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(A Govt. of India Enterprise)
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AMENDMENT NO. 03 DATED 13.07.2018

This Amendment against e-Tender No. CDG8189P19 for “Hiring of Six (06) Nos. Mud Logging Units and Services for deployment in OIL’s Operational areas within North East, India and Two (2) additional Mud Logging Units and Services within India for a period of 3 (three) years” is issued to incorporate the followings changes/amendments:

- 1.0 Certain changes are made in the Tender (Indicated in the Enclosure A).
- 2.0 All other Terms and Conditions of the Tender/Bid Document (Considering all previous Amendments/Addendums, if any) will remain unchanged.

Sr. No.	Page No.	Clause No.	Existing Clause	Modified Clause
Part – 2 : BID EVALUATION CRITERIA (BEC)				
1	24	A 2.0 (v)	Bidders must confirm to complete mobilization within 60 days from the date of issuance of Letter of Award (LOA).	Bidders must confirm to complete mobilization in a staggered manner viz. 3 (three) Units in seventy-five days' time (75) & 3 (three) Units in one hundred twenty days' time (120) from the date of issuance of Letter of Award (LOA).
Part – 3 : Section – I, General Conditions of Contract				
2	31	2.2.1	2.2.1 MOBILISATION OF SIX (6) UNITS WITHIN NORTH EAST INDIA: The successful bidder must mobilize his personnel, Mud Logging Units/ equipment, spares and all other necessary materials required for providing mud logging services in sixty days time from the date of issue of LOA by the Company.	2.2.1 MOBILISATION OF SIX (6) UNITS WITHIN NORTH EAST INDIA: The successful bidder must mobilize his personnel, Mud Logging Units/ equipment, spares and all other necessary materials required for providing mud logging services in a staggered manner viz. 3 (three) Units in seventy five days time (75) & 3 (three) Units in one hundred twenty days time (120) from the date of issuance of LOA by the Company or as mentioned in the LOA.
3	32	2.2.2	2.2.2 MOBILISATION OF TWO (2) ADDITIONAL UNITS WITHIN INDIA: The Additional Units may be mobilized on a later date as per requirement of OIL and need to be mobilized anywhere in Company's operational area in India for Mud logging Services. A separate mobilization notice will be given for each of two Units and the Contractor must be able to mobilize within Ninety (90) days time from the time of intimation.	2.2.2 MOBILISATION OF TWO (2) ADDITIONAL UNITS WITHIN INDIA: The Additional Units may be mobilized on a later date as per requirement of OIL and need to be mobilized anywhere in Company's operational area in India for Mud logging Services. A separate mobilization notice will be given for each of two Units and the Contractor must be able to mobilize within one hundred twenty (120) days time from the time of intimation.
Part – 3 : Section – II, Terms of Reference & Technical Specifications				
4	53 & 65		3.0 TECHNICAL REQUIREMENT OF MUD LOGGING UNIT : 3.2 The Contractor must be an ISO/DNV certified (ISO: 9001, 14001, 18001, 27001, 29001) or equivalent company in terms of Quality, Health, Safety & Environment management, Data security and the ISO certification must be valid during the entire contract period. OMR	3.0 TECHNICAL REQUIREMENT OF MUD LOGGING UNIT : 3.2 The Contractor must be an ISO/DNV certified (ISO: 9001, 14001, 18001, 27001, 29001) or equivalent company in terms of Quality, Health, Safety & Environment management, Data security and the ISO certification must be valid during the entire contract period. OMR and all oilfield HSE

	3.0 point no. 3.2 & 13.0	<p>and all oilfield HSE standards as per Govt. of India directives need to be fulfilled. All field mounted sensors to be intrinsically safe and connected via explosion proof junction boxes meeting safety standards for operating in hazardous area as per API and OMR. All electrical wiring & fixtures, breakers, relays, plugs, earthing etc. confirm to industrial regulations & standards. (Necessary certificates to be provided).</p> <p>Note: Bidder must provide written assurance to provide valid DGMS approval for all such sensors and junction boxes along with bid. However, valid DGMS approvals to be produced to OIL for verification before mobilization.</p> <p>13.0 Bidder has to obtain clearance / approval from Director General of Mines & Safety (DGMS) against their electronic / electrical equipments to be used in the well-sites under hazardous zone 1 & 2 as per Indian Oil Mines Regulation Act, 1981 and satisfy any other statutory requirements from DGMS.</p> <p>Successful Bidder has to provide valid DGMS approval for all such electronics and electrical equipment at the time of mobilization. Bidder has to confirm the same in their Technical Bid</p>	<p>standards as per Govt. of India directives need to be fulfilled. All field mounted sensors to be intrinsically safe and connected via explosion proof junction boxes meeting safety standards for operating in hazardous area as per API and OMR. All electrical wiring & fixtures, breakers, relays, plugs, earthing etc. confirm to industrial regulations & standards. (Necessary certificates to be provided).</p> <p>Note : Bidder must provide written assurance along with the bid that all such sensors and junction boxes shall comply the standards defined by DGMS .</p> <p>13.0 All electronic / electrical equipments to be used in the well-sites under hazardous zone 1 & 2 shall satisfy the clauses of Indian Oil Mines Regulation Act (OMR) , 2017 .</p>
5	55 & 56	<p><u>3.5.11 On-line Data Acquisition:</u></p> <p>a) The state-of-art processor, Pentium Core i-7 or higher version PC of reputed brand (assembled PC will not be acceptable) with its peripherals viz. color monitor, mouse, keyboard and color printers for on-line data acquisition shall be capable of on-line real time processing, monitoring, printing, plotting of mud, drilling and gas parameters, storing and retrieval of processed and organized data at 0.2m, 0.5m & 1m interval of depth data and 0.1/ 1 sec interval of time data with Audio/Visual alarm settings (includes parameters value, process and hardware failure) and calibration of parameters.</p> <p><u>3.5.18 Off-line Data Processing:</u></p> <p>A state-of-art processor Pentium Core i-7 or equivalent based stand-alone PC, not connected to On-line Data acquisition, having the following peripherals viz.</p>	<p><u>3.5.11 On-line Data Acquisition:</u></p> <p>a) The state-of-art processor, Pentium Core i-7 or equivalent or higher version PC of reputed brand (assembled PC will not be acceptable) with its peripherals viz. color monitor, mouse, keyboard and color printers for on-line data acquisition shall be capable of on-line real time processing, monitoring, printing, plotting of mud, drilling and gas parameters, storing and retrieval of processed and organized data at 0.2m, 0.5m & 1m interval of depth data and 0.1/ 1 sec interval of time data with Audio/Visual alarm settings (includes parameters value, process and hardware failure) and calibration of parameters.</p> <p><u>3.5.18 Off-line Data Processing:</u></p> <p>A state-of-art processor Pentium Core i-7 or equivalent or higher version based standalone PC (assembled PC will not be acceptable), not connected to On-line Data</p>

			colour monitor, mouse, keyboard, and continuous colour printers. The On-line and Off-line PC should be compatible for interchange. The Off-line PC shall be loaded with both on-line and off-line software.	acquisition, having the following peripherals viz. colour monitor, mouse, keyboard, and continuous colour printers. The On-line and Off-line PC should be compatible for interchange. The Off-line PC shall be loaded with both on-line and off-line software.								
6	57	3.5.22	3.5.22 Shale Density: The measurement will be done by utilizing suitable balance/column method. (Preferentially "Column method" by use of Density Beads).	3.5.22 Shale Density: The measurement will be done by utilizing suitable balance method.								
7	58	4.0	4.0 Sample Collection and Packaging <table border="1"> <thead> <tr> <th>Item</th> <th>Purpose</th> </tr> </thead> <tbody> <tr> <td>Isotubes</td> <td>For collection of Gas during drilling, as and when required.</td> </tr> </tbody> </table>	Item	Purpose	Isotubes	For collection of Gas during drilling, as and when required.	4.0 Sample Collection and Packaging <table border="1"> <thead> <tr> <th>Item</th> <th>Purpose</th> </tr> </thead> <tbody> <tr> <td>Isotubes, Stainless Steel or aluminum gas sampler</td> <td>For collection of Gas sampled during drilling, as and when required (sampler is free from leakage and gas can be stored for at least 2 years without chemical or isotopic degradation. Supporting documents from Manufacturer will be required)</td> </tr> </tbody> </table>	Item	Purpose	Isotubes, Stainless Steel or aluminum gas sampler	For collection of Gas sampled during drilling, as and when required (sampler is free from leakage and gas can be stored for at least 2 years without chemical or isotopic degradation. Supporting documents from Manufacturer will be required)
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8	60	5.4.3	5.4.3 Lag Times: <ul style="list-style-type: none"> Carbide lag is to be recorded every shift or 500 meter while drilling or whenever required. Record resultant gas show on chromatograph mud log as response per gram of carbide. 	5.4.3 Lag Times: <ul style="list-style-type: none"> Lag time is to be recorded every shift or 500 meter while drilling or whenever required by using Mud Tracer. (Preferentially butane can also be used as tracer as it will show its presence on chromatograph mud log). 								
9	62	9.4	9.4 Real Time Monitors : Remote display LED screen of size not less than 55" capable of displaying graphic and alpha numerical real time data from Mud Logging Units shall be placed in the OIL's Geology & Reservoir Department and at Drilling Department (New Industrial Area), both at Duliajan. The real time monitoring system should also include necessary softwares for manual playback/ scroll back for viewing earlier events. The Real Time Monitors system should include: <ul style="list-style-type: none"> Remote, secure, real-time monitoring of time and depth based data from any global location. 	9.4 Real Time Monitors : Remote display LED screen of size not less than 55" capable of displaying graphic and alpha numerical real time data from Mud Logging Units shall be placed in the OIL's Geology & Reservoir Department and at Drilling Department (New Industrial Area), both at Duliajan. The real time monitoring system should also include necessary softwares for manual playback/ scroll back for viewing earlier events. The Real Time Monitors system should include: <ul style="list-style-type: none"> Remote, secure, real-time monitoring of time and depth based data from any global location. Data viewable through any web browser / web enabled device that 								

			<ul style="list-style-type: none"> Data viewable through any web browser / web enabled device that include PC, laptop, smart phone and tablets (apps based). Support and visualization for mud logging & drilling data. Number of access license:10 Facility for streaming in of 3rd party data like MWD, LWD, or any other data stream in WITS, WITSML from the rig site. Note: <ul style="list-style-type: none"> a.) Clientless remote desktop access in not acceptable. <p>Contractor will arrange necessary communication service viz. internet connection from drilling location to OIL's office at Duliajan. Bidder has to ascertain the integrity of data in case of intermittent failure of communication link (i.e. data sync during communication failure).</p> <p>Contractor should have experience to install and run successfully Real Time monitoring system in last 1 year (Documentary evidence required).</p>	<ul style="list-style-type: none"> include PC, laptop, smart phone and tablets (apps based). Support and visualization for mud logging & drilling data. Number of access license:10 Facility for streaming in of 3rd party data like MWD, LWD, or any other data stream in WITS, WITSML from the rig site. Note: <ul style="list-style-type: none"> a.) Clientless remote desktop access in not acceptable. <p>Contractor will arrange necessary communication service viz. internet connection from drilling location to OIL's office at Duliajan. However, in remote areas, OIL may arrange internet / VSAT facility. Bidder has to ascertain the integrity of data in case of intermittent failure of communication link (i.e. data sync during communication failure).</p> <p>Contractor should have experience to install and run successfully Real Time monitoring system in last 1 year (Documentary evidence required).</p>
10	8.0/ Amended Clause No. will be 9.0	<p>MOBILIZATION OF ADDITIONAL UNITS</p> <p>The Additional Units may be mobilized on a later date as per requirement of OIL and need to be mobilized anywhere in Company's operational area in India for Mud logging Services. A separate mobilization notice will be given for each of two Units and the Contractor must be able to mobilize within Ninety (90) days time from the time of intimation.</p>	<p>9.0 MOBILISATION OF TWO (2) ADDITIONAL UNITS WITHIN INDIA: The Additional Units may be mobilized on a later date as per requirement of OIL and need to be mobilized anywhere in Company's operational area in India for Mud logging Services. A separate mobilization notice will be given for each of two Units and the Contractor must be able to mobilize within one hundred twenty (120) days time from the time of intimation.</p>	

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