

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliajan, Pin – 786602
Dist-Dibrugarh, Assam

AMENDMENT NO. 1 DATED 15.03.22 TO TENDER NO. SDG9350P22/07
dated 10.01.2022

This amendment is issued for the following:

AA) To amend the Technical specifications as below:

| Clause No. | Existing clause | Amended clause | Reasons for amendment |
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| AA: TECHNICAL SPECIFICATIONS | 1. Downhole Gauges Specification Requirement Gauge Sensor Type Dual Piezoresistive Gauge Sample Rate 60 Seconds Single Point Measurement Pressure & Temperature Gauge Sensing Tubing & Annular Gauge Mechanical Design Integral Welded Gauge Cable head Design Dual Metal-to-Metal Seal Gauge Cable head Diagnostic Pressure Testable Gauge Material Specification SS/CRA Gauge Sensor Metrology Pressure Range 10,000 psi Pressure Accuracy +/- 0.05% Full Scale Pressure Resolution 0.0003% Full Scale Pressure Drift < 3psi per Year Temperature Range 150°C Temperature Accuracy +/- 0.5°C Temperature Resolution 0.01°C/Second Temperature Drift <0.8°C per Year Vibration Resiliency 10g at 10-2000Hz Shock Resiliency 80g, 3 Axis Impact Resiliency 500g, 1 Axis | 1. Downhole Gauges Specification Requirement Gauge Sensor Type Single Piezoresistive Gauge Sample Rate 60 Seconds Single Point Measurement Pressure & Temperature Gauge Sensing Tubing Gauge Mechanical Design Integral Welded Gauge Cable head Design Dual Metal-to-Metal Seal Gauge Cable head Diagnostic Pressure Testable Gauge Material Specification SS/CRA Gauge Sensor Metrology Pressure Range 10,000 psi Pressure Accuracy +/- 0.05% Full Scale Pressure Resolution 0.0003% Full Scale Pressure Drift ±3psi per Year Temperature Range 150°C Temperature Accuracy +/- 0.5°C Temperature Resolution 0.01°C/Second Temperature Drift <0.8°C per Year Vibration Resiliency 10g at 10-2000Hz Shock Resiliency 80g, 3 Axis Impact Resiliency 500g, 1 Axis | Price advantage as Single sensing will meet the present requirement considering the completion type. |

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| AA: TECHNICAL SPECIFICATIONS | <p>2. Downhole Gauge Mandrel Specification Requirement Mandrel Type Dual Sensing Mandrel Sensing Mode Tubing & Annular Mandrel Seal Design Metal-to-Metal Mandrel Specification Mandrel Size 3.5" Mandrel Weight 9.2 ppf Mandrel Material L-80 Mandrel Thread VAM TOP Mandrel Connection Box up x Pin down</p> | <p>2. Downhole Gauge Mandrel Specification Requirement Mandrel Type Single Sensing Mandrel Sensing Mode Tubing Mandrel Seal Design Metal-to-Metal Mandrel Specification Mandrel Size 3.5" Mandrel Weight 9.2 ppf Mandrel Material L-80 Mandrel Thread VAM TOP Mandrel Connection Box up x Pin down</p> | <p>As the gauge in sl-1 above is single sensing, the mandrel should be also single sensing.</p> |
| AA: TECHNICAL SPECIFICATIONS | <p>8. Surface Data Acquisition Unit Specification Requirement Downhole Gauge Interface Inclusive Monitoring Mode Real Time & Historic Unit Expansion Capability Multi Well Capable Minimum Sample Rate 60 Seconds User Interface LCD Touchscreen Integration to existing System SCADA Compliant Communication Interface RS232/RS485 Communication Protocol MODBUS OPC RTU Data Storage Size 20 million Samples Download Local Data Xfer USB Port Temperature Rating -20°C to +65°C Enclosure Ingress Rating NEMA 4X/IP66 Cell Modem Required for Remote Data Access Yes Data to Client Desk/Mobile Required Yes Distance from Wellhead to DAQ (Meters) Min 30 m Hazardous Area Certification Zone 2 External Power Capable Primary: Solar Power Back-up: 230V AC/50 Hz</p> | <p>8. Surface Data Acquisition Unit Specification Requirement Downhole Gauge Interface Inclusive Monitoring Mode Real Time & Historic Unit Expansion Capability Multi Well Capable Minimum Sample Rate 60 Seconds User Interface LCD with or without Touch Screen (Alpha-Numeric display configuration is not acceptable.) The LCD screens should have operational provision and data transfer capability to USB without the presence of a computer or laptop via buttons. Integration to existing System SCADA Compliant Communication Interface RS232/RS485 Communication Protocol MODBUS OPC RTU Data Storage Size 20 million Samples Download Local Data Xfer USB Port</p> | <p>Flexibility in options for more vendor participation.</p> |

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| | Lightning Resistance Required | Temperature Rating -20°C to +65°C Enclosure Ingress Rating NEMA 4X/IP66 Cell Modem Required for Remote Data Access Yes Data to Client Desk/Mobile Required Yes Distance from Wellhead to DAQ (Meters) Min 30 m Hazardous Area Certification Zone 2 External Power Capable Primary: Solar Power Back-up: 230V AC/50 Hz Lightning Resistance Required. | |
| AA: TECHNICAL SPECIFICATIONS | 9. Surface Data Acquisition Solar Power Specification Requirement Solar Panels 12V Battery Specification AGM Battery Backup Redundancy 20 Days Hazardous Area Certification Zone 2 Solar Package Ingress Rating NEMA 4X/IP66 Solar Power Stand Material Steel Battery Box Material Stainless Steel Compatible Mounts Mount for DAQ Unit | 9. Surface Data Acquisition Solar Power Specification Requirement Solar Panels 12V Battery Specification AGM Battery Backup Redundancy 20 Days Hazardous Area Certification Zone 2 Solar Package Ingress Rating NEMA 4X/IP66 Solar Power Stand Material Steel Battery Box Material Stainless Steel Compatible Mounts Mount for DAQ Unit | The Surface Data Acquisition Solar Power Unit can be installed a further away from DAQ unit to reduce the risk and hence the necessity of ZONE II certification for Solar Power Unit can be waived which will also reduce the cost significantly. However, Zone 2 certification will be required for DAQ Unit. |
| AB. INSTALLATION AND | 2. The supplier shall be responsible for Installation & Commissioning of the 02 sets of downhole pressure temperature | The supplier shall be responsible for Installation & Commissioning of the 02 sets of downhole pressure | More clarity on pre bid query raised by bidder. |

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| <p>COMMISSIONING</p> | <p>gauges & accessories and bidder is to quote accordingly. Installation & Commissioning shall include providing necessary manpower service, commissioning engineer, tools & tackles and other equipment required for running in downhole equipment, cables, Cables clamping, tubing hanger fitting, wellhead and downhole termination end pressure sealing, hydraulic testing as applicable and functional performance testing for 72 hours as per specification while OIL or its nominated agency shall provide and operate the rig, and also shall provide hydraulic hand pump for hydro testing.</p> | <p>temperature gauges & accessories and bidder is to quote accordingly. Installation & Commissioning shall include providing necessary manpower service, commissioning engineer, tools & tackles and other equipment required for running in downhole equipment, cables, Cables clamping, tubing hanger fitting, wellhead and downhole termination end pressure sealing, hydraulic testing as applicable and functional performance testing for 72 hours as per specification while OIL or its nominated agency shall provide and operate the rig, and also shall provide hydraulic hand pump for hydro testing.</p> <p>Supply of Spooler, Sheave & any other equipment/tools along with its Operators required for successful I&C will be in the scope of the Supplier and will be accounted against I&C scope. Bidder should provide charges of the comprehensive package considering 20 days for I&C per well. The I&C will include running in downhole equipment, cables, cables clamping, tubing hanger fitting, wellhead and downhole termination end pressure sealing, hydraulic testing etc. as applicable and successful preliminary testing of the complete set-up including the surface equipment/DAQ.</p> | |
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| | | <p>Final installation of the surface equipment after removal of the Drilling/Workover Rig from the wellsite and subsequent performance testing of the system for 72 hours as per specification will also be part of the I&C scope. Performance testing will be considered successful only when the system performs uninterruptedly for 72 hrs.</p> | |
| AB. INSTALLATION AND COMMISSIONING | <p>For Installation and Commissioning, Supplier shall be notified 20 days in advance for Mobilisation of Rental equipment and manpower depending on the availability of the Well where the gauges are planned to be installed.</p> | <p>Supplier shall be notified maximum 45 days in advance for Mobilisation of Rental equipment and manpower. However, in case of any anticipated delay in readiness of the well, the supplier will be notified 20 days in advance within the 45 days mobilization period and will be intimated fresh mobilization timeline. Mobilisation call out for both the wells will be given separately, but one at a time.</p> | <p>Concern raised by bidders for short notice mobilisation as the mobilisation of Rental equipment for I&C job should also take place.</p> |
| AD. SPECIAL TERMS AND CONDITIONS | <p>1.0 DELIVERY PERIOD: FOREIGN BIDDER: Materials must be delivered on FOB, Port of Shipment basis within (04) months from the date of opening of Letter of Credit by OIL. The date of unambiguous Bill of Lading (B/L) shall be considered as the date of delivery.</p> | <p>1.0 DELIVERY PERIOD: FOREIGN BIDDER: Materials must be delivered on FOB, Port of Shipment basis within (06) months from the date of opening of Letter of Credit by OIL. The date of unambiguous Bill of Lading (B/L) shall be considered as the date of delivery.</p> | <p>Apprehension raised by bidders in pre bid query as shipping of the equipment will be done from overseas, adequate time is required considering uncertainty in shipping globally.</p> |

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| BB: SPECIAL NOTE TO BIDDERS | 1.0 ab) The Bidder to ensure system is capable of accommodating 3rd party instrument with standard protocol. | 1.0 ab) DAQ should be compatible with 3rd party instruments having RS232 /RS485 connection with MODBUS Protocol. DAQ should have a provision of connecting a minimum of one additional such equipment apart from the standard system provided in scope. | |
| BB: SPECIAL NOTE TO BIDDERS | | Supply of Modem will be under the scope of the bidder and should be able to provide the result of Data to Desktop/Mobile. The bidder should quote necessary subscription charges for 5 years under the contract. Subscription charges per year should not exceed 1% of the total equipment cost (excluding I&C charge). Bidder to quote the subscription charges separately. Renewal & payment of subscription charges will be done annually as per requirement. | Additional requirement. Accordingly Price bid format has been changed |

BB) To extend the Bid Closing date, Technical Bid Opening date of the etender as under:

- i) Bid Closing Date & Time : 30.03.2022 at 11:00 (IST)
- ii) Technical Bid Opening Date & Time : 30.03.2022 at 14:00 (IST).

CC) All other terms and condition of the etender remain unchanged.

Sd/-
(TUHIN ROY)
CMM-FD
MATERIALS DEPARTMENT
FOR GM- MATERIALS
FOR RESIDENT CHIEF EXECUTIVE