

## **CORRIGENDUM**

- 1.0 Amendment No. 3 dated 27.08.2016 has been issued to incorporate changes to Tender Clauses which is to be read as under. Clarification to certain clauses with reference to pre-bid queries has also been incorporated as under.
- 2.0 The Bid Closing Date, Technical Bid Opening Date of the Tender and Tender Document Sale Period has also been extended as under :

Bid Closing Date & Time : 20.09.2016 at 11-00 hrs. (IST)

Technical Bid Opening Date & Time : 20.09.2016 at 15-00 hrs. (IST)

Tender Sale Period : 13.06.2016 to 13.09.2016

<b>Srl. No.</b>	<b>Clause No.</b>	<b>Existing Clause</b>	<b>Amended Clause</b>	<b>Clarification</b>
1	<b>Part - 3, Section-I, GCC Clause 9.2 (e)</b>	Clause 9.2 e) Automobile Public Liability Insurance covering owned, non-owned and hired automobiles used in the performance of the work hereunder, with bodily injury limits and property damage limits as governed by Indian Insurance regulations.	Clause 9.2 e) of Section I, Part - 3, GCC to be read as under :-  9.2 e) Automobile Public Liability Insurance covering owned and hired automobiles used in the performance of the work hereunder, with bodily injury limits and property damage limits as governed by Indian Insurance Regulations.	-
2	<b>Part - 3, Section I, GCC Clause 11.3</b>	Clause 11.3 Should 'force majeure' condition as stated above occurs and should the same be notified within seventy two (72) hours after its occurrence the 'force majeure' rate shall apply for the first 10(ten) days. Either party will have the right to terminate the Contract if such 'force majeure'	Clause 11.3 of Section I, Part - 3, <b>GCC</b> to be read as under :- 11.3 Should 'force majeure' condition as stated above occurs and should the same be notified within seventy two (72) hours after its occurrence the 'force majeure' rate shall apply for the first 15 (fifteen) days. Parties will have the	-

		conditions continue beyond 10 (ten) days with prior written notice. Should either party decide not to terminate the Contract even under such condition, no payment would apply after expiry of ten-(10) days force majeure period unless otherwise agreed to.	right to terminate the Contract if such `force majeure' conditions continue beyond 15 (fifteen) days with prior written notice. Should either party decide not to terminate the Contract even under such condition, no payment would apply after expiry of 15(fifteen) days force majeure period unless otherwise agreed to.	
3	<b>Part - 3, Section III, SCC 2<sup>nd</sup> para of Clause 6.5</b>	<b>Casing and Cementing:</b> Lowering and cementing of all casings is Contractor's responsibility. Contractor shall use best effort and methods to run and set casings of the sizes, weights/ grades and at depths as instructed by the Company. Contractor shall allow cement to set over a period of time as specified by the Company. During such time, Contractor shall assemble blowout prevention equipment and test the same in a manner satisfactory to Company and otherwise make preparation for subsequent work. After cement has set, casing shall be tested in a manner satisfactory to Company, and Contractor shall continue such testing until results satisfactory to Company are secured. Any re-cementing or	-	It is hereby clarified that lowering of casing is Contractor's responsibility. Cementing will be done by Cementing & BHP Service Provider engaged by OIL. However, Contractor shall provide all necessary assistance for safe & timely execution of cementing operation.

		repairs to casing will be done at Company's discretion. Cementation of all stages of casings shall be carried out by using company's hired cementing service.		
4	<p><b>Part – 3, Section– II, SOW SPECIFICATIONS OF DRILLING RIG</b></p> <p><b>7.1- Group-I Clause No.(H), Srl. 1,5,6 &amp; 7</b></p>	<p><b>(H) SLUSH PUMPS:</b></p> <p>1. Two (2) nos. of triplex single acting /duplex double acting slush pumps with input HP rating of not less than 1000 HP (736 KW) driven by DC motors of matching HP rating. ....</p> <p>One (1) no extra pump of same type and capacity shall be made available by the Contractor exclusively for the horizontal well for about one (1) month because of requirement of high flow rate in 12.1/4" hole section. Bidder should take note of this while quoting. ....</p> <p>5. Each slush pump should be complete with one Pressure gauge (preferably of OTECO Make), 0 - 6000 PSI range with 2" (50 mm) line pipe female connection and a 2" (50 mm) flex seal valve (preferably of OTECO</p>	- - - -	<p>Not on call-out basis. To be provided along with the Rig Package.</p> <p>Considering requirement of flow rate in horizontal wells, total requirement of horse-power of pumps should be 2800 HP. Along with two (2) nos. 1000 HP pumps, third pump of 800 HP (min) is acceptable.</p> <p>3<sup>rd</sup> pump need to be provided along with the Rig Package as the same shall be in use for a few months.</p> <p>It should be preferably of 'OTECO' make. Pressure Gauges of other reputed makes are also technically acceptable.</p>

		<p>Make) for isolation of the gauge.</p> <p>6. Drive mechanism must be specified by the Bidder (belt drive preferable).</p> <p>.....</p> <p>7. Two (2) nos. AC motor driven centrifugal supercharging pump (to handle mud up to 16 ppg) with appropriate independent suction and delivery manifold suitable for slush pumps.</p> <p>One more AC driven centrifugal supercharging pump will be required exclusively for the third pump to be used during drilling of Horizontal Well (12.1/4" hole section).</p>		<p>"Belt Drive" is preferable. Chain drive is also technically acceptable.</p> <p>3<sup>rd</sup> AC driven centrifugal supercharging pump need to be provided along with the Rig Package as the same shall be in use for a few months.</p>
5	<p><b>Part – 3, Section– II, SOW SPECIFICATIONS OF DRILLING RIG</b>  <b>7.1- Group-I</b>  <b>Clause No.(J),</b></p>	<p><b>POWER PACKS/ RIG ALTERNATORS .....</b></p>	-	<p>Both DC &amp; AC power-packs are required for Diesel Electrical Rig. For Diesel Mechanical Rig, only AC power-pack is required for auxiliary AC Motors. In the Tender Document, DC Power-Pack is elaborated.</p>
6	<p><b>Part – 3, Section– II, SOW</b>  <b>7.2- Group –II</b>  <b>BOP STACK AND WELL CONTROL EQUIPMENT:</b></p>	<p><b>Clause No.(A)</b>  <b>BOP STACKS / SPOOLS/FLANGES</b>  (3000/5000 psi surface BOP Stack as per OISD- RP 174):</p> <p>21.1/4" x 3,000 psi Annular BOP – 1 no. with flange of 21.1/4" x 3 M</p>	<p>The following Note is incorporated against Clause No.(A), Group-II, 7.2</p> <p>Note : 21.1/4"x 2 M Annular BOP is technically acceptable.</p> <p>In that case, DSA/Cross-over Spool</p>	-

	<p><b>Clause No.(A)</b></p>	<p>(Cameron/Shaffer/Hydril/NOV/ Any other reputed make).  .....  One Double Ram BOP, 7.1/16” x 5,000 psi (Cameron/Shaffer /Hydril/NOV/Any other reputed make) having top and bottom flange of 7.1/16” x 5 M working pressure with side outlets (4 nos.) complete with at least 2 (two) nos. 2.1/16” x 5 M flanged/studded side outlets (i.e. one beneath each set of ram), ring joint gaskets, studs &amp; nuts, blind flanges with required ring joint gasket, stud &amp; nuts and with 2.7/8” pipe and blind rams – one (1) pair each.  .....  <u>Cross-over/adapter flange:</u>  Double studded cross-over/adapter flange - 11” x 5000 psi bottom &amp; 7.1/16” x 5000 psi top with ring joint gaskets, studs &amp; nuts etc.  Cross-over/adapter spool with bottom flange of 20.3/4” x 3,000 psi and top flange of 21.1/4” x 3,000 psi with two side outlets of</p>	<p>of 20.3/4” x 3 M – 21.1/4” x 2 M is required as Casing Head Housing (supplied by OIL) is of 20.3/4” x 3 M rating. Spacer Spool &amp; Drilling Spool to be supplied by Contractor shall be of 21.1/4” x 2 M rating.</p>	<p>Bottom flanged &amp; top studded is technically acceptable but both end studded is not acceptable.</p> <p>21.1/4” x 2 M BOP is acceptable. However, the change spool 21.1/4” x 2 M to 20.3/4” x 3 M adaptor spool is to be provided.</p>
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		size 3.1/16" flange with 2" female line pipe thread in the same horizontal plane but in opposite direction. The spool shall be complete with ring joint gasket, studs & nuts, blind flange/bull plugs etc. .....		
7	<p><b>Part – 3, Section– II, SOW</b>  <b>7.2- Group –II</b>  <b>CHOKE &amp; KILL SYSTEM:</b></p> <p><b>Clause No.(B)</b></p>	<p><b>Clause No.(B)</b>  <b>CHOKE &amp; KILL SYSTEM</b> (As per OISD-RP 174))</p> <p>i) One set of 3.1/16" x 5,000 psi or 3.1/8" x 5000 psi choke manifold rigidly supported with two manually and one hydraulically operated adjustable chokes including buffer tank and control console mounted on derrick floor showing all necessary parameters.</p> <p>ii) The Drilling Spool should have side valves consisting of two each of manually operated and hydraulically operated gate valves on two sides, size – 3.1/16" x 5,000 psi or 3.1/8" x 5,000 psi along with one number of check valve on kill line side.</p> <p>iii) BOP side valves – One gate valve and one check valve</p>	<p>The following Note is incorporated against Clause No.(B), Group-II, 7.2</p> <p>(i) Note : One each of manually and hydraulically operated choke valve in the choke &amp; Kill Manifold is also acceptable as per OISD RP – 174 guidelines for 3.1/8" x 5,000 psi choke manifold.</p> <p>-</p> <p>(iii) Note : Casing Head Housing will be provided by OIL. BOPs should have</p>	<p>-</p> <p>Choke line and Kill line to be fitted on two opposite sides of Drilling Spool &amp; kill line should have one check/non-return valve.</p> <p>BOP shall have the provisions (side out-lets) for connection of choke &amp; kill line. Size of the valve should be 3.1/8" x 5 M.</p>

		<p>on kill line side, size 3.1/8" x 5,000 psi.</p> <p>iv) .....</p>	<p>side out-lets/provision for connecting choke line &amp; kill line if need arises. Normally, these are connected to Drilling Spool.</p>	
8	<p><b>Part – 3, Section– II, SOW</b>  <b>7.3- Group –III</b>  <b>DRILL COLLARS &amp; HEAVY WEIGHT DRILL PIPE</b>  <b>Clause No (B),</b></p>	<p><b>Clause No (B),</b></p> <ul style="list-style-type: none"> <li>·01 (One) No. 9.1/2"- 10" OD, 3" ID, slick drill collar of 15 ft. length, with API 7.5/8" regular connections, having bore back box up &amp; down connection with slip recess &amp; complete with suitable lifting plugs.</li> <li>·03 (Three) Nos. 9.1/2"- 9.5/8" OD, 3" ID, 30 feet drill collar with API 7.5/8" regular connections.</li> <li>.....</li> <li>·22 (Twenty two) Nos. extra of above item (HWDPs) shall be required exclusively for drilling horizontal well.</li> <li>.....</li> </ul>	<p>Requirement of only 15 ft -9.1/2" D/C is dropped from SOW.</p> <p>-</p>	<p>-</p> <p>Not on call-out basis. To be supplied along with Rig Package.</p>
	<p><b>Part – 3, Section– II, SOW</b>  <b>7.3- Group –III</b>  <b>TUBULAR AND HANDLING GEARS</b>  <b>Clause No (D),</b></p>	<p><b>(D) ONE NO. MINIMUM (WITH NECESSARY BACK UP PROVISSION) 5.1/4" HEXAGONAL OR 4.1/4" HEXAGONAL/SQUARE KELLY</b></p>	<p>The Clause to be read as under :</p> <p><b>(E) ONE NO. MINIMUM (WITH NECESSARY BACK UP PROVISSION) 5.1/4" HEXAGONAL OR 4.1/4"</b></p>	<p>-</p>

	<p><b>WITH THE FOLLOWING:</b> (THIS IS THE MINIMUM INVENTORY TO BE MADE AVAILABLE AT ALL TIMES)</p> <ul style="list-style-type: none"> <li>· Upper Kelly Cock - Pressure rating 5000 psi WP (total 2 nos.) with required end connections.</li> <li>· Lower Kelly Cock - Pressure rating 5000 psi WP (total 2 nos.) with required end connections.</li> <li>· Kelly scabbard with suitable clamps for 5.1/4" hexagonal or 4.1/2" square/hexagonal kelly offered by the Bidder.</li> <li>· Kelly grief sub – adequate nos. for uninterrupted drilling operation.</li> <li>· Kelly protector sub – 2 nos. with spare rubber protectors.</li> <li>· All tubular, rotary substitutes shall be NDT inspected as per API standard prior to mobilization. <u>Contractor shall provide documentary evidence for the same before mobilization.</u></li> </ul>	<p><b>HEXAGONAL/SQUARE KELLY WITH THE FOLLOWING:</b> (THIS IS THE MINIMUM INVENTORY TO BE MADE AVAILABLE AT ALL TIMES)</p> <ul style="list-style-type: none"> <li>· Upper Kelly Cock - Pressure rating 5000 psi WP (total 2 nos.) with required end connections.</li> <li>· Lower Kelly Cock - Pressure rating 5000 psi WP (total 2 nos.) with required end connections.</li> <li>· Kelly scabbard with suitable clamps for 5.1/4" hexagonal or 4.1/4" square/hexagonal kelly offered by the Bidder.</li> <li>· Kelly grief sub – adequate nos. for uninterrupted drilling operation.</li> <li>· Kelly protector sub – 2 nos. with spare rubber protectors.</li> <li>· All tubular, rotary substitutes shall be NDT inspected as per API standard prior to mobilization. <u>Contractor shall provide documentary evidence for the same before mobilization.</u></li> </ul>	
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	<p><b>FISHING TOOLS</b></p> <p><b>Clause No. (A) (iii)</b> <b>(a) &amp; (o)</b></p>	<p>a) <u>CASING SPEAR</u>: Bowen or equivalent full circulating and releasing spear to catch 20", 13.3/8", 9.5/8", 7" &amp; 5.1/2" casing. The spear should be complete with all accessories including the required guide. Suitable cross-over sub for connecting the same with drill pipe string should be provided.</p> <p>b) .....</p> <p>o) Suitable <u>Packer Retrieving Tool</u> should also be made available as and when required.</p> <p>.....</p>	<p>ITCO Type is also acceptable.</p> <p>o) Requirement is dropped from SOW.</p>	
12	<p><b>Part – 3, Section– II, SOW ASSOCIATED SERVICES 7.9 (J) Personnel to be deployed Srl. No. 16</b></p>	<p>16. <u>TELEPHONE CUM RADIO OPERATOR</u>: Should have SSC/HS/PU/Class-XII Standard or equivalent qualification. Should have at least two (2) years work experience as radio operator in drilling wells. Should possess valid license (Certificate of Proficiency – 2 yrs. Course) from Ministry of Communication &amp; Information Technology, Department of Telecommunication or equivalent.</p>	<p>Requirement of Radio Operator is dropped but Telephone Attendants are required.</p>	-

13	<p><b>Part – 3, Section– II, SOW ASSOCIATED SERVICES 7.9 (L)</b></p> <p><b>3<sup>rd</sup> last para of Training Courses</b></p>	<p>L. <u>Training Courses:</u></p> <p>The Contractor shall ensure that all of the Contractor personnel performing services hereunder shall have.....</p> <p>Company reserves the right to instruct for removal of any Contractor’s personnel who in the opinion of the Company is technically not competent or not rendering the services faithfully or due to other reasons. The replacement of such personnel will also be fully at cost of the Contractor and the Contractor shall have to replace within Ten (10) days of such instruction from the Company.</p> <p>.....</p>	<p>The clause is amended as under :</p> <p>The Contractor shall ensure that all of the Contractor personnel performing services hereunder shall have.....</p> <p>Company reserves the right to instruct for removal of any Contractor’s personnel who in the opinion of the Company is technically not competent or not rendering the services faithfully or due to other reasons. The replacement of such personnel will also be fully at cost of the Contractor and the Contractor shall have to replace within Fifteen (15) days of such instruction from the Company.</p> <p>.....</p>	-
14	<p><b>Responsibility Matrix Proforma - J</b></p>			
	<p>Sl. No 21.a, page-161 or described elsewhere</p>	<p>(a) Crane for all drilling &amp; other operations. Additional crane required, if any, shall be provided at Contractor cost</p>	-	<p>For operational requirement at drill site, it is Contractor’s responsibility to provide additional crane.</p>
	<p>Sl. No 65, page-163 or described elsewhere</p>	<p>65. Emergency electricity generator at well-site &amp; camp</p>	-	<p>Two gen-sets are required for well-site (one running &amp; one stand-by). Similarly, another two gen-sets are required for camp-site.</p>
	<p>Sl. No III.6, page-167 or described</p>	<p>III.6. Collection of bits &amp; light consumable</p>	-	<p>Supply of bits &amp; consumables shall be OIL’s responsibility. But handling &amp;</p>

	elsewhere			storage of bits & consumables at well-site is Contractor's responsibility.
	Sl. No III.12, page-167 or described elsewhere	Well Head	-	It shall be provided by OIL as it is a well consumable.
	Sl. No III.13, Page – 167	Transportation of Company's consumables for inter-location movement to be done by Contractor at his cost.	-	Transportation of Company's materials back to Hamira Store is Company's responsibility whereas regarding inter-location movement of these materials, it is Contractor's responsibility.
	Sl. No. 73, page-163	Communication facilities at well/camp sites viz. V-set, radio set, satellite phone etc.	-	V SAT /Satellite shall be provided by Company. Walkie-talkie & Mobile shall be provided by the successful bidder.
15	<b>Part – 3, Section– II, SOW</b> <b>7.1 Group I , H</b> <b>Clause No. 8</b> <b>SLUSH PUMPS,</b> <b>Parallel pumping</b>	<b>8. Parallel pumping:</b> In certain cases both of the slush pumps .....  In the case of drilling the horizontal well, all the three pumps shall be used in parallel in order to provide the necessary flow rate (1100 GPM- US). Necessary arrangements should be made by the Contractor in this respect.	-	We require 1000 - 1200 GPM (US) while drilling through 17.1/2" & 12.1/4" hole-section in horizontal wells. One pump shall be on stand-by as deviation drilling part shall be of considerable length. Therefore, you are requested to quote accordingly.
16	<b>Part – 3, Section– II, SOW</b> <b>Clause -7.5 Group V</b> <b>Clause No.(A) (v)</b>	<b>Centrifuge:</b>	Requirement is dropped from SOW.	-
17	<b>Part – 3, Section– II, SOW</b> <b>7.7 General Notes</b> <b>Clause No. (n)&amp;(p)</b>	<b>(n) Kill Pump:</b> Diesel Engine (250-300 hp capacity)----- ----- having varying plunger sizes, 2.3/8", 3.1/2", 4" -----	-	Pump should be of plunger type and gear-driven so as to have better control and safety during well control as it is to be operated against some back-pressure of the well. To be provided as per NIT.

		(p) <u>Top Drive System</u> : One (1) No. Top Drive System of 250 Ton capacity preferably electrical driven compatible with 1000 HP mobile drilling rig of make M/s NOV / TESCO / CANRIG DRILLING TECHNOLOGY / WARRIOR MANUFACTURING SERVICES or any other reputed make. The system should be capable of generating torque in the range 25000 – 35000 ft-lb and rotary speed 0-200 rpm.	-	Both TDS & Kelly Drive are required. If TDS goes out of order for lengthy period, switch-over to other Kelly drive can be done immediately.
18	Part 3, Section – II SOW 7.2 Group – II BOP stack & well control equipment (A) BOP Stacks / Spools flanges	(A) <b>BOP STACKS / SPOOLS/FLANGES</b> (3000/5000 psi surface BOP Stack as per OISD- RP 174): .....	-	13-5/8" double ram BOP with 7-1/16" 5M to 13-5/8" 5M DSAF will be acceptable if 2.7/8" pipe ram is compatible to 13.5/8" BOP.
19	Part 3, Section – II SOW 7.4 Group – IV (A) Fishing Tools (iii) Other fishing tools k) Super Fishing Jar	k) <u>SUPER FISHING JAR</u> : One (1) no. straight pull, capable of transmitting full torque in either direction, ability to deliver rapid series of blows when desired, easy closing or resetting having OD=6.1/4 " , ID=2.1/4", 4.1/2" API IF (RH) top sub box connection & bottom pin connection complete with circulation hole and cone type piston assembly.	Requirement is dropped from SOW.	-
20	Part 3 Section – II SOW	A) <u>MUD SYSTEM</u> A mud system having an active	-	3 in1 Mud cleaner Combo with Shaker Screen– 1 unit, Desander – 2 cones & Desilter – 16 to 20 cones in place of

	<p>7.5 Group – V (Mud/Air/Water/Fuel/ Electricity System) (A) Mud System (i) De-sander (ii) De-silter (iii) Mud Cleaner</p>	<p>capacity of minimum 600 bbls (US) and gross capacity of minimum .....</p> <p>.....</p> <p>(ii)Desander: Brandt make or equivalent Desander (hydrocyclone type – min 2 cones) capacity 1000 GPM, complete with 75-100 Hp flame proof motor driven centrifugal pump.</p> <p>(iii)Desilter : Brandt make or equivalent Desilter (hydrocyclone type – 15 to 20 cones), capacity 600 - 800 GPM, complete with 75-100 HP flame proof motor driven centrifugal pump.</p> <p>(iv)Mud Cleaner: One linear motion mud cleaner complete with 12-16 nos. 4” desilter cones with capacity 600- 800 gpm. .....</p>		<p>separate Desander, Desilter &amp; Mud cleaner is acceptable instead of providing separate units.</p>
21	<p><b>Part 3 Section – II SOW 7.5 Group – V (Mud/Air/Water/Fuel/ Electricity System) (C)Water System (i) Water Tanks</b></p>	<p>(i) <u>WATER TANKS</u>: Three (03) nos. inter-connected tanks. (One tank also to be used as gauging water tank covered top preferably 9.9 m long x 2.285m wide x 2.5m high on a four runner during cementing operation which should be equipped with hopper and agitators). Rectangular shape with skid, with drain out</p>	-	<p>Three (3) tanks are required as one tank shall be used exclusively as gauging water tank.</p>

		<p>valve, equalizing coupling ladders both in and out of tank. Each tank shall have a man hole opening of 20" x 20" to go inside for cleaning purpose.</p> <p><u>Total storage capacity:</u> 150 cubic meter (approx.)</p> <p>Suitable skid fitted with two centrifugal pumps (booster pump) with 15 - 25 HP explosion proof electric motors complete with suction and discharge lines for operation of either or both pumps for supply of water to various points should be provided.</p>		
22	<p><b>Part – 3, SECTION – II</b>  <b>SOW</b>  <b>7.1 Group I</b>  <b>(B) MAST AND SUBSTRUCTURE</b>  <b>Note</b></p>	<p><b>(B) MAST AND SUB STRUCTURE</b>  <b>Note:</b>  .....</p> <p>The racking board (doubles board) shall be adjustable type and complete with necessary Emergency Escape Device (EED) from racking board to ground for top/derrick men. It should be provided with toe boards &amp; safety railings.</p> <p>Mast shall be complete with necessary &amp; compatible single/dual stand pipes with</p>	-	<p>Tubular rack beside catwalk to be extended for making double of tubing prior to lowering in hole.</p>

		<p>clamp/supports.</p> <p>.....</p> <p>Mast shall be painted as per Aviation /Indian Air Force Standards on deployment and later on whenever necessary. The same shall be specified in the contract. The mast shall be fitted with safe flasher type aviation warning light 1 no. at the crown, 4 nos. at four corners on the racking board of high luminous intensity (white light flasher). These lights shall be operational at all times from the moment the mast is raised and until the mast is finally lowered irrespective of well operation. Every alternate mast section to be painted with red and white paint. The paint may be enamel paint or equivalent. The paint should be freshly made and should be noticeable. Painting may be repeated, if required. Mast with colour provided by OEM with proper flasher lights at crown &amp; racking board may also be accepted with condition that if required, mast should be painted as per Aviation/Indian Air Force Standard.</p>		<p>Two (2) nos. flasher type lights on crown are acceptable.</p>
23	Part – 3, SECTION –	(C) <b>DRAW-WORKS:</b>	-	Major components should be covered



	<p style="text-align: center;"><b>II</b> <b>SOW</b> <b>7.1 Group I</b> <b>Clause No. (C)</b></p>	<p>(According to API Spec. 7K) .....</p> <p><u>HYDROMATIC BRAKE:</u> Water-cooled Hydromatic brake, driven by a twin-disc clutch with independent oil bath chain case to serve as assist brake, with suitable capacity water tank, valves and piping installed on the Carrier. Disc brake [shaft mounted] in lieu of Hydromatic shall also be acceptable.</p> <p>Draw-works to have forward speeds and reverse speed for hoisting and rotary drive respectively. The draw works shall be provided with pneumatically operated rotary counter shaft assembly.</p> <p>.....</p> <p>Draw -Works to have pneumatically actuated full circular balloon type or multiple plate friction clutches as available in draw-works of National Oil well or IDECO make (Compatible ATD or equivalent).</p> <p>.....</p> <p><u>DRILLER'S CONSOLE:</u> Driller's</p>	<p>The following Note is incorporated –</p> <p><b>Note :</b> In place of Hydromatic type auxiliary brake, multidisc-pneumatically operated friction brake of reputed make is also acceptable from technical point of view.</p>	<p>by API 7K.</p> <p>-</p> <p>-</p> <p>-</p> <p>Clutch of reputed make is technically acceptable but EATON is preferred.</p>
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		console, adjustable height, located at the rear of the Carrier incorporating all functions to carry out rig operations smoothly. Additionally, following minimum..... .....		It is a known fact that Diesel Electrical Rigs are fitted with Electrical Console Panel and Diesel Mechanical Rigs are equipped with Hydro/pneumatic Console Panel. In the Tender Document, we elaborate on Diesel Electrical Rigs only.
24	<b>Part – 3. Section-II SOW 7.1 Group-1, SELF PROPOLLED / TRAILER MOUNTED CARRIER Clause (A)</b>	(A) <b>SELF PROPOLLED / TRAILER MOUNTED CARRIER</b> Brief dimensions but not limited to- .....	-	Please note that walkways/flappers on the sides of Rig Carrier should be of folding type so that these does not create problem during movement.

3.0 All other terms and conditions remain unchanged.

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