

Sun Petrochemicals Private Limited

(SunPetro)

Commercial & Supply Chain Management

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CIN: U24219GJ1995PTC028519

No. SunPetro/Bhaskar/Setting up Lab/2023-24/SPPL-145/Bulletin-1

Date: 20.07.2023

BULLETIN #1

Sub: Procurement of Lab Equipment and Accessories for setting up Reservoir Lab at CPF, Bhaskar Field in Gujarat.

Ref: RFQ/Tender No.: SunPetro/Bhaskar/Setting up Lab/2023-24/SPPL-145

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

Sr. No.	Bidder Query	Clarification from SunPetro
1	For each Equipment mentioned in Annexure-1 Scope of Supply Make for each Equipment is fixed or we can use according to our knowledge. If make for each Equipment is fixed than please provide make list for the same.	Please find attached list of preferred makes in Annexure-A Bidders can also quote other equivalent / better makes of Equipment's as per his understanding.

All other terms and conditions of the RFQ remain unchanged.

Regards,

Sun Petrochemicals Pvt. Ltd

Annexure-A
(Enclosed)

Required Equipments and their make for various lab studies/parameter

Sr. No.	Study	Required equipments and their make	Remarks
1	pH	pH meter Make: HANNA or HACH	
2	<ul style="list-style-type: none"> • Ionic Composition • Water Salinity • TDS 	Model: 930 Compact IC Flex Make: Metrohm	
3	Turbidity	Model: Micro 100IR Turbidimeter Make: HF Scientific Inc.	
4	a) Filtration studies & Filter design b) Filterability & TSS	Millipore filtration Assembly consisting of (Vacuum Pressure Pump, Filtration Flask, Aluminium Clamp, Glass Cup) Make: Millipore/MERCK Filter Paper (Coarse, 8, 5, 3, 1.2, 0.45 micron): Millipore	
5	Chlorine Demand	Colorimeter Model: DR900 Make: HACH	NaOCl (Sodium Hypochlorite) chemical required. Reagent from HACH is also required
6	Coagulation & Flocculation Study	Flocculator (Jar Test Apparatus) LTC 06 Make: Today Scientific	Coagulant and Flocculants are required.
7	Compatibility & Scaling Studies	Oven: Today Scientific(Local Vendor) Glass Ampules: Today Scientific(Local Vendor)	
8	Clay swelling studies under static condition	Bench scale studies are performed with different dose of clay swelling inhibitors in measuring cylinder.	
9	Corrosion Study	Corrosion coupons Make: D-CAM Engineering	
10	BOD	Not measured	
11	COD	Model: COD Digester/Thermoreactor AL125 Make: Aqualytic	Above mentioned Colorimeter can also be used.
12	API gravity of Oil	Density meter Model: Anton Paar DMA 4500M	
13	Oil Viscosity	Model: Fluid Eval Make: Vinci Model: Modular Compact Rheometer MCR102 Make: Anton Paar	Measure live oil viscosity Measure dead oil viscosity
14	Water cut measurement	Dean Stark Apparatus	
15	Pour point determination	AutoPour 300	
16	Total Acid Number	Autotitrator Model: 916 Ti-Touch Make: Metrohm	
17	Sulphur content	CHNS Analyser	Measure elemental

		Model: VARIO MACRO CUBE Make: ELEMENTAR	sulphur
18	Gas composition analysis	NG Analyzer Model: Clarus 500 GC Make: Perkin Elmer Arnel	
19	Gross and net calorific value	Note measured	
Note: <ol style="list-style-type: none"> 1. Laboratory glass wares, pippets, burettes, conical flask, beaker, measuring cylinder, measuring flask etc, 2. Electronic weighing balance, Vernier caliper are additionally required . 			