

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

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

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ANNEXURE 'A'

Material POLY ANIONIC CELLULOSE – LOW VISCOSITY (PAC-LV)
Tender Enquiry No PROC-FA/CB/WS/CHEM-1779/2016
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	POLY ANIONIC CELLULOSE –LOW VISCOSITY (PAC-LV)	Metric Ton	300					

Note: 1) PURSUANT TO TENDER CLAUSE # 2.2, 11.4, 13 & 35.3.2, BID BOND AMOUNTING TO USD 24,000/- OR EQUIVALENT TO PAK RUPEES MUST BE SUBMITTED WITH THE TECHNICAL BID.
2) EVALUATION CRITERIA: FULL CONSIGNMENT WISE ON CFR KARACHI BASIS.

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TECHNICAL SPECIFICATIONS SHEET OF
POLYANIONIC CELLULOSE – LOW VISCOSITY (PAC-LV)

Poly Anionic Cellulose-Low Viscosity (PAC- LV) is a short chain Polymer (as compared to PAC-Regular) and thus used for filtration control in all types of water base drilling fluids ranging from fresh to salt saturated waters, when substantial increase in the viscosity is not desired. It also has shale inhibitive characteristics. It is readily dispersible in water base mud systems from fresh to salt saturated mud. It is compatible with inhibitive salt mud systems containing Sodium Chloride, Potassium Chloride or Gypsum. It is also non-fermentable.

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

A) **TECHNICAL SPECIFICATIONS**

SR. NO	DESCRIPTION	REQUIRED SPECIFICATION	PROPERTIES OF THE QUOTED PRODUCT
01.	Appearance	Off white, free flowing powder.	
02.	%age of PAC as (Na-CMC)	75 % (Minimum)	
03.	Degree of substitution	1.0 (Minimum)	
04.	pH of 1% solution (at 25 °C)	7 – 9 Approx.	
05.	Moisture content	10 % (Maximum)	
06.	Bulk Density, (g/L)	600-800	

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B) PERFORMANCE TESTS:

SR. NO.	PERFORMANCE TESTS	REQUIRED SPECIFICATIONS	EXACT VALUE OF THE OFFERED PRODUCT
01.	Apparent viscosity (cp) of 1% (w/v) suspension of product at 24±2 °C, prepared by stirring for 15minutes in Hamilton Beach Mixer at high speed in; I. Distilled Water II. 4% salt water prepared by dissolving 4gm LR grade NaCl in 100ml of distilled water.	20 CP (Maximum) 16 CP (Maximum)	
02.	Yield of 15cp (apparent viscosity) suspension, prepared by stirring for 15minutes in Hamilton Beach Mixer at high speed in; I. Distilled water II. 4% salt solution as prepared at 1(II).	90Cum/M.Ton (Min) 70 Cum/M.Ton (Min)	
03.	<u>Performance in fresh water mud:</u> (a) <u>Preparation of Base Mud</u> Prepare 10% Bentonite (w/v) suspension using API grade Bentonite in distilled water, age for 24 hrs at 90°C, dilute with distilled water, stir for 15 minutes in Hamilton Beach Mixer at high speed, treat with 10% NaOH solution to adjust pH 9.0-9.5. & Apparent viscosity 15-20 CP at 25°C. Also determine Yield Point & Water Loss. (b) Treat Base Mud at 3(a) with 0.5% (w/v) of PAC-LV. Stir for 15 minutes in Hamilton Beach Mixer at high speed. Divide into two parts. <u>Performance at 25°C .</u> i- Apparent Viscosity ii- Yield Point iii- API Water Loss	2.5 times of 3(a) (Max) 1.5 times of 3(a) (max) 50 % of 3(a) Max	

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	<p><u>Performance at 120°C .</u> Age second portion of the mud at 3(b) in hot rolled condition at 120°C for 24 hours. After aging, cool it down to 25°C , stir for 6 minutes in Hamilton Beach Mixer at high speed & determine</p> <ul style="list-style-type: none"> i- Apparent Viscosity ii- Yield Point iii- API Water Loss 	<p>2.5 times of 3(a) (Max) 1.5 times of 3(a) (max) 50 % of 3(a) Max</p>	
04	<p><u>Performance test in salt water mud:</u></p> <p>(a) <u>Preparation of Base Mud</u> Prepare 10% Bentonite (w/v) suspension using API grade Bentonite in 4% (w/v) salt water ^{distilled water} dilute with 4% ^{add 6% salt} water, age for 24 hrs at 90°C, stir for 15 minutes in Hamilton Beach Mixer at high speed, treat with 10% NaOH solution to adjust pH 9.0-9.5. & Apparent viscosity 15-20 CP at 25°C. Also determine Yield Point & Water Loss.</p> <p>(b) Treat Base Mud at 4(a) with 0.5% (w/v) of PAC-LV. Stir for 15 minutes in Hamilton Beach Mixer at high speed.</p> <p><u>Performance at 25°C .</u></p> <ul style="list-style-type: none"> i- Apparent Viscosity ii- Yield Point iii- API Water Loss 	<p>2 times of 4(a) (Max) 1.5 times of 4(a) (max) 25 % of 4(a) Max</p>	

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C) 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	

b/c

- D) Names of at least 07 clients / sales achievement (E & P companies only) other than OGDCL whom supplied the quoted product in bulk quantity (not less than 50 M.Ton) **with contract numbers and quantities during the last Five(05) years commencing from year 2010** as a proof of Five (05) years experience.

SR. NO.	NAMES OF CLIENTS WITH ADDRESS AND TELEPHONE NOS.	CONTRACT / PURCHASE ORDER NOS. WITH DATE	QUANTITY SUPPLIED (M.TON)
01.			
02.			
03.			
04.			
05.			
06.			
07.			

E) NECESSARY ATTACHMENTS FOR TECHNICAL BID:

SR. NO.	DESCRIPTION	ATTACHED/ PROVIDED OR NOT.
01.	Product Data Memorandums in original printed by manufacturer.	Attached/ Not attached
02.	Material Safety Data Sheets in original printed by manufacturer.	Attached/ Not attached
03.	Valid ISO-9001-2008 certificate for manufacturing / Production of the quoted product.	Attached/ Not attached
04.	Original authority letter issued by the manufacturer to bidder for quoting their product.	Attached/ Not attached
05.	Company profile with manufacturing capability & Experience of last 05 years.	Attached/ Not attached
06.	Lab evaluation report of the quoted product from an internationally reputed third party laboratory in the light of technical specifications sheet at A & Performance Test at B.	Attached/ Not attached.
07.	1 kg sample of offered product	Provided/ Not provided

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PACKAGING:

The chemical should be packed as **25 kg** net per bag in export quality new multi-wall paper bags having thick, high density inner polythene liner for rendering the material completely moisture proof. The material should be palletized as **01 M.Ton**, wrapped with thick polyethylene sheet and tightly strapped. The packaging of the required mud chemical should be of international standards and capable to safe transportation during ocean / road journey from port of shipment to well site and to withstand harsh weather conditions at the storage points and at the well sites / locations.

MARKING:

Each bag 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 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. 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 **180 Days.** The material must be delivered in 02 equal consignments. The first partial shipment should be made within 90 days after establishment of LC. However second partial shipment will be made within next 90 days after confirmation of acceptance of first partial shipment by OGDCL.
5. Technical bids will be evaluated strictly on the basis of TORs of this particular tender enquiry as well as track record of **Bidder, Manufacturer & Local Agent** and the bid will be declared technically non-responsive if the previous performance of any of the stated entities, all its associated subsidiary undertaking whether by way of common directorship , common management and control , share holding or direct or indirect control through directors prove to be unsatisfactory and accordingly stand disqualified from participating in OGDCL tenders or contracts.
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 **1 Kg 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 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 third party inspecting agency/ Lab. The inspectors will be hired by OGDCL. After physical inspection, one representative sample of 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. However if OGDCL intends to witness the TPI / visit the manufacturing facility, the vendor will be responsible to provide the "Invitation Letter" and facilitate the visit of the OGDCL Inspection Team. *however the expenditure incurred will be born by OGDCL*
11. In case of acceptance duly endorsed TPI report by OGDCL officials will be forwarded to the supplier through email followed original by courier. This will be the go ahead for shipment. Shipment is required to be made in containers for minimizing damages to the costly chemical.
12. 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.
13. 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.

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