

Sun Petrochemicals Private Limited

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No. SunPetro/Bhaskar/CTM/2025-26/237/Bulletin-5

Date: 12.11.2025

BULLETIN #5

Sub: Custody Transfer Meter including all accessories for Bhaskar-I field.

Ref: TD No.: SunPetro/Bhaskar/CTM/2025-26/237

Sun Petrochemicals Private Limited (SunPetro), hereby authorized following amendment / clarification in the above referred RFQ/ Inquiry:

Sr. No	Page No.	Description	Clarification/ Query	SunPetro response
1	27/28 of 103	A. Technical Specifications: - 1. Crude Oil Custody Transfer Metering Maximum flowrate - 400m ³ /hr	Please provide the Minimum/Normal flowrate.	Minimum flowrate - 40m ³ /hr Maximum flowrate - 400m ³ /hr
2	27/28 of 103	A. Technical Specifications: - 1. Crude Oil Custody Transfer Metering Operating pressure - 30-40 Kg/cm ² g.	Please provide the design pressure.	Design pressure 75 bar
3	27/28 of 103	A. Technical Specifications: - 1. Crude Oil Custody Transfer Metering	Please share Minimum/Normal/Max & design temperature	Design Temperature- Min - 5 deg C Max - 60 deg. C

4	26/27/28 of 103 & Page 28 of 103 & Page 56 of 103	A. Technical Specifications: - P&ID	P&ID not available for the Metering System. Please share the P&ID for our better clarity & understanding. Also confirm skid shall comprise of Filtration System & Metering System. Please confirm Please clarify the skid configuration i.e. 1 Working + 1 Stand-by or 1 Working with Bypass arrangement	PFD attached as Annexure-1 Basket type strainer with Gas/Air eliminator is in bidder's scope. 1W + 1S
5	5 of 103 & Page 28 of 103 & Page 56 of 103	Delivery & Completion Period : Within 6 months from the award of contract. However, Bidder to quote best delivery / completion period. Sr. No.11 : 11. Contractor shall consider the total project schedule including design, detailed engineering, procurement, supply, erection/construction, installation, testing & commissioning etc. shall be completed in all respect within 8 months from the date of Letter of Award (LOA) as per the sow. 3.2.1 Primary term of this contract will be 8 (Eight) months from the date of LOA/PO for completion of the entire CTM System	Request you to accept the delivery period as 12 months from manufacturing clearance.	The bidder may quote the best delivery time period.
6	47 of 103	7. Payment Schedule: Invoice for equipment & materials supplied / work completed to be submitted as per payment schedule mentioned below. Payment shall be made within 30 days after receiving the invoice along with relevant supporting documents with undisputed certified invoices. 1) 80% payment, after successful FAT and delivery at site. 2) 10% after successful installation. 3) 10% after successful commissioning & take over.	Payment Terms Shall Be : 80% against supply of Material. 10% against installation & Balance 10% commissioning. In the event of delay in installation & Commissioning beyond three months from the date of supply, due to reasons not attributable to the bidder, the respective 20% payment against Installation & commissioning will released on submission of PBG of equivalent amount with 06 months of validity .	Bidder may please mention the same in Exceptions as per Tender format.

7	65 of 13	3.14.1 Liquidated damage : One percent (1%) for each week of late completion of work/ delayed delivery of work up to a maximum of Ten percent (10%) of total estimated annualized contract value.	Bidder requesting client to accept 0.5% to max 5% per week for undelivered portion.	Tender conditions shall prevail.
8	75 of 13	3.27.3 Limitation of Liability The total liability of the contractor shall be limited to 100% of the contractor value if no fault by contractor. In case intentional damages, it would be 200% of the contract value. The Company shall indemnify and hold harmless the Contractor against all claims and liabilities in excess of the above limits, provided that aforesaid cap for limitation of liability shall not apply and the Contractor shall continue to remain responsible for all liabilities which arise on account of: 1) Breach of Applicable Laws by the Contractor Group. 2) Liability for payment or non-payment of taxes and other statutory duties/ fees of any nature. 3) Liability for breach of Intellectual Property Rights of any person. 4) Breach of Confidentiality obligations.	Kindly accept liability of the contractor shall be limited to 100% of the contractor value only.	Tender conditions shall prevail.

9	26/27/28 of 103	A. Technical Specifications: - 2. Sales Gas Custody Transfer Metering: -	Gas Composition is not properly visible in the tender. Request you to share once again the same.	<table><tr><th>S. No.</th><th>Component</th><th>Composition Range (% v/v)</th></tr><tr><td>1</td><td>Methane</td><td>80.05434</td></tr><tr><td>2</td><td>Ethane</td><td>4.92953</td></tr><tr><td>3</td><td>Propane</td><td>8.43385</td></tr><tr><td>4</td><td>i-Butane</td><td>2.08526</td></tr><tr><td>5</td><td>n-Butane</td><td>0.97598</td></tr><tr><td>6</td><td>i-Pentane</td><td>0.09697</td></tr><tr><td>7</td><td>n-Pentane</td><td>0.06611</td></tr><tr><td>8</td><td>Hexane+</td><td>0.00797</td></tr><tr><td>9</td><td>Nitrogen</td><td>0.40757</td></tr><tr><td>10</td><td>Carbon Di-Oxide</td><td>2.93562</td></tr><tr><td>11</td><td>Water</td><td>0.0</td></tr><tr><td colspan="2">Total</td><td>100</td></tr></table>	S. No.	Component	Composition Range (% v/v)	1	Methane	80.05434	2	Ethane	4.92953	3	Propane	8.43385	4	i-Butane	2.08526	5	n-Butane	0.97598	6	i-Pentane	0.09697	7	n-Pentane	0.06611	8	Hexane+	0.00797	9	Nitrogen	0.40757	10	Carbon Di-Oxide	2.93562	11	Water	0.0	Total		100
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10	26/27/28 of 103	A. Technical Specifications: - 2. Sales Gas Custody Transfer Metering: - 2. Sales Gas Custody Transfer Metering: - a. Sales Gas Properties • Maximum flowrate: 2,00,000 SCMD. • Operating pressure : 95 barg • Operating temperature: 55 degC • Gas Composition (with +/- 10% variation):	Request you to provide the Min Max Condition for Flow, Pressure & temp. As in RFQ only one condition is mentioned.	Minimum flow rate for design - 10,000 SCMD Maximum flow rate for design - 2,00,000 SCMD Maximum Operating Pressure is 95 barg; Minimum Pressure - 60 barg; Piping Class shall be 600. Bidder may accordingly finalise design pressure. Design temperature - 70 deg C																																							

11	26/27/28 of 103	A. Technical Specifications: - 2. Sales Gas Custody Transfer Metering: - b. Metering System Requirements : Accuracy: $\pm 0.25\%$ or better.	Bidder understand that the accuracy mention is for Volumetric Flow as measurement required is in volumetric flow. Please confirm	Bidder understanding is correct.
12	26/27/28 of 103	b. Metering System Requirements Gas chromatograph for composition and calorific value measurement.	Bidder understand Gas Chromatograph also needs to be supplied along with skid. Please confirm	Bidder understanding is correct.
13	Page 28 of 103	2. Contractor shall install the CTM skid at the designated location in the CPF or any other designated site approved by company.	Bidder understand that skid installation shall be done by Sun-Petro. E+H shall provide assistance during the skid installation. Please Confirm	Civil work, site installation, and hook-up with the existing system are in Scope of Vendor and shall quote as a Lump Sum Scope for these subject works as an option.
14	Page 28 of 103	5. Contractor shall consider all the civil and structural jobs for successful installation and commissioning of CTM skid and all the piping job for hooking up with existing system in their scope.	Bidder understand civil job shall not be in scope of E+H. Same shall be in scope of Sun-Petro.	Civil work, site installation, and hook-up with the existing system are in Scope of Vendor and shall quote as a Lump Sum Scope for these subject works as an option.
15	-	Datasheet & pecification	For our better clarity & understanding please share the Mass flow meter, Ultrasonic, orifice, valve, strainer, filter & all instrument datasheet.	Bidder may propose their Standard and proven specifications/ offerings
16	-	Datasheet & pecification	Please share the densitometer datasheet and BS&W measuring instrument details.	Deleted. Addendum follows.
17	-	Ball/ small Volume Prover Repeatability- 0.02% or better.	Bidder understand that Ball/ small Volume Prover is not in scope of vendor.	Ball prover is not required.
18	-	General	Please share the legend sheet for our better clarity & understanding.	
19	-	Calibration	Bidder understand Wet calibration to be performed with Natural Gas for both the technology i.e. Either USM. Please confirm	Bidder understanding is correct.

20	-	General	Please share the Piping material specification.	PMS shall be given post award.
21	-	General	Please confirm the Panel is required or not ?? Please confirm. Gas & liquid skid Panel shall be separate or shall be in single Panel, please confirm.	Separate panel is required for crude oil and gas meters.
22	-	General	Is there any space constraint at site for skid installation. Please share the site plant/pipe layout for skid location/dimension.	Plot paln, layout shall be given Post award
23	-	Bid Extension	As Bidder are awaiting some buyout offers that are critical to our proposal, Bidder request an extension of the tender due date upto 28-Nov-2025.	Tender closing date will be 24th November 2025

All other terms and conditions of the TD remain unchanged.

Regards,

Sun Petrochemicals Pvt. Ltd.