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

CORRIGENDUM NO.3

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. Annexure – I: AA) TECHNICAL SPECIFICATIONS

Sl no	Clause Number	Clause Description as per Original Tender	Clause Description as per Corrigendum 2	Clause Description as per Corrigendum 3
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	**Vibration Measurement (Compressor):** a. Measurement Range: 10 g max b. Frequency Range: 5 Hz to 1 KHz c. Electrical Area Classification-IEC Zone-2 Gr. IIA/IIB T3 d. Output: 4-20 mA
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	**Vibration Measurement (Cooler):** a. Measurement Range: 0-100mm/s b. Frequency Range: 5 Hz to 1 KHz c. Electrical Area Classification-IEC Zone-2 Gr. IIA/IIB T3 d. Output: 4-20 mA

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	**Vibration Measurement (Engine):** a. Measurement Range: 0-100mm/s b. Frequency Range: 5 Hz to 1 KHz c. Electrical Area Classification-IEC Zone-2 Gr. IIA/IIB T3 d. Output: 4-20 mA
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	Compressor Vibration Transmitter Range: 10 g max, 5Hz to 1Khz 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	Engine Vibration Transmitter Range: 0-100mm/s, 5 Hz to 1 KHz Revised Annexure-3 has been attached
6	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	Engine Vibration Transmitter Range: 0-100mm/s, 5 Hz to 1 KHz Revised Annexure-3 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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Revised Annexure-3 Process Details (As per Corrigendum no. 3)

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.

Revised Annexure-3 Process Details (As per Corrigendum no. 3)

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	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 6 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 8 nos.	10g max, 5hz to 1KHz Quantity - 6 nos.	10g max, 5hz to 1KHz Quantity - 6 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 6 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 6 nos.	10g max, 5hz to 1KHz Quantity - 8 nos.	10g max, 5hz to 1KHz Quantity - 8 nos.	10g max, 5hz to 1KHz Quantity - 8 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 6 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz Quantity - 4 nos.	10g max, 5hz to 1KHz 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 :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 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 :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.	velocimeter :- 100mm/s, 5 Hz to 1 KHz Quantity - 2nos.

Revised Annexure-3 Process Details (As per Corrigendum no. 3)

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
Compressor Jacket Water Temperature Range(Trip Point)	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	74 °C	80 °C	74 °C	74 °C	80 °C	74 °C	80 °C	80 °C	80 °C

Revised Annexure-3 Process Details (As per Corrigendum no. 3)

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 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

REVISED Annexure-4 : BILL OF MATERIALS (BOM) (AS PER CORRIGENDUM No. 3)

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, it’s 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	

REVISED Annexure-4 : BILL OF MATERIALS (BOM) (AS PER CORRIGENDUM No. 3)

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.	

REVISED Annexure-4 : BILL OF MATERIALS (BOM) (AS PER CORRIGENDUM No. 3)

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.	

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. 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.	

Oil India Limited
Materials Department – Field Head Quarters
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Website: www.oil-india.com

CORRIGENDUM NO.1

Date: 06/08/2026

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 incorporate the followings:

1. Annexure – 2 Distances for UPS and Modbus Cable Laying from Control Panel
2. Annexure – 3 Process Details
3. Annexure – 3A Process Details
4. Annexure – 4 BILL OF MATERIALS (BOM)
5. Annexure - 5 Gazette Notification

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

For Oil India Limited,
-Sd-
(Sujit Bora)
Chief Manager-Materials (FD)
For Dy General Manager-Materials (FP)
For General Manager-Materials (HoD)
For Resident Chief Executive

Annexure-2 Distances for UPS and Modbus Cable Laying from Control Panel		
Sl no	Unit Name	Distance from SCADA RTU
1	GCS-1 LPB-6	200 metres
2	GCS-1 GI-4	200 metres
3	GCS-2 GL-8	200 metres
4	GCS-4 LPB-3	200 metres
5	GCS-4 LPB-4	200 metres
6	GCS-4 GI-1	200 metres
7	GCS-4 GI-2	200 metres
8	GCS 6 LPB-4	200 metres
9	Jorajan GCS LPB-5	200 metres
10	Jorajan GCS GL-3	200 metres
11	Jorajan GCS GL-4	200 metres
12	Ushapur GCS LPB-3	200 metres
13	Ushapur GCS GL-3	200 metres
14	Hebeda GCS LPB-4	200 metres
15	Joypur GCS GI-4	150 metres
16	Shalmari GCS LPB-4	300 metres
17	Shalmari GCS GL-4	300 metres
18	Shalmari GCS GS-5	300 metres
19	Kathaloni GCS LPB-1	250 metres
20	Kathaloni GCS LPB-3	250 metres
21	Kathaloni GCS GL-2	250 metres
22	Kathaloni GCS GI-3	250 metres
23	Moran GCS LPB-6	250 metres
24	Moran GCS LPB-7	250 metres
25	Moran GCS LPB-8	250 metres

Annexure-3 Process Details													
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
Recycle Valve Details													
Line Size	3"	2"	2"	3"	3"	2"	2"	3"	3"	2"	2"	3"	2"
Line MOC	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#
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
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
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
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 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
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
Actuator Action (Air Fail- Open/ Close)	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
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
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 ps	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)
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 ps	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)
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)
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.
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.
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.
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.
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.)
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
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
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
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
Compressor Vibration Sensor Type (Accelerometer/ Velometer)	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer

Compressor Vibration Transmitter Range	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 6 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 8 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 6 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 6 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.
Engine Vibration Sensor Type (Accelerometer/ Velometer)	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer
Engine Vibration Transmitter Range	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.
Cooler Vibration Type (Accelerometer/ Velometer)	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer
Cooler Vibration Transmitter Range	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.
1st Stage Suction Temperature Range(Maximum)	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C- 1nos sensor	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C
1st Stage DischargeTemperature Range(Trip Point)	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C-2 Nos senso	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C
2nd Stage Suction Temperature Range(Maximum)	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C- 1nos sensor	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C
2nd Stage Discharge Temperature Range(Trip Point)	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C-2 Nos senso	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C
3rd stage Suction Temperature Range(Maximum)	N.A.	65 ^{0}C	N.A.	N.A.	N.A.	65 ^{0}C	65 ^{0}C	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
3rd stage Discharge Temperature Range(Trip Point)	N.A.	150 ^{0}C	N.A.	N.A.	N.A.	150 ^{0}C	150 ^{0}C	N.A.	N.A.	N.A.	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.
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.
Engine Exhaust Temperature Range(Trip Point)	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C
Compressor Oil Temperature Range(Maximum)	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C
Engine Oil Temperature Range(Trip Point)	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C
Compressor Jacket Water Present (yes/ no)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compressor Jacket Water Temperature Range(Trip Point)	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}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
Engine Jacket Water Present (yes/ no)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Engine Jacket Water Temperature Range(Trip Point)	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}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
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

Annexure-3A Process Details												
Unit Name	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	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
Existing Control Valve	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	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	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	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 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
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
Actuator Action (Air Fail- Open/ Close)	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
Process Details:												
1st Stage Suction Pressure Range	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	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	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	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.	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.	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.	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.	Range 1170 - 1250 psi 6500 PSI max	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
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.)
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
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
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

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
Compressor Vibration Sensor Type (Accelerometer/ Velometer)	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer
Compressor Vibration Transmitter Range	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 6 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 6nos.	100 mv/g, 80 g max, 0.4 to 14 khz 8 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 8 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 8 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 6 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.	100 mv/g, 80 g max, 0.4 to 14 khz 4 nos.
Engine Vibration Sensor Type (Accelerometer/ Velometer)	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer	Velometer
Engine Vibration Transmitter Range	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.	velocimeter :- 100 mv/in/sec, 2nos.
Cooler Vibration Type (Accelerometer/ Velometer)	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer	Accelerometer
Cooler Vibration Transmitter Range	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.	100 mv/g, 80 g max, 0.4 to 14 khz Quantity - 2 nos.
1st Stage Suction Temperature Range(Maximum)	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C - 1 nos Sensor	50 ^{0}C - 1 nos Sensor	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C	50 ^{0}C
1st Stage DischargeTemperature Range(Trip Point)	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C - 2 nos Sensor	150 ^{0}C - 2 nos Sensor	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C
2nd Stage Suction Temperature Range(Maximum)	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C - 1 Nos Sensor	65 ^{0}C - 1 Nos Sensor	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C	65 ^{0}C
2nd Stage Discharge Temperature Range(Trip Point)	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C - 2 nos Sensor	150 ^{0}C - 2 nos Sensor	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C	150 ^{0}C
3rd stage Suction Temperature Range(Maximum)	N.A.	65 ^{0}C	N.A.	65 ^{0}C	65 ^{0}C	N.A.	N.A.	N.A.	65 ^{0}C	N.A.	N.A.	N.A.
3rd stage Discharge Temperature Range(Trip Point)	N.A.	150 ^{0}C	N.A.	150 ^{0}C	150 ^{0}C	N.A.	N.A.	N.A.	150 ^{0}C	N.A.	N.A.	N.A.
4th stage Suction Temperature Range(Maximum)	N.A.	N.A.	N.A.	N.A.	65 ^{0}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.	150°C	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Engine Exhaust Temperature Range(Trip Point)	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C	580 ^{0}C
Compressor Oil Temperature Range(Maximum)	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C	90 ^{0}C
Engine Oil Temperature Range(Trip Point)	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C	96 ^{0}C
Compressor Jacket Water Present (yes/ no)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compressor Jacket Water Temperature Range(Trip Point)	74 ^{0}C	74 ^{0}C	74 ^{0}C	74 ^{0}C	80 ^{0}C	74 ^{0}C	74 ^{0}C	80 ^{0}C	74 ^{0}C	80 ^{0}C	80 ^{0}C	80 ^{0}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
Engine Jacket Water Present (yes/ no)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Engine Jacket Water Temperature Range(Trip Point)	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}C	95 ^{0}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
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

Annexure-4 BILL OF MATERIALS (BOM)

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	13	Nos.	
5	Vibration Transmitters - Accelerometer	06	Nos.	
6	Vibration Transmitters - Velocimeter	02	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 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	13	Nos.	
5	Vibration Transmitters - Accelerometer	10	Nos.	
6	Vibration Transmitters - Velocimeter	02	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 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	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.	

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	17	Nos.	
5	Vibration Transmitters - Accelerometer	08	Nos.	
6	Vibration Transmitters - Velocimeter	02	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 Transmitter	01	No.	
14	Solenoid Operated Valves	09	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.	

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	21	Nos.	
5	Vibration Transmitters - Accelerometer	10	Nos.	
6	Vibration Transmitters - Velocimeter	02	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 Transmitter	01	No.	
14	Solenoid Operated Valves	10	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.	

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.	

रजिस्ट्री सं० डी० एल०-33004/99 REGD. NO. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

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श्रम एवं रोजगार मंत्रालय

(खान सुरक्षा महानिदेशालय)

अधिसूचना

नई दिल्ली, 18 अक्तूबर, 2017

सा.का.नि. 1359(अ).— तेल खान विनियम, 2017 के विनियम 107 के उप-विनियम (2) के अधीन प्रदत्त शक्तियों का प्रयोग करते हुए, मैं प्रशान्त कुमार सरकार, मुख्य खान निरीक्षक जो खान सुरक्षा महानिदेशक के रूप में भी पदनामित हूँ, एतद्द्वारा तेल खानों के जोन-1 या जोन-2 जोखिममय क्षेत्रों में उपयोग किये जाने वाले वैद्युत साधित्र, उपस्कर, मशीनरी या अन्य सामग्रियों के लिए निम्नलिखित मानकों को सामान्य आदेश के द्वारा अधिसूचित करता हूँ।

क्र. सं.	भारतीय मानक शीर्षक	भारतीय मानक	आईईसी मानक	समतुल्य मानक
1	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण – सामान्य आवश्यकता	आईएस/आईईसी 60079-0:2011 आईएस/आईईसी 60079-0:2007	आईईसी 60079-0:2011	ईएन 60079-0:2011
2	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण –ऊष्मारोधी आवरण ''डी''	आईएस/आईईसी 60079-1:2007	आईईसी 60079-1:2007	ईएन 60079-1:2007
3	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण –दबावनुकूलित आवरण ''पी''	आईएस/आईईसी 60079-2:2007	आईईसी 60079-2:2007	ईएन 60079-2:2007
4	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण – पाउडर भरने ''क्यू''	आईएस/आईईसी 60079-5:2007	आईईसी 60079-5:2007	ईएन 60079-5:2007

क्र. सं.	भारतीय मानक शीर्षक	भारतीय मानक	आईईसी मानक	समतुल्य मानक
5	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण –तेल विसर्जन ''ओ''	आईएस/आईईसी 60079-6:2007	आईईसी 60079-6:2007	ईएन 60079-6:2007
6	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण –सुरक्षा में वृद्धि ''ई''	आईएस/आईईसी 60079-7:2006	आईईसी 60079-7:2006	ईएन 60079-7:2007
7	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण – आंतरिक सुरक्षा ''आई''	आईएस/आईईसी 60079-11:2006	आईईसी 60079-11:2011	ईएन 60079-11:2012
8	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण –सुरक्षा के प्रकार "एन"	आईएस/आईईसी 60079-15:2010	आईईसी 60079-15:2010	ईएन 60079-15:2010
9	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण —संपुटीकरण ''एम''	आईएस/आईईसी 60079-18:2009	आईईसी 60079-18:2009	ईएन 60079-18:2009
10	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण – आंतरिक रूप से सुरक्षित विद्युत प्रणालियाँ	आईएस/आईईसी 60079-25:2010	आईईसी 60079-25:2010	ईएन 60079-25:2010
11	विस्फोटक वायुमंडल – उपकरण संरक्षण स्तर (ईपीएल) के साथ उपकरण	आईएस/आईईसी 60079-26:2006	आईईसी 60079-26:2006	ईएन 60079-26:2006
12	विस्फोटक वायुमंडल – फील्ड बस आंतरिक रूप से सुरक्षित अवधारण (एफआईसीओ)	आईएस/आईईसी 60079-27:2008	आईईसी 60079-27:2008	ईएन 60079-27:2008
13	विस्फोटक वायुमंडल – ऑप्टिकल विकिरण का उपयोग करने वाले उपकरण और ट्रांसमिशन पणाली का संरक्षण	आईएस/आईईसी 60079-28:2006	आईईसी 60079-28:2006	ईएन 60079-28:2006
14	विस्फोटक वायुमंडल – गैस डिटेक्टर-ज्वलनशील गैसों को पता लगाने के लिए खुले रास्तों में प्रदर्शन की आवश्यकता	आईएस/आईईसी 60079-29/ Sec4: 2009	आईईसी 60079-29/Sec4:2009	ईएन 60079-29-4:2007
15	विस्फोटक वायुमंडल – गैस डिटेक्टर-ज्वलनशील गैसों के लिए डिक्टेटरों के प्रदर्शन की आवश्यकता	आईएस/आईईसी 60079-29/ Sec1: 2007	आईईसी 60079-29/Sec1:2007	ईएन 60079-29-1:2007
16	विस्फोटक वायुमंडल – गैस डिटेक्टर-ज्वलनशील गैसों और ऑक्सीजन के लिए डिटेक्टरों के रखरखाव एवं उपयोग का चयन करें	आईएस/आईईसी 60079-29/ Sec2: 2007	आईईसी 60079-29/Sec2:2007	ईएन 60079-29-2:2007
17	विस्फोटक वायुमंडल – विद्युत प्रतिरोध ट्रेस ताप- सामान्य एवं परीक्षण की आवश्यकताएं	आईएस/आईईसी 60079-30/Sec-1: 2007	आईईसी 60079-30/Sec-1:2007	ईएन 60079-30-1:2007
18	विद्युत प्रतिरोध ट्रेस ताप – डिजाइन प्रस्थापना और रखरखाव के लिए प्रयुक्त निर्देशन गाइड	आईएस/आईईसी 60079-30/Sec-2: 2007	आईईसी 60079-30/Sec-2:2007	ईएन 60079-30-2:2010

मानकों का नवीनतम संस्करण तालिका में दिए गए मानकों को प्रतिस्थापित करेगा। उपरोक्त प्रासंगिक मानकों के अनुरूप परीक्षण रिपोर्ट भारत सरकार के प्रयोगशाला या एनएबीएल मान्यता प्राप्त प्रयोगशाला या आईईसीईएक्स मान्यता प्राप्त प्रयोगशाला या एटीईएक्स अधिसूचित निकाय से होगी जो निर्माता की सुविधाओं का हिस्सा नहीं है।

खानों के जोखिममय क्षेत्रों में जोन-1 एवं जोन-2 में प्रयुक्त विद्युत उपकरण, केन्द्रीय विद्युत प्राधिकरण विनियम, 2010 (सुरक्षा और विद्युत आपूर्ति से संबंधित उपाय), (समय-समय पर यथा संशोधित) के प्रावधानों का अनुपालन करेगा।

[फा. सं. एस-29020/60/राजपत्र/2017/वि.मु.]

प्रशान्त कुमार सरकार, मुख्य खान निरीक्षक

MINISTRY OF LABOUR AND EMPLOYMENT

(Directorate General of Mines Safety)

NOTIFICATION

New Delhi, the 18th October, 2017

G.S.R. 1359(E).---- In exercise of the powers conferred on me under Sub-Regulation (2) of 107 of the Oil Mines Regulations, 2017, I, Prasanta Kumar Sarkar, Chief Inspector of Mines also designated as the Director General of Mines Safety notify the following standards by general order for electrical appliance, equipment, machinery or other material that are used or may be used in zone "1" or zone "2" hazardous areas of oil mines.

Sl. No.	TITLE OF INDIAN STANDARDS	INDIAN STANDARDS	IEC STANDARDS	EQUIVALENT STANDARDS
1	Electrical apparatus for explosive gas atmospheres- General requirements	IS/IEC 60079-0: 2011 IS/IEC 60079-0: 2007	IEC 60079-0: 2011	EN 60079-0: 2011
2	Electrical apparatus for explosive gas atmospheres- flameproof enclosure "d"	IS/IEC 60079-1: 2007	IEC 60079-1: 2007	EN 60079-1: 2007
3	Electrical apparatus for explosive gas atmospheres-Pressurized enclosure "p"	IS/IEC 60079-2: 2007	IEC 60079-2: 2007	EN 60079-2: 2007
4	Electrical apparatus for explosive gas atmospheres-Powder filling "q"	IS/IEC 60079-5: 2007	IEC 60079-5: 2007	EN 60079-5: 2007
5	Electrical apparatus for explosive gas atmospheres-Oil immersion "O"	IS/IEC 60079-6: 2007	IEC 60079-6: 2007	EN 60079-6: 2007
6	Electrical apparatus for explosive gas atmospheres-Increased safety "e"	IS/IEC 60079-7: 2006	IEC 60079-7: 2006	EN 60079-7: 2007
7	Electrical apparatus for explosive gas atmospheres-Intrinsic safety "i"	IS/IEC 60079-11: 2006	IEC 60079-11: 2011	EN60079-11: 2012
8	Electrical apparatus for explosive gas atmospheres-type of protection "n"	IS/IEC 60079-15: 2010	IEC 60079-15:2 010	EN 60079-15: 2010
9	Electrical apparatus for explosive gas atmospheres-Encapsulation "m"	IS/IEC 60079-18: 2009	IEC 60079-18: 2009	EN 60079-18: 2009
10	Electrical apparatus for explosive gas atmospheres-Intrinsically safe electrical systems	IS/IEC 60079-25: 2010	IEC 60079-25: 2010	EN 60079-25: 2010
11	Explosive atmospheres-Equipment with equipment protection level (EPL) Ga	IS/IEC 60079-26: 2006	IEC 60079-26: 2006	EN 60079-26 : 2006
12	Explosive atmospheres-Field bus intrinsically safe concept (FISCO)	IS/IEC 60079-27: 2008	IEC 60079-27: 2008	EN 60079-27: 2008

Sl. No.	TITLE OF INDIAN STANDARDS	INDIAN STANDARDS	IEC STANDARDS	EQUIVALENT STANDARDS
13	Explosive atmospheres-Protection of equipment and transmission system using optical radiation	IS/IEC 60079-28: 2006	IEC 60079-28: 2006	EN 60079-28: 2006
14	Explosive atmospheres-Gas detectors-Performance requirements of open path detectors for flammable gases	IS/IEC 60079-29/ Sec4: 2009	IEC 60079-29 / Sec4:2009	EN-60079-29-4: 2007
15	Explosive atmospheres-Gas detectors-Performance requirements of detectors for flammable gases	IS/IEC 60079-29/ Sec1: 2007	IEC 60079-29/Sec1:2007	EN-60079-29-1: 2007
16	Explosive atmospheres-Gas detectors-Selection use and maintenance of detectors for flammable gases and oxygen	IS/IEC 60079-29/ Sec2: 2007	IEC 60079-29 / Sec2:2007	EN-60079-29-2: 2007
17	Explosive atmospheres-Electrical resistance Trace Heating- General and testing requirements	IS/IEC 60079-30 /Sec-1: 2007	IEC 60079-30 /Sec-1:2007	EN-60079-30-1: 2007
18	Electrical resistance Trace Heating-Application guide for design installation and maintenance	IS/IEC 60079-30 /Sec-2: 2007	IEC 60079-30 /Sec-2:2007	EN-60079-30-2: 2010

The latest version of standards shall prevail over the standards given in the table. Test reports conforming to the above relevant standards shall be from an Indian Government Laboratory or NABL accredited laboratory or IECEx accredited laboratory or ATEX notified body, which is not a part of manufacturer's facilities.

The use of electrical apparatus either in Zone-"1" or Zone-"2" hazardous area of the mines shall comply with the provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 (as amended from time to time).

[F. No. S-29020/60/Gazette/2017/EHQ]

PRASANTA KUMAR SARKAR, Chief Inspector of Mines

अधिसूचना

नई दिल्ली, 18 अक्तूबर, 2017

सा.का.नि. 1360(अ).—तेल खान अधिनियम, 2017 के विनियम 118 के उप-विनियम (1) के अधीन प्रदत्त शक्तियों का प्रयोग करते हुए, मैं प्रशान्त कुमार सरकार, मुख्य खान निरीक्षक जो खान सुरक्षा महानिदेशक के रूप में भी पदनामित हूँ, एतद्द्वारा तेल खानों के जोखिममय क्षेत्रों में प्रयुक्त किये जाने वाले वैद्युत प्रकाश साधित्र के लिए निम्नलिखित मानकों को सामान्य आदेश के द्वारा अधिसूचित करता हूँ।

क्र. सं.	भारतीय मानक शीर्षक	भारतीय मानक	आईईसी मानक	समतुल्य मानक
1	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण – सामान्य आवश्यकता	आईएस/आईईसी 60079-0:2011 आईएस/आईईसी 60079-0:2007	आईईसी 60079-0:2011	ईएन 60079-0: 2011
2	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण –ऊष्मारोधी आवरण "डी"	आईएस/आईईसी 60079-1:2007	आईईसी 60079-1:2007	ईएन 60079-1: 2007

क्र. सं.	भारतीय मानक शीर्षक	भारतीय मानक	आईईसी मानक	समतुल्य मानक
3	वायुमंडल में विस्फोटक गैस के लिए विद्युत उपकरण –सुरक्षा में वृद्धि ''ई''	आईएस/आईईसी 60079-7:2006	आईईसी 60079-7:2006	ईएन 60079-2: 2007

मानकों का नवीनतम संस्करण तालिका में दिए गए मानकों को प्रतिस्थापित करेगा। उपरोक्त प्रासंगिक मानकों के अनुरूप परीक्षण रिपोर्ट भारत सरकार के प्रयोगशाला या एनएबीएल मान्यता प्राप्त प्रयोगशाला या आईईसीईएक्स मान्यता प्राप्त प्रयोगशाला या एटीईएक्स अधिसूचित निकाय से होगी जो निर्माता की सुविधाओं का हिस्सा नहीं है।

खानों के जोखिममय क्षेत्रों में जोन-1 एवं जोन-2 में प्रयुक्त विद्युत प्रकाश उपकरण, केन्द्रीय विद्युत प्राधिकरण विनियम, 2010 (सुरक्षा और विद्युत आपूर्ति से संबंधित उपाय) (समय-समय पर यथा संशोधित) के प्रावधानों का अनुपालन करेगा ।

[फा. सं. एस-29020/60/राजपत्र/2017/वि.मु.]

प्रशान्त कुमार सरकार, मुख्य खान निरीक्षक

NOTIFICATION

New Delhi, the 18th October, 2017

G.S.R. 1360(E).—In exercise of the powers conferred on me under Sub-Regulation (1) of 118 of the Oil Mines Regulations, 2017, I, Prasanta Kumar Sarkar, Chief Inspector of Mines also designated as the Director General of Mines Safety hereby notify the following standards by general order for Electrical lighting apparatus for use in hazardous area of oil mines.

Sl. No.	TITLE OF INDIAN STANDARDS	INDIAN STANDARDS	IEC STANDARDS	EQUIVALENT STANDARDS
1	Electrical apparatus for explosive gas atmospheres- General requirements	IS/IEC 60079-0:2011 IS/IEC 60079-0:2007	IEC 60079-0: 2011	EN 60079-0:2011
2	Electrical apparatus for explosive gas atmospheres- flameproof enclosure “d”	IS/IEC 60079-1:2007	IEC 60079-1: 2007	EN 60079-1:2007
3	Electrical apparatus for explosive gas atmospheres-Increased safety “e”	IS/IEC 60079-7:2006	IEC 60079-7: 2006	EN 60079-7:2007

The latest version of standards shall prevail over the standards given in the table. Test reports conforming to the above relevant standards shall be from an Indian Government Laboratory or NABL accredited laboratory or IECEx accredited laboratory or ATEX notified body, which is not a part of manufacturer’s facilities.

The use of electrical lighting apparatus either in Zone-“1” or Zone-“2” hazardous area of the mines shall comply with the provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 (as amended from time to time).

[F. No. S-29020/60/Gazette/2017/EHQ]

PRASANTA KUMAR SARKAR, Chief Inspector of Mines

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