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

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

ANNEXURE 'A' 01/0

Material 300 DRUMS OF CORROSION INHIBITOR
Tender Enquiry No PROC–FA/CB/WS/CHEM–2066/2017
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	CORROSION INHIBITOR (FILMING AMINE TYPE)	Litre	62460					

Note:

1) PURSUANT TO TENDER CLAUSE # 2.2, 11.4, 13 & 35.3.2, BID BOND AMOUNTING TO USD 2,600/- OR EQUIVALENT TO PAK RUPEES MUST BE SUBMITTED WITH THE TECHNICAL BID AND VALID FOR 150 DAYS FROM THE DATE OF OPENING OF THE BID.
2) EVALUATION CRITERIA: FULL CONSIGNMENT WISE ON CFR KARACHI BASIS.
3) **TERMS AND CONDITIONS:** BIDDERS ARE ADVISED TO CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THE TENDER DOCUMENT AVAILABLE AT OGDCL WEBSITE IN THE MASTER TENDER DOCUMENT.
4) **SHIPMENT FROM ACU MEMBER COUNTRIES:** IN CASE OF SHIPMENT FROM ACU MEMBER COUNTRIES, THE LC BENEFICIARY SHOULD BE OF THAT PARTICULAR COUNTRY FROM WHERE THE CONSIGNMENT IS BEING SHIPPED.
5) **SUMMARY REJECTION CRITERIA:** THE SUMMARY REJECTION CRITERIA AT CLAUSE 35 OF THE TENDER DOCUMENT MAY ALSO BE EXAMINED CAREFULLY. ANY BID NOT MEETING THE CRITERIA SPELLED IN THE CLAUSE # 35 SHALL BE SUMMARILY REJECTED WITHOUT ANY RIGHT OF APPEAL.
6) **DELIVERY PERIOD:** THE LEAD TIME OF THE QUOTED PRODUCT SHOULD NOT BE MORE THAN 90 DAYS AFTER OPENING OF LETTER OF CREDIT (LC).

INDENT NO: WS (MUD)-142/19/2017 DATED: 06-03-2017

02/06

TECHNICAL SPECIFICATIONS SHEET OF CORROSION INHIBITOR FILMING AMINE TYPE

Corrosion Inhibitor is a Filming Amine Type combination of Imidazoline & Ethoxylated Fatty which makes a protective film on all metal surfaces and helps in preventing the corrosion attack from Oxygen, Carbon Dioxide and Hydrogen Sulphides gases present in the oil/gas wells during drilling. It provides excellent Corrosion Inhibition for the drill string/ tubing and downhole tools, upto temperature of 300 ^{0}F (149 C^{o}).

General purpose, Amine type, Water Soluble Corrosion Inhibitor is effective in the dispersed muds, KCl muds, Salt Water muds and completion/ work over brines.

Each bidder should fill-in the tables given below with the exact value of these properties of their quoted product. Only to write conforming to or OK will not be sufficient.

A) *TECHNICAL SPECIFICATIONS*

Sr. No.	Physical Properties	Required Specifications	Exact Value of the Offered Product
1	Appearance	Clear Brown to Yellow Color Liquid	
2	Amine Content	15 % Minimum of tertiary amine	
3	Surfactant in formulation	The product should also contain Non Ionic Surfactant	
4	Colour	Clear Brown to Yellow Colour	
5	Specific Gravity	1.0-1.03 @ 20 ^{0}C	
6	PH	7-9	
7	Pour Point	< - 5 ^{0}C	
8	Flash Point	>75 ^{0}C	
9	Solubility	Complete Water Soluble	

Test procedure for determination of Amine Content is attached at Flag "T".

B) *NECESSARY DATA:*

S No	DESCRIPTION	
01	Bidder's Name, address, telephone, Email and fax numbers	
02	Local Agent's Name, address, telephone, Email and fax numbers	
03	Manufacturer's Name, address, telephone, Email and fax numbers	
04	Name of Authorized Signatory of Bidder and Manufacturer	
05	Website of manufacturer	
06	Brand Name of Product	
07	Country of origin	
08	Port of shipment	
09	Minimum shelf life of product	

03/06

C) **SALES ACHIEVEMENTS:**

Names of at least 07 clients (E & P companies only) other than OGDCL to whom supplied the quoted product in bulk quantity (not less than 50 drums) with contract Numbers, year of supply and quantities supplied for the last Five (05) years commencing from 2012 for proof of Five years experience (Attach separate sheets if required).

SR. NO.	NAMES OF CLIENTS WITH ADDRESS/E-MAIL/TELEPHONE NOS. AND CONTACT PERSON.	CONTRACT NOS. WITH DATE	QUANTITY (55 US GALLON DRUMS)
01.			
02.			
03.			
04.			
05.			
06.			
07.			

D) **NECESSARY ATTACHMENTS:**

SR. NO.	DECSRIPTION	ATTACHED/ PROVIDED OR NOT.
01.	Product Data Memorandums in original printed by the manufacturer.	Attached/ Not attached
02.	Material Safety Data Sheets in original printed by the manufacturer.	Attached/ Not attached
03.	Valid authentic ISO 9001-2008 certificate as a proof for manufacturing / production of quoted product/ mud chemicals.	Attached/ Not attached
04.	Original authority letter issued by the manufacturer to bidder for quoting their product along with confirmation of Five years experience of manufacturing the quoted product.	Attached/ Not attached
05.	Lab evaluation report of the quoted product from an internationally reputed/ recognized third party laboratory in the light of technical specifications sheet at "**A**"	Attached/ Not attached.
06.	01 Liter sample of the offered product.	Provided/ Not provided

04/06

E) PACKAGING:

The Corrosion Inhibitor should be packed in 55 US Gallons net export quality new mild steel, corrosion resistant/ plastic drums, 04 drums on one wooden pallet, shrink wrapped with thick polythene sheet and tightly strapped. The packaging of the material should be of international standards and capable to safe transportation during ocean / road journey from port of shipment to well site and to withstand prolonged weather conditions at the storage points and at the well sites / locations.

F) MARKING:

Each drum should have clearly legible marking, as given below;

(a) Name of the product.
(b) Name of the Manufacturer.
(c) Date/month/ year of manufacture.
(d) Minimum Shelf Life
(e) Supply order number against which supplies are made.
(f) Lot No._____/ Batch No._____.

G) INSTRUCTIONS TO THE BIDDERS/ TERMS & CONDITIONS:

1. The manufacturer of the quoted product must have minimum **05** years experience of manufacturing & supplying of indented chemical to E & P companies specifically, duly supported by valid authentic **ISO 9001-2008** certificate as a proof for manufacturing/ production of the quoted product / mud chemical. In case of any ambiguity, the certificate will be verified from issuing authority.
2. **Minimum shelf life** of the quoted product **should not be less than 03 years**.
3. Technical Specifications Sheet of the quoted product duly filled-in must be enclosed in the technical bid.
4. **Delivery period** of the quoted product should not be more than **90 Days.**
5. All submitted bids will be evaluated strictly as per TOR of tender inquiry as well as on the basis of previous performance (supply record as per shipment) of bidder, manufacturer and local agent, failing which will lead to disqualification of Bid thereof.
6. An authority letter in original issued by the manufacturer for allowing the bidder to quote their product for this particular tender enquiry, duly signed/stamped, must be attached with the technical bid.
7. All the bidders must have to provide/ submit **1 litre sample** of the quoted product along with technical bids at the time of bid submission. The valid receipt/tracking details supplied through national / international courier services has to be accompanied with the bid. No sample will be accepted after 10 days of technical Bid opening.
8. All the bidders must have to submit the lab evaluation report of their quoted product from any internationally reputed /recognized 3rd party laboratory, strictly as per technical specification sheet of the tender document, along with the technical bid.
9. The quantities of indented material can be increased or decreased at the time of finalization of case according to the requirement.
10. Prior to shipment of the material, the supplier of the product will be responsible for carrying out the inspection & Lab analysis of the material from the OGDCL approved inspecting agency/ Lab in the presence of OGDCL officials committee (03 No's Officials) for confirmation of material as per tender specifications (The bidder will have to bear all the cost (travelling, boarding, lodging, visa etc.) for the visit of OGDCL officials). The justified cost has to be quoted separately & legibly along with the submitted bids, which will financially be evaluated along the total cost of bid.
11. All the bidders must have to quote justified 3rd party inspection/ lab analysis cost separately along with their financial proposals. It would, however, be OGDCL's prerogative to whether avail these services on the approved quoted cost or otherwise.

12. If the 3rd party pre-shipment inspection/ lab evaluation of the material could not be witnessed by OGDCL committee due to visa/ NOC issues or any other reason whichever may be, OGDCL will endorse the 3rd party inspection and lab evaluation report if it will conform to tender specification. However, 50% percent payment will be released after the receipt of the material at OGDCL store, its inspection by OGDCL committee and confirmation of material as per tender specifications.
13. Shipment is required to be made in containers for minimizing damages to the costly chemical.
14. Material must have to be lifted back by the vendor if found not as per technical specification of this particular tender enquiry even after its receipt at the base stores and have to replace with the material conforming to technical specifications with no cost to OGDCL.
15. If any of the information provided by the bidders proves wrong or any counterfeited/unlawful document is submitted to mislead department, OGDCL reserves the right to disqualify such bids without further assigning any reason. Such bidders will not be allowed to bid for any future procurement.

Solvent Strength Method (Titration) for Determination of Amine Content

This method uses the alkalinity of the solvent for determination of the solvent strength by means of titration with HCl.

Equipment:

- Beaker, 100 ml
- Burette, 50 ml
- Laboratory balance 0-250 g, accuracy 0.1 mg
- Magnetic stirrer

Reagents:

- 1 N aqueous HCl
- Indicator Tashiro Riedel-de-Haen No 36083 (Supplier: Riedel-de-Haen AG. Postfach 10 02 62, 30918 Seelze, Germany) / Or Bromophenol Red Indicator Solution
- Distilled Water

Procedure:

Use a lean solution sample taken downstream of the stripper.

Do not use rich solutions. Weight approx. 10g of the sample in the beaker and dilute the sample with 50 ml of distilled water.

Add 5-8 drops of Tashiro indicator / Bromophenol Red Indicator to the sample to obtain a green colored solution and start adding HCl drop by drop thereby constantly stirring the solution.

At the equivalence point the colour of the solution changes from Green to Grey. Stop adding HCl and note the HCl consumption. If the colour of the solution changes to Pink, too much HCl has been added and the titration should be repeated.

Evaluation:

The solvent strength is calculated as follows

$$\xi_{\text{Strength}}\,[\text{wt - \%}] = \frac{V_{\text{HCl}} \cdot n_{\text{Hcl}}}{m} \cdot F_{\text{Solvent}}$$

V_{HCl} = Volume of HCL used
n_{Hcl} = Normality of HCL used
$F_{Solvent}$ = 10.52
m = mass of sample used