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**AMENDMENT NO. 1 DATED 30.06.2022 TO TENDER NO. CDG0477P23 FOR 'CHARTER HIRE OF 02(TWO) NUMBERS OF 2000HP (MINIMUM) DRILLING RIG PACKAGE (WITH TOP DRIVE) WITH AN OPTION FOR HIRING 02 (TWO) ADDITIONAL 2000HP (MINIMUM) DRILLING RIG PACKAGE (WITH TOP DRIVE) FOR A PERIOD OF 03(THREE) YEARS IN ASSAM & ARUNACHAL PRADESH'.**

This Amendment to Tender No. CDG0477P23 is issued to notify about the following:

- 1) **Oil India Limited (OIL) reserves the right to mobilize the rig anywhere in India against the initial mobilization as per operational requirement apart from Assam and Arunachal Pradesh as spelt out in the tender. OIL may execute this option from the additional rigs as defined under the tender.**
- 2) **A job executed by a bidder for its own organization / subsidiary will not be considered as experience for the purpose of meeting the Bid Evaluation Criteria (BEC).**
- 3) **Amendment to few tender clauses are stipulated vide ENCLOSURE-I enclosed herewith.**

All other Terms and Conditions of the Tender/Bid Document (Considering all previous Amendments/Addendums, if any) will remain unchanged.

**Sd/-**  
**(B. Brahma)**  
**Sr. Manager – Contracts (G)**  
**For General Manager – Contracts**

**AMENDMENTS TO CLAUSES OF TENDER NO. CDG0477P23 FOR CHARTER HIRE OF 2 NOS. OF 2000HP (MIN) DRILLING RIG PACKAGE (WITH TOP DRIVE)**

<b>Sl. No.</b>	<b>Section / Clause No./Page No.</b>	<b>Original Clause</b>	<b>Amended Clause</b>
<b>PART-1: INSTRUCTIONS TO BIDDERS (ITB)</b>			
<b>1</b>	<b>34.2</b> (Page 22 of 254)	Upon award of Contract based on PP-LC policy, the bidder shall have to submit additional Bank Guarantee (format enclosed as Proforma-L) equivalent to the amount of Performance Security towards fulfilment of conditions pertaining to Local Contents in accordance with the value mentioned in the certificate of LC.	Upon award of Contract based on PP-LC policy, the bidder shall have to submit additional Bank Guarantee (format enclosed as Proforma-L) for an amount <b>equivalent to 10% of total contract value</b> , towards fulfilment of conditions pertaining to Local Contents in accordance with the value mentioned in the certificate of LC.
<b>PART-2: BID EVALUATION CRITERIA (BEC)</b>			
<b>2</b>	<b>9.5</b> (Page 40 of 254)	Purchase Preference Clause for MSE bidders as well Purchase Preference Policy – Linked with Local Content (PP-LC) shall not be applicable against this tender.	<b>DELETED</b>
<b>PART-3; SECTION-II: TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS / SCOPE OF WORK</b>			
<b>3</b>	<b>7.1 (A)</b> (Page 89 of 254)	Swing lift cantilever type self-elevating mast and substructure with clear height of 142 ft. to 147 ft. Rated static hook load capacity of 10,00,000 lbs (1000 kps) with 12 lines strung on travelling block as per API 4F specifications. Mast is to be designed for 69 mph wind load(Min.) with a full rack of pipe and 87 mph(Min.) on a bare mast. Casing capacity approximately 800,000 lbs simultaneously with 500,000 lbs of racked pipes.	Swing lift cantilever type self-elevating mast and substructure with clear height of 142 ft. to 150 ft. Rated static hook load capacity of 10,00,000 lbs (1000 kps) with 12 lines strung on travelling block as per API 4F specifications. Mast is to be designed for 69 mph wind load(Min.) with a full rack of pipe and 87 mph(Min.) on a bare mast. Casing capacity approximately 800,000 lbs simultaneously with 500,000 lbs of racked pipes.

<p align="center"><b>4</b></p>	<p><b>7.1 (A) (xviii)</b> (Page 91 of 254)</p>	<p>Note: Aviation warning/obstruction lamps, consisting of the following:                  (a) Aviation obstruction daytime white flasher units, one no. shall be fixed atop the mast on crown platform.                  (b) Red aviation LED warning lamps (night-time): Continuous glow type, two nos. to be fixed near the white flasher units.                  Day time: 20,000 Cd, flasher type with 40 flashes per minute (White)                  Night-time: 2,000 Cd, fixed (Red)</p>	<p>Note: All Lighting fittings &amp; junction boxes used in the rig mast shall be FLP (Ex-d) type. The light fittings shall be energy efficient, preferably LED type. Four (04) numbers FLP (Ex-d) type night aviation warning lights are to be fitted at the top of the mast. These lights shall be operational at all times from the moment the mast is raised and till the mast is finally lowered irrespective of well operation.                  As per IAF requirements, specifications for the above lights are –  <b>Colour of light:</b> Red, Light intensity: 10cd. Additionally, one daylight flasher type aviation warning light is to be fitted at the top of the mast in addition to red aviation warning lights. This light is to be used during daytime when the drilling location is situated within flying zone near by IAF airfields. The specifications for the above light are –  <b>Colour of light:</b> White (Flashing), Light intensity: 20000cd, Flashes per minute: 20-60 flashes per minute.</p>
<p align="center"><b>5</b></p>	<p><b>7.1 (B) (ii)</b> (Page 91 of 254)</p>	<p>Twin drum draw-works having main drum lebus grooved for 1.3/8”/1.1/2” casing (drilling) lines. In case of single drum draw works, an external winch shall be available with minimum 6000 m wire length.</p>	<p>Twin drum draw-works having main drum lebus grooved for 1.3/8”/1.1/2” casing (drilling) lines. Single drum draw works is also acceptable.</p>
<p align="center"><b>6</b></p>	<p><b>7.1 (B) (iii)</b> (Page 91 of 254)</p>	<p>Draw works to be operated by 2/3 nos. of GE # 752 or equivalent electric motors either AC or DC (a total minimum 2000 HP capacity).</p>	<p>Draw works to be operated by 2/3 nos. of GE # 752 or equivalent electric motors either AC or DC (a total minimum 2000 HP capacity).</p> <p><b>Note:</b> All auxiliary motors viz. Blower, Lube oil etc. and other electrical equipment used with Draw-works shall be suitable for use in oilfield hazardous area, Zone-I or Zone-II and Gas group II-A &amp; II-B of oil mines and shall confirm to IS/IEC/EN:60079</p>

			<p><i>standard. Details of certification / test reports confirming to the above relevant standard from an Indian government laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body shall be submitted. [Ref: Oil Mines Regulation, 2017, Regulation no.96 and CEA (Measures relating to safety and electric supply) Regulation 2010, regulation no.110</i></p>
<b>7</b>	<b>7.1 (F) (3)</b> (Page 95 of 254)	Motor driven centrifugal Supercharging pumps compatible to Mud Pumps to handle Mud up to 20 ppg. with appropriate independent suction and delivery manifold mounted on a oil field skid.	<p>Motor driven centrifugal Supercharging pumps compatible to Mud Pumps to handle Mud up to 20 ppg. with appropriate independent suction and delivery manifold mounted on an oil field skid. <i>Super charger motors and other auxiliaries viz. junction boxes, PBS etc. shall be FLP (Ex-d) type. [Ref: Oil Mines Regulation, 2017, Regulation no.96 and CEA (Measures relating to safety and electric supply) Regulation 2010, regulation no.110]</i></p>
<b>8</b>	<b>7.1 (F) (7)</b> (Page 95 of 254)	<b>New Clause</b>	<p>All auxiliary motors viz. Blower, Lube oil etc. and other electrical equipment used with slush Pump shall be suitable for use in oilfield hazardous area, Zone-I or Zone-II and Gas group II-A &amp; II-B of oil mines and shall confirm to IS/IEC/EN: 60079 standards. Details of certification/ test reports confirming to the above relevant standard from an Indian government laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body shall be submitted. [Ref: Oil Mines Regulation, 2017, Regulation no.96 and CEA (Measures relating to safety and electric supply) Regulation 2010, regulation no.110</p>

<b>9</b>	<b>7.1 (F) (8)</b> (Page 95 of 254)	<b>New Clause</b>	Light fittings (if any) fitted near the slush pump shall be FLP (Ex-d) type.
<b>10</b>	<b>7.1 (H) (2)</b> (Page 96 of 254)	AC/DC Electric Motors: Adequate numbers of AC/DC motors with adequate continuous HP rating and for operation of draw works (Min. 2 motors, maximum 3), for slush pump - 6 No. motor at their respective rated capacity. The motors shall be complete with suitable blowers and ducting.	AC/DC Electric Motors: Adequate numbers of AC/DC motors with adequate continuous HP rating shall be provided for operation of draw works and slush pump at their respective rated capacity. The motors shall be complete with suitable blowers and ducting.
<b>11</b>	<b>7.1 (H) (3)</b> (Page 96 of 254)	AC/SCR or AC/VFD System – Suitable AC/SCR or AC/VFD systems of reputed make. Bidder to offer detailed technical specifications along with the bid.	AC-SCR or AC-VFD System- Suitable AC-SCR or AC-VFD systems of reputed make shall be provided.
<b>12</b>	<b>7.1 (H) (4)</b> (Page 96 of 254)	Rig package shall be complete with all electrical control room, `SCR' cubicles or VFD & Rectifier Cubicles, DC power control room, AC power control room to match the auxiliary loads of mud system, water system, fuel system and air system mentioned in this section.	Rig package shall be complete with all electrical control room, SCR cubicles or VFD & Rectifier Cubicles, DC/AC power control room, AC power control room to match the auxiliary loads of mud system, water system, fuel system, air system, lighting system etc. mentioned in this section.
<b>13</b>	<b>7.1 (H) (6) (a)</b> (Page 96 of 254)	Power pack and SCR House or AC-VFD system control room to be place outside hazardous area, i.e. at a distance of 32 meters (Minimum) from the well center.	Power pack and SCR House or AC-VFD system control room to be place outside hazardous area, i.e. at a distance of 30 meters (Minimum) from the well center. [Ref: Oil Mines Regulation, 2017, Regulation no.96 and CEA (Measures relating to safety and electric supply) Regulation 2010, regulation no.110]
<b>14</b>	<b>7.1 (I) (3)</b> (Page 97 of 254)	Bidder to submit the layout diagram of rig along with their offer showing the placement of power pack at a minimum distance of 32m from well head.	Bidder to submit the layout diagram of rig along with their offer showing the placement of power pack at a minimum distance of 30 m from well head.
<b>15</b>	<b>7.1 (I) (4)</b> (Page 97 of 254)	Suitable arrangement should be available for running of Drawworks and 03 nos. of slush Pumps simultaneously if required	Individual electrical panel for each Mud Pump (03 nos.) and Draw-Works shall be available and all drilling motors shall always be connected to PCR. The system should facilitate for running any two mud pumps parallely in any combination at any

			point of time. Also, facility to assign/control each of the three (03) Mud pumps shall be available at D'Console.
<b>16</b>	<b>7.1 (K) (2)</b> (Page 98 of 254)	Electrical system shall be provided with all necessary cables, cables trays and grasshoppers to the derrick floor.	Electrical system shall be provided with all necessary cables and cable trays with grasshopper (Z-trays) arrangement to the derrick floor. Cable trays shall be grounded adequately.
<b>17</b>	<b>7.1 (K) (8)</b> (Page 98 of 254)	<b>New Clause</b>	All DC motors or AC VFD motors shall have blowers with suitable ducting & filter System.
<b>18</b>	<b>7.1 (K) (9)</b> (Page 98 of 254)	<b>New Clause</b>	<p>The bidder must obtain and furnish the following documents which are statutory requirement before mobilization of the rig. Mobilization shall not be considered complete unless these documents are submitted.</p> <ul style="list-style-type: none"> <li>i) Test Reports confirming to IS/IEC/EN:60079 for all the electrical equipment/ components/ accessories which are to be used in hazardous area [Zone 1 and Zone 2, Gas groups IIA and IIB] of the drilling well. The bidders shall submit test reports conforming to the above relevant standards from an Indian Government Laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body, which is not a part of manufacturer's facility.</li> <li>ii) Single line power flow diagram of the rig.</li> <li>iii) A Plan layout of electrical equipment used in the rig.</li> <li>iv) Details of all electrical motors, control gear, other electrical equipment and accessories used in the classified hazardous area.</li> </ul>

			<p>v) Details of alternators, electrical motors, control gear, all cables, other electrical equipment and accessories used in non-classified area.</p> <p>vi) A layout of the complete earthing system including earthing of diesel tanks, PCRs, AC &amp; DC motors, starters, alternators &amp; any other electrical equipment used for the purpose.</p>
<b>19</b>	<b>7.1 (K) (10)</b> (Page 98 of 254)	<b>New Clause</b>	The entire electrical installation job should be carried out as specified in the latest version of CEA (Measures relating to safety and electric supply) Regulations, 2010 and other relevant standards and precaution should be adopted in the Oil field as specified in the CEA (Measures relating to safety and electric supply) Regulations, 2010.
<b>20</b>	<b>7.1 (K) (11)</b> (Page 98 of 254)	<b>New Clause</b>	For all hand-held portable apparatus voltage shall not exceed 125 V as per CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 102 (i).
<b>21</b>	<b>7.1 (K) (12)</b> (Page 98 of 254)	<b>New Clause</b>	Insulation mats shall be available in all electrical PCRs, stand by alternators and all distribution boards. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no.19(5)]
<b>22</b>	<b>7.1 (K) (13)</b> (Page 98 of 254)	<b>New Clause</b>	All connections to the motors/PBS/junction boxes should be through double compression glands. All the FLP double compression glands are correctly installed, and the cable entry is tight. The cable size should match with the gland. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no.106(vi) & OISD 216]
<b>23</b>	<b>7.1 (K) (14)</b> (Page 98 of 254)	<b>New Clause</b>	Busbar connections / terminations shall be insulated with appropriate insulating tape; naked joints shall be avoided. Terminal blocks of cable

			entry shall be covered with hylam or transparent insulating plastic sheet. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no.17 & OISD 216 (7.1(vi))]
<b>24</b>	<b>7.1 (K) (15)</b> (Page 98 of 254)	<b>New Clause</b>	The voltage inside the mine shall not exceed 250V (between phases) if neutral is connected to earth. [Ref: CEA (Measures relating to safety and electric supply) Regulation 2010, regulation no.102(ii)(b)].
<b>25</b>	<b>7.1 (K) (16)</b> (Page 98 of 254)	<b>New Clause</b>	The mast shall be provided with telescopic lightening arrestor. The lightening arrestor shall be grounded with continuous cable at two separate & distinct points.
<b>26</b>	<b>7.1 (K) (17)</b> (Page 98 of 254)	<b>New Clause</b>	All electrical equipment used inside Driller's cabin (if applicable) shall be suitable for use in oilfield hazardous area, Zone-I or Zone-II and Gas group II-A & II-B of oil mines and shall confirm to IS/IEC/EN: 60079 standard. Details of certification / test reports confirming to the above relevant standard from an Indian government laboratory or NABL accredited laboratory or IECEx accredited laboratory or ATEX notified body shall be submitted. [Ref: Oil Mines Regulation, 2017, Regulation no.96 and CEA (Measures relating to safety and electric supply) Regulation 2010, regulation no.110]
<b>27</b>	<b>7.1 (P)</b> (Page 99 of 254)	<b>CELLAR PUMPS:</b> Suitable motor driven pump capable of cleaning fluids and cuttings from the cellar complete with all suction and delivery lines are to be provided. Pump should be suitable for class I, division 2 hazardous areas (as per OSHA) or Zone-I (as per DGMS guideline) and gas group I,	<b>CELLAR PUMPS:</b> Suitable motor driven pump capable of cleaning fluids and cuttings from the cellar complete with all suction and delivery lines are to be provided. Pump should be suitable for class I, division 2 hazardous areas (as per OSHA) or



		IIA & IIB and with Flexible coupling. Alternately, a suitable cellar ejection system is also acceptable.	Zone-I (as per DGMS guideline) and gas group I, IIA & IIB and with Flexible coupling. Alternately, a suitable cellar ejection system is also acceptable. <i>Cellar pump motor and other auxiliaries viz. junction boxes etc. shall be FLP (Ex-d) type. [Ref: Oil Mines Regulation, 2017, Regulation no.96 and CEA (Measures relating to safety and electric supply) Regulation 2010, regulation no.110].</i> <i>Remote PBS placed in hazardous area should have intrinsically safe circuits with a maximum of 30 Volts. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 102(iv).]</i>
<b>28</b>	<b>7.1 (Q)</b> (Page 99 of 254)	<b>CAGED LADDER, RIDING BELT, FALL ARRESTOR, and EMERGENCY ESCAPE DEVICE ETC.:</b> The riding ladder to crown block shall be caged and equipped with fall arrestor. A suitable riding belt to be provided to meet any emergency or to carry out repairs above derrick floor. Suitable & effective emergency escape device from racking board to ground shall be provided. All safety guidelines will be guided by OMR'2017.	<b>CAGED LADDER, RIDING BELT, FALL ARRESTOR, and EMERGENCY ESCAPE DEVICE ETC.:</b> The riding ladder to crown block shall be equipped with fall arrestor/device. <i>The fall prevention device should meet all applicable Indian or international standard to prevent persons from falling. The ladder shall be equipped with landing platform as per statutory guidelines.</i> A suitable riding belt to be provided to meet any emergency or to carry out repairs above derrick floor. Suitable & effective emergency escape device from racking board to ground shall be provided. <i>All safety guidelines will be guided by OMR'2017.</i>
<b>29</b>	<b>7.2.1 (A) (ii)</b> (Page 99 of 254)	21.1/4" / 20.3/4", 2M or 3M Drilling Diverter spool with 2 (two) nos. of 9" x 1000 psi side outlets and 30# overall length to be used with 21.1/4" x 2 M / 20.3/4" x 3 M BOP.	21.1/4" / 20.3/4", 2M or 3M Drilling Diverter spool with 2 (two) nos. <i>of side outlets not less than 7 1/16"OD</i> x 1000 psi side outlets and 30# overall length to be used with 21.1/4" x 2 M / 20.3/4" x 3 M BOP.
<b>30</b>	<b>7.2.1 (A) (iii)</b> (Page 99 of 254)	13.5/8" x 50000 psi Annular/Spherical BOP, 1 No. with bottom flange of 13.5/8" x 10 M Working	13.5/8" x 5000 psi Annular/Spherical BOP, 1 No. with bottom flange of 13.5/8" x 10 M Working

		Pressure (BOPs (Cameron/Cameron-Schlumberger/ Shaffer/Shaffer - NOV /Hydril/Hydrill- GE/ WOM) make only.	Pressure (BOPs (Cameron/Cameron-Schlumberger/ Shaffer/Shaffer - NOV /Hydril/Hydrill- GE/ WOM) make only.
<b>31</b>	<b>7.2.1 (A) (vi)</b> (Page 100 of 254)	One set each of 9.5/8", 7", 5.1/2", 2.7/8" pipe rams, two sets of 5" pipe rams or one set of 5" pipe ram along with one set of Top seal plus front packer elements and 1 set of blind rams should be supplied with above items no (iii).	One set each of 9.5/8", 7", 5.1/2", 2.7/8" pipe rams, two sets of 5" pipe rams or one set of 5" pipe ram along with one set of Top seal plus front packer elements and 1 set of blind rams should be supplied with above items no (iv).
<b>32</b>	<b>7.2.1 (A) (ix)</b> (Page 100 of 254)	<b>Note:</b> With facility for hooking up choke / kill lines having flanged side outlet of 3.1/16" in the same plane but in opposite directions.	<b>Note:</b> i) 21.1/4" x 2000 psi drilling spool is also acceptable in case the annular & and single ram BOP offered are of 21.1/4" x 2000 psi rating. ii) With facility for hooking up choke / kill lines having flanged side outlet of 3.1/16" in the same plane but in opposite directions
<b>33</b>	<b>7.2.1 (B) (i)</b> (Page 101 of 254)	One set of 3.1/16" x 10,000 psi choke manifold rigidly supported, with two each of manually and hydraulically operated chokes. As per API Spec. 16C, First Edition 1993, Drawing No. 10.7.3 (Sec. 10.7) including control console mounted at derrick floor showing all necessary parameters.	One set of 3.1/16" x 10,000 psi or 3-1/16" or 4-1/16" x 15000 psi) choke manifold rigidly supported, with two each of manually and hydraulically operated chokes. As per API Spec. 16C, First Edition 1993, Drawing No. 10.7.3 (Sec. 10.7) including control console mounted at derrick floor showing all necessary parameters.  Note: i) Kill lines should be minimum 2" nominal size and choke line should be minimum 3" nominal size ii) Size of choke line and choke manifold should be same. Minimum nominal inside ID for downstream chokes shall be equal to or greater than the nominal connection size of the choke inlet and outlet

<p><b>34</b></p>	<p><b>7.2.1 (B) (iii)</b> (Page 102 of 254)</p>	<p>BOP/Casing head housing side valves: (One each) gate valve and check valve on kill lines side size 3.1/16" x 10,000 psi.</p>	<p>BOP/Drilling Spool side valves: should consisting of two each of manually operated and hydraulically operated gate valves, on two sides, size - 3.1/16" x 10,000 psi along with one number of check valves on kill line.</p> <p style="text-align: center;">Or</p> <p>BOP/Drilling Spool side valves should consisting of two each of manually operated and hydraulically operated gate valves, on two sides, with size - 3.1/16" x 10,000 psi (For Choke line) and 2.1/16" x 10,000 psi (For Kill line) along with one number of check valves on kill line</p>
<p><b>35</b></p>	<p><b>7.2.1 (C) (vi)</b> (Page 102 of 254)</p>	<p>All electrical items should be suitable for hazardous area, zone-1 Gas Group I &amp; II.</p>	<p>BOP motor and other electrical equipment viz. starter, junction box, PBS etc. used with BOP system shall be suitable for use in oilfield hazardous area, Zone-I or Zone-II and Gas group II-A &amp; II-B of oil mines and shall confirm to IS/IEC/EN: 60079 standards. Details of certification / test reports confirming to the above relevant standard from an Indian government laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body shall be submitted. [Ref: Oil Mines Regulation, 2017, Regulation no.96 and CEA (Measures relating to safety and electric supply) Regulation 2010, regulation no.110].</p>
<p><b>36</b></p>	<p><b>7.2.1 (E) (i)</b> (Page 103 of 254)</p>	<p>One Diesel Engine Driven (equipped with speed reduction Gear Box / Transmission Box) National JWS 340 (10,000 PSI) or OPI 500AWS (15,000PSI) or equivalent High-pressure Low discharge plunger pump having plunger size of 2.3/4" or 3.1/2" of</p>	<p>One Diesel Engine Driven (equipped with speed reduction Gear Box / Transmission Box) National JWS 340 (10,000 PSI) or OPI 500AWS (15,000PSI) or equivalent High-pressure Low discharge plunger</p>

		minimum 10,000 PSI working pressure and Stroke length of 5" to 6".	pump having plunger size of 2.3/4" or 3.1/2" or 4" or 4.1/2" of minimum 10,000 PSI working pressure with Stroke length upto 8".
<b>37</b>	<b>7.2.2 (B) (iii)</b> (Page 104 of 254)	18 Nos. 4.3/4" OD, 2.1/4" ID, NC35, 30 ft. long, spiral drill collars, with slip recess and complete with suitable lifting plugs.	18 Nos. 4.3/4" OD, 2.1/4" ID, NC35 / NC38, 30 ft. long, spiral drill collars, with slip recess and complete with suitable lifting plugs.
<b>38</b>	<b>7.2.2 (C1) &amp; (C2)</b> (Page 105 of 254)	<b>New Clause: Note</b>	Bit Sub with NC 35 / NC 38 & Cross Over Sub with NC 35 / NC 38 connection <i>in line with thread connection of 4 3/4" OD drill collar offered against clause iv) above</i>
<b>39</b>	<b>7.2.2 (F) (a) (viii)</b> (Page 107 of 254)	2 Nos. centre latch elevator, 150 ton capacity for 3.1/2" OD SLH-90 drill pipe (tool joint OD 3.7/8").	<b>Deleted</b>
<b>40</b>	<b>7.2.2 (I) (e)</b> (Page 110 of 254)	Hydraulic Jar/ Hydro- Mechanical: (Fishing Jar) - One no. each Type "Z" Bowen or equivalent of other make as mentioned above of 8"/7.3/4", 6 1/2"/ 6 1/4", 4 3/4" & 4 1/4" OD Jar.	Hydraulic Jar/ Hydro- Mechanical: (Fishing Jar) - One no. each Type "Z" Bowen or equivalent of other make as mentioned above of 8"/7.3/4", 6 1/2"/ 6 1/4", 4 3/4" / 4 1/4" OD Jar.
<b>41</b>	<b>7.2.2 (L) (a) (v)</b> (Page 111 of 254)	<b>New Clause</b>	Readiness of approach road to forward location and plinth shall be the responsibility of OIL. Clearance of Electrical overhead lines belonging to state Electricity board, tea gardens etc. shall be the responsibility of OIL.
<b>42</b>	<b>7.2.2 (L) (b) (iv) (e)</b> (Page 112 of 254)	<b>New Clause</b>	During inter location movements, the contractor shall arrange for shutdown/ ground clearance/ raising of lines (if required) of Electrical overhead lines belonging to third parties viz. state electricity board (APDCL), tea gardens etc.

43	<b>7.2.2 (L) (b) (iv) (f)</b> (Page 112 of 254)	<b>New Clause</b>	The contractor is solely responsible for any damage to existing Electrical infrastructure belonging to third parties viz. state electricity board (APDCL), tea gardens etc. resulting from the movement of the contractor's vehicle during ILM. In case of such damage, contractor is fully responsible for repairing of the damaged Electrical infrastructure
44	<b>7.2.2 (M) (l)</b> (Page 113 of 254)	Welding Machine: Diesel/ Electric powered electric welding generator capable to generate welding current at 480 Hz with Constant Current characteristics with all associated welding and cutting apparatus, Oxy-acetylene cutting equipment's with flash back arrestor, brazing etc. Engine should be fitted with spark arrestor. All consumables shall be supplied by the contractor.	Welding Machine: Diesel/ Electric powered electric welding generator capable to generate welding current at 480 Hz with Constant Current characteristics with all associated welding and cutting apparatus, Oxy-acetylene cutting equipment's with flash back arrestor, brazing etc. Engine should be fitted with spark arrestor. All consumables shall be supplied by the contractor. <i>NOTE: Cylinder cap to be provided in Nitrogen, oxygen and acetylene cylinder.</i>
45	<b>7.2.2 (M) (m)</b> (Page 113 of 254)	<b>New Clause</b>	PESO certified spark arrestor to be provided for all ICE engine except power pack engines.
46	<b>7.3 (A) (b) (ii) (a)</b> (Page 115 of 254)	Desander (Hydro cyclone type) capacity at least 1500 GPM, with minimum 3 vertical 12" cones complete with TRW Mission (8" x 6" x 14") or equivalent centrifugal pump and 75 HP (min) motor.	Desander (Hydro cyclone type) capacity at least 1500 GPM, with 2 - 3 nos. of vertical 10" - 12" cones complete with suitable motor driven centrifugal pump capable of delivering the required volume & head of the Drilling fluid as noted.
47	<b>7.3 (A) (b) (ii) (b)</b> (Page 115 of 254)	Desilter (Hydro cyclone type), capacity at least 1250 GPM, (With 16-20 cones arranged in 2 rows or circular arrangement) complete with TRW Mission (8" x 6" x 14") or equivalent centrifugal pump and 75 HP (min) motor.	Desilter (Hydro cyclone type), capacity at least 1500 GPM (With 16-20 cones arranged in 2 rows or circular arrangement) complete with suitable motor driven centrifugal pump capable of delivering the required volume & head of the Drilling fluid as noted.

<p><b>48</b></p>	<p><b>7.3 (A) (b) (iv)</b> (Page 116 of 254)</p>	<p>2 (Two) nos. (min) 10 HP (min) mud agitators with suitable gear box &amp; 4(min) bottom gun jet per tank and mud guns for proper churning of mud with TOR :50 (min)</p>	<p>Minimum 2 (Two) nos. mud agitators per tank with suitable bottom gun jet and mud guns for proper churning of mud with TOR : 50 (min)</p>
<p><b>49</b></p>	<p><b>7.3 (D) (b)</b> (Page 119 of 254)</p>	<p>All electrical equipment such as motors, light fittings, push button stations, plug &amp; sockets, junction boxes, motor starters etc. used in hazardous area should be suitable for use in hazardous areas of Zone I and Gas group IIA &amp; IIB of Oil Mines and shall conform to IS/IEC/EN:60079-0:2011 &amp; IS/IEC/EN:60079-1:2007. The bidders shall submit test reports conforming to the above relevant standards from an Indian Government Laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body, which is not a part of manufacturer's facility. Bidder shall provide copies of above test reports along with technical bid. Above Test Reports no should be engraved on the name plates of such equipment.</p> <p>In case such test reports for any or all the electrical equipment are not available at the time of bid submission stage, the bidder shall categorically confirm in their bid that same shall be submitted before commencement of operation. OIL shall reserve the right to withhold the permission to commence the operation in case of non-submission of the above test reports.</p> <p>Note: All multicore cables to be used in the rig should be metallic screened and certified by CIMFR/ recognized laboratory of country of origin.</p>	<p>All auxiliary motors, lighting, plug/socket, junction box, starter, push button not placed at safe distance shall be suitable for use in oilfield hazardous area, Zone-I or Zone-II and Gas group II-A &amp; II-B of oil mines and shall conform to IS/IEC/EN: 60079 standards. Details of certification / test reports confirming to the above relevant standard from an Indian government laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body shall be submitted. [Ref: Oil Mines Regulation, 2017, Regulation no.96 and CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no.110].</p> <p>Note: 1) All Electrical Cables used in the Drilling Rig should be multi core flexible copper cables (armored or screened) of 1000 volts grade, EPR insulated, CSP/NBR sheathed. All electrical cables shall conform to the provisions stipulated in line with IS-9968-1 read with the latest BHEL specifications (OR12003, OR12002 &amp; OR12005) as the case may be. If the standard of a particular type of cable is not available in India, the cables must comply relevant International standards (IEC 502) with latest amendments. Ref. to DGMS Tech. Circular (Electrical), (Approval) No. 17 dated 25/05/2015.</p> <p>2) Remote PBS placed in hazardous area should have intrinsically safe circuits with a maximum of 30 Volts. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 102(iv).]</p>

<p><b>50</b></p>	<p><b>7.3 (D) (e)</b> (Page 119 of 254)</p>	<p><b><u>Earth leakage protective device:</u></b>  All the outgoing feeder for motor, lighting shall be provided with earth leakage protective device so as to disconnect the supply instantly the occurrence of earth fault or leakage of current (I.E. rule no 61 A)</p>	<p>Earth leakage protective device: All the outgoing feeder for auxiliary motors, lighting, bunk houses and outgoing feeders from standby generator shall be provided with earth leakage protective device so as to disconnect the supply instantly at the occurrence of earth fault or leakage of current. The maximum earth leakage threshold for tripping shall not exceed 100mA under any circumstances as per CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 42.</p>
<p><b>51</b></p>	<p><b>7.3 (D) (f)</b> (Page 120 of 254)</p>	<p>All the electrical equipment, PCR, Diesel tanks, Mud tanks should be double earthed.</p>	<p>All the electrical equipment, PCR, Diesel tanks, Mud tanks should be double earthed. The body and neutral earthing shall be separate, and the neutral earthing shall be covered always. The earthing system shall be in accordance with CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 41 &amp; 101. Additionally, all metallic body having electrical equipment shall be earthed properly by two separate and distinct connections with suitable earthing strips. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no.41(xii) &amp; OISD 216].</p>
<p><b>52</b></p>	<p><b>7.3 (D) (g) (vii) &amp; (viii)</b> (Page 120 of 254)</p>	<p><b>vii)</b> Copies of valid approvals of CIMFR/ recognized laboratory of country of origin related to electrical equipment for use in Oilfields hazardous areas, zone 1 and zone 2, Gas Groups 2A and 2B. Also copies IS/ IEC standards as specified by DGMS as per clause no. 107 of OMR- 2017 of electrical equipment for use in Zone 1 and Zone 2 hazardous areas.  <b>viii)</b> SLD / Layout / List of electrical equipment / cables fittings etc. / Annexure-VI Electrical /</p>	<p><b>vii)</b> For all Electrical equipment used inside hazardous area (within 30 meters from well centre), test reports/ certificates confirming to relevant standards (IS/IEC/EN: 60079) from an Indian government laboratory or NABL accredited laboratory or IECEx accredited laboratory or ATEX notified body, which is not a part of the manufacturer's facility shall be submitted along with the bid and also with the supply of the materials.</p>

		<p>Earthing layout / CIMFR or recognized laboratory of country-of-origin approvals for use in Oilfields hazardous areas, zone 1 and zone 2, Gas Groups 2A and 2B.</p> <p><b>Note:</b> Bidders have to furnish a list of Electrical equipment to be used in hazardous areas as per format given in Annexure-IV. The Electrical equipment placed in classified hazardous area must be certified by CIMFR/ recognized laboratory of country of origin.</p> <p>Also, the electrical appliance, equipment for using in Zone 1 and Zone 2 hazardous area of the mine shall conform to IS/ IEC standards as specified by DGMS as per clause no. 107 of OMR- 2017.</p>	<p>In case the bidder is unable to provide the test reports/ certificates at the time of bid submission, then the bidder has to categorically confirm in their offer that “Test reports/ certificates will be submitted along with the supply of materials”.</p> <p><b>viii) Deleted</b></p> <p>Note: Bidders have to furnish a list of Electrical equipment to be used in hazardous areas as per format given in Annexure-IV. The Electrical equipment placed in classified hazardous area must be certified by Indian government laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body, which is not a part of the manufacturer’s facility.</p> <p>Also, the electrical appliance, equipment for using in Zone 1, Zone 2 &amp; hazardous area (within 30 meters from well centre) of the mine shall conform to IS/ IEC standards as specified by DGMS as per clause no. 107 of OMR- 2017 read with Gazette notification: 898 of 2017.</p>
<p><b>53</b></p>	<p><b>7.3 (D) (i)</b> (Page 120 of 254)</p>	<p><b>Additional Points</b></p>	<ul style="list-style-type: none"> <li>• Electrical Logbook Register to maintain records of operational parameters and energy consumption data (every shift)</li> <li>• Daily Progress Report.</li> <li>• Electrical Equipment Maintenance Register.</li> <li>• Breakdown Maintenance Register.</li> <li>• Well Site Inventory Register.</li> <li>• By-pass register</li> <li>• Register for management of change</li> <li>• Filled up toolbox talk record file</li> <li>• Closed electrical isolation permit record file</li> </ul>



54	7.3 (D) (j) (Page 121 of 254)	New Clause	<b>Lighting Transformer:</b> The voltage for lighting system in-side the mine shall not exceed 250V (between phases) if neutral is connected to earth as per CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 102.
55	7.3 (D) (k) (Page 121 of 254)	New Clause	<b>Neutral Grounding Resistance:</b> The Main 600 V/415 V transformer shall be Delta-Star type and star point of the secondary shall be earthed through NGR; and, neutral of the secondary shall not be served for any load. The neutral earthing system should be such that, the earth faults current shall not be more than 750mA in installations of voltage exceeding 250V and up to 1100V system for oil fields. The magnitude of the earth fault current shall be limited to the above value by employing suitable designed restricted neutral system (NGR) of power supply as per CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 100(1).
56	7.3 (D) (l) (Page 121 of 254)	<b>New Clause</b>	Tri-lingual notices shall be exhibited forbidding unauthorized operation, cautioning the presence of electrical apparatus as per CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 109 (7(i)).
57	7.3 (D) (m) (Page 121 of 254)	<b>New Clause</b>	Schedule – XIII shall be present and filled as per CEA (Measures relating to safety and electric supply) Regulations, 2010, clause 110 (9) & regulation no. 115(5)
58	7.3 (D) (n) (Page 121 of 254)	<b>New Clause</b>	The switchgear and protective system shall be kept effective, maintained and checked and result shall be recorded as per CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no. 100(3).

<b>59</b>	<b>7.3 (D) (o)</b> (Page 121 of 254)	<b>New Clause</b>	Electrical isolation / Energization permits shall be maintained as per Oil Mines Regulation, 2017 regulation no. 99 and OISD 216.
<b>60</b>	<b>7.3 (D) (p)</b> (Page 121 of 254)	<b>New Clause</b>	Shock treatment chart should be displayed in the PCR. This should contain telephone number of fire service and other emergency services. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no.28(1) and OISD 216 (Annexure-2&4)]
<b>61</b>	<b>7.3 (D) (q)</b> (Page 121 of 254)	<b>New Clause</b>	All electrical equipment (motors, alternators, Starters, PBS etc.) shall have Danger notices/ caution boards of appropriate voltage. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no.18 and OISD 216(Annexure-4)]
<b>62</b>	<b>7.3 (D) (r)</b> (Page 121 of 254)	<b>New Clause</b>	Valid calibration records of all the measuring instruments shall be available at site.
<b>63</b>	<b>7.3 (D) (s)</b> (Page 121 of 254)	<b>New Clause</b>	All electrical panels shall be painted with the description of its identification at front and at the rear. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010, regulation no.19(6)]
<b>64</b>	<b>7.6 (I) (III) (k)</b> (Page 136 of 254)	<b><u>ELECTRICAL ENGINEER / CHIEF ELECTRICIAN:</u></b>  Should have Degree in Electrical Engineering with minimum 3 years' experience OR Diploma in Electrical Engineering with 5 years' experience in Diesel Electric / AC VFD drilling rigs. He should be confident in independently carrying out the fault-finding analysis, rectification of fault, operation and maintenance of all the electrical items of diesel electric drilling rig including the air conditioners.	<b><u>ELECTRICAL ENGINEER / CHIEF ELECTRICIAN/ ELECTRICAL SUPERVISOR:</u></b>  Should have Degree in Electrical Engineering with minimum 3 years' experience OR Diploma in Electrical Engineering with 5 years' experience in ACSCR / ACVFD drilling rigs. He should be confident in independently carrying out the fault-finding analysis, rectification of fault, operation and

		<p>He must possess valid Electrical Supervisor's Certificate of Competency with Parts 1, 2, 3, 4 &amp; 8) issued by State Licensing Board and should be conversant with Oil Mines Regulations and Electricity rules. Diploma and ITI certificate holders are not acceptable as Electrical Engineers. Moreover, the Electrical Engineer must be conversant with the existing AC/SCR system of drilling rigs like HILLGRAHAM UK, General Electric USA and BHEL MAKE (CED) Bangalore system.</p> <p>Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010; regulation no.3,6 &amp; 115 and Oil Mines Regulations,2017; regulation no.114 (4 &amp; 5).</p>	<p>maintenance of all the electrical items of diesel electric drilling rig including the air conditioners. He must possess valid Electrical Supervisor's Certificate of Competency with authorization for Parts 1, 2, 3, 4 &amp; 8 issued by State Licensing Board and should be conversant with Oil Mines Regulations and Central Electricity Authority Regulation, 2010. ITI certificate holders are not acceptable as Electrical Engineers.</p> <p>Ref: Central Electricity Authority (Measures relating to safety and electric supply) Regulations, 2010; regulation no.3, 6 &amp; 115 and Oil Mines Regulations, 2017; regulation no.114 (4 &amp; 5).</p> <p>Note: Electrical Engineer to be read as ELECTRICAL ENGINEER / CHIEF ELECTRICIAN/ ELECTRICAL SUPERVISOR appearing elsewhere in the Tender</p>
<p><b>65</b></p>	<p><b>7.6 (I) (III) (I)</b> (Page 137 of 254)</p>	<p><b>RIG ELECTRICIAN:</b> Must be diploma / ITI in Electrical discipline with minimum 3 yrs. / 8 yrs. Experience respectively in the operation and maintenance of diesel electric drilling rig independently in shifts. He should be able to read circuits, communicate, detect and rectify faults. He must possess valid Electrical Work Permit (with Parts I &amp; II) issued by State Licensing Board.</p>	<p><b>RIG ELECTRICIAN:</b> Must be diploma / ITI in Electrical discipline with minimum 2yrs. / 4yrs. experience respectively in the operation and maintenance of ACSCR/ ACVFD drilling rig independently in shifts. He should be able to read circuits, communicate, detect and rectify faults. He must possess valid Electrical Work Permit with authorization for Parts/ Class - I &amp; II issued by State Licensing Board allowing him to work in the state / region where he is deployed. Responsibility for ensuring adherence to these norms' rests with the contractor. [Ref: CEA (Measures relating to safety and electric supply) Regulations, 2010;</p>

			regulation no. 3,6,29 &115 and Oil Mines Regulations, 2017; regulation no.114 (4 & 5)].
<b>66</b>	<b>7.6 (I) (IV); Note (p)</b> (Page 140 of 254)	Contractor should employ adequate number of authorized supervisors as per rule 110 of Indian Electricity rules, 1956 having relevant experience of minimum 5 years and possess appropriate license(s).	Contractor should employ adequate number of authorized supervisors as per regulation 115 of CEA (Measures relating to safety and electric supply) Regulations, 2010 having relevant experience and possessing appropriate license(s).
<b>PART-3; SECTION-III: SPECIAL CONDITIONS OF CONTRACT (SCC)</b>			
<b>67</b>	<b>2.0</b> (Page 143 of 254)	<b>Mobilization</b>	<b>EFFECTIVE DATE, MOBILISATION TIME, DATE OF COMMENCEMENT OF THE CONTRACT AND DURATION OF CONTRACT:</b>
<b>68</b>	<b>2.1</b> (Page 143 of 254)	<b>New Heading</b>	<b>Mobilization</b>
<b>69</b>	<b>2.4</b> (Page 143 of 254)	<b>New Note</b>	<b>Note:</b> All documents pertaining to the Rig(s) in connection with the import of the Rig, Block transfer, etc. as applicable under law will have to be submitted / applied prior to mobilization. Mobilization will not be treated as complete by OIL unless all the documents submitted are found to be in order and to the satisfaction of OIL.
<b>70</b>	<b>2.5</b> (Page 145 of 254)	<b>New Clause</b>	<b>EFFECTIVE DATE:</b> The contract shall become effective as of the date Company notifies Contractor in writing (through Letter of Award) that it has been awarded the contract. The date of issue of Letter of Award (LOA) by Company to the Contractor shall be the Effective Date of the Contract.
<b>71</b>	<b>2.6</b>	<b>New Clause</b>	<b>DATE OF COMMENCEMENT OF OPERATION:</b> The date on which the mobilization is completed in all

	(Page 145 of 254)		respects is treated as date of Commencement of Operation.
<b>72</b>	<b>2.7</b> (Page 145 of 254)	<b>New Clause</b>	<b>DURATION OF CONTRACT:</b> The contract shall be initially for a period of 03(THREE) years from the date of commencement of operation with an option for extension of the contract duration by another 1 (one) year at the sole option of the Company (OIL) at the same terms and conditions and mutually agreed rates but not higher than the original rate(s) of the contract. The terms and conditions shall continue until the completion/ abandonment of the last well being drilled at the time of the end of the Contract.
<b>73</b>	<b>16.0</b> (Page 167 of 254)	<b>Duration of Contract</b>	<b>Deleted</b>
<b>PART-3; SECTION-IV: SCHEDULE OF RATES</b>			
<b>74</b>	<b>9.0</b> (Page 187 of 254)	<b>New Clause</b>	<b>HSD/FUEL PRICE VARIATION (NEW CLAUSE ADDED):</b>  i) Reimbursement/ Recovery due to Variation in the HSD price will be effective, provided the fuel (HSD) price of the month for which the payment is due changes over the tendered HSD price i.e. <i>the rate as declared in the tender by OIL</i> , and this will be termed as <b>BASE RATE**</b> for all future HSD variation calculation. All subsequent reimbursement will be effective once the fuel (HSD) price of the month for which payment is due changes over the BASE RATE. Similarly, when the HSD price falls below the BASE RATE, there will be recovery/deduction from the monthly invoices for that amount based on the actual consumption. The reimbursement will be on the actual consumption as per meter reading in the

			<p>Rig engines only and diesel consumption for ancillary engines will not be taken into account.</p> <p>ii) Reimbursement / recovery – if any for any particular month, will be calculated based on the variation of AVERAGE PRICE OF HSD FOR THE MONTH (from individual invoices) over the BASE RATE multiplied by the total actual consumption for that month.</p> <p>iii) All the Rig engines will be equipped by individual flow meter for measuring daily consumption and this consumption figure should reflect in the daily drilling operation report/IADC report including stock position (Both opening and closing stock) of the HSD at site. Based on this daily figure, the reimbursement/recovery – if any in the subsequent month will be calculated. In case, the Rig engines are equipped with in- built Lifetime fuel meter, the daily fuel consumption will be taken and recorded from this meter. However, in case the meter is malfunctioning for any reasons, no reimbursement will be applicable for that period.</p> <p>iv) For the purpose of claiming the variation in HSD rate, the service provider will have to submit the HSD purchase invoices for the month and based on the invoices, the AVERAGE PRICE OF HSD will be calculated for that particular month and if any reimbursement/recovery is applicable, the same will be processed accordingly through SES by OIL.</p> <p>v) Daily Diesel stock position of the Rig to be provided in the daily Drilling report / IADC DPR including daily diesel consumption of the Rig</p>
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			<p>engines duly certified by the Authorized Company representative.</p> <p><b>**BASE RATE OF HSD FUEL FOR THIS TENDER = INR 85.00/LITRE.</b></p> <p><b>BIDDERS TO NOTE THAT ALL VARIATIONS IN HSD PRICE FOR REIMBURSEMENT/RECOVERY SHALL BE CALCULATED BASED ON THE INVOICED RATE OF HSD (RETAIL PRICE).</b></p>
<b>75</b>	<b>10.0</b> (Page 187 of 254)	<b>9.0 General Note</b>	<b>Renumbered as 10.0</b>
<b>ANNEXURES</b>			
<b>76</b>	<b>ANNEXURE-II RESPONSIBILITY MATRIX; C-17</b> (Page 194 of 254)	Stabilizer & Hole Opener	Stabilizer
<b>77</b>	<b>ANNEXURE-II, RESPONSIBILITY MATRIX, E-3</b> (Page 195 of 254)	Drill pipe protectors (one per thribble inside casing).	<b>Deleted</b>
<b>78</b>	<b>ANNEXURE-III, Note:4</b> (Page 200 of 254)	For Rig Manager(s) / Rig Superintendent(s), bidders should ensure that the same persons, whose CV's are part of the offer are deployed during the execution. In case of replacement of Rig Manager(s) / Rig Superintendent(s), the	<b>Deleted</b>

		replacement personnel must have same or higher score as accepted against the QCBS methodology.	
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