OIL INDIA LIMITED

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

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

This amendment is issued for the following:

AA) To amend the Technical specifications as below:

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

SPECIF Mandrel Type Dual Sensing Mode Tubing & Annular	AA:	2. Downhole Gauge Mandrel	2. Downhole Gauge	As the gauge
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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: 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			•	
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Area Certification Zone 2 million Samples External Power Capable Primary: Download Local Data Xfer				
External Power Capable Primary: Download Local Data Xfer		· ·		
1 1 1			•	
		Solar Power	USB Port	
Back-up: 230V AC/50 Hz				

	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: TECHN ICAL SPECIF ICATIO NS	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. INSTAL LATIO N 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.

COMMI SSIONI NG

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.

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.

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 setup including the surface equipment/DAQ.

INSTAL LATIO N AND	For Installation and Commissioning, Supplier shall be notified 20 days in advance for Mobilisation of Rental	Rental equipment and	Concern raised by bidders for short notice
SSIONI	equipment and manpower depending on the availability of the Well where the gauges are planned to be installed.	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	mobilisation as the mobilisation of Rental equipment for I&C job should also take place.
L TERMS AND CONDI TIONS	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.	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.	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.

L NOTE TO	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: SPECIA L NOTE TO BIDDE RS		under the scope of the bidder and should be able to provide the result of	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