

# Clarification No. 02

## TENDER ENQUIRY NO. PROC-SERVICES/CB/WS-4975/2021

### HIRING OF HIGH PERFORMANCE MUD ENGINEERING SERVICES CONTRACT FOR A PERIOD OF TWO (02) YEARS ON AS & WHEN REQUIRED BASIS

One of the Prospective bidders has made a query against the subject Tender Enquiry. The query along with OGDCL reply is given below for information of all the prospective bidders.

<b>CLARIFICATION / QUERY</b>	<b>OGDCL REPLY</b>
<p><b>Query # 01:</b></p> <p>1. OGDCL to clarify whether we need to submit all WBM mud types proposals (example in below box) for each section as mentioned on page 13-15, or just need bidder's recommendation for said section with <b>ANY</b> of the systems mentioned for WBM.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"><p>KLS-KL Mud / Salt Saturated Mud/ High Performance Mud System</p></div>	<p>Bidders are required to submit only recommended Mud Program for each section of reference wells on page 13-15.</p>
<p><b>Query # 02:</b></p> <p>2. In tender document OGDCL just mentioned Temperature Range between 1450 - 4500 F at well T.D in page # 3 Paragraph-2. To design the Mud system we will need section wise BHT for products to be used accordingly.</p>	<p>Please note that temperature range on Page-3 is <math>\pm 150 - 450</math> °F. Moreover separate sheet is attached herewith for tentative section wise BHT for reference purpose only.</p>
<p><b>Query # 03:</b></p> <p>2. To conduct several types of SHALE TEST for HPWBM on Actual shale samples. In PAGE # 18 &amp; 41. Please advise how to obtain the samples for these tests. Many of these tests to be performed in Houston lab so urgency is requested in this matter.</p>	<p>The shale testing for HPWBM on Actual shale cuttings will be carried out during execution of contract and not during technical evaluation. During execution of contract actual shale cuttings will be provided by OGDCL.</p>

**SECTION WISE TENTATIVE BOTTOM HOLE TEMPERATURE FOR REPRESENTATIVE WELLS IN NORTH, CENTER & SOUTH REGIONS FOR REFERENCE ONLY WHICH MAY VARY DEPENDING UPON ACTUAL DEPTH & TEMPERATURE OF ANY SPECIFIC WELL IN REGION.**

**(NORTH REGION)**

<b>Phase No.</b>	<b>Hole Size (Inch)</b>	<b>Interval (M)</b>	<b>CSG Size (Inch)</b>	<b>Tentative BHT (Degree Centigrade)</b>
I	28"	0 - 400M	24-1/2"	-
II	22"	400 - 1230 M	18-5/8"	40 – 80 °C
III	17"	1230 - 2560M	13-3/8"	80 - 130 °C
IV	12-1/4"	2560 - 4650M	9-5/8"	130 – 210 °C
V	8-1/2"	4650 - 5412M	7" Liner	210 – 245 °C

**(CENTER REGION)**

<b>Phase No.</b>	<b>Hole Size (Inch)</b>	<b>Interval (M)</b>	<b>Csg Size (Inch)</b>	<b>Tentative BHT (Degree Centigrade)</b>
I	28"	0-410	24 ½"	-
II	22"	410-910	18 5/8"	40 – 60 °C
III	17"	910 - 1745	13-3/8"	60 - 90 °C
IV	12-1/4"	1745 - 3150	9-5/8"	90 – 140 °C
V	8-1/2"	3150 - 4100	7" Liner	140 – 170 °C
VI	5-7/8" or 6"	4100 - 4900	5" Liner	170 – 200 °C

**(SOUTH REGION)**

<b>Phase No.</b>	<b>Hole Size (Inch)</b>	<b>Interval (M)</b>	<b>Csg. Size (Inch)</b>	<b>Tentative BHT (Degree Centigrade)</b>
I	26"	0- 300	20"	-
II	17-1/2"	300 - 1390	13-3/8"	40 - 60 °C
III	12-1/4"	1390 - 3000	9-5/8"	60 – 100 °C
IV	8-1/2"	3000 - 3740	7" Liner	100 – 200 °C