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 WATER SOLUBLE CORROSION INHIBITOR

Tender Enquiry No PROC–FA/CB/PROD–5226/2021

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	CORROSION INHIBITOR, WATER SOLUBLE, CT–9802, CRW9110, KRN–264, CRW27282,OR Equivalent	Litre	166560					

Note:

1. Bid Bond Amount: US $ 9,000/- 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 L.C.
5. Bid Validity: 180 Days
6. Bidders are advised to carefully read all the terms and conditions of the MASTER SET OF FOREIGN TENDER DOCUMENT (PRESS-SINGLE STAGE TWO ENVELOP) available on OGDCL website which is an integral part of this Schedule of Requirement

Mandatory Specs, Terms, Conditions and Requirements For Procurement of Water-Soluble Corrosion Inhibitor For QadirPur.

1. Generalized Specifications.

Specific Gravity	0.89-0.91 @25 C	odour	Amine / aromatic
Density	7.321 ib/gallon	pH	6-7
Appearance	Clear amber	Surfactant	Non-ionic surfactant
Solubility	Water soluble	Chemical nature	Salts of fatty acids, and Quaternary ammonium compounds in organic solvent.
Flash Point	55-60 degree F	Pour point	< -40 degree C

2. The supplier / manufacturer 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 / manufacturer 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 ≤ 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 / manufacturer 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 / manufacturer to provide proof by 3rd 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.

Note: Manufacturer is one who formulate specific chemical for specific use and provide MSDS & PDS of the chemical along with composition of ingredients and hazard identification tity of chemical in Ltrs / US gallons.

Vetted

SAIRA RIAZ
Sr. Chemist (Corrosion)
Ext: 2848

1. Typical Properties/Fluid Analysis Of all Three Formations

Formation Name	WHFP (psi)	WHFT (° F)	Q_g (MMSCFD)	$Q_{cond.}$ (BPD)	Q_{water} (BPD)
Habib Rahi Limestone	385	110	37	2	1210
Sui Upper Limestone	310	88	35	12	128
Sui Main Limestone	330	140	251	130	4400

Water Analysis

Formation Name)	Sp. Gravity at 60/60	pH	TDS (ppm)	Cl (ppm)	Fe 2+ (ppm)
Habib Rahi Limestone	1.0344	6.76	31300	21270	92.5
Sui Upper Limestone	1.0340	5.49	28900	22333	79
Sui Main Limestone	1.0270	7.17	22100	17707.27	14.75

Condensate Analysis

FormationName)	Obs. Temp. (° F)	Sp. Gravity at 60/60	API Gravity at 60/60	BS & W (%)
Habib Rahi Limestone	100	0.788	47.95	0.05
Sui Upper Limestone	80	0.788	50.14	<0.05
Sui Main Limestone	85	0.7847	48.81	<0.05

Gas Analysis

COMPOSITION.	Mole % Habib Rahi Limestone	Mole % Sui upper Limestone	Mole % Sui Main Limestone
C1	79.41	80.27	79.44
C2	0.57	0.97	1.03
C3	0.11	0.22	0.25
I- C4	0.03	0.06	0.07
n-C4	0.03	0.06	0.07
I- C5	0.02	0.03	0.03
n-C5	0.01	0.02	0.03
C6+	0.03	0.05	0.19
N2	13.73	18.15	12.68
CO2	6.06	0.17	6.31
H2S	5ppm	2ppm	264ppm
C. V (BTU/CUFT).	821.01	843.10	839.74
RELATIVE DENSITY	0.676	0.642	0.681