

**Clarification#1 against tender # PROC-SERVICES/CB/EXPL-4594/2019
HIRING OF SERVICES FOR LAB. ANALYSIS OF ROCK SAMPLES (CORE AND CUTTINGS)**

Query/ Clarification Bidder		Responded by OGDCL
Ref. to TOR/SOW document, 1.2- Services/Analysis at Base lab,	1. Core handling, sampling, preservation where as in commercial format no such line item has been defined. As these services have cost impact, can a bidder quote for this and will it be made a part of commercial table.	Please refer to TOR 2.3. It is mentioned that bidder will collect the core samples from OGDCL core house Islamabad. It is assumed that after examining the core selected core samples/plugs will be dispatched only instead of complete cores
	2. Core and other data Transportation/shipping cost has not been mentioned in the commercial table. Please clarify if bidder can quote for this in commercial table	
	3. Integrated Reports involves time and effort of subject matter experts which also has a cost impact. Please clarify if bidder can quote for it and will it be made part of commercial table.	No
Ref. to TOR/SOW document, Section 2 - General Terms and Conditions,	1. Point # 2.25 Please specify the number of copy of draft/final reports.	3 Each
	2. Point # 2.27 – Please specify the number of hard copies.	3 Each
	3. Point # 2.28 Core handling, sampling, preservation; In commercial format no such line item has been defined. These services have a cost impact. Please clarify if bidder can quote this and will it be made a part of commercial evaluation.	No
Ref.to TOR/SOW document, Table-6 - Additional Analyses	1. For any Additional Analyses which are required for exploration and development of unconventional hydrocarbons (Tight Gas/Shale Gas), Can bidder quote for these additional analyses in the commercial bid.	No
Ref.to TOR/SOW document, Table-8 - Financial Bid Format	1. Sr. No 8.2. is a combination of the core description and thin section description. This is best separated and quantities for each provided separately (i.e. number of thin section numbers and length of core to be described (ft or meters). Please clarify as currently it says 500 (is this number of thin sections or meterage of core or both?)	Each meter of described core may have minimum 1 thin section (if necessary). Cores may be described as per SOP to evaluate Shale Gas Reservoir.
	2. Sr. No 8.2. No line item is given to reporting or interpretation of core sedimentology or petrography/diagenesis.	
	3. Sr. No 8.2. Is an integrated report on the sedimentology and petrography required on a per well basis? If yes, please detail what is expected (e.g. facies analysis, depositional model, integration of diagenesis, reservoir quality analysis (cross plots) etc)	Yes
	4. Sr. No 8.2. Is a 1:200 scale well summary sheet with the depth shifted core description, wireline data and other core derived data (CCA) presented on it required? If yes, is sedimentological interpretation of the uncored interval required?	No and sedimentological interpretation of the cored interval is required
	5. Sr. No. 8.4. XRF is for analysis while Chemostratigraphy is separate. Please specify if bidder can quote them separately.	Bidder can quote separately but it will be accounted in XRF.
	6. Sr. No 8.8. CT scanning can be performed in Regional Labs. There is a requirement of embedment test which falls under formation damage and will be performed in another facility. Please specify if bidder can quote separately for those 2 services?	Bidder can quote separately but it will be accounted (cumulatively) in Computer Tomography (CT) Monitored Fracture Conductivity and Embedment Test on a plug sample (Sr. No 8.8.).
	7. In Item 8.9 there is a requirement of capillary pressure only, please specify the method?	Mercury injection method
	8. In Item 8.10 there is a requirement of capillary pressure by centrifuge, please specify the test conditions.	Air-Brine, Oil-Brine 2000psi? or at reservoir pressure and temperature

	<p>9. In Item 8.17 there is a c term for Geomechanics is mentioned, please specify the tests required by OGDCL under the broad term Geo-mechanical properties</p>	<p>Normally standard industry practice for geomechanical analyses of cores are following.</p> <ul style="list-style-type: none"> • Ultrasonic Velocities and Elastic Parameters (static and dynamic mechanical properties (compressive strength, Young's modulus, Poisson's ratio, bulk modulus, and shear modulus). • Brinell Hardness.
	<p>10. Core Slabbing, plugging hasn't been mentioned in financial table. Can bidder quote them as these services are integral part of conventional core analysis work.</p>	<p>Normally Slabbing and plugging can be carried out in OGDCL facility. However bidders can quote their rates other than commercial format.</p>
	<p>11. Training - Table 1 Training. Please clarify if the number of days training is split between Sr. No. items in each category (e.g. is 20 days training for Category 1 shared between Sr Nos 1-6, or 20 on each Sr No?</p>	<p>Please refer to 3.2 and 3.3.</p>