by their authorized service provider/ distributor/ sole selling agent/ supply house/authorized system house: A) The bidder must have experience of successfully executing (either by themselves or through any sole selling agent/ dealer/ distributor/ supply house/ authorized system house) one (1) order for “Supply” of minimum thirteen (13) nos. of Control Panels for Reciprocating Natural Gas Compressor / Turbo compressor Package during last ten (10) years preceding to the original bid closing date of the tender.

AND

B) The bidder’s authorized service provider/ distributor / sole selling agent/ supply house/ authorized system house must have experience of successfully executing one (1) order/contract for Installation & Commissioning of Control Panels for Reciprocating Natural Gas Compressor / Turbo compressor Package during last ten (10) years preceding to the original bid closing date of the tender.

OR

Bidder must have the experience executing single contract by themselves or by joint venture for supply and installation & commissioning of Controls Panels /PLC for Turbo Compressor Package during last ten (10) years preceding to the original bid closing date of the tender. In case bidder submitted credentials for the experience criteria based on joint venture/Consortium, contract agreement submitted by the bidder must clearly indicating their roles under the scope of work which must be in line with the current tender.

Documentary evidences in this regard(A,B) must be submitted along with the technical bid as per Para 2.3.

2.2 IN CASE THE BIDDER is a Sole Selling Agent/Dealer/Distributor/Supply House/Authorized system house of the Original Equipment Manufacturer (OEM): The following criteria shall be met by the Bidder and the OEM:

A) Their proposed OEM must have experience of successfully executing (either by themselves or through any sole selling agent/ dealer/ distributor/ supply house/ authorized system house)

one (1) order for “Supply” of minimum thirteen (13) nos. of Control Panels for Reciprocating Natural Gas Compressor / Turbo compressor Package during last ten (10) years preceding to the original bid closing date of the tender

AND

B) The bidder as a sole selling agent/ dealer/ distributor/ supply house/ authorized system house must have experience of successfully executing one (1) order/ contract for “Installation & Commissioning” of Control Panels for Reciprocating Natural Gas Compressor / Turbo compressor Package during last ten (10) years preceding to the original bid closing date of the tender.

Documentary evidences in this regard(A,B) must be submitted along with the technical bid as per Para 2.3

2.3 NOTES TO BIDDER REGARDING EXPERIENCE CRITERIA:

2.3.1 The following documentary evidences to substantiate above experience records (2.1 and 2.2, as applicable) of the Bidder must be submitted along with the technical bid, failing which the Bid shall be treated as incomplete and rejected:

(a) Copy of Purchase order/contract awarded by Client

(b) Any one or combination of the following documents that confirms the successful execution of the purchase order / contract-

True copies of Original Signed and sealed Completion report/performance certificate from the clients (on Client's/User's official letter head with signature & stamp) duly notarized by Government Notary.

OR

Any one or combination of the following documents that confirms the successful execution of the purchase order / contract –

- Completion report / performance certificate from the clients,
- Any other documentary evidence that can substantiate the successful execution of the Purchase Order / contract cited above.

2.3.2 The date of purchase order/contract need not be within ten (10) years preceding the original bid closing date of the Tender, but execution/ supply of required quantity must be within ten (10) years preceding the original bid closing date of this tender.

2.3.3 In case of extension to the scheduled Bid Closing date of this tender, if any, the Original scheduled Bid closing Date shall be considered for evaluation of Bids.

2.3.4 Against all supporting documents submitted by the bidder along with the technical bid, originals must be kept ready and to be produced for verification of OIL, if called for.

2.3.5 The purchase order/ contract must bear the purchase order number/ contract number which clearly indicate the scope of work and technical specifications of the item.

2.3.6 The experience of the bidder's sister concern/ subsidiary shall not be considered for evaluation.

A.2 BRC - FINANCIAL:

1.0 The bidder must have an annual financial turnover from Operations of minimum 50% of order value during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender Audited Annual Reports.

[Annual Financial Turnover of the bidder from Operations shall mean - "Aggregate value of the realization of amount made from the sale, supply or distribution of goods or on account of services

rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91).]

2.0 "Net Worth" of the bidder must be positive for the financial/accounting year just preceding to the original Bid Closing Date of the Tender.

[Net worth shall mean: "Share capital + Reserves created out of profits and securities Premium - Aggregate value of accumulated losses (excluding revaluation reserves) - deferred expenditure - Miscellaneous Expenditure to the extent not written off and carried forward loss - Reserves created out of write back of depreciation and amalgamation"]

3.0 Considering the time required for preparation of Financial Statements, if the last date of preceding financial/ accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial/accounting year are not available with the bidder, then the financial turnover of the previous three financial/accounting years excluding the preceding financial/accounting year will be considered. In such cases, the Net worth of the previous financial/accounting year excluding the preceding financial/accounting year will be considered. However, the bidder has to submit an affidavit/undertaking (PROFORMA - A) certifying that 'the balance sheet/Financial Statements for the financial year (as applicable) has actually not been audited so far'.

Note:

a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the technical bid:-

i) A certificate issued by a practicing Chartered Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual Turnover & Net worth as per format prescribed in (PROFORMA – B).

OR

ii) Audited Balance Sheet along with Profit & Loss account. In case of foreign bidders, self-attested/digitally signed printed published accounts are also acceptable.

b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/ State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.

4.0 In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date on which the Audited Balance Sheet and Profit & Loss Account is signed. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.

5.0 In case the Bidder is subsidiary company (should be 100% owned subsidiary of the

parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ultimate parent/holding company, then following documents need to be submitted:

- (i) Turnover of the parent/ultimate parent/holding company should be in line with Para A.2 (1.0) above.
- (ii) Net Worth of the parent/ultimate parent/holding company should be positive in line with Para A.2 (2.0) above.
- (iii) Corporate Guarantee (PROFORMA - C) on parent/ultimate parent/holding company's company letter head signed by an authorized official undertaking that they would financially support their wholly owned subsidiary company for executing the project/job in case the same is awarded to them.
- (iv) Documents to substantiate that the bidder is as 100% subsidiary of the parent/ultimate parent/holding company.

(A.3) BRC - COMMERCIAL:

1.0 Bids are invited under SINGLE STAGE TWO BID SYSTEM. Bidders should upload Techno-Commercial Bid (Unpriced Bid) and Priced Bid separately at the designated fields assigned in GeM Portal. Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid. The "Unpriced Bid" shall contain all techno commercial details except the prices/costs. Bidder not complying with above submission procedure will be rejected.

2.0 The prices/rates offered against the tender must remain firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price condition shall be treated as non-responsive and rejected. No discount whatsoever should be quoted separately. Rates/prices quoted must be net of all discounts.

3.0 Bids received in physical form shall be rejected (except the documents specifically called for in hard copies, if any). Also, modifications to bids received after the bid closing date & time shall not be entertained.

4.0 Bids containing incorrect/false/misleading statement(s) shall be rejected.

5.0 Validity of the bid shall be minimum 120 days from the date of actual Bid Closing Date. Bids with lesser validity shall be straightway rejected.

6.0 Bidders must confirm that goods/materials to be supplied against the order arising out of this tender shall be of recent make, unused, of the best quality & workmanship and free from defects. The Bidder must undertake to stand guaranteed for the materials as called for in the tender. Defective goods/materials rejected by OIL, whether the entire lot or part thereof, shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.

7.0 Successful bidder will be required to furnish a Performance Security @5% of the order

value. The Performance Security must be valid for a period as called for in the tender document. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected. (Please refer Annexure – III: GENERAL NOTES TO BIDDERS)

8.0 Bids must be accompanied by Bid Security for the amount as mentioned in the tender document and shall be in the prescribed format (PROFORMA – G) if submitted in the form of Bank Guarantee (BG). In case of the Bid Security is submitted in the form of Bank Guarantee, scanned copy of Bank Guarantee shall be uploaded by the bidder in the online bid and hard copy of the Bank Guarantee will have to be submitted directly to OIL within the Bid Closing (BC) date and time, failing which the bid may be treated as incomplete and may lead to rejection of the bid by OIL without making any reference to the bidder. Bid Security if submitted in the form of BG/e-PBG must be valid at least for a period of 135 days from the date of original bid closing date of the tender.

Bid Security may also be paid through online payment mode. Bid Security must be submitted within the scheduled Bid Closing date and time of the Tender, failing which the bid may be treated as incomplete and may lead to rejection of the bid without making any reference to the bidder.

The amount of Bid Security (EMD) must be strictly as specified in the tender document. Bid shall be rejected without further reference, if the Bid Security (EMD) is not received strictly as above, except where exempted. OIL will not assume any responsibility whatsoever for submission of deficient/faulty Bid Security or for delay/non-delivery of the same (Please refer Annexure – III: GENERAL NOTES TO BIDDERS).

9.0 Bid must be uploaded together with the Integrity Pact (If applicable against the tender) and the same must be duly signed digitally. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact, their bid shall be rejected straightway (Please refer Annexure – III: GENERAL NOTES TO BIDDERS).

10.0 Bidders shall accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection:

- i) Liquidated Damages
- ii) Warranty/Guarantee of material
- iii) Arbitration / Resolution of Dispute
- iv) Force Majeure
- v) Applicable Laws

11.0 A bid shall be rejected straightway if it does not conform to any one of the following clauses:

- a) Validity of bid shorter than the validity indicated in the Tender.
- b) In case the party refuses to sign Integrity Pact.
- c) Original Bid Security not received within the stipulated date & time mentioned in the Tender.
- d) Bid Security with (i) validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender.

SI No	GCS	Duty	Unit	ENGINE MAKE	COMPRESSOR MAKE	Capacity (MMSCFD)
1	GCS 1	LPB	6	WAUKESHA	AC	5
2	GCS 1	GI	4	WAUKESHA	AC	3
3	GCS 2	GL	8	WAUKESHA	AC	3
4	GCS 4	LPB	3	WAUKESHA	AC	5
5	GCS 4	LPB	4	WAUKESHA	AC	5
6	GCS 4	GI	1	WAUKESHA	AC	3
7	GCS 4	GI	2	WAUKESHA	AC	3
8	Jorajan	LPB	5	WAUKESHA	AC	5
9	Ushpaur	LPB	3	WAUKESHA	AC	5
10	Ushpaur	GL	3	CATERPILLER	AC	3
11	Hebeda	LPB-4	4	WAUKESHA	AC	5
12	Joypur	GI	4	WAUKESHA	AC	3
13	Shalmari	LPB	4	WAUKESHA	AC	5
14	Shalmari	GL	4	WAUKESHA	AC	3
15	Shalmari	GL	5	WAUKESHA	AC	3
16	Kathaloni	LPB	1	WAUKESHA	AC	5
17	Kathaloni	LPB	3	WAUKESHA	AC	5
18	Kathaloni	GL	2	WAUKESHA	BPCL	3
19	Kathaloni	GI	3	WAUKESHA	AC	3
20	MORAN	LPB	6	WAUKESHA	AC	5
21	MORAN	LPB	7	WAUKESHA	AC	5
22	MORAN	LPB	8	WAUKESHA	AC	3
23	MORAN	GL	3	CATERPILLER	WT	3