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Syrian Petroleum Company
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Syrian Petroleum Company Needs the Following Chemical Material:

- **Demulsifier.**
- **CMC (high and low viscosity) .**
- **Corrosion inhibitor (Oil – water).**
- **Soda Ash (NA2-CO3).**
- **HCL.**
- **Caustic Soda (NAOH).**

Bidder who can provide said material according to the enclosed technical specifications can submit samples for some materials for trial in SPC fields in his attendance or he can send his representatives. If materials are accepted technically, bidder will be corresponded upon the need for such materials along with adding his name to bidders list to be corresponded to provide said materials.

Pointing out that it is possible to discuss matters related to payment method and delivery.

Date 24-7-2012 m.d.

Technical Specifications of the demulsifier required for treating the SPC water – crude oil emulsion

1. Quantity **4000** TON
2. Suitable for treating the S . P . C crude oil and able to reduce the water content in this oil up to / 0.25 % vol . with average injection rate in range 40 – 50 ML / M3 at the oil field conditions .The bidders have the right to start the field trial with injection rates between 40 – 50 ml/m3 up or down step by step 5 ml/m3 each.
3. Has a kinematic viscosity not more than 100 c.st . at 25 C ° and can be easily injected with the pumps used in the S.P.C oil field .
4. Suitable for out door storing for two years minimum keeping its original properties and efficiency taking in consideration the temperature variation between – 10 to + 50 C ° in metallic barrel / 200 litters / .
5. Compatible with other chemicals used for crude oil treating and transporting specially corrosion inhibitors .
6. Does not injure the crude- oil components or the crude oil commercial properties .
7. The injection water at the outlet of injection pumps should not contain more than 115 mg/l oil .
8. Does not injure the operators or environment .
9. Does not cause any sludge in the bottom of treating tanks , storing tanks or transporting facilities of the primary water-oil emulsion or the treated oil crude .
10. Has an acceptable odor and safety during storing and utilization .
11. In the meantime the companies interested in this matter can delegate their technical representatives to test their materials in the S.P.C oil field lab. and select their best demulsifier for treating the S.P.C. crude oil each company can offer only one kind of demulsifier .
12. The testing of the demulsifier will be run in the oil field laboratory according to the bottle test procedure .and the separated water percentage is not less than 70% from total water content in oil sample during 24 hours.
13. The companies , whose materials having the best successful lab. test will be requested to deliver (30 ton), for the field test.of the chosen material until 15/11/2011 maximum and this date is not available to change,and the field tests will run in period from 1/12/2011 to 1/3/2012

14. The demulsifier will be considered successfully in the field test only if it could reduce the water content in S.P.C. crude oil measured at the main transporting line at Tel-adas frame tank up to 0.25 % vol.and the injection water at the outlet of injection pumps should not contain more then 115 mg/l oil With injection from 40 – 50ml./m3 at field condition ,and S.P.C will pay the price of the (30 ton). According to the lowest economical price of the tender winner in same field.
15. Tenderers are kindly requested to send two samples attached with offer, 1 Kg. Each one from their demulsifier .
16. The companies ,having the selected demulsifier for field testing will be informed with the time of field test of their demulsifier and they can delegate their technical representatives to participate in the executing of the field test procedure .
17. The quantity of 4000 ton. of the demulsifier should be delivered in 10 lots each 400 ton. Separated by two months. and provided with high quality barrels and the empty barrel weight isnot less than(17) kg for each one .
18. The origin of the offered demulsifier and their manufacturers should be mentioned .
19. The offers are only accepted from manufacturers or their authorized distributors .
20. An inspection certificate issued by a third party for foreign bidders and HSE certificates for all bidders will be requested during delivering time of 4000 ton. of the demulsifier .and MSDS should be attached with offer.

Technical tender book for HIGH VISCOSITY C.M.C

DESCRIPTION	UNIT	QTY
	TON	

Used in fresh and salt water based drilling fluids as filter loss control and thickening agent, according to O.C.M.A. spec. D.F.C.P-7.

PROPERTIES:

A - APPEARANCE :

- C.M.C -HV shall be free flowing powder free from lumps preferably in a granulated form and easily dispersed in aqueous media . the grain size of granulated material shall not exceed 3 mm diameter.
- Doesn' t contain any amount of Starch & Gum.
- Non toxic .

B -YIELD:

- The yields of various C.M.C slurries , each aged 24 hours and having an apparent viscosity of 15 C.P shall be as follows :

- Distilled water slurry : 160 m3/ton (min)
- Sea water slurry : 130 m3/ ton (min)
- Saturated salt water slurry : 140 m3/ ton (min)

C- THE ACTIVE CONTENT MATERIAL: 90 % (min)

D- MOISTURE (H_2O Content) : 6 % max .

E- DEGREE OF SUBSTITUTION : (0.8-1.2)

F-Has a very good filter loss control for the fresh and salt water based drilling fluid and resistance against fermentation and has a good stability up to 125 c°.

G- PACKAGING : Products must be packed in best quality paper bags (or sacks) containing (25 Kg) net weight, The Bags (sacks) shall be (5 plys.) construction with at least (one ply) Polyethylene coated / laminated and will be loaded on pallets made of softwood , every 40 sacks on one pallet and every pallet must be coated with strong Polyethylene (1 ply min).

- Used bearing in mind climatic influences and marine or land environment to which the package is likely to be exposed.

- The Bags must be of adequate and strength to protect the material under conditions of expected use

- closure of bags or sacks by means of wire is not acceptable .

H- STORAGE: Material properties must be stable in storage under field conditions (-10 C° TO + 60 C°) for three years.

I- SAMPLES: Two sealed samples each ½ Kg are required for LAB. Tests, one sample will be tested in **S.P.C** Laboratories with Syrian Betonites according to **(O.C.M.A)** spec. **D.F. C.P-7.** on the light of the results of these tests S.P.C shall give its acceptance to supply the material .

J - Origin of the material, name of the manufacturer and his address are to be mentioned.

K-Analytic certificate issued by a neutral inspections company showing that the materials are in accordance with the above mentioned conditions .

L-The A/M certificates should be submitted.

M-In case the delivered materials spec . is less than the LAB. samples technical spec . in quality and effectiveness , the supplier should deliver the equivalent quantity acc. to the approved basis tested in S.P.C.

N-Representatives of bidders should present on testing of their proposal samples performing by the members of the Syrian Petroleum Company Specialist Commission in the Rumailan fields laboratory.

- In case they will not present so they have no right to object on the results of testing their proposals .

O- bidders must supply list of technical safety matters for their proposals**(MSDS)**

Technical tender book for (C . M . C – L.V)

DESCRIPTION	UNIT
(C.M.C-L.V) SODIUM CARBOXYL METHYLE CELLULOSE : used in fresh water and salt water base drilling fluids as filter loss control according to the following specifications:	TON

A -Meets **O.C.M.A** Spec. **D.F.C.P- 2 .**

B -Fine free flowing powder (without any lumps) readily soluble in water.

C- Fulfils the following composition requirements :

- C M C content (on dry basis) : 60- 70 % (min) .
- NaCL content to be mentioned.
- Organic salts content to be mentioned .
- Non toxic
- Moisture (H_2O content) : 6 % max..
- Degree of Substitution (0.8-1.2).
- Doesn't' t contain any amount of Starch & Gum .

D - Hopler viscosity of 2 % and 5% solution of the chemical offers at 20 c° are to be mentioned.

E - Apparent density at 20 c° is to be mentioned .

F - Has a very good filter loss control for the fresh , sea water and saturated salt water base drilling fluids and gives a good rheological properties.

G -Resistance against fermentation and has a good thermal stability up to 125 c°.

H - PACKAGING : Products must be packed in best quality paper bags (or sacks) containing (25 Kg) net weight, The Bags (sacks) shall be (5 plys.) construction with at least (one ply) Polyethylene coated / laminated and will be loaded on pallets made of softwood , every 40 sacks on one pallet and every pallet must be coated with strong Polyethylene (1 ply min).

- Used bearing in mind climatic influences and marine or land environment to which the package is likely to be exposed.
- The Bags must be of adequate and strength to protect the material under field conditions of expected use.
- closure of bags or sacks by means of wire is not acceptable .

I- SAMPLES :Two sealed samples each ½ Kg are required for LAB. Tests, one sample will be tested in S.P.C Laboratory with Syrian Bentonite according to : (O.C.M.A spec .D.F.C.P-2.) on the light of the results of these tests **S.P.C** shall give its acceptance to supply the material .

K-STORAGE : Material properties must be stable in storage under field conditions (- 10 C° TO + 60 C °) for three years min.

L- **Origin** of the materials, name of the manufacturer and his address are to be mentioned .

M-Analytic certificate issued by a neutral inspections company showing that the materials are in accordance with the above mentioned conditions .
-The **A/M** certificates should be submitted .

N-In case the delivered materials spec . is less than the **LAB** samples technical spec. in quality and effectiveness , the supplier should deliver the equivalent quantity acc . to the approved basis in S.P.C

O - Bidders must supply a list of technical safety matters for their proposals **(MSDS) .**

P - Representatives of bidders should present on testing of their proposal samples performing by the members of the Syrian Petroleum Company Specialist Commission in the Rumailan fields laboratory, In case they will not present so they have no right to object on the results of testing their proposals.

Corrosion inhibitor order

item	description	unit	qty
1	• Water corrosion inhibitor for jbissa oil field ○ Used for water formation at injection gathering station, gathering pipe lines at jbissa oil fields . • inhibits corrosion due to formation water in the presence of common corrodents dissolved in this water like Analysis of Water formation. • CL- /157957 / MG /1 • H2S : 373PPM • CO2 : 250PPM • Suitable for use in pipelines and down hole wells treatment . • Solubility : soluble in water. • Density : # 1.2 g/Cm^3 at 20c^o . • Ph : at 5% solution : 5 - 6 • Viscosity : < 2o mpas . • Efficiency : > 85% at 100PPM • Suitable for outdoor storage with ambient temp variation between (- 10 and +50) C^o. preserving its original properties and efficiency for tow years min . • The testing of the corrosion inhibitors will be run in the oil field laboratory according to electro chemical method . • Bidders are kindly requested to send the samples within 2 bottles /1/ kg each and to specify the active materials and their percentage and the type of solvents used in the offered corrosion inhibitors . • In the mean time the companies interested in this matter can send their tech . representatives to test materials in the SPC oil field labs and select their best corrosion inhibitor suitable for the above conditions • Container plastic barrel # 200L	ton	

Corrosion inhibitor order

item	description	unit	qty
I	• Corrosion inhibitor for jbissa oil field • Inhibits corrosion in crude oil outstanding performance in the presence of common corrodents found in jbissa oil field fluids (H2S-CO2) • Water formation containing • CL^- - 125.000 mg/l • H2S - 1200 P.P.M CO2 - 250 P.P.M • oil soluble -Water dispersible • Ph between (6.5 To 8.5) • Viscosity : not more than 100 C . stock • Efficiency : > 85% at 100 ppm • Density : < 1 Kg /leter . (Les Than 1 G /c m^3) • Suitable for use in pipelines and down hole wells treatment . • Compatible with other chemicals used for crude oil treating and transporting especially demulsifiers. • Don't injure the crude oil installations and crude oil commercial properties. • Suitable for outdoor storage with ambient temp variation between (-10 and +50) C . preserving its original properties and efficiency for tow years min. • The testing of the corrosion inhibitors will be run in the oil field laboratory method and electro chemical method • Bidders are kindly requested to send the samples within 2 bottles /1/ kg each and to specify the active materials and their percentage and the type of solvents used in the offered corrosion inhibitors . • In the mean time the companies interested in this matter can send their tech representatives to test their materials in the SPC oil field labs and select their best corrosion inhibitor suitable for jbissa crude oil . • Container new Plastic barrel =200L	ton	

Technical book for corrosion inhibitor needed for Al-HASSKA oil fields directorate QTY ~ M. ton

Corrosion inhibitor for protecting crude oil installations and equipment (pipeline-separators-tanks....) from corrosion due to formation water accompanying with the following specifications :

I) SPECIFICATIONS :

1- Corrosion inhibitor should be organic liquid .
2- Has an acceptable odor .
3- Keeps Liquid state until - 10 °C.
4- Kinematic viscosity should be less than 100 C. ST at - 8 °C.
5- PH degree : (8.5 $\geq$ P H $\geq$ 6.5) . at (25± 5) °C .
6- evaporization rate should not be more than (8% v/v) at 50 °C during period 24 hr in cylinder capacity 100ml with 25 cm high.
7- The density will be taken into consideration during goodness degree account (The low density is better than the high density).
8- It is easy injection with pumps used in the AL-HASSKA oil fields and doesn't make any changes of specification as (gases release ,or dissolution ,....) and doesn't effect (stainless-steel valves - rubber And copper) .
9- Homogenous liquid- and doesn't injure operators skin, eyes, breathing and inhalation without toxic effects at the skin or breathing.
10- Free from deposits - suspensions and emulsions .
11-Completely dissolved in formation water (1/1 v/v) (in spite of conditions changes especially physical and chemical compounds rates of formation water).
12-Doesn,t form any deposits - suspensions or emulsions with formation water.
13-Compatible with other chemicals used for treating and transporting crude oil, especially demulsifies .
14-Suitable for outdoor storing(without sunshade) between-10 °C up to +55 °C for two years, keeping its properties as it is mentioned in item (I) .
15- Can decrease corrosion velocity to the extent not less than 90 % protection degree, at 30 P.P.M (V) injection rate at the laboratory and field (although the conditions changes especially chemical compounds rates of formation water) however the testing of corrosion inhibitors will be run in the formation water from pipeline of S3 Station in Tel-Adas with electro-chemical method ASTM D2776 .

II)TENDERERS COMMITMENTS :

1- The tenderers are accepted to submit one type of their products and send two separated regular equal samples – in tight closing bottles (factory made) - of the material each one /2/ kg for Lab testing during 10 days of closed date accompanied with the following specifications :

a- Type of solvent - type of active material and its concentration.

b- Name and address of the manufacturer .

c- Safety sheet .

d- Technical specifications listed in item (I)

2-The companies interested in this file can send their technical representatives with thei apparatus to test their materials on their own account in the Al-Hassaka oil field

laboratory and at oil pipe lines to select the best inhibitors to offer their tenders as well as the technical report about their tests to oil fields directorate .

3-The best four companies having the successful laboratory test will be requested to deliver (10 M . ton) of the chosen material during three months starting from the date of ordering them and any other shipment (10 M .ton) will be refused after that period.

4- the participant companies can send their technical representatives to see the executing of the field tests of their inhibitor each for his own material (10 M.ton)of corrosion inhibitor will be considered successful only if it is shown the accordant specifications mentioned in item (I) by field test .

5- S.P. C will pay price of (10) M .ton of successful inhibitors in fields according to the approved final price of this tender .

6- The corrosion inhibitor is supplied in new metallic drums durable and not distensible (180-220) liter and not less than (17.5 k.g) without rust in the drums .

Notes: formation water analysis of the samples are from pipeline of S3 in station Tel-Adas contains:

Cl^- , HCO^{-3} , $SO4^{-2}$, $NO3^-$, $CO3^{+2}$, Ca^{+2} , Mg^{+2} , Na^+ , K^+ ,

H_2S , CO_2 , Fe^{+2} , Fe^{+3} , ...,...,..... And other products.

Soda Ash

-Materials designation : Soda Ash (Na_2CO_3) QTY

ton

- Form : powder
- Purity :97 % Min

-Free from lumps

Packing: material must be packed in 50 kg sacks the sacks must be adequate strength to protect the contents under field conditions expected use : (-10 up to +50 C°)

Each 20 sacks on one wooden pallet covered with polyethylene layer

-Sample : two samples each 1/2- kg for lab testing

TECHINICAL TENDER BOOK FOR SUPPLY 1700 TON FROM (HYDROCHLORID ACID (HCL)

(External and internal call)

DESCRIPTION:

Hydrochlorid acid (HCL)	Qty =	
- HCL concentration	30- 34	%
- Iron content	0. 002	% max .
- Sulfur dioxide	0.1	% max .
- free Chlorine contents	0.001	% max .
- Arsenic contents	0. 0003	% max .

- Packing : high resistant plastic containers capacity / 25 – 40 / kg suitable for transporting and out door storage with ambient temperature between (-10 and +50) C preserving their original properties and efficiency for two year minimum

NOTICE:

1- Bidders are kindly required to send two samples / 5L / for executing lab tests

2- Bidders should present on lab tests that run in directorate laps in case they will not present lap tests they have no right to objects on the results of lap tests and the results of these tests that run by the specialist technical commission on the sent proposal samples will be accepted

3 - Bidders should submit technical data sheet in which he clarifies acid specifications and material safety data sheet (MSDS) from manufacturer

4 - Bidders should mention country of origin and manufacturer .

5 - Should be suitable for storing for two years preserving their original effectiveness; taking into account . The temperature fluctuates between (- 10 c and + 50c) .

Caustic Soda

-Materials designation : Caustic Soda (NaOH) QTY

ton

- Form : Flakes
- Purity :97 % Min
-Free from lumps

Packing: material must be packed in 50 kg or 25kg sacks the sacks must be adequate strength to protect the contents under field conditions expected use : (-10 up to +50 C°)

Each (1ton) on one wooden pallet covered with polyethylene layer

-Sample : two samples each 1/2- kg for lab testing