

SECTION 3

TECHNICAL REQUIREMENTS AND SPECIFICATIONS

FORPURCHASE OF

CHEMICAL MATERIALS FOR NEW WATER TREATMENT PLANT AND NEW GAS TREATMENT PLANT

TENDER No.: CMIT-PRT-10.30-150282

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Dubai, U.A.E.

Requirement of Technical Standard:

- 1. Supplier shall state and guarantee that the chemical specification should be unchanged and must be developed to give good results and to meet the requirements;
- 2. Chemical for fresh water treatment requirement:
 - 2.1 The Raw water Quality as follow:

pH Determination	8.23	
Sp. Gr. at 15. 6°C	1.0005	
Components	Concentration/ (mg/l)	
Carbonate	6	
Bicarbonate	159	
Chloride	568	
Sulfate	260	
Calcium	104	
Magnesium	87	
Sodium+potassium	268	
TDS at 180°C	1700	
TSS	200MAX	

2.2 The chemical for fresh water treatment which supplied by Supplier shall capable to treat the freshwater of Missan oilfield and meet the quality requirement as follow:

Fresh water quality:	The Maximum	
Characteristic	allowable limit	
Color	10 units	
Turbidity (NTU)	5 units	
Taste	Accepted	
Smell	Accepted	
pH value	6.5-8.5	

3. The chemical for gas treatment to be provided by supplier shall capable to treat the gas of Missan oilfield, and meet the requirement as follow:

H2S (V%) ≤7.5PPM

CO2 (V%) ≤2.5%

4. The chemical for R.O(demineralization) water which supplied by supplier shall capable to treat the water of Missan oilfield, and meet the requirement as follow:

рН	>7
Hardness (CaCO3) mmol/l	≈0
Total dissolved solids mg/l	≤50
Na+ mg/l	≤15
SO42- mg/l	≤10
Cr- mg/l	≤15
Suspended solids mg/l	≤0
SiO2 mg/l	≤0.2
Conductivity µs/cm	<50

- 5. Material Safety Data Sheets (MSDS) and Product technical Data Sheets (PDS) shall be provided by Supplier;
- 6. The chemical material shall be used and work effective to treat the freshwater/oily water/gas in the Missan Oil Fields.
- 7. The chemical material shall be effective and workable for a period of 24months from the date of delivery;

Requirement of Material Pack:

- 1. The liquid chemical shall be packed in 200 liter standard steel drums/25kg standard bucket with batches, each batch include four drums and a wooden tray at bottom, easy to unload by forklift.
- 2. The drums will not return back to supplier.
- 3. The solid chemical shall be packed in 25kg/bag, and the package will strong enough to protect chemical during transporting and storage.
- 4. Considering the storage situation at BUT, the solid chemical shall be transport, storage in the containers; The containers will not return back to supplier, will be used for solid chemical storage on site.

Requirement of Material Delivery:

- 1. Supplier shall deliver the chemical to Buzurgan Terminal, Missan Province, Iraq.
- 2. Supplier shall ensure the deliver all the chemical materials to Buzurgan Terminal, Missan Province, Iraq within five (5) months after the Contract Date.

Other requirement:

1. Free Engineer on-call Service should be provided by Supplier in case of the unsatisfied performance for water and gas treatment. Visa, accommodation, transportation and Catering shall be provided by Supplier.