

**BULLETIN #2****Sub: Real-Time Monitoring and Control System for Bhaskar-I Field in Gujarat****Ref: Tender No. SunPetro/Bhaskar/WMS/2025-26/SPPL-226**

**Sun Petrochemicals Private Limited (SunPetro)**, hereby authorizes following amendment / clarification in the above referred Tender:

<b>S. No.</b>	<b>Bidder Query</b>	<b>SunPetro Response</b>
1	Pressure and Temperature Transmitters, technical details:	<p><b>The specifications for the Pressure Transmitter and Temperature Transmitter are as given below:</b></p> <p><b>1. For Pressure Transmitters (PT): Type 1</b></p> <ol style="list-style-type: none"> <li>Calibration Range - <b>(0-100 Kg/cm<sup>2</sup>)</b></li> <li>Process Temperature / Pressure - <b>55 Deg</b></li> <li>End Connection Type - <b>2" 300 #</b></li> <li>Wetted Part Material of Construction (MOC)- <b>SS 316</b></li> <li>Housing Material of Construction (MOC) - <b>Aluminium</b></li> <li>Hazardous Area Classification - <b>Zone 0 with 2" 300 # bleed ring</b></li> </ol> <p><b>2. For Pressure Transmitter (PT): Type 2</b></p> <ol style="list-style-type: none"> <li>Calibration Range - <b>(0-100 Kg/cm<sup>2</sup>)</b></li> <li>Process Temperature / Pressure - <b>55 Deg</b></li> <li>End Connection Type - <b>1/2" Npt</b></li> <li>Wetted Part Material of Construction (MOC)- <b>SS 316</b></li> <li>Housing Material of Construction (MOC) - <b>Aluminium</b></li> <li>Hazardous Area Classification - <b>Zone 0 with 2 way manifold 1/2" F * 1/2" M NPT</b></li> <li>Mounting Type: <b>2" Pipe</b></li> </ol> <p><b>3. For Temperature Transmitter (TT):</b></p> <ol style="list-style-type: none"> <li>Mounting Type: <b>2" Pipe</b></li> <li>Housing Material of Construction (MOC) - <b>Aluminium</b></li> <li>Hazardous Area Classification: <b>Zone 0</b></li> <li>Calibration Range - <b>0-100 Deg</b></li> <li>Sensor - <b>3 wire RTD PT 100</b> with 1 1/2" 300 # SS 316 Thermowell, U Length - 280 mm, with Duplex RTD SS Housing</li> </ol>

2	Make of Routers	CISCO, Fortinet Make
3	Any Class 1 div2 certifications required for RTU panel?	IP65, (IEC/ATEX) Zone 0, 1, 2, Class I, Division 1 or 2 – Flammable gases/vapors
4	Can existing server be used or new server to be provided?	Yes, Bidder to provide new server
5	Details on existing SCADA server and Historian available at site.	Indus, Emerson SCADA
6	Is control room SCADA server and historian supply under scope of this project? If yes, whether redundancy is required for both?	Bidder to provide server & Historian along with HA (redundancy)
7	Please provide details on DCS integration- Make and model of DCS, who will do modifications on DCS, Protocols available for connectivity.	Emerson DeltaV, Bidder to integrate, Hardwire or Modbus
8	Does communication channel from RTU to control room and control room to HQO require redundancy? Please confirm and provide details on existing setup.	Yes, P2P & SIM HA
9	Do we need to quote only 15-man days for commissioning in BOQ? Will SunPetro provide additional PO for the same in case of extra man days during actual execution? Please confirm.	Consider 15 Days for system integration at Control Room only. Rest of the tasks like field installation & commissioning has to be considered by Bidder against site visit.
10	There are 24 wells in Table B and 55 wells in Table C. Please clarify as total wells should be around 34 nos.	Total Wells are 44 & rest are spare.
11	Please provide specifications of TT, RTD and PT	Provided in S.No. 1
12	Is there any existing RTU which needs to be integrated with new 34 Nos of RTUs?	No, Bidder to supply 34 new RTUs.
13	SCADA+Historian server is shown as single setup. Please confirm if you are looking for a non-redundant SCADA+Historian setup in single server.	HA (Redundancy)
14	Do we need to carry out all the works directly from Emerson?	No, supply will be from OEM however installation, commissioning and configuration part can be considered separately.

15	Only 3 Nos. of static SIM activation are mentioned. Please clarify as total RTUs are more than 34.	Existing 3 SIMs are activated, however the rest 34 SIM needs activation
16	Please provide system architecture for available systems at Bhaskar CCR and Mumbai HQO.	Bidder to visit site
17	Authorized System Integrator of RA	Only Emerson RTU is acceptable.
18	Kindly Confirm if the said tender will have reverse auction and confirm name of Reverse Auction portal.	No, Reverse auction would not be conducted.
19	Kindly confirm if the Well heads are equipped with Down hole Gauges. As this is downhole, we request M/s SunPetro to Install the DHG in the Wells. Modbus Interface with the DHG analyzer/ Logger unit shall be in scope of Bidder.	Down Hole Gauges will be installed by SunPetro. Rest will be in Bidder's Scope.
20	Kindly Confirm if the Bidders have to supply the Flow meters. Kindly provide the Technical Specifications of the Flow meter.	Please refer S. No.1
21	Scope of Supply of Power Analyzer for Down hole Pump motor/ Cable.	In Bidder's Scope
22	Kindly clarify if Bidders must supply the RTUs for the project.	In Bidder's Scope
23	Kindly clarify if Bidders must supply the Modem for the project.	In Bidder's Scope
24	OPC DA is obsolete with no OEM Support available, hence kindly consider only OPC UA	Ok. Bidder Can consider OPC UA.
25	Our RTUs are IEC-62443-4-2 certified. Please add in the Technical Specification in Tender for a robust cyber secured IT Implementation.	Bidder to quote strictly as per SOW & Technical specifications provided in Tender
26	Kindly consider other make PT & TT for Wellheads such as ABB/ Wika etc.	Bidder to quote strictly as per SOW & Technical specifications provided in Tender.

27	Kindly confirm if the data from RTUs at well site to be interfaced with Existing Emerson Delta V system or we need to supply separate SCADA System. Kindly specify more details on the Table-D Scope of work.	Interface would be with existing Emerson DeltaV system. Bidder to consider separate SCADA System for RTU's at well site.
28	Will Dual Sim Cards for GPRS Communication be provided by SunPetro?	Yes, it would be on Company Scope.

All other terms and conditions of the Tender remain unchanged.

**Regards,**

**Sun Petrochemicals Pvt. Ltd.**