

**OIL & GAS DEVELOPMENT COMPANY LIMITED**  
**PROCUREMENT DEPARTMENT, ISLAMABAD**  
**FOREIGN SECTION A**

(To be completed, filled in, signed  
and stamped by the principal)

ANNEXURE 'A'

Material OIL SOLUBLE CORROSION INHIBITOR  
Tender Enquiry No PROC-FA/CB/PROD-5104/2021  
Due Date  
Evaluation Criteria FULL

**SCHEDULE OF REQUIREMENT**

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
1	OIL SOLUBLE CORROSION INHIBITOR EC-1394A, PC CI 211IU OR Equivalent	DRUM	160					

Note:

- 1. Bid Bond Amount:** US \$ 1,500/= (United States Dollar fifteen hundred Only) or equivalent Pak Rupees valid up to 210 Days from the date of technical bid opening
- 2. Mode of Bidding:** Single stage two Envelope basis.
- 3. Evaluation Criteria:** - Full Consignment wise C&F By Sea
- 4. Delivery Period:** 90 days from establishment of LC
- 5. Bid Validity:** 180 Days
- 6. Bidders are advised to carefully read all the terms and conditions of the Tender Document available on OGDCL website which is an integral part of this Schedule of Requirement**

**Mandatory Specs, Terms, Conditions and Requirements**  
**For Procurement of Oil-Soluble Corrosion Inhibitor.**

1. Generalized Specifications.

Specific Gravity	0.85-0.89 @60 F	Amine Contents	15 % of Tertiary amine
Viscosity	10-14 Cst	pH	6-9
Appearance	Clear amber green	Surfactant	Non-ionic surfactant
Solubility	Oil soluble	Chemical nature	Fatty Alkyl Imidazoline
Flash Point	> 60 Degree C		

2. The supplier must have atleast 7 years of supply experience preferably locally in Pakistan's E & P and other relevant companies. (Proven track record of supply is must).
3. In case supplier has no local supply record in Pakistan, then it is mandatory to provide internationally supply record with satisfactory performance evidence from atleast three supplied company on their letter head showing all contact details and concerned responsible person. (OGDCL may contact that company for verification / authenticity of the letter / performance).
4. Verifiable evidence of ownership of ISO-14001-2015 or 9001-2015 certified blending facility / plant by supplier or proper agreement along with complete address and contact details to blend the corrosion inhibitor as per specs.
5. MSDS sheet confirming the range of ingredients as given in above specs. Handling, charging, application notes etc along with residual level determination test method, residual test frequency and satisfactory range of residue.
6. Product shelf life must not be less than 3 years if stored under standard shade at atmospheric temperatures varying from 0 – 52 degree Celsius. Supplier to comply.
7. The product must be effective to form protective film at flow velocity range of 30-40 Ft/sec OR 10-13 m/s at an average dosing rate of 20 – 50 PPM to obtain average corrosion rate  $\leq 5$  MPY. Supplier to confirm and comply.
8. Already used / approved products by OGDCL are mentioned in the SOR, in case, bidder intends to offer other than mentioned, it is mandatory to supply at least 10 drums and conduct test and trial solely at bidder's risk and cost before bid submission date on "No Cure No Pay basis.
9. Supplier must have its' own or representative's registered office and technical man-power on its payroll to provide after sale's services throughout useful life of supplied product. First visit after material is received at fields is mandatory for optimization, setting of dosage rates and stabling residual levels. The other visits shall be on as and when required basis with no additional charges. Bidder to confirm & comply.
10. Supplier to provide proof by 3<sup>rd</sup> party independent lab that the product meets the required specs.
11. The chemical shall be packed in robust type drums (Plastic or steel) suitable for international sea / road travelling with clear marking showing product name, supplier's and receivers name, manufacturing and expiry dates, port of shipment, quantity of chemical in Ltrs / US gallons.

## FIELD'S CRUDE OIL & WATER ANALYSIS DATA:

### 1. Field -1

#### 1.1. Typical Water Analysis

Fe (ppm)	pH	Cl (ppm)	Ca(ppm)	Mg(ppm)	T.D.S(ppm)	Mn (ppm)
4-50	7.6-7.9	31950-85200	150-2685	17-550	46670-186070	0.5-1.8

#### 1.2. Typical Crude Oil Analysis

Sp.Gr @ 60/60 F	Api Gravity @ 60/60 F	Salt Contents	Pour Point
0.81-0.83	35-42	6-40 PTB	21 Degree C

#### 1.3. Typical Gas Analysis

Average H<sub>2</sub>S contents 5-300PPM  
Average CO<sub>2</sub> contents 2-8 Mole %

### 2. Field - 2

#### 2.1. Typical Water Analysis

Fe (ppm)	pH	Cl (ppm)	Sp.Gravity
8-55	6.5-7.8	6000-65000	1.06-1.07

#### 2.2. Typical Crude Oil Analysis

Sp.Gr @ 60/60 F	Api Gravity @ 60/60 F
1.05-1.1	35-42

#### 2.3. Typical Gas Analysis

Relative density 0.76-0.847  
CO<sub>2</sub> 3-8 Mole %

### 3. Field - 3

#### 3.1. Typical Water Analysis

Fe (ppm)	pH	Cl (ppm)	Sp.Gravity	BS & W %
8-55	5.9-7	5000-90000	1.06-1.1	0.2-2

vetted

mdc  
10/11

### 3.2. Typical Crude Oil Analysis

Sp.Gr @ 60/60 F	Api Gravity @ 60/60 F	Salt Contents
0.79-0.82	40-50	2-138 PTB

### 3.3. Typical Gas Analysis

Relative density 0.65-0.77  
CO<sub>2</sub> 1.9-7.5 Mole  
H<sub>2</sub>S 10 PPM

## 4. Field - 4

### 4.1. Typical Water Analysis

Fe (ppm)	pH	Cl (ppm)	TDS	Mn
2-9	6-7	41080	49895	2.45

### 4.2. Typical Gas Analysis

Specific gravity 0.627 - 0.718  
CO<sub>2</sub> 2-5 Mole %  
H<sub>2</sub>S 7 - 10 %