

CLARIFICATION#2**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
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.
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.
3	How many of each test, OGDCL is planning to perform on the available cores/ plugs?	As in TOR it is mentioned that consultant will have to design his testing strategy to give conclusive results and has to quote prices accordingly.
4	As per the well wise production table given in the TOR, no well seems completed in Sakesar. Would OGDCL confirm if Sakesar has been tested successfully? If yes, what were the production potential?	Rajian-2 has been tested in Sakessar Formation having $Q_o=1500$ bpd, $Q_g=Nil$, WHFP=300 psi at 32/64" choke size.
5	Would OGDCL confirm which wells / Formation are posing Asphaltene challenges? It would be appreciate if the brief background of each well may be shared with respect to the production challenges.	Tobra/Jutana Formations are presently causing asphaltene problems.
6	Pls provide the Reservoir temperature and pressures (Initial & Current) for each reservoir.	Details attached.
7	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.
8	If it has been upscaled, there would be compromise on the true picture of the reservoir from EOR	Consultant has to run compositional simulation model instead of Black Oil

	prospective. How OGDCL would like to handle this limitation?	Model on which previous simulation has been done. Consultant should adjust it accordingly as per their requirement.
9	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?	It is cleared in scope of work. Visit Scope of Work.
10	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 quote the unit price and corresponding total cost.	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 workout their bid accordingly. As is TOR we have asked bidders to quote lump sum price of techniques.

RAJIAN OIL FIELD

Pressure = Datum 3500

WELL	DATE	TEST TYPE	FORMATION	P * @ DATUM DEPTH (Psi)	Temperature (Deg F)
Rajian # 01	10-Jul-94	Open Hole DST	Kussak/Tobra & Khewra	6280	230
	31-Mar-95	Extened / Flow Test	Khewra	5738	230
	12-Dec-05	Press. Build Up	Khewra	5373	255
	15-Apr-11	Press. Static Survey	Khewra	4743	
Rajian # 02	13-May-95	Drill Stem Test	Sakessar / Chorgali	6517	239
	30-Jul-04	Multi Flow rate	Tobra	5100	245
	17-Dec-05	Press. Build Up	Tobra	4827	246
	14-Jul-10	Press. Static Survey	Tobra	4412	
	22-Jul-11	Press. Static Survey	Tobra	4571	
Rajian # 03-A	20-Jan-97	Open Hole DST Barefooted	Chorgali	6473	239
	2-Mar-97	Drill Stem Test	Khewra	6483	242
	3-Apr-00	DST#01(Workover)	Khewra	6115	252
	10-Apr-00	DST#02(Workover)	Jutana	6196	248
	16-Apr-00	DST#03(Workover)	Tobra	6201	229
	25-Dec-05	Press. Build Up	Jutana	5856	248
	17-May-07	DST#01(Workover)	Khewra	5708	240
Rajian # 04	23-Aug-01	RFT	Tobra	5957	
	23-Aug-01	RFT	Khewra	6307	240
Rajian # 04-A	8-Mar-07	DST#01(Workover)	Khewra	5747	
	16-Mar-07	DST#02(Workover)	Jutana	5750	
	22-Mar-07	DST#03(Workover)	Tobra	5572	236
Rajian # 05	27-Jul-10	Pressure Build Up	Khewra	5101	251.5
Rajian # 06	12-Feb-12	Pressure Build Up	Khewra	4924	254
Rajian # 07	14-Sep-13	DST-1	Khewra	3940	184
Rajian # 08	24-Aug-14	Press. Static Survey	Tobra/Jutana	5611	246