

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

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

**ANNEXURE 'A**

**Material** CEMENT LAB EQUIPMENT  
**Tender Enquiry No** PROC-FE/CB/CMT-4983/2021  
**Due Date**  
**Evaluation Criteria** ITEM WISE

**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	HPHT CONSISTOMETER,INDEPENDENTLY OPERATED DUAL CELLS WITH EXTERNAL CHILLER CONNECTIONS,INPUT 220 VAC 50 HZ,PRESSURE 25,000 PSI,TEMP. 400F MAX, HEATER POWER MINIMUM 4000W,CUP ROTATION SPEED 150 RPM,AUTO SHUT OFF IP# IAS LAB EQUIPMENT	Number	1					
2	CONSTANT SPEED MIXER/BLENDER WITH 1 LITER VESSEL, INPUT 220VAC, SPEED SETTING 12000 RPM,VARIABLE SPEED CONTROL UPTO 18000 RPM, BUILT IN TIME RELAY WITH AUTO SHUT/OFF,SUPPLY WITH TRANSFORMER IF DESIGNED FOR LOW VOLTAGE	Number	2					
3	VISCOMETER, 12 SPEED 220V,DIRECT INDICATING, 12 MANUAL SPEEDS FROM 1 TO 600 RPM, 1,2,3,6,10,20,30,60,100,200,300,600 RPM, SUPPLY WITH SPRING: F1, ROTOR: R1, BOB:B1 WITH CALIBRATION KIT AND TRANSFORMER IF DESIGNED FOR LOW VOLTAGE	Number	2					
4	COMPRESSIVE STRENGTH TESTER, TWELVE (12) TON,MANUALLY OPERATED,TWO COLUMN HYDRAULIC LAB. PRESS,HEAVY RIGID STEEL CONSTRUCTION AND RAPID DAYLIGHT ADJUSTMENT WITH SAFETY SHIELD,OVERSIZE PRESSURE RELEASE VALVE,DUAL SCALE GUAGE READABLE	Number	1					

Note:

**NOTE:**

- 1.** Bid Validity: Bids must be valid for 180 days from the date of Technical Bid Opening.
- 2.** Bid Bond Amount:  
Item No. 1: USD 6,600/- (United States Dollar Six Thousand Six Hundred only) or equivalent Pak Rupees.  
Item No. 2: USD 400/- (United States Dollar Four Hundred only) or equivalent Pak Rupees.  
Item No. 3: USD 575/- (United States Dollar Five Hundred Seventy Five only) or equivalent Pak Rupees.  
Item No. 4: USD 455/- (United States Dollar Four Hundred Fifty Five only) or equivalent Pak Rupees.  
**Bid Bond must be valid for 210 days from the date of Technical Bid Opening. Bidders are advised to carefully read all clauses related to Bid Bond in Tender Document.**
- 3.** Evaluation Criteria: - Each Item Wise CFR Karachi
- 4.** Delivery Period: 150 days from establishment of LC
- 5.** Bidders are advised to carefully read all the terms and conditions of the Tender Document "Master Set of Foreign Tender Document (Press-Single Stage Two Envelop) – Updated" available on OGDCL website which is an integral part of this Schedule of Requirement

ANNEXURE-A

**TECHNICAL SPECIFICATIONS**  
**OF**  
**CEMENT LABORATORY EQUIPMENT(S)/INSTRUMENTS**

Each bidder should fill-in the tables given below with the properties of their quoted instrument / product. Only to write "CONFORMING TO" or "OK" will not be sufficient.

1- VISCOMETER 12 SPEED (02 No's)				
REQUIRED TECHNICAL SPECIFICATION	SPECIFICATIONS OF OFFERED INSTRUMENT / PRODUCT	MANUFACTURER / MAKE/YEAR OF MANUFACTURING	MODEL NO	COUNTRY OF ORIGIN
<ul style="list-style-type: none"> <li>➤ Operating Condition: 75-194 °F.</li> <li>➤ 12 preset API test Speeds (RPM) 600,300,200,100,60, 30,20,10,6,3,2 and 1.</li> <li>➤ Supply with Rotor R1, Bob B1, Spring F1, Thermo Cup and Calibration kit.</li> <li>➤ Shear rate accuracy ±0.01 RPM</li> <li>➤ Torque Accuracy: ±0.5 dial reading 1-260 degree</li> </ul> <p><b>Voltage:</b> 220 Volts, if instrument is designed to operate at lower Volts then Transformer should be quoted within the price of main item to convert to 220V, 50Hz.</p>				

**2- CONSTANT SPEED MIXER (02 No's)**

<i>REQUIRED TECHNICAL SPECIFICATION</i>	<i>SPECIFICATIONS OF OFFERED INSTRUMENT / PRODUCT</i>	<i>MANUFACTURER / MAKE/YEAR OF MANUFACTURING</i>	<i>MODEL NO</i>	<i>COUNTRY OF ORIGIN</i>
<ul style="list-style-type: none"> <li>➤ The API standard setting speed of 12,000 including variable speeds upto 18,000 RPM.</li> <li>➤ Speed Selection Switch: 3 push button switches to quickly select the desired speed.</li> <li>➤ Adjustable Speed: From 1000- 18000 rpm.</li> <li>➤ Speed is displayed directly in RPM.</li> <li>➤ Maintain constant shear rate during mixing of cement slurry.</li> <li>➤ Built in timing relay with automatic shut-off.</li> <li>➤ Stainless steel blades and mixing container of one liter</li> </ul> <p><b>Voltage:</b> 220 Volts, if instrument is designed to operate at lower Volts then Transformer should be quoted within the price of main item to convert to 220V, 50Hz</p>				

**3- MANUAL COMPRESSIVE STRENGTH TESTER (01 No)**

<i>REQUIRED TECHNICAL SPECIFICATION</i>	<i>SPECIFICATIONS OF OFFERED INSTRUMENT / PRODUCT</i>	<i>MANUFACTURER / MAKE/YEAR OF MANUFACTURING</i>	<i>MODEL NO</i>	<i>COUNTRY OF ORIGIN</i>
<ul style="list-style-type: none"><li>➤ Manual compressive strength tester to crush the cubed shape cement slurry sample.</li><li>➤ Two-column hydraulic lab Press with clamping capacity up to 12 Tons.</li><li>➤ Heavy rigid steel construction and rapid daylight adjustment with safety shield.</li><li>➤ Oversize pressure release valve.</li><li>➤ Extension handle.</li></ul> Heavy duty cylinder and dual scale gauge readable in M/Ton & Pounds				

**4- HTHP DUAL CELL CONSISTOMETER (01 No)**

<i>REQUIRED TECHNICAL SPECIFICATION</i>	<i>SPECIFICATIONS OF OFFERED INSTRUMENT / PRODUCT</i>	<i>MANUFACTURER / MAKE/ YEAR OF MANUFACTURING</i>	<i>MODEL NO</i>	<i>COUNTRY OF ORIGIN</i>
<ul style="list-style-type: none"> <li>➤ API standard two independently operated test cells with digital temperature and pressure control.</li> <li>➤ External chiller connection /jackets quickly cools test cells.</li> <li>➤ Temperature, pressure and consistency alarms provide automatic shutdown for safety.</li> <li>➤ Max. Temperature: 400 °F. (200 °C)</li> <li>➤ Max. Pressure:25,000 psi.(170 MPa)</li> <li>➤ Heater: 4,000-5000 Watts.</li> <li>➤ Cup rotation: 150-160 RPM.</li> <li>➤ Viscosity range: 0 - 100 Bc.</li> <li>➤ Digital temperature controller.</li> <li>➤ Pressurizing Medium: white mineral oil</li> <li>➤ Precision magnetic drive assembly.</li> <li>➤ Air driven hydraulic pump for pressure generation.</li> <li>➤ Input voltage: 240 VAC ±15 % 50/60 Hz</li> <li>➤ Input Power : 7.5 Kva</li> </ul> <p><b>Voltage:</b> 220 Volts, If instrument is designed to operate at lower Volts then Transformer should be quoted within the price of main item to convert to 220V, 50Hz.</p>				

## INSTRUCTION TO THE BIDDERS / TERMS & CONDITIONS

1. All the quoted instruments / equipment(s) supplies must be in accordance with API or ISO specifications and API recommended practices for manufacturing of quoted Cement Laboratory items.
2. All Equipment(s) should be brand new, unused and latest model
3. PCs, data acquisition and control software system etc. shall be quoted inclusive of major equipment(s)/instruments.
4. Technical literature / complete set of brochures/ Service manual/ parts catalogue/drawing (electrical & piping) of the offered equipment(s) and accessories/ spares specifying Model, type & part no's, in original should be submitted with the technical bid.
5. Declaration by the manufacturer/Bidder in favor of the local agent for back up services regarding repair, maintenance, troubleshooting and supply of optional accessories and spares for quoted product for at least one year.
6. The manufacturer must have minimum fifteen (15) years certified experience in the manufacturing of quoted equipment(s), evidence of this fact must be submitted with the technical offer. Certificate of incorporation in this regard must be submitted. The supply record should contain detail of equipment(s), quantity, name & contact number of customer, year of supply (supply record of **irrelevant** items or **incomplete** will not be acceptable).
7. Country of manufacturing for each product will have to be mentioned clearly.
8. 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.
9. Hard copies as well as one set in soft format (readable CD) each of operational manual, service manual, maintenance manual and part catalogue of each equipment to be provided by the bidder with the consignment. Confirmation to this effect to be provided with the technical offer.
10. Authority letter in original covering 12 month warranty / guarantee of equipment from the date of installation or 18 month from the date of delivery of Equipment(s) to be provided by the manufacturer.
11. Prior to shipment of equipment(s)/instruments, supplier will be responsible to facilitate for 3rd party inspection, as per tender specifications. (3rd party inspection shall be arranged by OGDCL at its own cost).
12. The final acceptance of the consignment will be made after physical inspection at OGDCL base Store (KBS).



13. All submitted bids will be evaluated strictly on the basis of TORs of such particular tender enquiry.
14. All the equipment(s) should be boxed & packed in compact manner to ensure safe transportation during shipment. Confirmation to this effect, should be provided with the technical offer.
15. Delivery period should not be more than 150 days after the establishment of LC.
16. **SPARES:**
- 1) Bidders are required to submit the unpriced list of 02 year necessary operational /maintenance spares separately with technical bid.
  - 2) Priced list of recommended spares with unit cost of each recommended spare must be submitted with the financial bid only.
  - 3) Recommended spares will not be the part of the financial bid.
17. **EVALUATION CRITERIA:** Technical and financial evaluation will be carried out on "Item Wise basis". Technically responsive and financially lowest bidder will be awarded contract.

@H

P. D. P. L.