Oil India Limited
Materials Department – Field Head Quarters
Duliajan, Assam, India – 786602

CORRIGENDUM NO.2

Tender No. : GEM/2026/B/7871667 Date: 05/08/2026
Item Details : Up-gradation of Pneumatic based Local Control Panel.

This Corrigendum is issued to amend the following terms and conditions of the tender in lieu of existing:

A. Bid Closing/Opening dates extended as per following:

(i) Bid Closing Date & Time: Extended up to 23.09.2026 [1100 Hrs (IST)]
(ii) Bid Opening Date & Time: Extended up to 24.09.2026 [1100 Hrs (IST)]

B. Annexure – I: AA) TECHNICAL SPECIFICATIONS

Sl no	Clause Number	Existing Clause	Amended Clause
1	Technical Specifications 19.10	**Vibration Measurement (Compressor & Cooler):** a. Sensitivity: 100mV/g b. Measurement Range: 80 g peak c. Frequency Range: 0.4 Hz to 14,000 Hz d. Supply Voltage: 24Vdc e. Electrical Area Classification-IEC Zone-2 Gr. IIA/IIB T3	**Vibration Measurement (Compressor):** a. Sensitivity: 100mV/g b. Measurement Range: 50 g max c. Frequency Range: 5 Hz to 5 KHz d. Electrical Area Classification-IEC Zone-2 Gr. IIA/IIB T3
2	Technical Specifications 19.10a	New Clause	**Vibration Measurement (Cooler):** a. Sensitivity: 100mV/in/sec b. Frequency Range: 5 Hz to 5 KHz **c.** Electrical Area Classification-IEC Zone-2 Gr. IIA/IIB T3
3	Technical Specifications 19.11	**Vibration Measurement (Engine):** Sensitivity: 100mV/in/sec Frequency Range: 10 Hz to 1000 Hz Supply Voltage: 24Vdc Electrical Area Classification-IEC Zone-2 Gr. IIA/IIB T3	**Vibration Measurement (Engine):** a. Sensitivity: 100mV/in/sec b. Frequency Range: 5 Hz to 5 KHz c. Electrical Area Classification-IEC Zone-2 Gr. IIA/IIB T3

4	Annexure-3&3A Process Details	Compressor Vibration Transmitter Range: 100mv/g 80g max 0.4 to 14Khz	Compressor Vibration Transmitter Range: 100mv/g 50 g max, 5Hz to 5Khz Revised Annexure-3 has been attached
5	Annexure-3&3A Process Details	Engine Vibration Transmitter Range: 100mv/in/ sec	Engine Vibration Transmitter Range: 100mv/in/ sec, 5 Hz to 5 Khz Revised Annexure-3 has been attached
6	Annexure-3&3A Process Details	New Clause	Compressor Lube Oil Pressure- 0-15kg/cm2 Revised Annexure-3 has been attached
7	Annexure-3&3A Process Details	New Clause	Engine Lube Oil Pressure- 0-15kg/cm2 Revised Annexure-3 has been attached
8	Annexure-3&3A Process Details	Cooler Vibration Transmitter Range: 100mv/g 80g max 0.4 to 14Khz	Cooler Vibration Transmitter Range: 100mv/in/ sec, 5 Hz to 5 Khz Revised Annexure-3 has been attached
9	Annexure-4 Bill of Materials	A.4. Pressure Transmitter – 13 nos.	A.4. Pressure Transmitter – 15 nos. Revised Annexure-4 has been attached
10	Annexure-4 Bill of Materials	A.5. Vibration Transmitters-Accelerometers – 06 nos.	A.5. Vibration Transmitters-Accelerometers – 04 nos. Revised Annexure-4 has been attached
11	Annexure-4 Bill of Materials	A. 6. Vibration Transmitter – Velocimeter – 02 nos.	A. 6. Vibration Transmitter – Velometer – 04 nos. Revised Annexure-4 has been attached
12	Annexure-4 Bill of Materials	B.4. Pressure Transmitter – 13 nos.	B.4. Pressure Transmitter – 15 nos. Revised Annexure-4 has been attached
13	Annexure-4 Bill of Materials	B.5. Vibration Transmitters-Accelerometers – 10 nos.	B.5. Vibration Transmitters-Accelerometers – 08 nos. Revised Annexure-4 has been attached
14	Annexure-4 Bill of Materials	B. 6. Vibration Transmitter – Velocimeter – 02 nos.	B. 6. Vibration Transmitter – Velometer – 04 nos. Revised Annexure-4 has been attached
15	Annexure-4 Bill of Materials	B. 18. Temperature Gauge – 06 nos.	B. 18. Temperature Gauge – 08 nos. Revised Annexure-4 has been attached

16	Annexure-4 Bill of Materials	C.4. Pressure Transmitter – 17 nos.	C.4. Pressure Transmitter – 19 nos. Revised Annexure-4 has been attached
17	Annexure-4 Bill of Materials	C.5. Vibration Transmitters-Accelerometers – 08 nos.	C.5. Vibration Transmitters-Accelerometers – 06 nos. Revised Annexure-4 has been attached
18	Annexure-4 Bill of Materials	C. 6. Vibration Transmitter – Velocimeter – 02 nos.	C. 6. Vibration Transmitter – Velometer – 04 nos. Revised Annexure-4 has been attached
19	Annexure-4 Bill of Materials	C. 17. Pressure Gauge – 06 nos.	C. 17. Pressure Gauge – 08 nos. Revised Annexure-4 has been attached
20	Annexure-4 Bill of Materials	C. 18. Temperature Gauge – 06 nos.	C. 18. Temperature Gauge – 08 nos. Revised Annexure-4 has been attached
21	Annexure-4 Bill of Materials	D.4. Pressure Transmitter – 21 nos.	D.4. Pressure Transmitter – 23 nos. Revised Annexure-4 has been attached
22	Annexure-4 Bill of Materials	D.5. Vibration Transmitters-Accelerometers – 10 nos.	D.5. Vibration Transmitters-Accelerometers – 08 nos. Revised Annexure-4 has been attached
23	Annexure-4 Bill of Materials	D. 6. Vibration Transmitter – Velocimeter – 02 nos.	D. 6. Vibration Transmitter – Velometer – 04 nos. Revised Annexure-4 has been attached
24	Annexure-4 Bill of Materials	D. 17. Pressure Gauge – 06 nos.	D. 17. Pressure Gauge – 10 nos. Revised Annexure-4 has been attached
25	Annexure-4 Bill of Materials	D. 18. Temperature Gauge – 06 nos.	D. 18. Temperature Gauge – 10 nos. Revised Annexure-4 has been attached

All other terms and conditions of the Bid Document (including previous corrigendum) remain unchanged. All the tender details and documents can be viewed at **www.oil-india.com** and **www.gem.gov.in**.

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Annexure-3 Process Details (Revised)

Unit Name	GCS-1 LPB-6	GCS-1 GI-4	GCS-2 GL-8	GCS-4 LPB-3	GCS-4 LPB-4	GCS-4 GI-1	GCS-4 GI-2	GCS 6 LPB-4	Jorajan GCS LPB-5	Jorajan GCS GL-3	Jorajan GCS GL-4	Ushapur GCS LPB-3	Ushapur GCS GL-3	Hebeda GCS LPB-4	Joypur GCS GI-4	Shalmari GCS LPB-4	Shalmari GCS GL-4	Shalmari GCS GS-5	Kathaloni GCS LPB-1	Kathaloni GCS LPB-3	Kathaloni GCS GL-2	Kathaloni GCS GI-3	Moran GCS LPB-6	Moran GCS LPB-7	Moran GCS LPB-8
Recycle Valve Details																									
Line Size	3"	2"	2"	3"	3"	2"	2"	3"	3"	2"	2"	3"	2"	2"	2"	3"	2"	2"	3"	3"	2"	2"	3"	3"	3"
Line MOC	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
Existing Control Valve	2" x 300#	2" x 2500#	2" x 900#	2" x 300#	2" x 300#	2" x 2500#	2" x 2500#	2" x 300#	2" x 300#	2" x 900#	2" x 900#	2" x 300#	2" x 900#	2" x 300#	2" x 2500#	2" x 300#	2" x 2500#	2" x 2500#	2" x 300#	2" x 300#	2 " x 900#	2" x 2500#	2" x 300#	2" x 300#	2" x 300#
Max Flow Rate	3.6 MMSCFD	1.5 MMSCFD	1.5 MMSCFD	3.6 MMSCFD	2.5 MMSCFD	1.5 MMSCFD	1.5 MMSCFD	2.5 MMSCFD	3.6 MMSCFD	1.5 MMSCFD	1.5 MMSCFD	3.6 MMSCFD	1.5 MMSCFD	2.5 MMSCFD	1.5 MMSCFD	2.5 MMSCFD	1.5 MMSCFD	1.5 MMSCFD	2.5 MMSCFD	2.5 MMSCFD	1.5 MMSCFD	1.5 MMSCFD	2.5 MMSCFD	2.5 MMSCFD	2.5 MMSCFD
Min Inlet Pressure	13 Kg/cm2	60 Kg/cm2	60 Kg/cm2	13 Kg/cm2	13 Kg/cm2	60 Kg/cm2	60 Kg/cm2	13 Kg/cm2	13 Kg/cm2	60 Kg/cm2	60 Kg/cm2	13 Kg/cm2	60 Kg/cm2	13 Kg/cm2	60 Kg/cm2	13 Kg/cm2	60 Kg/cm2	60 Kg/cm2	13 Kg/cm2	13 Kg/cm2	60 Kg/cm2	60 Kg/cm2	13 Kg/cm2	13 Kg/cm2	13 Kg/cm2
Max Inlet Pressure	19 Kg/cm2	315 Kg/cm2	90 Kg/cm2	19 Kg/cm2	19 Kg/cm2	315 Kg/cm2	315 Kg/cm2	19 Kg/cm2	19 Kg/cm2	90 Kg/cm2	90 Kg/cm2	19 Kg/cm2	90 Kg/cm2	19 Kg/cm2	315 Kg/cm2	19 Kg/cm2	315 Kg/cm2	457 Kg/cm2	19 Kg/cm2	19 Kg/cm2	90 Kg/cm2	315 Kg/cm2	19 Kg/cm2	19 Kg/cm2	19 Kg/cm2
Max Allowable pressure drop across valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2 " NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve	Min for 2" NB control valve
Min temperature	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C
Max temperature	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C	52° C
Actuator Action (Air Fail- Open/ Close)	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open
Lubricator Details																									
Make (Required for installating DNFT)	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln	Make of Divider Block: Lincoln
Process Details:																									
1st Stage Suction Pressure Range	14-40 psi	150-230 psi	160-250 psi	14-40 psi	14-40 psi	100-160 psi	150-230 psi	14-40 psi	14-40 psi	160-250 psi	160-250 psi	14-40 psi	160-250 psi	14-40 psi	150-230 psi	14-40 psi	100-125 psi	100 -125 psi	14-40 psi	14-40 psi	160-250 psi	100-125 psi	14-40 psi	14-40 psi	14-40 psi
1st Stage Discharge Pressure Range	110 psi (High Trip)	Range 390 - 440 psi 560 psi Max	600 Psi (High Trip)	110 psi (High Trip)	110 psi (High Trip)	Range 390 - 440 psi	Range 390 - 440 psi 560 psi Max	110 psi (High Trip)	110 psi (High Trip)	600 Psi (High Trip)	600 Psi (High Trip)	110 psi (High Trip)	600 Psi (High Trip)	110 psi (High Trip)	Range 390 - 440 psi 560 psi Max	110 psi (High Trip)	395 psi Max	Range 190 - 250 psi 395 psi max	110 psi (High Trip)	110 psi (High Trip)	600 Psi (High Trip)	395 psi Max	110 psi (High Trip)	110 psi (High Trip)	110 psi (High Trip)
2nd Stage Suction Pressure Range	100 psi (Max)	Range 380 - 430 psi 530 psi Max	570 Psi (Max)	100 psi (Max)	100 psi (Max)	Range 380 - 430 psi	Range 380 - 430 psi 530 psi Max	100 psi (Max)	100 psi (Max)	570 Psi (Max)	570 Psi (Max)	100 psi (Max)	570 Psi (Max)	100 psi (Max)	Range 380 - 430 psi 530 psi Max	100 psi (Max)	380 psi Max	Range 180 - 240 psi 380 psi max	100 psi (Max)	100 psi (Max)	570 Psi (Max)	380 psi Max	100 psi (Max)	100 psi (Max)	100 psi (Max)
2nd Stage Discharge Pressure Range	270 psi (High trip)	Range 710 - 760 psi 1370 psi max	1350 psi (Max)	270 psi (High trip)	270 psi (High trip)	Range 710 - 1000 psi 1370 psi max	Range 710 - 760 psi 1370 psi max	270 psi (High trip)	270 psi (High trip)	1350 psi (Max)	1350 psi (Max)	270 psi (High trip)	1350 psi (Max)	270 psi (High trip)	Range 710 - 760 psi 1370 psi max	270 psi (High trip)	1370 psi max	Range 580 - 650 psi 2200 psi max	270 psi (High trip)	270 psi (High trip)	1350 psi (Max)	1370 psi max	270 psi (High trip)	270 psi (High trip)	270 psi (High trip)
3rd Stage Suction Pressure Range(Maximum)	N.A.	1350 psi	N.A.	N.A.	N.A.	1350 psi	1350 psi	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1350 psi	N.A.	1350 psi	1350 psi	N.A.	N.A.	N.A.	1350 psi	N.A.	N.A.	N.A.
3rd Stage Discharge Pressure Range	N.A.	Range 1120 - 1250 psi 4500 psi Max	N.A.	N.A.	N.A.	Range 1120 - 3000 psi 4480 psi Max	Range 1120 - 1250 psi 4500 psi Max	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Range 1120 - 1250 psi 4500 psi Max	N.A.	4480 psi Max	Range 780 - 850 psi 2200 psi max	N.A.	N.A.	N.A.	4480 psi Max	N.A.	N.A.	N.A.
4th Stage Suction Pressure Range(Maximum)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2150 psi	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
4th Stage Discharge Pressure Range	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Range 1170 - 1250 psi 6500 PSI max	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Annexure-3 Process Details (Revised)

Unit Name	GCS-1 LPB-6	GCS-1 GI-4	GCS-2 GL-8	GCS-4 LPB-3	GCS-4 LPB-4	GCS-4 GI-1	GCS-4 GI-2	GCS 6 LPB-4	Jorajan GCS LPB-5	Jorajan GCS GL-3	Jorajan GCS GL-4	Ushapur GCS LPB-3	Ushapur GCS GL-3	Hebeda GCS LPB-4	Joypur GCS GI-4	Shalmari GCS LPB-4	Shalmari GCS GL-4	Shalmari GCS GS-5	Kathaloni GCS LPB-1	Kathaloni GCS LPB-3	Kathaloni GCS GL-2	Kathaloni GCS GI-3	Moran GCS LPB-6	Moran GCS LPB-7	Moran GCS LPB-8
Engine Fuel Gas Inlet Pressure Range(Maximum)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)	50psi (Max.)
Compressor Lube Oil Presssure	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2
Engine Lube Oil Presssure	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2	0-15kg/cm2
Instrument Air Pressure Range(Maximum)	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC	7 KSC
Cranking Air Pressure Range(Maximum)	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC	12 KSC
Engine Intake Manifold Pressure Range Right Bank	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia
Engine Intake Manifold Pressure Range Left Bank	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia	0-50 Psia
Compressor Vibration Sensor Type (Accelerometer/ Velometer)	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer
Compressor Vibration Transmitter Range	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 6 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 8 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 6 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 6 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 6 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 6 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 8 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 8 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 8 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 6 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.	1100 mv/g, 50 g max, 5Hz to 5 khz Quantity - 4 nos.
Engine Vibration Sensor Type (Accelerometer/ Velometer)	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer
Engine Vibration Transmitter Range	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.
Cooler Vibration Type (Accelerometer/ Velometer)	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer
Cooler Vibration Transmitter Range	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.	velocimeter :- 100 mv/in/sec, 5 Hz to 5 KHz Quantity - 2nos.

Annexure-3 Process Details (Revised)

Unit Name	GCS-1 LPB-6	GCS-1 GI-4	GCS-2 GL-8	GCS-4 LPB-3	GCS-4 LPB-4	GCS-4 GI-1	GCS-4 GI-2	GCS 6 LPB-4	Jorajan GCS LPB-5	Jorajan GCS GL-3	Jorajan GCS GL-4	Ushapur GCS LPB-3	Ushapur GCS GL-3	Hebeda GCS LPB-4	Joypur GCS GI-4	Shalmari GCS LPB-4	Shalmari GCS GL-4	Shalmari GCS GS-5	Kathaloni GCS LPB-1	Kathaloni GCS LPB-3	Kathaloni GCS GL-2	Kathaloni GCS GI-3	Moran GCS LPB-6	Moran GCS LPB-7	Moran GCS LPB-8
1st Stage Suction Temperature Range(Maximum)	50 °C	50 °C	50 °C	50 °C	50 °C- 1nos sensor	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C - 1 nos Sensor	50 °C - 1 nos Sensor	50 °C	50 °C	50 °C	50 °C	50 °C
1st Stage DischargeTemperature Range(Trip Point)	150 °C	150 °C	150 °C	150 °C	150 °C-2 Nos sensor	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C - 2 nos Sensor	150 °C - 2 nos Sensor	150 °C	150 °C	150 °C	150 °C	150 °C
2nd Stage Suction Temperature Range(Maximum)	65 °C	65 °C	65 °C	65 °C	65 °C- 1nos sensor	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C - 1 Nos Sensor	65 °C - 1 Nos Sensor	65 °C	65 °C	65 °C	65 °C	65 °C
2nd Stage Discharge Temperature Range(Trip Point)	150 °C	150 °C	150 °C	150 °C	150 °C-2 Nos sensor	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C - 2 nos Sensor	150 °C - 2 nos Sensor	150 °C	150 °C	150 °C	150 °C	150 °C
3rd stage Suction Temperature Range(Maximum)	N.A.	65 °C	N.A.	N.A.	N.A.	65 °C	65 °C	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	65 °C	N.A.	65 °C	65 °C	N.A.	N.A.	N.A.	65 °C	N.A.	N.A.	N.A.
3rd stage Discharge Temperature Range(Trip Point)	N.A.	150 °C	N.A.	N.A.	N.A.	150 °C	150 °C	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	150 °C	N.A.	150 °C	150 °C	N.A.	N.A.	N.A.	150 °C	N.A.	N.A.	N.A.
4th stage Suction Temperature Range(Maximum)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	65 °C	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
4th stage Discharge Temperature Range(Trip Point)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	150°C	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Engine Exhaust Temperature Range(Trip Point)	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C	580 °C
Compressor Oil Temperature Range(Maximum)	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C	90 °C
Engine Oil Temperature Range(Trip Point)	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C	96 °C
Compressor Jacket Water Present (yes/ no)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Annexure-3 Process Details (Revised)

Unit Name	GCS-1 LPB-6	GCS-1 GI-4	GCS-2 GL-8	GCS-4 LPB-3	GCS-4 LPB-4	GCS-4 GI-1	GCS-4 GI-2	GCS 6 LPB-4	Jorajan GCS LPB-5	Jorajan GCS GL-3	Jorajan GCS GL-4	Ushapur GCS LPB-3	Ushapur GCS GL-3	Hebeda GCS LPB-4	Joypur GCS GI-4	Shalmari GCS LPB-4	Shalmari GCS GL-4	Shalmari GCS GS-5	Kathaloni GCS LPB-1	Kathaloni GCS LPB-3	Kathaloni GCS GL-2	Kathaloni GCS GI-3	Moran GCS LPB-6	Moran GCS LPB-7	Moran GCS LPB-8
Compressor Jacket Water Temperature Range(Trip Point)	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	74 ^{o}C	80 ^{o}C	74 ^{o}C	74 ^{o}C	80 ^{o}C	74 ^{o}C	80 ^{o}C	80 ^{o}C	80 ^{o}C
Compressor Jacket Water Flow Transmitter (DP Type)	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20
Engine Jacket Water Present (yes/ no)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Engine Jacket Water Temperature Range(Trip Point)	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C	95 ^{o}C
Engine Jacket Water Flow Transmitter (DP Type)	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20	0-400 inH20
Engine RPM Range	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm	600-1000 rpm

Annexure-4 BILL OF MATERIALS (BOM) (REVISED)

A. For GCS-1 LPB-6, GCS-2 LPB-8, GCS-4 LPB-3, GCS-6 LPB-4, Jorajan GCS LPB-5, Jorajan GCS GL-3, Jorajan GCS GL-4, Ushapur GCS LPB-3, Ushapur GCS GL-3, Hebeda GCS LPB-4, Shalmari GCS LPB-4, Kathaloni GCS GL-2, Moran GCS LPB-6, Moran GCS LPB-7 and Moran GCS LPB-8:

Tentative BOM based on the specifications and scope of work has been attached herewith for reference. However, its in bidders scope to include any additional requirement, if found necessary to make the system functional and fulfil the technical specifications of the tender document. Bidder needs to supply same without any extra cost to OIL.

Sl. No.	Item Description	Quantity	Unit	Bidders Acceptance
1	Control Panel	01	No.	
2	Tubes and Fittings	01	Lot	
3	Cables	01	Lot	
4	Pressure Transmitter	15	Nos.	
5	Vibration Transmitters - Accelerometer	04	Nos.	
6	Vibration Transmitters - Velometer	04	Nos.	
7	Temperature Element (RTD/ Thermocouple)	09	Nos.	
8	Scrubber Level Switch	02	Nos.	
9	Engine Oil level Switch	01	No.	
10	Compressor Oil Level Switch	01	No.	
11	Compressor Oil No flow switch	01	No.	
12	Engine Jacket water no flow DP Transmitter	01	No.	
13	Compressor Jacket water no flow DP Transmitter	01	No.	
14	Solenoid Operated Valves	08	Nos.	
15	RPM sensor	01	Nos.	
16	I/P Convertor	02	Nos.	
17	Pressure Gauge	06	Nos.	
18	Temperature Gauge	06	Nos.	
19	Electronic Controller	01	No.	
20	15” HMI	01	No.	
21	I/O cards	As per requirement		
22	Relays	As per requirement		
23	Isolators	As per requirement	Nos	
24	Recycle Control Valve with Smart Positioner	01	Nos.	

B. For GCS-4 LPB-4, Kathaloni GCS LPB-1 and Kathaloni GCS LPB-3

Tentative BOM based on the specifications and scope of work has been attached herewith for reference. However, its in bidders scope to include any additional requirement, if found necessary to make the system functional and fulfil the technical specifications of the tender document. Bidder needs to supply same without any extra cost to OIL.

Sl. No.	Item Description	Quantity	Unit	Bidders Acceptance
1	Control Panel	01	No.	
2	Tubes and Fittings	01	Lot	
3	Cables	01	Lot	
4	Pressure Transmitter	15	Nos.	
5	Vibration Transmitters - Accelerometer	08	Nos.	
6	Vibration Transmitters - Velometer	04	Nos.	
7	Temperature Element (RTD/ Thermocouple)	11	Nos.	
8	Scrubber Level Switch	02	Nos.	
9	Engine Oil level Switch	01	No.	
10	Compressor Oil Level Switch	01	No.	
11	Compressor Oil No flow switch	01	No.	
12	Engine Jacket water no flow DP Transmitter	01	No.	
13	Compressor Jacket water no DP flow Transmitter	01	No.	
14	Solenoid Operated Valves	08	Nos.	
15	RPM sensor	01	Nos.	
16	I/P Convertor	02	Nos.	
17	Pressure Gauge	06	Nos.	
18	Temperature Gauge	08	Nos.	
19	Electronic Controller	01	No.	
20	15” HMI	01	No.	
21	I/O cards	As per requirement		
22	Relays	As per requirement		
23	Isolators	As per requirement	Nos	
24	Recycle Control Valve with Smart Positioner	01	Nos.	

C. For GCS-1 GI-4, GCS-4 GI-1, GCS-4 GI-2, Joypur GCS GI-4, Shalmari GCS GL-4 and Kathaloni GCS GI-3

Tentative BOM based on the specifications and scope of work has been attached herewith for reference. However, its in bidders scope to include any additional requirement, if found necessary to make the system functional and fulfil the technical specifications of the tender document. Bidder needs to supply same without any extra cost to OIL.

Sl. No.	Item Description	Quantity	Unit	Bidders Acceptance
1	Control Panel	01	No.	
2	Tubes and Fittings	01	Lot	
3	Cables	01	Lot	
4	Pressure Transmitter	19	Nos.	
5	Vibration Transmitters - Accelerometer	06	Nos.	
6	Vibration Transmitters - Velometer	04	Nos.	
7	Temperature Element (RTD/ Thermocouple)	11	Nos.	
8	Scrubber Level Switch	03	Nos.	
9	Engine Oil level Switch	01	No.	
10	Compressor Oil Level Switch	01	No.	
11	Compressor Oil No flow switch	01	No.	
12	Engine Jacket water no flow DP Transmitter	01	No.	
13	Compressor Jacket water no flow DP Transmitter	01	No.	
14	Solenoid Operated Valves	09	Nos.	
15	RPM sensor	01	Nos.	
16	I/P Convertor	02	Nos.	
17	Pressure Gauge	08	Nos.	
18	Temperature Gauge	08	Nos.	
19	Electronic Controller	01	No.	
20	15” HMI	01	No.	
21	I/O cards	As per requirement		
22	Relays	As per requirement		
23	Isolators	As per requirement	Nos	
24	Recycle Control Valve with Smart Positioner	01	Nos.	

D. For Shalmari GCS GS-5

Tentative BOM based on the specifications and scope of work has been attached herewith for reference. However, its in bidders scope to include any additional requirement, if found necessary to make the system functional and fulfil the technical specifications of the tender document. Bidder needs to supply same without any extra cost to OIL.

Sl. No.	Item Description	Quantity	Unit	Bidders Acceptance
1	Control Panel	01	No.	
2	Tubes and Fittings	01	Lot	
3	Cables	01	Lot	
4	Pressure Transmitter	23	Nos.	
5	Vibration Transmitters - Accelerometer	08	Nos.	
6	Vibration Transmitters - Velometer	04	Nos.	
7	Temperature Element (RTD/ Thermocouple)	13	Nos.	
8	Scrubber Level Switch	04	Nos.	
9	Engine Oil level Switch	01	No.	
10	Compressor Oil Level Switch	01	No.	
11	Compressor Oil No flow switch	01	No.	
12	Engine Jacket water no flow DP Transmitter	01	No.	
13	Compressor Jacket water no flow DP Transmitter	01	No.	
14	Solenoid Operated Valves	10	Nos.	
15	RPM sensor	01	Nos.	
16	I/P Convertor	02	Nos.	
17	Pressure Gauge	10	Nos.	
18	Temperature Gauge	10	Nos.	
19	Electronic Controller	01	No.	
20	15” HMI	01	No.	
21	I/O cards	As per requirement		
22	Relays	As per requirement		
23	Isolators	As per requirement	Nos	
24	Recycle Control Valve with Smart Positioner	01	Nos.	

E. For the entire supply of 25 control panels:

Sl. No.	Item Description	Quantity	Unit	Bidders Acceptance
1	Laptop suitable for use in Zone-2	03	No.	