

OIL AND GAS DEVELOPMENT COMPANY LIMITED KUNNAR OIL FIELD, TANDO JAM HYDERABAD SINDH

SCHEDULE OF REQUIREMENT ANNEXTURE - A-1

Subject: Procurement of Water Soluble Corrosion Inhibitor for Well Head Assemblies and Pipeline Network of KPD - TAY

1. Water soluble corrosion inhibitor (9134 Ltrs, 45 Drums) is required for KPD-TAY well-head assemblies and pipe-line network to protect from internal corrosion by reducing 'Un-Inhibited Corrosion Rate of 50~55MPY' to 'Inhibited Corrosion Rate of <5MPY' on the basis of below mentioned 'Terms & Conditions'. The field conditions of KPD-TAY are given below;

					3.6.1 0/	`					(0	G .c.
(Mole %)				$(C_{v)}$	Specific							
C1	C2	C3	iC4	nC4	iC5	nC5	C6+	CO_2	N_2	H_2S	BTU/SCF	gravity
77.8	6.6	2.1	0.3	0.5	0.2	0.2	0.5	7.24	4.7	Nil	1020.6	0.73
) G	ross Pr	oductio	n of Fiel	d								
	Qgas	(MMS	CF)			Qo	il (bbl)				Qw (bbl)	
		200.72				2	2940				925	
) S i	izing of	flow lin	es						<u> </u>			
	No	minal D	ia			Avg. L	egth (kı	n)		N	Iax. Length (km)
	4'	', 6", 12 [°]	,				4~5				25	
d) T	empera	tures										
						Avg.	Γemp. º]	F			Max. Temp.	F
Well I	Head Fl	owing T	empera	ture			200				225	
F	low Lin	e Temp	erature				175				200	
e) P	ressure	S										
						Avg Pro	essure (p	osi)		M	ax. Pressure	(psi)
Wel	ll Head	Flowing	g Pressu	re		1	800				2000	
	Flow I	ine Pre	ssure			1	175				1250	
f) G	OR			<u> </u>								
		Min				I	Max				Gross	
		0.018				0	.212				0.080	

NOTE: Well-wise composition and flowing parameters can be obtained separately - if required - on condition of confidentiality of information by the prospective bidder.

Terms and Conditions

All bidders must comply following terms and conditions and specs. In case of non-compliance OGDCL will have the right to reject the bid.

1. <u>Company Information</u>

i. ii.	Complete company information with contact details of business address and manufacturing facility should be provided with the bid. In case of local agent / representative, the bidder shall have to provide ORIGINAL AUTHORITY LETTER issued by manufacturer to bidder for quoting their product and assuring to supply accordingly.	Bidder to provide as mandatory requirement
iii.	Company should have at least 15 years of experience for manufacturing and sale of corrosion inhibitor and chemicals for oil and gas sector.	
iv.	ISO 9001-2008 quality management certificate for manufacturing plant to be provided with technical bid.	Bidder to
v.	In case bidder is joint venture of companies, then detailed term and conditions with role, responsibilities and liabilities both technical and financial must be provided.	provide
vi.	Detail CV of officials/ site visit team should be provided for after sale technical support if required to address performance problems.	

2. **Product Information**

i.	Brand Name of offered product.	Bidder to provide
ii.	MSDS Sheet clearly showing / mentioning range of active ingredients.	
iii.	Bidder should provide specific residual test method, residual test frequency and satisfactory range of residue along with bid.	Bidder to provide
iv.	Compatibility with other chemicals (i.e. demulsifier, H ₂ S Scavenger, encapsulated corrosion inhibitors and Scale Inhibitor).	Bidder to provide
v.	The product should be water soluble, effective at down-hole temperature up to 200 °C, flash point > 83°C and safe for storage at high ambient temperature up to 55°C.	Bidder to confirm
vi.	The bidder will provide maximum velocity of the production stream up to which protective film will form and retain. The offered product should be suitable for high pressure, high temperature and high velocity production regime.	Bidder to provide

vii.	Dilution ratio with water up to which effectiveness of corrosion inhibitor is not affected.	Bidder to provide
viii.	Total 7 years of manufacturing & sale of offered or similar product.	Bidder to
ix.	Shelf life of product should be ≥ 2 years.	confirm
x.	Complete product data memorandum, chemical specification, and percentage of active ingredients, application notes, storage, and handling, dosing rate and disposal recommendations.	Bidder to provide
xi.	The supplier is required to provide verification / certification of quality control specifications of the offered corrosion inhibitor.	Bidder to provide
xii.	For the proposed corrosion inhibitors based on specified water / crude / gas analysis, bidder to carry out Simulation / Laboratory Tests (Bubble test, Flow loop & Autoclave tests) or other high-tech selection criteria for compatibility and effectiveness of offered product and results to be attached with technical bid.	Bidder to provide
xiii.	Effective Dosage Rates of Corrosion Inhibitor to achieve Corrosion Rate < 5MPY. These dosage rates should not be more than 1.0 Ltr /MMSCFD	Bidder to provide
xiv.	OGDCL shall review report for techno-commercial suitability of material in terms of effective dosage rates. The OGDCL will have full right to accept/reject the reported final results without assigning any reasons.	Bidder to accept
xv.	The bidder is also required to provide as evidence the end user comments/recommendations on the company letter head (supplied to any E & P company in Pakistan or worldwide) where the offered inhibitor has been supplied and used showing that the same offered product has worked with satisfactory results.	Bidder to provide

3. Sales Record / Client age / Credentials (Both local & International)

(This is a mandatory requirement. Any bidder failing to provide shall be declared as Non-responsive.)

S. No.	Name of client / Company with address, phone No., email etc.	Contact person(s) with designation	Contract / Purchase Order No. (copies to be provided)	Quantity supplied
i.				
ii.				
iii.				

4. Packing and delivery

	The ordered quantity of corrosion inhibitor in palletized packing as per international standards and manufactures recommendation with proper	Bidder to comply
1.	labelling of product name, batch number, DOM and DOE must be supplied/	Bidder to comply
	delivered on FOR basis to Kunnar Oil Field within 08 weeks.	

ii.	LD charges in case of late delivery will be imposed up to 5% of PO value	Bidder to accept
11.	excluding GST as per tender document, clause # 14	Bidder to decept

5. <u>Inspection of Material</u>

i.	Supplier will provide material as per specification along with 3 rd party inspection firm vetted chemical analysis of batch(es) and Quality Inspection Report of Manufacturer, in case of imported product, Foreign shipping Documents as a proof of genuine buying etc.	Bidder to comply
ii.	Detailed Inspection of Supplied material will be carried out by OGDCL at site.	Bidder to accept

6. For Invoicing

Description with Brand Name	Quantity	Unit Rate	Total Cost
Water Soluble Corrosion Inhibitor EC- 1304, PC-2176U, Pro- Solv-18062 or equivalent	9134 (Ltr)	(PKR/Ltr)	(PKR)
	GST (17%	/o)	(PKR)
	(PKR)		

7. <u>Mode & Schedule of Payment</u>

i.	Payment will be made through cross cheque from H.O OGDCL, after delivery and inspection of supplied material at site.	Bidder to accept
ii.	Partial Payments will not be made, in any case.	
iii.	Performance Bank Guarantee will be released as per clause # 10 of Tender Documents and Annexure-I	

8. <u>Bidding Ceremony</u>

	i	OGDCL encourages the bidders to Participate in Bidding ceremonies, in	Bidder to accept
	1.	person.	Bidder to accept
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