OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT, ISLAMABAD
FOREIGN SEC. A PRJ.

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

ANNEXURE 'A' 01/07

Material CORROSION INHIBITOR
Tender Enquiry No PROC–FA/CB/WS/CHEM–3166/2017
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	Litre	62460					

Note:

1) PURSUANT TO TENDER CLAUSE # 2.2, 11.4, 13 & 35.3.2, BID BOND AMOUNTING TO USD 3,600/- 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).

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TECHNICAL SPECIFICATIONS SHEET OF CORROSION INHIBITOR FILMING AMINE TYPE

It is the Corrosion Inhibitor in liquid form 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/ tubular and down hole 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 such as KCl, NaCl, $CaCl_2$ and zinc 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 O.K. will not be sufficient.

A) TECHNICAL SPECIFICATIONS

Sr.No.	Physical Properties	Required Specifications	Exact Value of 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	Color	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	

Note: Test procedure for determination of Amine Content is attached with SOR

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B) NECESSARY DATA:

SR. NO.		DESCRIPTION	
01.	A	Name of Bidder	
	B	Name of authorized signatory of bidder	
	C	Complete address, telephone, e-mail and fax numbers of bidder	
02.	A	Name of Local agent	
	B	Name of authorized signatory of local agent	
	C	Complete address, telephone, e-mail and fax numbers of local agent	
03.	A	Name of Manufacturer	
	B	Name of Authorized Signatory of Manufacturer	
	C	Complete address, telephone, e-mail and fax number of manufacturer.	
	D	Website of manufacturer	
04.		Brand Name of Product	
05.		Country of origin	
06.		Port of shipment	
07.		Minimum shelf life of product	

28/12/17

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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 2013 for proof of Five years experience (Attach separate sheet 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 consecutively for last 05 years 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.	Company profile of manufacturer in original printed by manufacturer confirming the manufacturing capability & experience.	Attached/ Not attached.
07.	01 Liter sample of the offered product.	Provided/ Not provided

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PACKAGING: 05/07

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, 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.

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._____.

INSTRUCTIONS TO THE BIDDERS/ TERMS & CONDITIONS:

1. The manufacturer of the quoted products 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** consecutively from last 05 years as a proof for manufacturing/ production of the quoted product. In case of any ambiguity, the certificate will be verified from issuing authority. The certificate duly submitted along with bid, will be considered final. No additional certificate will be entertained at any stage of the case.
2. **Minimum shelf life** of the quoted products **should not be less than 03 years**.
3. Technical Specifications Sheet of the quoted products 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. Bids will be evaluated strictly on the basis of TORs of this tender Enquiry as well as on the basis of previous performance/ supply record.
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 in case the bidder is not manufacturer.
7. All the bidders must have to provide/ submit the **01 Liter 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 / entertained after 10 days of Technical Bid Opening if not provided along with the bid, and the bid will be rejected.
8. All the bidders must have to submit the lab evaluation report of their quoted products from any internationally reputed /recognized 3rd party laboratory, strictly as per technical specification sheets of the tender document, along with the technical bid.

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9. The quantities of indented material can be increased or decreased at the time of finalization of case according to the requirement. 06/07

10. Prior to shipment of the material, if desired by OGDCL, 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 for confirmation of material as per tender specifications. The inspector will be hired by OGDCL. After physical inspection, one representative sample of the chemical will be dispatched by the inspectors directly to OGDCL. Later on its lab evaluation report will be submitted directly to OGDCL. After examination/ scrutiny, OGDCL will inform about acceptance / rejection of material/ report. Moreover if OGDCL intends to witness the TPI / visit the manufacturing facility, the vendor will be responsible to provide the "Invitation Letter" & facilitate the visit of the OGDCL inspection Team, however the expenditure incurred on such visit will be borne by OGDCL.

11. Shipment is required to be made in containers for minimizing damages to the costly chemical.

12. The final acceptance of the requisite consignment will be made after physical inspection of shipment & Lab analysis of representative sample for conforming to technical specs of tender documents. The lab analysis will be undertaken at OGDCL own or any other reputable lab of OGDCL choice and acceptance of the results will be binding over the supplier.

13. The 50% payment will be released after receipt & inspection of said chemical at OGDCL Base store (KDS) Karachi and conformation of the Lab test results of representative sample as per required specifications.

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 extra cost to OGDCL.

15. If any of the information provided by the bidders proves wrong or any counterfeited/unlawful document is submitted to mislead, OGDCL reserves the right to disqualify such bids without further assigning any reason.

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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

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

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

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