

Sun Petrochemicals Private Limited

(SunPetro)

Commercial & Supply Chain Management

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No. SunPetro/Bhaskar/Capacity Augmentation/2023-24/SPPL-153/Bulletin-4

Date:30.10.2023

BULLETIN #4

Sub: Construction for Capacity Augmentation work of CPF, Bhaskar Field.

Ref: Tender No.: SunPetro/Bhaskar/Capacity Augmentation/2023-24/SPPL-153

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

❖ General & Mechanical

Sr. No	Section	Clause No	Clause Description	Bidder Query	SunPetro Response
1	SECTION – 1: PROJECT INFORMATION	2.2 SCOPE	The brief scope of CPF augmentation project for increase in production capacity from 7000 BOPD to 12000 BOPD will involve, installation of new well fluid-crude oil interchanger (E-101/102), 2 nos Feed booster pumps (P-101 C/D), 2 nos Export oil pumps (P-102 C/D), relocation of tank bottom circulation pumps (P-104A/B) and relocation of drain pumps (P- 117 A/B).	We request you to please provide the details of the dimensions, weight, GA for the ew well fluid-crude oil interchanger (E-101/102), 2 nos Feed booster pumps (P-101 C/D), 2 nos Export oil pumps (P-102 C/D), relocation of tank bottom circulation pumps (P-104A/B) and relocation of drain pumps (P- 117 A/B).	Please refer Mechanical Equipment List (BHII-CPF-MEC-REP-2002) provided in RFQ for estimation purpose. GAs and other vendor details will be provided post award.
2	SECTION – 1: PROJECT INFORMATION	3.0 PROJECT MANAGEMENT & PROGRESS REPORTING	Electric Power – This will be made available at the Owner's substation and contractor has to extend it in a safe and disciplined way to their work area distribution board. Contractor has to indicate the power	We request you to please provide clarity on the electric power arrangement for the construction work at site. Whether SUN PETROCHEMICALS PRIVATE LIMITED can provide us a power point from where further we can take it to the desired	We reiterate that, electric power will be made available at the Owner's substation and contractor has to extend it in a safe and disciplined way to

			requirement while submitting the bid. The sub distribution of the Electrical supply shall be installed in a covered area to protect against rain /bad weather & will consists of suitably rated Incomer MCCB with tested / certified Energy Meter, indicating lamps etc., suitable rated RCBO's , indicating lamp & interlocked plug-sockets. The electric supply would be charged based on the usage. The 'per unit charge' should be conformed to SunPetro.	location on site. Or it is required to arrange DG for the Power supply. Request you to please provide clarity on the same.	their work area distribution board. Contractor has to indicate the power requirement while submitting the bid.
3	SECTION – 1: PROJECT INFORMATION	3.0 PROJECT MANAGEMENT & PROGRESS REPORTING	Each contractor has to have minimum following facilities. These facilities are to be created by the contractor at the beginning of site and demolish/remove the same prior to demobilization and the contractor has to clean & level the work area before handing over to SunPetro. • Site office cum stores / Material storage area & time office • Fabricating area / work shop • Electrical panel area • Temporary civic amenities	For establishing the described minimum facilities whether the required land will be made available by SUN PETROCHEMICALS PRIVATE LIMITED to Contractor. Please confirm.	Noted. Bidder shall mention exact requirement in the bid.
4	SECTION – 1: PROJECT INFORMATION	3. SCOPE OF WORK FOR MECHANICAL WORKS 3.1. GENERAL	Heat exchanger upon decommissioning shall be relocated to warehouse and shall be cleared of hydrocarbon. The heat exchanger shall be purged with nitrogen for long term storage.	As it is required the purging of the heat exchanger with N2 as per the description but there is no any line item in the SOR for the Purging. Request you to please clarity on the same.	Noted, Nitrogen cylinder shall be considered for the work.
5	SECTION – 1: PROJECT INFORMATION	3. SCOPE OF WORK FOR MECHANICAL WORKS 3.1. GENERAL	3.1.9. Installation of new crude oil feed booster pumps (P-101 C/D) in the proposed location, shown in the piping drawing. 3.1.10. Installation of new Crude oil	As mentioned under clause, we request you to provide the Piping Layout.	Based on site visit, bidder shall estimate and submit the proposal. All other details will be

			export main pump (P-102 C/D) in the proposed location, shown in the piping layout drawing.		provided post award.
6	SECTION – 1: PROJECT INFORMATION	3. SCOPE OF WORK FOR MECHANICAL WORKS 3.1. GENERAL	3.1.8. Dismantling and relocation of Tank bottom recycle pumps (P-104 A/B) from the current location near the existing pump house to the new proposed location. 3.1.9. Installation of new crude oil feed booster pumps (P-101 C/D) in the proposed location, shown in the piping drawing. 3.1.10. Installation of new Crude oil export main pump (P-102 C/D) in the proposed location, shown in the piping layout drawing.	As mentioned under clause, it is required to dismantle & re-install the different Pumps which will require the Shaft alignment for the same. Please provide clarity on the scope of Shaft alignment. Also if the shaft alignment is in contractor scope whether the availability of OEM Engineer will be there or not. Please provide clarity on the same.	OEM presence will be only available for new pumps (i.e. P-101C/D & P-102C/D). However, as bidder have pre-eminent experience for such activities should not envisage presence of OEM.
7	SECTION – 1: PROJECT INFORMATION	3.3.12. CLEANING, LUBRICATING AND HYDRAULICS	3.3.13. All equipment shall be lubricated in accordance with the manufacturer's instructions.	Please provide the clarity on the scope of supply of Lubrication for the Packages.	Please refer Mechanical Equipment List (BHII-CPF-MEC-REP-2002) provided in RFQ and piping SOR for estimation purpose about lubrication work based on bidder's previous experience.

❖ Piping

Sr. No	Section	Clause No	Clause Description	Bidder Query	SunPetro Response
1	SECTION – 1: PROJECT INFORMATION	4. SCOPE OF WORKS FOR PIPING WORKS Scope of work includes the following but not limited to	<p>➤ Depending upon the severity of application, the extent of NDE shall be decided. As a rule, all hydrogen, oxygen, NACE, and any other lethal service shall have 100% radiography on Butt weld joints in all class ratings.</p> <p>➤ In 100% radiography class any fillet</p>	We are assuming that the required radiography for the Piping will be 100%	Yes Bidder understanding is correct. Maximum piping (process services) work belongs to pipe class B7A and D7A, for which based on provided PMS, radiography will be required 100%.

		the same;	welds employed shall have 100% DP/MP test in CS/AS classes and 100% DP test in SS classes. Cat. 'D' service as per ASME B31.3 does not require radiography.		
2	SECTION – 1: PROJECT INFORMATION	DOCUMENT NO: BHII-CPF-PIP-SOR-3047 SCHEDULE OF RATES (SOR) FOR PIPING NOTES	9 Fabrication and testing cost should include welding, NDT, hydrotesting, Painting & preservation.	We request you to please provide the Painting scheme/specification for the Painting of Piping.	Please refer "SPECIFICATION FOR SURFACE COATING" provided in BHII-CPF-MEC-RFQ-003 (Addendum).
3	SCHEDULE OF RATES - PIPING			We request you to please provide valve material specification (VMS)	All detailed information required for estimation about all type of valves provided in SOR_piping. All other details will be provided post award.

❖ **Electrical**

Sr. No	Section	Clause No	Clause Description	Bidder Query	SunPetro Response
1	SECTION – 1: PROJECT INFORMATION	A. SPECIFICATION FOR ELECTRICAL EQUIPMENT INSTALLATION 3.2 SWITCHBOARDS & BUS DUCTS	After erection of switchboard panels, all uncovered portions of floor cut-outs shall be covered with 6 mm thick removable chequered plates finished with floor level. The design of the chequered plates shall be such that the maximum allowable deflection is L/200 (where L is the span of the chequered plates in meters) for a live load of 500 kg. /sq. meters.	As per mentioned clause it is required to place the chequered plate I uncovered portion , but same is not mentioned under SOR. Request you to please provide clarity.	Bidder shall considered this requirement in " Supply and Installation with Testing of MCC Panel Switch Board" of SOR_Electrical.
2	SECTION – 1: PROJECT	SCOPE FOR INSTRUMENTATION	4.10 All instruments and Junction Boxes shall be certified suitable for hazardous area	We request you to please provide the area classification for the	Majority instruments should be suitable for Zone-1 &

	INFORMATION	AND CONTROLS 4. SCOPE OF WORK	use.	Instruments	weather proof to IP67. Please refer "Instrument Datasheet" for this detail as provided in BHII-CPF-MEC-RFQ-003 (Addendum).
3	SCHEDULE OF RATES - ELECTRICAL		Supply and Installation with Testing of MCC Panel Switch Board (Indoor & Floor Mounted) with Front Opening Only and Bus Bar on Top (Floor Mounted and Cable Entry from Bottom)	We request you to please provide Single Line Diagram (SLD) for MCC Panel.	All detailed information required for estimation about all type of valves provided in SOR_Electrical. All other details will be provided post award.
4	SCHEDULE OF RATES - ELECTRICAL		GI Perforated Cable Trays- Vendors : Sumip/Satyam/Aeron	The mentioned vendors only provides the FRP cable trays , wehave received regret mail from them.So request you to please provide us the GI cable trays approved vendor details.	1. Rushabh Steel Industries 2. Super Cable Tray Pvt. Ltd. Bidder shall also suggest experienced vendor during Bid for the same.
5	SCHEDULE OF RATES - ELECTRICAL		A.1 Supply and Installation of ACB in Existing PCC Panel	As the ACB has to be fixed in existing MCC panel request you to provide existing MCC panel details along with contact details of OEM.	All detailed information required for estimation about all type of valves provided in SOR_Electrical. All other details will be provided post award.
6	SCHEDULE OF RATES - ELECTRICAL		A.2 Supply and Installation with Testing of MCC Panel Switch Board (Indoor & Floor Mounted) with Front Opening Only and Bus Bar on Top (Floor Mounted and Cable Entry from Bottom) MCC-1 Panel Details: 1) Copper Bus Bar Rating - 415V, 50 Hz, 1600A, 3 Ph ACB Rating -CU, 415V, 50 Hz, 1250 Amps,	As per description there are 02 ampere rating for Bus bar like 1600A & 1250 Amp. Request you to guide us which rating has to be considered.	Please consider Busbar Rating 1600 Amps.

			3 Ph. + Neutral		
7	SCHEDULE OF RATES - ELECTRICAL		A.2 Supply and Installation with Testing of MCC Panel Switch Board (Indoor & Floor Mounted) with Front Opening Only and Bus Bar on Top (Floor Mounted and Cable Entry from Bottom)	We request you to please provide the Design basis for MCC Panel.	All detailed information required for estimation about all type of valves provided in SOR & SOW_Electrical. All other details will be provided post award.
8	SCHEDULE OF RATES - ELECTRICAL		A.2 Supply and Installation with Testing of MCC Panel Switch Board (Indoor & Floor Mounted) with Front Opening Only and Bus Bar on Top (Floor Mounted and Cable Entry from Bottom)	Request you to please provide the required incoming I/O's in MCC panel.	Bidder shall refer SOR for estimation purpose. All other details will be provided post award.
9	SCHEDULE OF RATES - ELECTRICAL		A.4 Heat tracing panel	Request you to please provide P&ID also Isometrics for the Heat traces lines.	All detailed information required for estimation about all type of valves provided in SOR_Electrical. All other details will be provided post award.
10	SCHEDULE OF RATES - ELECTRICAL		B.1 LIGHTING FIXTURES - (Integral / Non-Integral type) along with diffusers, reflectors & all other mounting accessories	Request you to please provide data sheet / details for Lighting Fixtures.	Bidder shall consider Industrial Lighting Fixtures - Flameproof type as "60W LED Well glass Lighting Fixture" mentioned in SOR_Electrical.

❖ Instrumentation

Sr. No	Section	Clause No	Clause Description	Bidder Query	SunPetro Response
1	SECTION - 1: PROJECT INFORMATION	SCOPE FOR INSTRUMENTATION AND CONTROLS 4. SCOPE OF WORK	4.2 Existing control system including DCS, ESD and FGS shall be verified for adequacy. It shall be the responsibility of CONTRACTOR to engage existing control system vendor (For Ex.DCS : Emerson/Equivalent/SubVendor) for system integration and testing. Testing is not limited to support for loop checking activity, functional checking, cause and effect checking, etc.	We request to SUN PETROCHEMICALS PRIVATE LIMITED to communicate with OEM of the existing DCS, the required manpower support will be provided by contractor for the same.	Bidder to contact M/S Emerson/AUM engg services Ahmedabad for Existing DCS modification job.
2	SCHEDULE OF RATES - INSTRUMENTATION		Supply of Die-cast Al Junction boxes IP-65 & flameproof to Ex'd' / Exe	We request you to provide data sheet for the Junction Boxes.	Bidder to consider "Supply of Die-cast Al Junction boxes IP-65 & flameproof to Ex'd' / Exe, with 40 Terminals -Approx size: 350mm (W) x 350mm (H) x150mm (D)".
3	SCHEDULE OF RATES - INSTRUMENTATION		1.5 Supply, testing, transport and installation of Instruments - Safety Valves	We request you to provide data sheet for the Safety Valve.	Please refer "Instrument Datasheet" for this detail as provided in BHII-CPF-MEC-RFQ-003 (Addendum).
4	SCHEDULE OF RATES - INSTRUMENTATION		1.6 Supply, testing, transport and installation of Instruments - Control valve (Free Issue)	We request you to please provide data sheet/details of Control Valves.	Bidder not to consider work related to control valves.
5	SCHEDULE OF RATES - INSTRUMENTATION		1.4 Supply, testing, transport and installation of Instruments - MOV operated valve (Free Issue)	We request you to please provide data sheet/details of MOV operated valve (Free Issue)	MOV-P101A/B, Size - 8" x 300#, Qty. 02 and MOV-P102A/B, Size-6"x 600# Qty. 02 (Both will be provided with Trim set including cage, Gland packing, (Valve Seal Kit)). The other details will be provided post award.

6	SCHEDULE OF RATES - INSTRUMENTATION		1.1 D.P type transmitter	We request you to please provide data sheet/details of D.P type transmitter	Please refer "Instrument Datasheet" for this detail as provided in BHII-CPF-MEC-RFQ-003 (Addendum).
7	SCHEDULE OF RATES - INSTRUMENTATION		1.3 Flame Detector	We request you to please provide data sheet/details of Flame Detector	Flame Detector: UV+IR, Qty, 02, Vertical, Sensor Field Mounting, IP 65 Min., SIL-2. The other details will be provided post award.
8	SCHEDULE OF RATES - INSTRUMENTATION		1.7 FT	We request you to please provide data sheet/details of FT	Please refer "Instrument Datasheet" for this detail as provided in BHII-CPF-MEC-RFQ-003 (Addendum).
9	SCHEDULE OF RATES - INSTRUMENTATION		1.8 Orifice	We request you to please provide data sheet/details of Orifice	Please refer "Instrument Datasheet" for this detail as provided in BHII-CPF-MEC-RFQ-003 (Addendum).

Other pending replies will be answered shortly.

All other terms and conditions of the tender remain unchanged.

Regards

Sun Petrochemicals Pvt. Ltd