

CLARIFICATION#3 AGAINST TENDER # PROC-SERVICES/CB/RMD-4128/2018- ENHANCED OIL RECOVERY (EOR) STUDY OF RAJIAN OIL FIELD

Following Clarifications have been made in the subject tender:-

S. No.	Bidder's query	OGDCL reply	Bidder's query	OGDCL reply
1	Downhole Single-phase sample is required for the Asphaltene screening test. Could OGDCL may confirm if the sample is available meeting the requirement?	Required sample will be available at the time of study.	Please confirm if OGDCL will provide the Asphaltene dispersant or inhibitors for testing?	It is very clear in the TOR that all required tests have to be performed by the consultant and no ambiguity is in TOR as the tests, what so ever material is to be used is on the part of consultant
2	In the TOR, OGDCL mentioned the availability of 4 cores. Would OGDCL be able to confirm if these cores are representative of producing intervals in the respective reservoirs?	Yes, the cores are of reservoir section.	No core is available for Tobra / Jutana Reservoir. In the absence of core, EOR screening and ultimately core flooding tests will not be possible. This reservoir will only be studied for Flow assurance. Pls clarify.	Yes, cores for Tobra/Jutana are not available with OGDCL, therefore, consultant will have to design strategy for alternate methods to give results.
3	As per the well wise production table given in the TOR, no well seems completed in Sakesar. Would OGDCL confirm if Sakesar	Rajian-2 has been tested in Sakessar Formation having Qo=1500 bpd, Qg=Nil,	It is requested to provide layer wise Reserves / OOIP and production (Layer wise allocated) till to date.?	All other minor details will be made available after award of study.

	has been tested successfully? If yes, what were the production potential?	WHFP=300 psi at 32/64" choke size.		
4	Latest Simulation Model for EOR screening will be provided by OGDCL, Would that final history matched model is the same as the original Geocellular Static Model or has it been upscaled during HM.	It is upscaled model.	Upscaled Model may not serve the purpose for EOR Simulation; hence, provided Dynamic model may not be used. In such a case, the consultant has to initialize Static Model and build a new simulation Model that would serve best to EOR Dynamics. This exercise may take 3-4 additional months. It is requested that TAT for the Phase-1 need to be extended from 4 months to 8 months keeping in view this newly identified additional SOW.	In TOR it's clear that OGDCL has black oil model and all black models doesn't cover the reservoir heterogeneities and in compositional model for EOR screening all heterogeneities of reservoir composition has to be taken in consideration. In TOR its clear what ever work has to done should be carried out and should bid accordingly. Regarding Time of study many companies had shown reservation that time schedule is too tight therefore OGDCL is of view 3 months' time extension in study time is reasonable. The study total time is amended to 14 months instead of 11 months.
5	If it has been upscaled, there would be compromise on the	Consultant has to run compositional simulation	It is clear now that Consultant has to build a new fit for	As requested 3 months' time in study has been added now time is

	<p>true picture of the reservoir from EOR prospective. How OGDCL would like to handle this limitation?</p>	<p>model instead of Black Oil Model on which previous simulation has been done. Consultant should adjust it accordingly as per their requirement.</p>	<p>purpose dynamic model. OGDCL need to give additional 4 months for this task.</p>	<p>14 months for completion of study.</p>
6	<p>If the Simulation model provided by OGDCL requires to be re-build, How OGDCL would like the consultant to handle it and what will be the mechanism to allow the additional time and cost for this process?</p>	<p>It is cleared in scope of work. Visit Scope of Work.</p>	-	<p>No work is additional, consultant should work out the amount of work and bid accordingly, however, keeping in view concerns of interested companies, 03 months' time is allowed and added to study total time.</p>
7	<p>The SOW is quite open-ended as far as EOR methodologies and associated lab tests are concerned. Having not specified required number of core / plugs subjected for lab analyses, It is difficult to predict lump sum cost for the whole project. Would OGDCL like to share the list of Specific tests/ analyses and their quantities so that bidders can</p>	<p>We are not in picture that how many tests have to be conducted. Bidders from their past experience of work can work out how many tests would be required to give conclusive results and should work out their bid accordingly. As is TOR we have asked bidders</p>	<p>Neither quantity nor the condition of lab testing defined and these both can severely affect the turnaround time of the tests. Without some lab tests, Dynamic model cannot be initialized. In such a scenario, time of the Phase-1 should be</p>	<p>Consultant keeping in view scope of work, should workout quantity of lab tests required to be performed for giving conclusive results from their past experience.</p>

	quote the unit price and corresponding total cost.	to quote lump sum price of techniques.	effective from the date of receiving the lab tests.	
8	Have OGDCL conducted any gas lift or acidizing work in the field ?	No gas lift has been applied in the field. Acid job has been done both in carbonate and clastics.	-	-
9	Pls provide average values of porosity and permeability for each reservoir and if the reservoir has single or dual porosities systems?	Porosity range from 2-15% (both)	-	-
10	As the SOW is mainly dependent on previous static and Dynamic Models of Rajian oilfield. We would like to review these models / reports prior to the submission of bid proposal. Pls confirm the availability for the same.	Reports could not be shared at this point of time.	-	-