

OIL INDIA LIMITED
(A Government of India Enterprise)
CONTRACTS DEPARTMENT
P.O.: Duliajan- 786602, Assam

**CORRIGENDUM-5 DATED 07.12.2021 TO TENDER NO. CDH8338L22 for “Hiring of
Services for Real Time Production Monitoring and Analysis (RTPM) Project under DRIVE
Initiative”**

The following changes have been incorporated in few clauses of the subject tender which are enclosed herewith as ENCLOSURE-I.

All others terms and conditions of the Tender Document remain unchanged.

List of Changes- Corrigendum-5 to Tender No. CDH8338L22

Sl. No.	Page No.	Section	Sub - Section	Clause	Response	Action
1	113	Part-3 SECTION-II SCOPE OF WORK/ TERMS OF REFERENCE/ TECHNICAL SPECIFICATIONS	Wireless Gauge Pressure Transmitter for Wells & Indirect Heater	Stability: +/- 0.075% of URL for 1 year	Stability: +/- 0.1% of URL for 05 years	Modified
2	114	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Gauge Pressure Transmitter for Wells & Indirect Heater	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable)	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified
3	114	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Temperature Sensor & Transmitter for Wells & Indirect Heater:	Stability: +/- 0.5% of URL for 1 year	Stability: +/- 0.1% of URL for 05 years	Modified
4	115	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Temperature Sensor & Transmitter for Wells & Indirect Heater:	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable).	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified

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5	116	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Differential Pressure & Temperature Transmitter Package for Flow computation at Gas Lift Wells	Stability: +/- 0.075% of URL for 2 years	Stability: +/- 0.1% of URL for 05 years	Modified
6	117	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Differential Pressure & Temperature Transmitter Package for Flow computation at Gas Lift Wells	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable)	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified
7	117	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Gauge Pressure Transmitter for Flow Lines & Process Vessels	Stability: +/- 0.075% of URL for 1 years	Stability: +/- 0.1% of URL for 05 years	Modified
8	118	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Gauge Pressure Transmitter for Flow Lines & Process Vessels	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test,	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified

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Sl. No.	Page No.	Section	Sub - Section	Clause	Response	Action
				Pop test report & Installation dimension Drawings, etc. as applicable)		
9	119	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Temperature Transmitter for Flow Lines & Process Vessels	Stability: +/- 0.5% of URL for 1 year	Stability: +/- 0.1% of URL for 05 years	Modified
10	120	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless Temperature Transmitter for Flow Lines & Process Vessels	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable).	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified
11	120	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless (DPT) for Flow metering at Formation Water Injection Line	Stability: +/- 0.075% of URL for 2 years	Stability: +/- 0.1% of URL for 05 years	Modified
12	121	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Wireless (DPT) for Flow metering at Formation Water Injection Line	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test,	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified

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Sl. No.	Page No.	Section	Sub - Section	Clause	Response	Action
				Pop test report & Installation dimension Drawings, etc. as applicable)		
13	124	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Level (GWR) Transmitter for Process Vessels/ Emulsion treaters	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable)	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified
14	124	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Level (GWR) Transmitter for Process Vessels/ Emulsion treaters	Cage details: External Cage with CS 3.00 MM CA, SIDE TO SIDE / ROTATABLE HEAD, SS316L material, Accessories such as gaskets, bolts, nuts and mounting arrangements are in the scope of the bidder.	Cage details: External Cage with CS 3.00 MM CA, SIDE TO SIDE / ROTATABLE HEAD, Accessories such as gaskets, bolts, nuts and mounting arrangements are in the scope of the bidder.	Modified
15	125	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Non-Contact Level Transmitter for Formation Water Tanks Vessel	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable)	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified

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16	124	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Non-Contact Level Transmitter for Formation Water Tanks Vessel	Process Connection: 4" NPT, 2" NPT and 6" NPT as applicable on each of the formation water tanks.	Process Connection: Flange connection, 6 inch(1 no), 4 inch(2 nos) & 2 inch(1 no).	Modified
17	126	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Water Cut Meter	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable)	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified
18	125	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Water Cut Meter	Wetted Part MOC: CARBON STEEL NACE MR 0175, ISO 15156	Wetted Part MOC : SS316L	Modified
19	125	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Water Cut Meter	Placement: Inline horizontal placement on 4" line (3 Nos.)	Placement: Inline horizontal placement on 4 inch (2 nos) & 3 inch (1 no).	Modified

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20	125	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Water Cut Meter	Inclusion of new specification for NIR type sensor. (Either the earlier specification mentioned in tender document or the new specification mentioned herein is to be met by the contractor)	WATER CUT METER: Vessel Description: Emulsion Treater (Oil Outlet Line) Vessel material: Carbon Steel Fluid Phase: Crude Oil (Oil + Natural Gas + Formation Water) Fluid Properties: Please refer crude sample analysis as mentioned in Annexure-A. Process Connection Line Diameter: 4 inch Placement: Inline horizontal placement on 4" line (3 Nos.) Static Mixer: Required, SS304 or better Measurement Principle/sensor technology: NIR-absorption spectroscopy Measuring Range: 0 – 10 % (with low water cut filter) Measurement Accuracy: ± 1 % or better Resolution: 0.01 % Response time: 1 second Power Supply: 20 – 30 VDC ± 10 %, 8W max. Remote Readout: 4 – 20 mA Process Temperature: (0- 100) °C Ambient temperature: (0- 60) °C Process Pressure: 0 – 7 Kg/cm ² Probe Material: SS 316/316L or Hastelloy C276 (with sapphire windows) Digital Display: Required End Connection: 150# ANSI Raised Face (RF) Electronic Enclosure Rating: IP65 or higher Cable Entry: VTA Area Classification Certification: In accordance with OMR 2017 Guidelines for use in zone-1 Gr. IIA/IIB Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided. Accessories: FLP cable glands (as applicable), Mounting accessories, Configuration software & cable.	Added
21	127	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Oil in Water Line (Oil Content) Analyzer	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating &	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified

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				Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable)		
22	129	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Chemical Flowmeter Transmitter	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable)	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified
23	129	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Chemical Flowmeter Transmitter	Hazardous Area Classification: The meter should meet applicable standards and OMR 2017 guidelines for use in zone-1 Gr. IIA/IIB, T3. Weights & Measure approval from govt of India & OIML.	Hazardous Area Classification: The meter should meet applicable standards and OMR 2017 guidelines for use in zone-1 Gr. IIA/IIB, T3. NTEP/NMI certification mandatory	Modified
24	130	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Multi-Phase Flow Meter	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified

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				Drawings, etc. as applicable)		
25	133	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Flow meters for Crude Oil Dispatch Line Measuremen t	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. (Calibration certificate, IP Protection, Area Classification certificate, Material Certificates to 3.1 as per EN10204, Pressure test procedure/ Report, NDT procedure / Report, Operating & Maintenance Instructions & Spare Parts List, Hydro Test, Pop test report & Installation dimension Drawings, etc. as applicable)	Documentation: Necessary documentation for installation, maintenance and troubleshooting to be provided. Calibration certificate, IP Protection Certificate, Hazardous Area Classification certificate, Material Certificates to 3.1 as per EN10204, etc. need to be provided.	Modified
26	132	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Flow meters for Crude Oil Dispatch Line Measuremen t	Hazardous Area Classification: The meter should meet applicable standards and OMR 2017 guidelines for use in zone-1 Gr. IIA/IIB, T3. Weights & Measure approval from govt of India & OIML.	Hazardous Area Classification: The meter should meet applicable standards and OMR 2017 guidelines for use in zone-1 Gr. IIA/IIB, T3. NTEP/NMI certification mandatory	Modified
27	138	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Clause 2.3 (c) 39	Remote Terminal Unit (RTU) should communicate simultaneously on all communication ports and using multiple concurrent protocols including IEC 60870-5- 101, 60870-5-104, IEC 61850, MODBUS (Serial & TCP/IP) and DNP 3.0 (Serial & TCP/IP)	Remote Terminal Unit (RTU) should communicate simultaneously on all communication ports using MODBUS (Serial & TCP/IP) protocol at least.	Modified
28	138	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Clause 2.3 (c) 36	BIDDER should provide RTUs for well specific sensor inputs and shall support the following protocol formats with ability to send data them to SCADA Vantage. (SRTP Client/ Server, Modbus TCP/IP, OPC-UA Server, EGD, PROFINET*, DNP3 Outstation*, IEC- 61850 Client*, IEC-104 Server*, HART	BIDDER should provide RTUs for well specific sensor inputs and shall support MODBUS (Serial & TCP/IP) protocol format at least for sending data to SCADA.	Modified

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				passthrough, ASCII Serial, Modbus/RTU)		
29	138	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Clause 2.3 (c) 40	BIDDER to ensure that the Remote Terminal Unit (RTU) should have data transmission rates from 300 to 19200 baud for serial ports (for both IEC 60870-5-101 & MODBUS) and 10/100 Mbps for TCP/IP Ethernet ports. The CPU should have built-in USB ports & RS-232 ports.	BIDDER to ensure that the Remote Terminal Unit (RTU) should have data transmission rates from 300 to 19200 baud for serial ports (for MODBUS at least) and 10/100 Mbps for TCP/IP Ethernet ports. The CPU should have built-in USB ports & RS-232 ports.	Modified
30	168	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	6. SPECIAL CONDITIONS OF CONTRACT / 6.3 Role of the Bidder a) Software	New Clause	Proprietary rights and usage of proposed Software: OIL will honour the terms of contract related to IP rights of Software provided. Detailed terms related to Proprietary Rights, Patents, Copyrights, Confidentiality, Indemnity, Software Licensing and Usage, etc. will be mutually agreed upon by OIL and the successful bidder. Such terms will be incorporated in the agreement after placement of LOA on the successful bidder.	Added
31	153	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	3. PROPOSED IMPLEMENT ATION PLAN / 3.2 Instrumentat ion	5. Supply at Site & Site Acceptance Testing : 20th Week from T0 6. Fabrication/ Erection/Construction/In stallation/ Testing : 22nd Week from T0 7. Integration of existing (SCADA Vantage) tags and additional instrumentation tags with PDMS at MCS (L2) : 24th Week from T0	5. Supply at Site & Site Acceptance Testing : 24th Week from T0 6. Fabrication/Erection/Construction/Installa tion/ Testing : 26th Week from T0 7. Integration of existing (SCADA Vantage) tags and additional instrumentation tags with PDMS at MCS (L2) : 28th Week from T0	Modified
32		Part-3 SECTION-III SPECIAL CONDITIONS OF CONTRACT	17.0 Force Majeure	New Clause	Upon occurrence of Force Majeure event, the party claiming that it has been rendered unable as aforesaid thereby, shall notify the other party in writing within 120 (One Hundred and twenty) hours of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of its claim	Added

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33		Part-3 SECTION-III SPECIAL CONDITIONS OF CONTRACT	18.0 Customs Duty	New Clause	<p>18.1 All imports and import clearances under the contract shall be done by the contractor.</p> <p>18.2 The Contractor shall primarily and solely be responsible for obtaining customs clearance for importation into India of the Contractor's equipment, spare parts, consumables, tools etc. in connection with the execution of the work. Any demurrage in this process will be at the Contractor's cost.</p> <p>18.3 The Contractor shall arrange the clearance of all equipment, spare parts, consumables, tools from customs and port authorities in India and shall pay all requisite port fees, clearance fees, transit agent fees, inland transportation charges from port to site etc.</p> <p>18.4 The Contractor will be fully responsible for any unauthorized imports or wrong declaration of goods and will have to pay the penalty and other consequences as levied by the port/customs authorities for such unauthorized imports.</p> <p>18.5 In terms of Sl. No. 404 of the Customs Notification No.50/2017-Cus dated 30.06.2017, imports of the items specified in List 33 of the Notification are subject to levy of concessional rate of customs duty @5% (BCD Nil & IGST @5%) subject to conditions specified therein (Condition No. 48). However, this is subject to change as per Government guidelines and the provisions ruling at the time of tender closing will be applicable.</p> <p>Similarly, the domestic supply of such goods would attract 5% GST (i.e. IGST or CGST & SGST/UTSGT) on submission of EC in terms of GST Notification No. 03/2017.</p> <p>18.6 The Contractor shall furnish to Company details of all equipment, duration of deployment of each equipment, spares and consumables to be brought into India three (3) weeks in advance of the date of shipment. These details shall include year of manufacture, date of purchase, name of manufacturer / supplier, make, model, serial number, specifications, country of origin, duration of deployment etc.</p> <p>18.7 Bidder should provide the list of items to be imported by them under the Contract in the format specified in Proforma-A along</p>	Added

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					<p>with their bid for issuance of Recommendatory Letter to DGH. Contractor shall make written request to Company immediately after shipment of the goods indicated by them in Proforma-A, along with the Invoices and all shipping documents (with clear 15 working days notice) requesting Company for issuance of the Recommendatory Letter. OIL shall issue the Recommendatory Letter provided all the documents submitted by the Contractor are found in order as per contract. It shall be however, Contractor's responsibility to obtain EC from DGH and clear the goods through customs. OIL shall not be liable in whatsoever manner for the rejection of their claims for zero customs duty by any of the authorities including DGH. Contractor shall indemnify OIL from all liabilities of Customs Duty.</p> <p>18.8 However, in the event customs duty becomes leviable during the course of contract arising out of a change in the policy of the Government, Company shall be liable for payment of the customs duties leviable in India on Contractor's items as provided in Proforma-A or the actuals whichever is less, provided Contractor furnishes all necessary documents indicating the estimated customs duty at least 10 days in advance. Such payment of Customs Duty shall be arranged by Company and made available to the representatives of Contractor at Kolkata within 3 working days after Contractor submits the undisputed and clear necessary documents / duty assessment papers at Company's office at Kolkata. Contractor would be responsible for passing such payment to customs authorities at the port of entry.</p> <p>Company's obligation for Customs Duty payment shall be limited / restricted to the tariff rates as assessed by the Customs on the day of clearance, or as on the last day of the stipulated mobilisation period. In case of clearance thereafter, on the CIF value of items in Proforma-A will be frozen and any increase in Customs Duty on account of increase in value on these will be to the Contractor's account. Furthermore, in case the above CIF value is not acceptable to assessing Customs Officer and as a result if any excess Customs Duty becomes payable, it shall be to Contractor's account. Before filing Bill of lading, Bill of entry, the Contractor must consult the Company to</p>	

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					<p>avoid payment of excess Customs Duty.</p> <p>Contractor shall, however, arrange clearance of such items from Customs and port authorities in India and shall pay all requisite demurrages, if any, clearance fees/charges, port fees, clearing and forwarding agent fees/ charges, inland transport charges etc. Company shall provide all assistance by issuance of necessary letter of authority or other relevant documents and necessary help.</p> <p>18.9 Contractor must ensure that the spares and consumables imported by them for providing the services under Contract are properly used in executing their job under the Contract in the PEL/ML areas of Company for which EC has been obtained. Contractor shall furnish to Company a certificate as and when the spares and consumables are used/consumed certifying that the spares and the consumables imported by them have been consumed in those ML and PEL areas under the contract for which ECs were obtained by them. In order to avoid any misuse of the spares and consumables imported by the Contractor for providing the services under the Contract, Contractor shall furnish an Undertaking similar to that being furnished by Company to Customs of suitable amount before issue of the Recommendatory Letter.</p>	
34	199	Part-3 SECTION-IV SCHEDULE OF RATES (SOR) & TERMS OF PAYMENT	SCHEDULE OF RATES FOR PART I: Instrumentat ion & Communicati on Package at Hapjan OCS	<p>1. Placement of purchase order for finalized instruments and Receipt of all the material at the site: Bidder to submit the receipt of material invoice along with Inspection, certifications, FAT & warranty documents : 70% of material value quoted in price bid individual line items.</p> <p>2. Completion of 1 year of complimentary solution support period (defect liability period) : 30% of material value quoted in price bid individual line items</p>	<p>1. Placement of purchase order for finalized instruments & Receipt of all the material at the site: Bidder to submit the receipt of material invoice along with Inspection, certifications, FAT & warranty documents : 80% of material value quoted in price bid individual line items.</p> <p>2. Completion of SAT / Go - Live : 20% of material value quoted in price bid individual line items</p>	Modified

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35	200	Part-3 SECTION-IV SCHEDULE OF RATES (SOR) & TERMS OF PAYMENT	SCHEDULE OF RATES FOR PART II: System hardware and software package	1. Receipt of required software and hardware components for MCS package: Bidder to submit the receipt of material invoice along with Inspection, certifications, FAT & warranty documents : 70% of the package value as quoted in price bid (line item 2.1) 2. Completion of installation and of the hardware & system software package supplied under Part II Sl. No. 1: Payment shall be released post receiving the service invoice and a completion certificate from OIL : 15% of the package value as quoted in price bid (line item 2.1) 3. Completion of 1 year of complimentary solution support period (defect liability period) : 15% of the package value as quoted in price bid (line item 2.1)	1. Receipt of required software and hardware components for MCS package: Bidder to submit the receipt of material invoice along with Inspection, certifications, FAT & warranty documents : 70% of the package value as quoted in price bid (line item 2.1) 2. Completion of SAT / Go-Live : 20% of the package value as quoted in price bid (line item 2.1) 3. Completion of 1 year of complimentary solution support period (defect liability period) : 10% of the package value as quoted in price bid (line item 2.1)	Modified
36	201	Part-3 SECTION-IV SCHEDULE OF RATES (SOR) & TERMS OF PAYMENT	SCHEDULE OF RATES FOR PART III: Implementation Charges for RTPM Software Solution	1. Submission of solution blueprint design and technical architecture for software application modules and sign-off from OIL : 15% of the implementation services cost as quoted in price bid 2. System integration testing (SIT), User Acceptance Testing Completion & Sign-Off by OIL : 25% of the implementation services cost as quoted in price bid 3. Solution go-live & execution of software license agreement : 25% of the implementation services cost as quoted in price bid 4. Training to applicable OIL users as defined in	1. Submission of solution blueprint design and technical architecture for software application modules and sign-off from OIL : 15% of the implementation services cost as quoted in price bid 2. System integration testing (SIT), User Acceptance Testing Completion & Sign-Off by OIL : 30% of the implementation services cost as quoted in price bid 3. Solution go-live & execution of software license agreement : 30% of the implementation services cost as quoted in price bid 4. Training to applicable OIL users as defined in training requirements : 15% of the implementation services cost as quoted in price bid 5. Completion of 1 year of complimentary solution support period (defect liability period) : 10% of the implementation services cost as quoted in price bid after deduction of penalties as applicable.	Modified

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				training requirements : 10% of the implementation services cost as quoted in price bid 5. Completion of 1 year of complimentary solution support period (defect liability period) : 25% of the implementation services cost as quoted in price bid after deduction of penalties as applicable.		
37	88	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	1. Introduction / 1.3 AS-IS State At Hapjan / b. RTU, SCADA, Historian and Data Transfer At Hapjan OCS	New Clause	For SCADA Real time data frequency for existing tags - 1 Second Frequency for the historical tag data - 1 Second Size (GB) of existing historical data for the last 10 years - Approx. 17 GB per year for Hapjan	Added
38	92	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	1. Introduction / 1.3 AS-IS State At Hapjan / c. Production Data Storage	New Clause	For GRPC 1. The format of the GRPC database is MS SQL Server. 2. The size of the database is 493.63 MB. 3. The interface of the GRPC database is in MS Access. 4. The integration mechanism of GRPC database would be same as is done in MS SQL Server.	Added
39		Appendix-II			P&ID Diagram shared as part of the corrigendum	Enclosed
40		Annexure-III			Notification REGD. NO. D. L.-33004/99 dated 18th October 2017, published by the Gazette of India, under Ministry of Labour and Employment shared as part of corrigendum	Enclosed
41	140	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	2.3 TECHNICAL REQUIREMENT a. Instrumentation, Data Transfer and Storage / C. Technical Requirement : RTU	Edge computing BIDDER may provide capability to compute the data on the edge device itself, for that edge device should have minimum 4 GB RAM available, to reduce the latency in data processing and advance analytics implementation scalability in future	BIDDER may provide capability to compute the data on the edge device itself, for that edge device should have minimum 4 GB RAM available, to reduce the latency in data processing and advance analytics implementation scalability in future	Modified Deleted header "Edge Computing"

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42	99	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	2.2 FUNCTIONAL REQUIREMENT a. Instrumentation / D Functional Requirement : Common Details	In this regard, Bidder may refer OMR-2017, Notification dated 18th October 2017, published by the Gazette of India, under Ministry of Labour and Employment.	In this regard, Bidder may refer OMR-2017, Notification REGD. NO. D. L.-33004/99 dated 18th October 2017, published by the Gazette of India, under Ministry of Labour and Employment.	Modified
43	150	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	2.5 MANPOWER REQUIREMENTS	Minimum composition of team size shall be as under	Minimum composition of team size shall be as under. Bidder must submit the CVs of all the Team Members proposed to be deployed for this project duly certified by CEO/Country Head / Chief Operating Officer OR by any Partner holding the Power of Attorney. If the bidder is leveraging experience of Parent / Sister company/Technical Collaborator for qualification under sub-clause (F), (G) & (H) above, in that case resume of key personnel from Parent / Sister company/Technical Collaborator needs to be submitted.	Modified
44	143	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	b. Software & Analytics / A Technical Requirement : Production Data Management System (PDMS)		The proposed software(s) by the bidder should have undergone at least 2 (two) version upgrades over the last 5 years reckoned from the Original Bid Closing Date.	Added
45	145	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	b. Software & Analytics / B Technical Requirement : Online Simulation Software		The proposed software(s) by the bidder should have undergone at least 2 (two) version upgrades over the last 5 years reckoned from the Original Bid Closing Date.	Added
46	25	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.2 EXPERIENCE:	ii. The bidder should either have experience of successfully completing at least one (1) project of supply, installation, and commissioning of software solution for Production Data Management System or equivalent software comprising of production data management modules in production domain of upstream Oil & Gas in India or abroad under a	ii. The bidder should either have experience of successfully completing at least one (1) project of supply, installation, and commissioning of software solution for Production Data Management System or equivalent software comprising of production data management modules in production domain of upstream Oil & Gas in India or abroad in the last 10 (Ten) years reckoned from the Original Bid Closing Date or should have experience of successfully completing at least one (1) project of supply, installation, and commissioning of process simulation and modelling software solution in production domain of upstream Oil & Gas in India or abroad in the last 10 (Ten) years reckoned from the Original Bid Closing Date.	Modified

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Sl. No.	Page No.	Section	Sub - Section	Clause	Response	Action
				single contract in the last 10 (Ten) years reckoned from the Original Bid Closing Date or should have experience of successfully completing at-least one (1) project of supply, installation, and commissioning of process simulation and modelling software solution in production domain of upstream Oil & Gas in India or abroad under a single contract in the last 10 (Ten) years reckoned from the Original Bid Closing Date.		
47	25	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.2 EXPERIENCE: Notes to BEC Clause 1.1.2 (A)	I. For proof of requisite Experience (Clause Nos. 1.1.2 i & 1.1.2 ii. mentioned above), following documents/ photocopy (self-attested/attested) must be submitted along with the bid: A. Contract document showing details of work AND B. Job Completion Certificate showing: (i) Gross value of job done (ii) Nature of job done and Work order no. / Contract no. (iii) Contract period and date of completion OR C. SES (Service Entry Sheet)/Certificate of Payment (COP) issued by the company indicating the following: (i) Work order no. / Contract no. (ii) Gross value of jobs done (iii) Period of Service (iv) Nature of Service OR D. Any other document(s) which can substantiate the experience	I. For proof of requisite Experience, following documents/ photocopy (self-attested/attested) must be submitted along with the bid: A. Contract document showing details of work AND B. Job Completion Certificate showing: (i) Gross value of job done (ii) Nature of job done and Work order no. / Contract no. (iii) Contract period and date of completion OR C. SES (Service Entry Sheet)/Certificate of Payment (COP) issued by the company indicating the following: (i) Work order no. / Contract no. (ii) Gross value of jobs done (iii) Period of Service (iv) Nature of Service OR D. Any other document(s) which can substantiate the experience	Modified

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48	26	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.2 EXPERIENCE / Notes to BEC Clause 1.1.2.A.II	II. For proof of requisite Experience (Clause No. 1.1.2 iii. mentioned above), self-certification must be provided by the CEO/Country Head / Chief Operating Officer/Authorized Signatory/Partner holding the Power of Attorney of the organization showing details of work, nature of job done and work order no./contract no. along with contract period and date of completion.	-	Deleted
49	26	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.2 EXPERIENCE / Notes to BEC Clause 1.1.2.A.III	In case the bidder cites the reasons of Non-Disclosure Agreement (NDA) for its inability to submit necessary documents in support of meeting the experience criteria as mentioned above, a certificate, in original, certifying all the required information (WO/PO number, Executed Value, brief scope of the project, Completion date, etc.), issued by CEO / CFO / Managing Director/Authorized Signatory of the company along with a declaration that the bidding company is not in a position to submit the required documents owing to the NDA with an endorsement by Chartered Accountant / Statutory Auditor / Certified Public Accountant (not being an employee or a Director or not having any interest in the bidder(s) company/firm) may be submitted. Bidder will also need to provide client references for OIL to conduct reference call as desired.	In case the bidder cites the reasons of Non-Disclosure Agreement (NDA) for its inability to submit necessary documents in support of meeting the experience criteria as mentioned above, a certificate, in original, certifying all the required information (Brief scope of the project, Completion date & other details), issued by CEO / CFO / Managing Director/Authorized Signatory of the company along with a declaration that the bidding company is not in a position to submit the required documents owing to the NDA.	Modified

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50	26	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.2 EXPERIENCE / Notes to BEC Clause 1.1.2.F.i	<p>a) Working experience of Supply, installation, and commissioning of field instruments (measuring devices and wireless network devices) (not mentioned earlier) in the domain of upstream Oil and Gas client in India or abroad under a single contract in last 10 (ten) years reckoned from the Original Bid Closing Date.</p> <p>OR</p> <p>b) Working experience of supply, installation, and commissioning of software solution for Production Data Management System or equivalent software comprising of production data management modules in production domain of upstream Oil & Gas in India or abroad under single contract in the last 10 (ten) years reckoned from the Original Bid Closing Date..</p> <p>OR</p> <p>c) Working experience of supply, installation, and commissioning of process simulation and modelling software solution in production domain of upstream Oil & Gas in India or abroad under single contract in the last 10 (ten) years reckoned from the Original Bid Closing Date. In this regard the primary bidder must submit all relevant documents from Technical Collaboration/Joint Venture Partner establishing experience as per Notes to BEC</p>	<p>a) Working experience of Supply, installation, and commissioning of field instruments (measuring devices and wireless network devices) in the production domain of upstream Oil and Gas client in India or abroad in last 10 (ten) years reckoned from the Original Bid Closing Date.</p> <p>OR</p> <p>b) Working experience of supply, installation, and commissioning of software solution for Production Data Management System or equivalent software comprising of production data management modules in production domain of upstream Oil & Gas in India or abroad in the last 10 (ten) years reckoned from the Original Bid Closing Date.</p> <p>OR</p> <p>c) Working experience of supply, installation, and commissioning of process simulation and modelling software solution in production domain of upstream Oil & Gas in India or abroad in the last 10 (ten) years reckoned from the Original Bid Closing Date. In this regard the primary bidder must submit all relevant documents establishing experience as per Notes to BEC Clause 1.1.2 above.</p>	Modified

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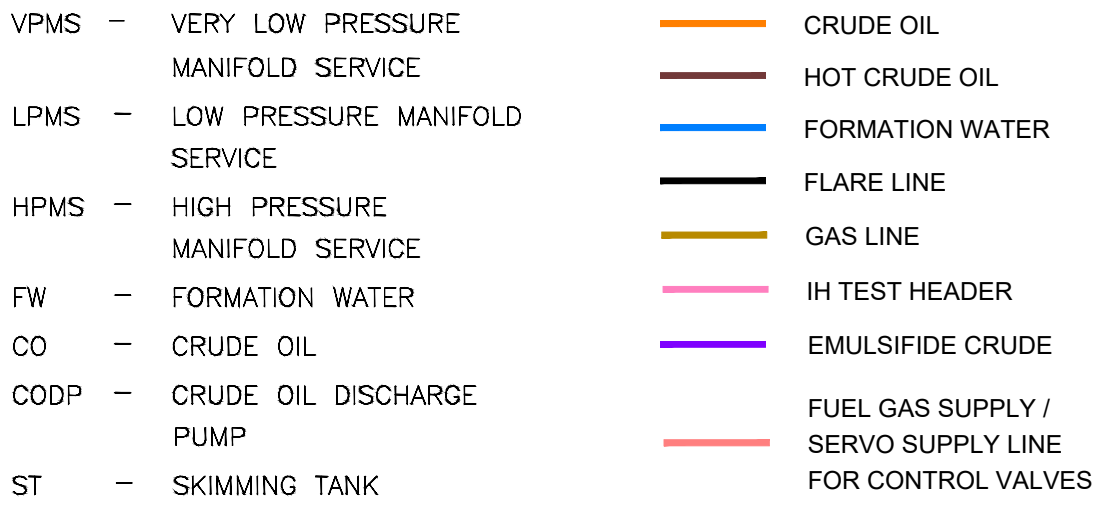
Sl. No.	Page No.	Section	Sub - Section	Clause	Response	Action
				Clause 1.1.2 above.		
51	27	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.2 EXPERIENCE / Notes to BEC Clause 1.1.2.F.iii	The Technical Collaborator/Joint Venture Partner at its own shall meet the experience criteria as per Clause No. 1.1.2 above. The experience of the Technical Collaborator /Joint Venture with other firm(s) will not be qualified. In this regard, the documents establishing experience of the Technical Collaborator/Joint Venture Partner shall be submitted as per notes to BEC Clause No. 1.1.2 above.	The Primary Bidder and the Technical Collaborator/Joint Venture Partner on their own shall meet the experience criteria as per Clause No. 1.1.2 above. The experience of the Technical Collaborator /Joint Venture with other firm(s) will not be qualified. In this regard, the documents establishing experience of the Technical Collaborator/Joint Venture Partner shall be submitted as per notes to BEC Clause No. 1.1.2 above.	Modified
52	27	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.2 EXPERIENCE / Notes to BEC Clause 1.1.2.F.iv	Indian bidders quoting based on the strength of technical collaborator/ joint venture partner, shall submit a duly Notarized Memorandum of Understanding (MOU)/Agreement with their technical collaborator/ joint venture partner clearly indicating their roles and responsibilities under the scope of work which shall be addressed to OIL and shall remain valid and binding for the entire contract period under this tender.	Indian bidders quoting based on the strength of technical collaborator/ joint venture partner, shall submit a Memorandum of Understanding (MOU)/Agreement with their technical collaborator/ joint venture partner clearly indicating their roles and responsibilities under the scope of work which shall be addressed to OIL and shall remain valid and binding for the entire contract period under this tender.	Modified
53	30	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.4	Bidder must submit the CVs of all the Team Members proposed to be deployed for this project duly certified by CEO/Country Head / Chief Operating Officer OR by any Partner holding the Power of Attorney along with the bid. If the bidder is leveraging experience of Parent / Sister company/Technical Collaborator for qualification under sub-clause (F), (G) & (H)	Shifted to Part-3 Section-II SCOPE OF WORK	Deleted

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				above, in that case resume of key personnel from Parent / Sister company/Technical Collaborator needs to be submitted.		
54	30	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.5	<p>The proposed software(s) by the bidder should have undergone atleast 2 (two) version upgrades over the last 5 years reckoned from the Original Bid Closing Date.</p> <p>In this regard a self-certification must be provided by the CEO/Country Head / Chief Operating Officer/Authorized Signatory/Partner holding the Power of Attorney of the organization along with build notes/release notes to substantiate the changes in each version upgrade/update.</p>	Shifted to Part-3 Section-II SCOPE OF WORK	Deleted
55	30	PART-2 BID EVALUATION CRITERIA (BEC)	1.0 TECHNICAL CRITERIA / 1.1.7	<p>Bidder should take responsibility of provisioning instrumentation, hardware requirements, software requirements and associated licenses along with installation and commissioning services etc. to implement the end-to-end solution successfully and to client's satisfaction. In this regard bidder must submit Certificate from CEO/Country Head / Chief Operating Officer/Authorized Signatory/Partner holding the Power of Attorney of the organization as per attached Annexure-II.</p>	Primary Bidder should take responsibility of provisioning instrumentation, hardware requirements, software requirements and associated licenses along with installation and commissioning services etc. to implement the end-to-end solution successfully and to client's satisfaction. In this regard bidder must submit Certificate from CEO/Country Head / Chief Operating Officer/Authorized Signatory/Partner holding the Power of Attorney of the organization as per attached Annexure-II.	Modified

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56	195	Part-3 SECTION-III SPECIAL CONDITIONS OF CONTRACT	15.0 GOODS AND SERVICES TAX 15.10	GST shall be paid against receipt of tax invoice and proof of payment of GST to government. In case of non-receipt of tax invoice or non-payment of GST by the contractor/Contractor, OIL shall withhold the payment of GST.	GST shall be paid against receipt of tax invoice and filing of GST return within the timeline. In case of non-receipt of tax invoice by OIL or fail to file GST return within the timeline by the contractor, OIL shall withhold the GST amount till the date of compliance of GST return by the contractor.	Modified
57	127	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Chemical Flowmeter Transmitter	Transmitter Output: 4 to 20 mA isolated current outputs. 2 Active current and 1 passive status outputs, one active with HART 7 for Mass flow and second active for density.	Transmitter Output: 4 to 20 mA isolated current outputs. 2 Active current and 1 passive status outputs, one active with HART for Mass flow and second active for density.	Modified
58	131	Part-3 SECTION-II SCOPE OF WORK / TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS	Flow meters for Crude Oil Dispatch Line Measuremen t	Transmitter Output: 4 to 20 mA isolated current outputs. 2 Active current and 1 passive status outputs, one active with HART 7 for Mass flow and second active for density.	Transmitter Output: 4 to 20 mA isolated current outputs. 2 Active current and 1 passive status outputs, one active with HART for Mass flow and second active for density.	Modified



4	FOR APPROVAL	22 JULY 2021			-		-		
3	FOR APPROVAL	18 JAN 2021			-		-		
2	FOR APPROVAL	29 DEC 2020			-		-		
1	FOR APPROVAL	29 DEC 2020			-		-		
0	FOR APPROVAL	16 DEC 2020			-		-		
PV#	DESCRIPTION	DATE	DWN	CHKD	APPR	APRD			

SCALE: NTS	
DWC NO: HAP IAN P&ID-1	Sht 001 Cont on 002



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असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)

PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित

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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, एतद्वारा तेल खानों के जोन-1 या जोन-2 जोखिममय क्षेत्रों में उपयोग किये जाने वाले विद्युत 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 डिटेक्टरों 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 एनएवीएल 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 अक्टूबर, 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

RAKESH SUKUL
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