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No. SunPetro/Bhaskar/ETP/2026-27/SPPL-299/Bulletin-2

Date:17.07.2026

BULLETIN #2

Sub: Effluent Treatment Plant to convert produced water to service water for internal use / surface disposal in Bhaskar field, Gujarat.

Ref: Tender No.: SunPetro/Bhaskar/ETP/2026-27/SPPL-299

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

Sr. No	Tender Document	Clause / Page No.	Description as per Tender	Bidder Query	SunPetro Response
1	Section- III Scope of Work (SOW)	6. Feed Produced Water Quality Parameters - Sr. No. 19 (Pg. 27 of 108)	Oil & Grease (Free + Emulsified): 150–500 mg/L	Kindly provide the separate inlet concentrations of Free Oil and Emulsified Oil	Please consider all oil as emulsified oil. However, the bidder can collect the sample for verification
2	Section- III Scope of Work (SOW)	6. Feed Produced Water Quality Parameters (Pg. 28 of 108)	Outlet Parameters: Bacterial Counts (GAB): $(1-10) \times 10^4$ Counts/ml, Bacterial Counts (SRB): Nil	The tender specifies the guaranteed outlet bacterial counts for GAB and SRB; however, the corresponding inlet water quality parameters are not provided. Please provide the same.	Bidders may collect the sample to carry out the analysis and use the experience for design.
3	Section- III Scope of Work (SOW)	6. Feed Produced Water Quality Parameters (Pg. 28 of 108)	Outlet Parameters: Bacterial Counts (GAB): $(1-10) \times 10^4$ Counts/ml, Bacterial Counts (SRB): Nil	Please elaborate / confirm any specific reason behind presence of bacteria's in the effluent.	Bidders may collect the sample to carry out the analysis and use the experience for design.
4	Section- III Scope of Work (SOW)	9. Contractor's Scope Of Work (Pg. 29 of 108)	1000 KLPD (Two trains of 500 KLPD each) Produced Effluent Treatment Plant for surface disposal/ service water application, as per the specified treatment philosophy and outlet water requirements.	Treated effluent with TDS levels as approx. 10000 ppm, COD – 100 ppm, BOD – 30 ppm, Bacterial Counts (GAB) - $(1-10) \times 10^4$ Counts/ml is not recommended for service water. Please clarify requirement of service water application.	Bidder to consider outlet water with TDS less than 300 mg/L.

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5	Section- III Scope of Work (SOW)	9. Contractor's Scope Of Work (Pg. 29 of 108)	1000 KLPD (Two trains of 500 KLPD each) Produced Effluent Treatment Plant for surface disposal/ service water application, as per the specified treatment philosophy and outlet water requirements.	Treated effluent with TDS levels as approx. 10000 ppm, COD – 100 ppm, BOD – 30 ppm, Bacterial Counts (GAB) - $(1-10) \times 10^4$ Counts/ml is not recommended for disposal on greenbelt/ surface disposal.	Bidder to consider outlet water with TDS less than 300 mg/L.
6	Section- III Scope of Work (SOW)	6. Feed Produced Water Quality Parameters (Pg. 28 of 108)	Values for TDS is not mentioned in the treated water requirement	Kindly specify the required outlet TDS for the treated water. The outlet TDS requirement is essential for selection of the appropriate treatment technology and for accurate process design and cost estimation.	Bidder to consider outlet water with TDS less than 300 mg/L.
7	Section- III Scope of Work (SOW)	Pg. 24 of 108	Scope of Work for Design, Engineering, Manufacturing, Supply, Installation & Commissioning of 1000 KLPD Produced Effluent Treatment Plant (ETP) with provision for future expansion for producing service water on LSTK Basis. The Operation & Maintenance would be optional (to be decided post commissioning on mutual agreement).	Kindly clarify what future expansion provisions are expected by SunPetro to be considered while designing & executing the present scope. Also, please confirm the ultimate future expansion requirements to be considered.	Inlet and outlet manifold to be designed to cater to 2,500 KLPD
8				There is no generation of reject water in the proposed treatment scheme. Reject is generated of in case of establishment of RO. Do we have requirement of RO?	Bidder to design the plant considering the usage requirement and outlet treated water quality as specified in the tender document

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					and associated bulletins.
9				There is mention piping stress calculation but there is no mention of software's like SP3 D for 3D modelling. Stress analysis is carried out extracting details form a software's like SP3D. Please confirm whether a 3D model is required for this project. If a 3D model is required, kindly confirm the preferred software to be used.	3D model to be developed. Navisworks is preferred.
10	Section- III Scope of Work (SOW)	Cl. 4 & 5, (Pg. 25 of 108)	The contractor shall use the proven technology to achieve the desired output parameters	Is any specific treatment scheme preferred by SunPetro Please confirm	Bidder to decide based on the specified technical requirement and lifecycle costing
11	Section- III Scope of Work (SOW)	9. Contractor's Scope of Work (Pg. 29 of 108)	The contractor to provide Skid mounted Mobile Produced water treatment plant	Looking at the high capacity of 2 x 500 m3/day, skid mounted plant/ package plant shall not be practically feasible. We suggest the plant should be in combination of skid mounting units and civil construction in the case of biological treatment units/ wherever applicable.	Bidder to decide based on the specified technical requirement and lifecycle costing
12	Section- III Scope of Work (SOW)	6. Feed Produced Water Quality Parameters - Sr. No. 19 (Pg. 27 of 108)		Kindly confirm the inlet temperature of feed produced water at the outlet of / in the effluent collection pond.	The temperature to be considered ambient temperature with maximum of 50°C

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13				There is no mention of MCC & PLC Room / Shed for Blower. Please confirm	Suitable infrastructure as per good engineering practices to be considered. Bidder to carry out site visit to understand SunPetro's philosophy of shed/room/structure etc.
14	Section- III Scope of Work (SOW)	9. Contractor's Scope of Work (Pg. 30 of 108)	Adequate storage facility and pumping/transfer facility, additionally if required, is to be provided by the contractor for transfer of feed water, treated outlet water, Reject water of the envisaged water treatment plant. All type of storages and their transfer/pumping systems (1 working + 1 standby) is in the contractor's scope.	Kindly provide the location/ distance/ total operating head, discharge pressure details between the feed water source to proposed ETP, proposed WTP to service water tank and reject water tank.	No WTP is proposed. All tank are within 200 m distance.
15	Section- III Scope of Work (SOW)	Battery Limit & Exclusions (Pg. 26 of 108)	Firefighting system inside the scope of work of the Bidder	We understood that scope against firefighting is only limited to as specified in the tender and no fire hydrant system along with its piping not within the bidder's scope.	Bidder's understanding is correct.
16				Please confirm nos. of road crossing for applicable piping, cabling.	Bidder to carry out site visit for better understanding and check at site.
17				Kindly confirm piping & cabling are above ground or underground. Also please provide the detailed specification for exclusion including supports and road crossing.	Bidder to carry out site visit for better understanding and check at site.

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18				Kindly confirm the utilities like service water, instrument air & drinking water pipelines shall be available with required pressure at the battery limit.	Drinking water requirement is not envisaged For Instrument air, servo gas will be provided at the battery limit. Service water will be taken from the treated water of ETP.
19			Construction Water	Construction Water Supply free of cost at single point within battery limit. Please confirm	No, construction water supply is in bidders scope
20			Construction Power	Construction Power Supply free of cost at single point within battery limit. Please confirm	Construction power is available at a designated place. However, bidder to make provision to take power from these points up to battery limit.
21			Instrumentation works	Whether redundancy is required in instrumentation & PLC. Please confirm	Dual redundancy is required
22			Instrumentation works	Whether SIL 2 requirement is in Instrumentation works. Please confirm	As per applicable standards
23			Piping & Valves	Please share guideline documents for Pipe & Valve Specifications with respect to the services.	PMS and VMS to be submitted by bidder post award for review and approval.
24	SECTION-IV Responsibility Matrix	Sr. no. 7 – QA / QC (Pg. 36 of 108)	Note 1. All bought out items shall be from reputed vendors with proven track record and approval to be sought from SunPetro prior to order placement.	Kindly provide the approved vendor list for mechanical, electrical and instrumentation equipment.	Approved vendor list to be shared with successful bidder.
25	SECTION-IV Responsibility Matrix	Sr. no. 7 – QA / QC (Pg. 36 of 108)	a) TPI Agency c) FAT / SAT	We understand that the appointment of the TPI agency and the associated inspection/FAT/SAT	Bidder understanding is correct

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				charges shall be borne by Sun Petrochemicals Kindly confirm.	
26			A single power takeoff point of adequate capacity shall be provided by SunPetro Main power supply cable to the contractor's MCC shall be provided by Contractor.	Kindly confirm the distance of the main power supply to ETP along with its routing.	Approx 250m, Bidder to carry out site visit for better understanding
27				As per the DGMS guidelines, minimum distance 45 m is to maintain, kindly confirm the applicability.	Bidders understanding is correct
28				Please confirm NGL, FGL, HFL for the proposed ETP, Effluent Collection pond & treated water collection pond.	Bidder to carry out site visit for better understanding
29				Please confirm pond details including its elevation, location, etc	Bidder to carry out site visit for better understanding
30				Kindly provide the available plot dimensions/ area earmarked for the proposed ETP.	Tentative plot layout attached.
31				Kindly provide the Soil test/ investigation report for the proposed site.	Refer attachment
32		Page 26	5. Battery Limit & Exclusions	Bidder request Company to modify the clause as below: "Defining B/L (battery limits) and Tie-in-Point"	Tentative layout attached
33		Page 26	6. Feed Produced Water Quality Parameters	1. For a robust system design Bidder request Company to provide the seasonality of all parameters listed in the table.	Bidders understanding is correct. This is produced water. Bidders may collect the sample to carry out the analysis and

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				2. Feed Produced Water Quality Parameters such as COD, BOD, Total Hardness, Magnesium (Mg), Phenolics, and Total Alkalinity, are specified as single values. The Bidder requests the Company to clarify whether the values provided represent the maximum or minimum limits. Additionally, as per bidder experience, If the Oil & Grease is 500 ppm, COD value should be > 2060 ppm. 3. Under the “Feed Produced Water Quality Parameters”, Company mentioned only 29 parameters, however Bidder design ETP’s based on 52 parameters of water. In case we need data on the additional 23 points, how should we proceed?	use the experience for design.
34		Page 28	8. Testing, Monitoring and Analysis of treated outlet water	Provision for storage of chemicals are to be planned at plant site to ensure uninterrupted operation during the life cycle of the project. Bidder request Company to please clarify is this storage area inside the B/L limits?	Bidders understanding is correct
35		Page 30	9. Contractor's Scope of Work	Adequate storage facility and pumping/transfer facility, additionally if required, is to be provided by the contractor for transfer of feed water, treated outlet	Bidders understanding is correct

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				water, Reject water of the envisaged water treatment plant. All type of storages and their transfer/pumping systems (1 working + 1 standby) is in the contractor's scope. Bidder request Company to please clarify whether storage facility for produced water, treated water and reject water is in 'SunPetro' scope. For clarity, is this a general statement or related to additional storage facilities only	
36		Page 30	9. Contractor's Scope of Work	The proposed facilities are to be operated 24 * 7 by SunPetro. In case of emergency, the plant is to be attended immediately by the contractor. As per Bidder experience, any ETP requires CIP (Cleaning in progress) which is generally a 3-4 hours job every day. Hence an ETP cannot function beyond 20 hours	Design requirement is 24hr per day
37		Page 31	9. Contractor's Scope of Work	Handling and safe disposal of reject chemicals/chemical solutions, if any, shall be in scope of contractor. It should be done after approval of SunPetro till plant handing over to SunPetro. Bidder request Company to please clarify what are these reject Chemicals and what can be their source.	Bidder's technology
38				The Bidder seeks clarification on the	Refer BEC for clarity

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				acceptable participation structure(s) under the tender through which SGDL may avail technical support and technical experience while remaining compliant with the tender requirements.	
39				Supply of Reject water injection Pumps: Please confirm the Pump Discharge Pressure for the Pump procurement.	25m ³ /hour at 100 bar discharge pressure (1W+1S)
40				PLC and control cables up to DCS and integration: Please confirm the distance between ETP area to existing DCS distance.	Distance from ETP control room to DCS control room to be considered approx. 250m
41				Recovered oil to be transferred back to CPF. Bidder's scope will be up to B/L. : Please confirm the distance for the selection of Oil transfer Pump Discharge Head.	Gear Pump of 8 Bar with flow rate of 2m ³ /hour. Line to be heat traced up to B/L.(1W+1S)
42				Please confirm the value of TDS and Total Hardness in mg/l.	The TDS to be maintained less than 300 mg/L
43				Please provide us payment terms for the: Design, Supply, Installation, Erection and Commissioning of a 1000 KLPD Produced Water Effluent Treatment Plant (ETP) (500 KLPD × 2 Units) for Service water / Surface Disposal at the location for greenbelt.	All exceptions/deviations can be submitted in the Annexure-4 form of the Tender.
44				Soil Bearing Capacity Report	Refer attachment
45				Site Layout to review space constrain	Tentative layout attached
46				Inlet and outlet location from proposed ETP	Bidder's battery limit is at the edge of the plot layout(as attached)

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47				Site visit to review space constrains, GA arrangement and accommodation of ETP Component, can you please furnish repetitive contact details for site visit?	Tentative layout attached. Bidder may visit the site

All other terms and conditions of the Tender remain unchanged.

Regards,

Sun Petrochemicals Pvt. Ltd