

**OIL INDIA LIMITED**  
(A GOVT. OF INDIA ENTERPRISE)  
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**AMENDMENT NO. 7 DATED 26.11.2021 TO TENDER NO. CDG7411L22  
FOR HIRING OF 03(THREE) NOS. WIRELINE LOGGING UNITS WITH  
SERVICES.**

This Amendment to Tender No. CDG7411L22 is issued to notify the following:

- 1) **Bid Closing & Opening date stands amended as under:**
  - (i) **Bid Closing date & Time:** 14<sup>th</sup> December, 2021 [11:00Hrs (IST)]
  - (ii) **Technical Bid Opening date & Time:** 14<sup>th</sup> December, 2021 [14:00Hrs (IST)]
- 2) The **Original Tender document** stands replaced with the **Revised Tender Document** uploaded on OIL's e-Procurement Portal.  
  
**Note:** For convenience, the changes made in the original tender clauses are shown vide **Enclosure-I** attached herewith.
- 3) The **original Priced Bid format** stands replaced with the **Revised Priced Bid Format** uploaded on OIL's e-Procurement Portal

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

**ENCLOSURE-I**  
**CHANGES MADE TO ORIGINAL CLAUSES OF TENDER NO. CDG7411L22**

Clause No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
<b>PART-2 : BID EVALUATION CRITERIA (BEC)</b>		
2.1 (ii) (Page 24 of 237)	OIL at its option may hire one more <b>Logging Unit (Unit-4)</b> with tools and accessories over and above the awarded quantity at mutually agreed rates limited to the rates as incorporated in the contract terms and conditions during the duration of the CONTRACT. However, hiring period of subsequently hired / mobilized unit(s)/equipment/tool(s) shall be co-terminus with that of the initially mobilized Units/equipment/tool(s) under this CONTRACT.	<b>DELETED</b>
2.3 (Page 25 of 237)	<b>VINTAGE:</b> i) Bids must meet the Vintage requirement of tools, equipment & Logging Unit as mentioned in <b>Part-3, Section-III (SCC)</b> .  ii) All Tools, Equipment and Units required for the services should be of latest version <i>and should not be more than 7 years old</i> as on the Bid closing date (set after finalization of tender clauses based on pre-bid conference), as mentioned in <b>Part-3, Section-III (SCC)</b> .	<b>DELETED</b>
2.4 (vi) (Page 25 of 237)	Bidders must give an undertaking to the effect that they are capable of processing and interpreting the log data to provide processed and interpreted results to OIL, wherever applicable, <b>within 48</b> hours from the time the logging survey is completed / recorded data is handed over to the Contractor at Duliajan base/Contractor's Data Processing Centre.	Bidders must give an undertaking to the effect that they are capable of processing and interpreting the log data to provide processed and interpreted <b>PROVISIONAL</b> results to OIL, wherever applicable, <b>within 48</b> hours from the time the logging survey is completed / recorded data is handed over to the Contractor at Duliajan base/Contractor's Data Processing Centre.
2.4 (vii) (Page 26 of 237)	Bids must contain the Tool Calibration data and Explosive Charge performance data sheets.	<b>DELETED</b>
2.4 (ix) (Page 26 of 237)	Bidders must provide the information regarding the number of oil-fields/ areas in which the Bidder is presently engaged. Proprietary information (Company Name, Field Name & Well	<b>DELETED</b>

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Clause No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
	Name) may be blanked out on the sample logs.	
6.7.1 (Page 35 of 237)	Categorisation and various criteria applicable to MSE bidders shall be guided by the Gazette Notification No. CG-DL-E-26062020-220191 dated 26.06.2020 issued by MINISTRY OF MICRO, SMALL AND MEDIUM ENTERPRISES.	Categorisation and various criteria applicable to MSE bidders shall be guided by the Gazette Notification No. CG-DL-E-26062020-220191 dated 26.06.2020 and Amendment vide Gazette Notification no. CG-DL-E-16062021-227649 DATED 16th June, 2021 issued by MINISTRY OF MICRO, SMALL AND MEDIUM ENTERPRISES. The existing enterprises registered under EM-Part-II or UAM till 30th June 2020 shall continue to be valid only for period up to the 31st day of December, 2021.
6.7.5 (Page 36 of 237)	<p><b><u>Documentation required to be submitted by MSEs:</u></b> The bidder claiming as MSE status (MSE General, MSE-SC/ST, MSE Woman) against this tender has to submit the following documents for availing the benefits applicable to MSEs:</p> <p>(i) Udyam Registration Number with Udyam Registration Certificate.</p>	<p><b><u>Documentation required to be submitted by MSEs:</u></b> The Bidder claiming as MSE status (MSE-General, MSE-SC/ST, MSE-Woman) against this tender has to submit the following documents along with the technical bid for availing the benefits applicable to MSEs:</p> <p>i. Udyam Registration Number with Udyam Registration Certificate.</p> <p style="text-align: center;"><b>Or</b></p> <p>ii. Proof of registration with District Industry Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or Udyog Adhaar registration or registration with any other body specified by Ministry of MSME.</p>
6.8.6 (Page 37 of 237)	<b>NEW CLAUSE</b>	<p>Bidders seeking PP-LC benefit against this tender shall have to mandatorily meet the following at the bidding stage:</p> <p>(i) Without specifying the unit rates and bid amount in the technical bid, the bidder must provide the <b>percentage (%) of local content in their bid.</b></p>

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		<p>(ii) The Bidder shall submit an undertaking from the authorised signatory of bidder having the Power of Attorney along with the bid, stating the percentage of Local Content in their bid and such undertaking shall become a part of the contract, if awarded.</p> <p>(iii) The aforesaid undertaking of the bidder shall also be supported by a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of other than companies) giving the percentage of local content.</p>
<b>PART-3, SECTION-II: SCOPE OF WORK (SOW)/TERMS OF REFERENCE (TOR)</b>		
2.2 (a) (Page 82 of 237)	OIL, at its option may hire one more Logging Unit (Unit-4) with the tools/equipment/services over and above the awarded quantity at same rates, terms and conditions during the duration of the CONTRACT, for deployment in OIL's operational areas anywhere in India, depending on requirement. If hired, Logging Unit-4 with services will be awarded to L-1 bidder.	OIL, at its option <b>and subject to acceptance by the Contractor</b> , may hire one more Logging Unit (Unit-4) with the tools/equipment/services over and above the awarded quantity at same rates, terms and conditions during the duration of the CONTRACT, for deployment in OIL's operational areas anywhere in India, depending on requirement. If hired, Logging Unit-4 with services will be awarded to L-1 bidder.
2.2 (d) (Page 82 of 237)	The Company shall give a separate notice to Contractor for mobilization of the Logging Unit-4. Contractor shall mobilize the Logging Unit-4 (along with all equipment, services and crew) within 60 (sixty) days from the date of issuance of mobilization notice by the Company.	The Company shall give a separate notice to Contractor for mobilization of the Logging Unit-4. Contractor shall mobilize the Logging Unit-4 (along with all equipment, services and crew) within <b>90 days</b> from the date of issuance of mobilization notice by the Company.
2.3 (Page 83 of 237)	Additional requirement, if any, of any of the tools mentioned in <b>Table-1</b> of this section may need to be mobilized by the Contractor at the same rate, terms & conditions during the Contract period. In such case, Company shall advise the Contractor to mobilize the same within a mobilization period	Additional requirement, if any, of any of the tools mentioned in <b>Table-1</b> of this section may need to be mobilized by the Contractor at the same rate, terms & conditions during the Contract period. In such case, Company shall advise the Contractor to mobilize the same within a mobilization period

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Clause No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
	of 60 (sixty) days.	of <b>90 days</b> .
3.0 (Page 83 of 237)	Standard services: These services are those which shall be mobilized by default along with the mobilization of the Logging Unit. They will remain hired for the entire hiring duration of the respective Logging Unit and will not be de-hired under normal circumstances. Such services are listed in sub-heading A of Table-1 below.	Standard services: These services are those which shall be mobilized by default along with the mobilization of the Logging Unit. They will remain hired for the entire hiring duration of the respective Logging Unit <del>and will not be de-hired under normal circumstances</del> . Such services are listed in sub-heading A of Table-1 below.
3.0 (Page 37 of 237)	Optional services: These services shall not be evaluated for award of logging units. Optional services may be hired if required on call-out basis during the contract subject to rate reasonability. Such services are listed in Table-3 of this section (List of Optional Tools).	<b>DELETED</b>
3.1 (Page 86 of 237)	Tools mobilized under each Service Code need to be used with any one of the Logging Unit of L-1 Bidder, as per Company's requirement. The ' * ' <b>mark</b> in Unit-3 column (of Special services section) in above table means that the special tools mobilized with Logging Unit-1 of the L-1 Bidder may need to be used with Logging Unit-3 as and when required. If the units are placed at any base other than Duliajan, the cost of transportation of the tool will be paid on actual basis.	Tools mobilized under each Service Code need to be used with any one of the Logging Unit of L-1 Bidder, as per Company's requirement. The ' * ' <b>mark</b> in Unit-3 column (of Special services section) in above table means that the special tools mobilized with Logging Unit-1 of the L-1 Bidder may need to be used with Logging Unit-3 as and when required. If the units are placed at any base other than Duliajan, the cost of transportation of the tool will be paid on actual basis <b>by the Company</b> .
3.5 (Page 86 of 237)	The following services must be <b>fully combinable</b> with each other so as to enable combo runs in any desired combination: <b>A-1, A-2, A-3, A-4, A-5, A-7, A-8, S-2, S-3, S-8 &amp; S-12</b> .	The following services must be fully combinable with each other so as to enable combo runs in any desired combination without affecting data quality: <b>A-1, A-2, A-3, A-4, A-5, A-7, A-8, S-8 &amp; S-12</b> . <del>If it is found that the contractor is not able to take up combo runs due to restrictions in tool combinability of any of the tool(s) then the Contractor shall have to replace such tool(s) immediately so as to meet the above tool combinability requirement. Until suitable replacement is provided meeting the above combinability, all the above tools shall be under zero rental.</del>
3.6	Cement Bond Evaluation service (A-8A) and Cement	Cement Bond Evaluation service (A-8A) and Cement

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Clause No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
(Page 86 of 237)	Evaluation and Casing Inspection service (A-9) <b>must be combinable</b> with each other and must be able to be logged in single run.	Evaluation and Casing Inspection service (A-9) <b>must be combinable</b> with each other and must be able to be logged in single run. <b>However, combinability is not required if the output of both these services can be obtained from any one of the services.</b>
3.9 (a) (Page 87 of 237)	The Contractor shall make arrangement for carrying out indented logging operations using their Mast-unit/crane for rig less jobs. The Company shall pay Rig less operation charges (as per Price Bid Format) in addition to the operation charge of the indented service. The Company shall advise 24 hours in advance when rig less services are required with the mast-unit/crane.	The Contractor shall make arrangement for carrying out indented logging operations using their Mast-unit/crane for rig less jobs. The company shall pay <b>on per day basis including waiting periods on account of reasons such as well delay, etc., which are attributable to the Company</b> , in addition to the operation charge of the indented service.  <b>The company shall advise 4 days in advance when rig less services are required with the mast-unit/crane. OIL may cancel such indent within the first 3 days without any cancellation fee. However, if cancelled after 3 days of notice period, then the Company shall pay 50% of per day charge as “cancellation fee”.</b>
3.10 (Page 87 of 237)	All perforation services (A-12, A-14, A-15, A-17, A-18, A-19) shall be carried out using <b>Safe detonators</b> . The quoted Operating Charges shall be inclusive of safe detonators. Safe detonators used by the Contractor should be safe against RF and all kind of extraneous electricity such as cathodic protection, stray voltage, static electricity, etc.  In exceptional instances when the service provider is unable to provide safe detonators, CGM-Well Logging may decide to use normal detonators if the situation permits. In such cases when normal detonators are used, then a deduction of 20% from the Operating charge shall be applicable for that job.	<b>DELETED</b>
5.0 (Page 92)	OPTIONAL SERVICES (TOOLS ON-CALL)	<b>DELETED</b>

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<b>Clause. No.</b>	<b>ORIGINAL CLAUSE</b>	<b>MODIFIED CLAUSE</b>
of 237)		
6.1(e) (Page 94 of 237)	Dual logging system so that in case of failure, logging operation can be continued by using the backup system.	<b>DELETED</b>
6.1(g) (Page 94 of 237)	Tools and equipment must have minimum temperature rating of 150 degrees C (300° F) and minimum pressure rating of 15000 psi.	<b>DELETED</b>
6.1(j) (Page 94 of 237)	<b>NEW CLAUSE</b>	<p>The unit must be capable of carrying out all the operations mentioned in the SOW upto a depth of <b>5600m</b> in vertical/deviated wells. Both sizes of cables (mono and multiconductor) should be available simultaneously to cater to the above well depth.</p> <p>However, because of drum capacity constraints and/or operational efficiency, the Contractor may keep cable length in their truck to cater to wells of depths upto 4500m. However, in this case the Contractor at all times shall keep an additional cable drum exclusively for logging operations in deep wells upto 5600m. The Contractor should be able to switchover to the other spare drum (containing longer cable) for logging in deep wells upto 5600m in a short notice when such requirement arises.</p> <p>The contractor may keep a common spare cable drum good for immediate replacement during cable splicing requirements (as mentioned in clause 9.0 of SOR) and for logging in deeper wells up to 5600m.</p> <p>In such an arrangement by Contractor, if the spare cable drum (containing longer cable for wells upto 5600m) is found to be unavailable at any point of time then penalty charge of 2% of monthly contract value shall be recovered every month until spare drum is provided. Additionally, for every month of</p>

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		delay, penalty shall be increased by 2% limited to a maximum of 6% (i.e., if delay is more than one month, penalty applicable shall be increased in steps of 2% every month, eg., for 1st month – 2% penalty, 2nd month - 4% penalty, from 3rd month onwards- 6% penalty). However, for fished cable the above penalty shall be applicable only after the 1 month period allowed for cable splicing/replacement as mentioned in clause SOR 9.0.
6.2 (b) (Page 95 of 237)	<b>Final data submission:</b> Final data to be submitted within <b>02 (two) days</b> of recording as follows:	<b>Final data submission:</b> Final data to be submitted within <b>03 (three) days</b> of recording as follows:
6.4(a) (Page 95 of 237)	At Well Site: Logging truck must be equipped to carry out quick look processing at the well site.	<b>DELETED</b>
6.4(b) (i) (Page 95 of 237)	The data processing and interpretation Geoscientists/ Engineers will have to carry out detailed processing of the data and submit the result <b>within 48 hours</b> from the time the survey is completed/ after handing over the recorded data to Contractor at Duliajan. Processed/ interpreted data must be submitted by Bidders representative stationed at Duliajan base.	The data processing and interpretation Geoscientists/ Engineers will have to carry out detailed processing of the data and submit the <b>provisional</b> result <b>within 48 hours</b> from the time the survey is completed/ after handing over the recorded data to Contractor at Duliajan. <b>Final result is to be submitted within 72hrs (soft copy acceptable). Hardcopies and data (in suitable media) of final processed product to be submitted within 7 days.</b> Processed/ interpreted data must be submitted by Bidders representative stationed at Duliajan base.
6.4(b) (ii) (Page 96 of 237)	For delay in submission of processed data within defined time period, recovery shall be made from the Contractor as per clause 14.6 of Part-3 Section-III (SCC).	For delay in submission of <b>provisional</b> processed data within defined time period, recovery shall be made from the Contractor as per clause 14.6 of Part-3 Section-III (SCC).
<b>PART-3; SECTION-III; SPECIAL CONDITIONS OF CONTRACT (SCC)</b>		
1.2 (Page 98 of 237)	<b>DEFINITIONS:</b> <b>Interim/subsequent mobilization:</b> Any mobilization of tool(s) or unit which takes places after the initial mobilization, any time during the contract period. It may be the first time	<b>Interim/subsequent mobilization:</b> Any mobilization of tool(s) or unit which takes places after the initial mobilization, any time during the contract period. It may be the first time mobilization of a Special service/ Logging unit <b>with tools</b>



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Clause No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
	mobilization of a Special service/ Logging unit which was not mobilized during initial mobilization or it may be the case of remobilization.	which was not mobilized during initial mobilization or it may be the case of remobilization.
2.0 (Page 98 of 237)	<b>DATE OF COMMENCEMENT OF CONTRACT:</b> The date on which the mobilizations of the Logging Unit-1 and Logging Unit-2 with tools/ equipment/ services including personnel are completed in all respects as defined in <b>Clause 5.11</b> of this section (Completion of Mobilization), shall be treated as Date of Commencement of contract for the respective Unit.	<b>DATE OF COMMENCEMENT OF CONTRACT:</b> <b>The Commencement of Contract duration shall be from the date of expiry of 90 days from the issue date of LOA irrespective of early or delayed mobilization. The Contractor should hence plan their mobilization accordingly.</b>
3.1 (Page 98 of 237)	For Logging Unit-1 and Logging Unit-2, total duration of the contract will be 4 (Four) years from the date of commencement of contract with an option for extension.	For Logging Unit-1 and Logging Unit-2, total duration of the contract will be 4 (Four) years from the date of commencement of contract <b>(as mentioned in SCC clause 2.0 above)</b> with an option for extension.
3.2 (Page 98 of 237)	If the contract period expires during an ongoing logging job, the contract will automatically be extended till the completion of that logging job/ assignment with same terms and conditions.	If the contract period expires during an ongoing logging job, the contract will automatically be extended till the completion of that logging job/ <del>assignment</del> with same terms and conditions.
5.1 (Page 98 of 237)	The Mobilization of the Unit(s) and the personnel shall commence from the date of receipt of the Letter of Award (LOA)/mobilization notice issued by Company.	The Mobilization <b>period</b> of the Unit(s) and the personnel shall commence from the date of <del>receipt</del> issue of Letter of Award (LOA)/mobilization notice issued by Company.
5.5 (b) (Page 99 of 237)	Contractor must mobilize their personnel, logging unit, equipment, tools, spares and all other necessary materials including explosives and radioactive materials required for carrying out the logging and other related operations within <b>60 days</b> from the date of issue of Letter of Award (LOA) by the Company.	Contractor must mobilize their personnel, logging unit, equipment, tools, spares and all other necessary materials including explosives and radioactive materials required for carrying out the logging and other related operations within <b>90 days</b> from the date of issue of Letter of Award (LOA) by the Company.
5.6(c) (Page 99 of 237)	Contractor must mobilize Logging Unit-3 along with personnel, equipment, tools, spares and all other necessary materials including explosives and radioactive materials required for carrying out the logging and other related	Contractor must mobilize Logging Unit-3 along with personnel, equipment, tools, spares and all other necessary materials including explosives and radioactive materials required for carrying out the logging and other related

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Clause No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
	operations within 60 days from the date of issue of mobilization notice.	operations within <b>90 days</b> from the date of issue of mobilization notice.
5.6(e) (Page 99 of 237)	<b>NEW CLAUSE</b>	The Company shall have the option to de-hire or re-hire Logging Unit-3 with associated tools up to 02 times (including initial mobilization) during the contract period depending upon the work requirement.
5.7(b) (Page 99 of 237)	Contractor must mobilize Unit-4 along with personnel, equipment, tools, spares and all other necessary materials including explosives and radioactive materials required for carrying out the logging and other related operations within 60 days from the date of issue of mobilization notice.	Contractor must mobilize Unit-4 along with personnel, equipment, tools, spares and all other necessary materials including explosives and radioactive materials required for carrying out the logging and other related operations within <b>90 days</b> from the date of issue of mobilization notice.
5.8(a) (Page 100 of 237)	The Contractor shall mobilize Special/Optional services within 60 days from issuance of notice in case of first time mobilization and 45 days time in case of remobilization.	The Contractor shall mobilize Special/ <del>Optional</del> services within <b>90 days</b> from issuance of notice in case of first time mobilization and <b>60 days</b> time in case of remobilization.
5.8(d) (Page 100 of 237)	Mobilization of Special tool(s) shall be for a period of not less than six months with a maximum till the contract is valid. In case of Optional tools, there is no such minimum hiring period and Company may mobilize these tools on monthly/daily rental basis depending on requirement. In case the contract is terminated before six months from the mobilization date of any of the tools mentioned above, the hiring period will be restricted to the date till the Contract is valid.	Mobilization of Special tool(s) shall be for a period of not less than six months with a maximum till the contract is valid. <del>In case of Optional tools, there is no such minimum hiring period and Company may mobilize these tools on monthly/daily rental basis depending on requirement.</del> In case the contract is terminated before six months from the mobilization date of any of the tools mentioned above, the hiring period will be restricted to the date till the Contract is valid.
5.10 (Page 100 of 237)	<b>Readiness of Data Processing Service:</b> Centre for Data processing services for processing of data acquired by Contractor's unit or third-party data as specified in scope of work must be ready within the mobilization time of corresponding unit (i.e. within <b>60 days</b> from the date of issue of LOA). At the time of mobilization, Contractor shall make a declaration of preparedness of such centre to take up required job and submit details of the facility/capability of the data processing centre, its location, Bio-Data of the	<b>Readiness of Data Processing Service:</b> Centre for Data processing services for processing of data acquired by Contractor's unit or third-party data as specified in scope of work must be ready within the mobilization time of corresponding unit (i.e. within <b>90 days</b> from the date of issue of LOA). At the time of mobilization, Contractor shall make a declaration of preparedness of such centre to take up required job and submit details of the facility/capability of the data processing centre, its location, Bio-Data of the

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	processing/interpretation personnel showing required experience and proof of employment of the processing/interpretation personnel with the contractor.	processing/interpretation personnel showing required experience and proof of employment of the processing/interpretation personnel with the contractor.
5.11 (Page 101 of 237)	Subsequent to mobilization, the Company shall inspect the Contractor's equipment within <b>10 (ten) days</b> of receipt of the Contractor's <b>Notice of Readiness for Inspection</b> , both for initial and interim mobilization.	Subsequent to mobilization, the Company shall inspect the Contractor's equipment within <b>5 (five) days</b> of receipt of the Contractor's <b>Notice of Readiness for Inspection</b> , both for initial and interim mobilization.
5.13 (Page 101 of 237)	<p><b>Transportation of tools/equipment between bases:</b>  Tools/equipment mobilized under the contract may need to be used with other logging units awarded to the same Bidder when required. If the units are located at different bases, the cost of transportation of the tool(s) will be paid on actual basis.</p> <p>Transportation of tool(s) should be completed within <b>15 days</b> from issue of inter-base tool transportation notice.</p>	<p><b>Transportation of tools/equipment between bases:</b>  Tools/equipment mobilized under the contract may need to be used with other logging units awarded to the same Bidder when required. If the units are located at different bases, the cost of transportation of the tool(s) will be paid on actual basis.</p> <p>Transportation of tool(s) should be completed within <b>25 days</b> from issue of inter-base tool transportation notice.</p>
6.1 (Page 101 of 237)	<p><u>Default in timely mobilization of Logging units:</u>  Time is of the essence in this contract. In the event of the Contractor's default in timely mobilization of Logging Units/ Standard tools with personnel for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages at the rate of 0.5% of 1st year contract value including mobilization charge for each Logging unit per week or part thereof delay subject to maximum of 7.5%.</p> <p>Liquidated Damages will be reckoned from the date after expiry of the scheduled mobilization period and till the date of Commencement of Contract as defined under Clause 5.11 of this section.</p>	<p><u>Default in timely mobilization of Logging units:</u>  Time is of the essence in this contract. In the event of the Contractor's default in timely mobilization of Logging Units/ Standard tools with personnel for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages at the rate of 0.5% of 1st year contract value including mobilization charge for each Logging unit per week or part thereof delay subject to maximum of 7.5%.</p> <p>Liquidated Damages will be reckoned from the date after expiry of the scheduled mobilization period and till the date of <del>Commencement of Contract</del> <b>completion of mobilization</b> as defined under Clause 5.11 of this section.</p>
6.2 (Page 102 of	<b>Default in timely mobilization of Special tools/Optional tools/ Replacement of LIH tools:</b>	<b><u>Penalty for default in interim mobilization of Special tools:</u></b>

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Clause No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
237)	Time is the essence of this Contract. In the event of the Contractor's default in interim mobilization of the Special equipment/Tools/Services and Tools on call (optional) in time during the tenure of the contract as per Clause 5.8 of this section for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages at the rate of 0.5% of 1st year contract value including mobilization charge for the Special equipment/Tools/Services and Tools on call (optional) per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the date after expiry of the scheduled mobilization time till arrival of the Tools/Services at site and the same are in readiness to commence work as defined under Clause 5.11 of this section.	Time is of the essence in this Contract. In the event of the Contractor's default in timely mobilization of Special equipment/Tools/Services within the stipulated period (as mentioned in Clause 5.8 of this section), charges shall be recovered from the Contractor as per Table 4 in clause 14.3(f) of this section. Such recovery shall be applicable immediately from the expiry of the scheduled mobilization time till arrival of the Tools/ Services at site and the same are in readiness to commence work as defined under Clause 5.11 of this section.
7.0 (a) (Page 102 of 237)	All the unit must be State of the Art (latest version of Full Maxis 500, LOGIQ, ECLIPS or equivalent) capable of running all the tools and services under the Contract. Down-hole tools must be of recent generation. Down hole tools should have down-hole digitization, wherever applicable.	All the unit must be State of the Art (latest version of Full Maxis 500, LOGIQ, ECLIPS or vendors latest acquisition system) capable of running all the tools and services under the Contract. Down-hole tools must be of <b>current/latest</b> technology. Down hole tools should have down-hole digitization, wherever applicable.
7.0 (c) (Page 102 of 237)	All Tools, Equipment and Unit required for the services should be of latest version and should not be more than 07 (seven) years old as on the bid closing date.	At the time of mobilization, the Contractor shall submit a list of offered Logging truck and Downhole Logging Tools (excluding accessories) with documentary proof of the year of manufacturing.
7.0 (e) (Page 102 of 237)	New Clause	The bidder has to provide vehicle fitness certificate for logging unit(s) at the time of mobilization. During the period of Contract, the fitness certificate has to be renewed as per periodicity specified in the prevailing rules of Motor Vehicle Act/CMVR.
10.0 (g)(ii) (Page 104 of 237)	<u>Experience of Logging Engineer:</u> The Logging Engineers deployed must be Graduate with at least three (03) years of relevant experience or Diploma with a least five (05) years of	<u>Experience of Logging Engineer:</u> The Logging Engineers deployed should have at least three (03) years of relevant experience of carrying out wireline logging and perforation

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	relevant experience of carrying out wireline logging and perforation and related services as specified in SOW. Deployed logging engineers must be able to handle independent assignments and must have logged at least 10 wells in an independent capacity in earlier assignments on the bid closing date.	and related services as specified in SOW. Deployed logging engineers must be able to handle independent assignments and must have logged at least 10 wells in an independent capacity in earlier assignments on the bid closing date.
11.8 (Page 106 of 237)	<p><b><u>Existing HSE clause to be replaced by the following new HSE points:</u></b></p> <p>1. The Contractor shall be solely responsible to comply all the statutory norms as applicable while executing the job. It will be solely the Contractor's responsibility to fulfill all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely: the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. Ensure that all sub-contractors hired by him comply with the same requirement as the Contractor himself and shall be liable for ensuring compliance of all HSE laws by the sub-contractors. It will be the responsibility of the Contractor/his Supervisor/representative to ensure strict adherence to all HSE measures and statutory Rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by representative of OIL.</p> <p>2. The Contractor engaged for any electrical installation, maintenance, repairs etc., should possess a valid electrical Contractor license issued by the State Electricity Licensing Board and engage adequate number of competent electrical personnel. All the Competent persons shall have appropriate Work Permit/ Supervisory License issued by State Electricity Licensing Board. It shall be included in Terms and Conditions of contract agreement/NIT (Notice Inviting Tender) and shall</p>	

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	<p>be ensured by the OIL Engineer in charge.</p> <p>3. The Contractor shall ensure complete safety of the personnel engaged by him, and of all the equipment, they will handle and must take full responsibility for their safety.</p> <p>4. Contractor's arrangements for health and safety management shall be consistent with those for the company (OIL).</p> <p>5. A Contractor employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's Actor omissions at work.</p> <p>6. The Contractor should frame a mutually agreed bridging document between OIL &amp; the Contractor for all issues not envisaged under the terms and conditions of the contract with the roles and responsibilities clearly defined.</p> <p>7. Statutory forms to be maintained in respect to Mines Act, 1952, Mines Rules 1955, Oil Mines Regulations 2017, the Environment (Protection) Act-1986 and other applicable laws.</p> <p>8. The Contractor, wherever applicable, shall obtain necessary hazardous waste authorization from the State Pollution Control Board for storage, handling and disposal of hazardous waste.</p> <p>9. As per DGMS circular &amp; Gazette Notification for maintenance of register as required by the Mines Act1952 and Mines Rules, 1955, the forms A, B, D and E have been updated and modified. The above-mentioned forms need to be maintained as per the new format.</p> <p>10. The Contractor shall submit to DGMS returns indicating — Name of his firm, Registration number, Name and address of person heading the firm, Nature of work, type of deployment work persons, Number of work persons deployed, how many work hold VT Certificate, how many work persons undergone IME and type of medical coverage given to the</p>	

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	<p>work persons.</p> <p>11. The return shall be submitted quarterly (by 10th of April, July, October &amp; January) for contracts of more than one year. However, for contracts of less than one year, returns shall be submitted monthly.</p> <p>12. The Contractor has to keep a register of the persons employed by him/her. The Contractor's supervisor shall take and maintain attendance of his men every day for the work, punctually.</p> <p>13. The health check-up of Contractor's personnel is to be done by the Contractor in OIL empanelled Hospital and the reports and statutory forms as applicable to be vetted from the OIL authorized Medical Officer. The frequency of periodic medical examinations should be every five years for the employees up to 45 years of age and every three years for employees of 45 years of age and above. Initial Medical Examination should be in line with the standard followed by OIL.</p> <p>14. All persons deployed by the Contractor for working in a mine must undergo Mines Vocational Training, initial medical examination and Periodic Medical Examination (if required). They should be issued cards stating the name of the Contractor and the work and its validity period, indicating status of MVT, IME &amp; PME.</p> <p>15. Every person deployed by the Contractor must use appropriate PPEs (Personal Protective Equipment) to be provided by the Contractor. The Contractor shall provide Personnel Protective Equipment as per the hazard identified and risk assessed for the job and conforming to statutory requirement and company's PPE schedule. Safety appliances like protective footwear, Safety Helmet and Full Body harness, Fall Prevention Devices (FPD) shall conform to relevant IS codes. Necessary supportive document shall have</p>	

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	<p>to be available at site as proof. If the Contractor fails to provide the safety items as mentioned above to the working personnel, the Contractor may request to the Company (OIL) for providing the same. In case of exigency OIL will provide the safety items if available. However in turn, OIL will recover the actual cost of the items by deducting from Contractor's Bill. However, it will be the Contractor's sole responsibility to ensure that the persons engaged by him in the mines use the proper PPE while at work. Contractor employees should be trained in the proper use and maintenance of PPE. In absence of appropriate PPEs, the representative of OIL has the right to stop the work which will be binding for the Contractor. Moreover, the accountability towards any delay in work/ penalty due non-adherence to PPE shall be binding to the Contractor.</p> <p>16. Soft copy of the Standard Operating Procedures (SOPs) related to scope of work shall be handed over to the representative of OIL by Contractor including an assessment of risk, wherever possible and safe methods to deal with it/them. Printout of copy (spiral binding) of the SOP mentioned above is to be kept with all working teams at all times. The SOP clearly stating the risk arising to men, machineries &amp; material from the mining operation / other operations to be done by the Contractor and how it is to be managed. However; in case of any doubts, the Contractor shall reconfirm the same from the Engineer In Charge (OIL).</p> <p>17. Contractor has to ensure that all work is carried out in accordance with the Statute and the SOP and for the purpose he may deploy adequate qualified and competent personnel for the purpose of carrying out the job in a safe manner. For the work which is not covered under SOP, the Contractor shall develop it and submit to the representatives of OIL.</p> <p>18. In case of deviation of SOP or non-availability of SOP, Job</p>	



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	<p>Safety Analysis (JSA) shall be carried out before commencement of the work.</p> <p>19. Necessary cold and hot work permits including excavation clearance and permission for working at height, Confined Space Entry as applicable are to be obtained by the competent person of the Contractor from the site representative of OIL before start of the job(s). Work Permit System should be inline as per guidelines issued by HSE Department.</p> <p>20. Necessary facilities for monitoring the levels of parameters in respect of Methane, Oxygen, Hydrogen Sulphide and Carbon Monoxide should be provided at mines. Portable multi-gas detector (LEL/O2/CO/H2S) and FLP torch light to be made available at site.</p> <p>21. The Contractor's personnel should be aware about the existing as well as probable hazards and ensured their training to tackle such untoward events by the Contractor. If the Company (OIL) arranges any safety awareness program / training for the working personnel at site (company employee, Contractor worker, etc.) the Contractor will not have any objection to any such training.</p> <p>22. The Contactor personnel shall arrange daily meeting and monthly pit level meeting headed by the OIL Engineer and maintain records accordingly. Safety Briefing, Evacuation plan in case of emergency and how to inform (in case of emergency) to be discussed during the Tool Box meeting.</p> <p>23. After receipt of the work order the Contractor shall have to submit authorized list of Contract Personnel, who will be engaged for the jobs including name of the Contractor's competent persons and every contact details. No person shall be engaged in any job in a mine unless his competency has been assessed and approved by the OIL Engineer In Charge.</p> <p>24. The Contractor shall not engage minor labourer below</p>	

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	<p>eighteen (18) years of age under any circumstances.</p> <p>25. OIL will communicate all information to the Contractor or his authorized representative only.</p> <p>26. The Contractor shall have to report all incidents including near miss to the representative of OIL who shall be supervising the Contractor's work.</p> <p>27. Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the Contractor only.</p> <p>28. Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the Contractor and their medical treatment/ facilities in case of accidents should be provided by the same Contractor. The Contractor's personnel should be aware about the existing as well as probable hazards and ensured their training to tackle such untoward events by the Contractor.</p> <p>29. Contractor shall keep a reasonable degree of order by disposing of accumulated rubbish and excess material. Disposal of solid wastes generated by the Contractor shall be in accordance with the company's Procedure for Solid Waste Management. The Contractor Personnel have to take every possible care to keep the environment clean and free from pollution.</p> <p>30. The Contractor have to ensure the quality and reliability of all the tools, equipment and instruments they use. The supporting documents relevant to prove the above should be submitted. Defective tools shall be immediately removed.</p> <p>31. The Contractor should prevent the frequent change of his deployed employees as far as practicable. The Contractor shall not employ or terminate his worker without the knowledge of the OIL engineer in charge. However, if OIL Engineer In Charge found any person not appropriate to with</p>	

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	<p>respect to job, the Contractor has to remove the person and replace a suitable person within the timeline as per the terms of the Contract.</p> <p>32. Contractor's Supervisor/ Contractor's personnel needs to be aware about the site specific emergency response plan (which includes display of emergency contact nos., establish telephone communication, layout of working area, use of fire extinguisher, emergency exit, assembly point).</p> <p>33. All Lifting equipment of the Contractor like Crane etc. shall have to be duly calibrated. Calibration Certificate of this equipment shall have to be submitted to the representatives of OIL and a copy of the same to be made available at site.</p> <p>34. Necessary sign-board / warning signals like caution, "hot work" in progress, emergency telephone numbers, no entry without permission etc. should be used while working on tanks. The said signals / sign-boards shall have to be arranged by the Contractor and shall be in line with the circular of signboards issued by HSE Department, Oil India Limited.</p> <p>35. Barricading of area to be done with reflecting tapes as applicable during work.</p> <p>36. The First-Aid box should be provided by the Contractor and the same has to be kept ready to use at the site throughout the working hours.</p> <p>37. The availability of First-Aid Fire Fighting equipment should be ensured by the Contractor at all working hours.</p> <p>38. Smoking is prohibited in all Company restricted areas except in authorized smoking areas/ shelters. Carrying of matches and lighters into the Hazardous Area is prohibited. Cellular phones shall not be used in operating areas / hazardous areas unless they have been classified as 'intrinsically safe' for use in that atmosphere. Consumption of alcohol and possession of non- prescribed drug in Company</p>	

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	<p>work site is strictly prohibited.</p> <p>39. When there is a significant risk to health, environment or safety of a person or place arising because of a non-compliance of HSE Measures Company will have the right to direct the Contractor to cease work until the non-compliance is corrected.</p> <p>40. The Contractor personnel should understand the implication of the known hazards related to the work undertaken by them and the necessity of having an emergency plan approved by OIL to counter them, if anything goes wrong.</p> <p>41. In case Contractor is found non-compliant of HSE laws as required and all the above mentioned general HSE points, company will have the right for directing the Contractor to take action to comply with the requirements, and for further non-compliance, the Contractor will be penalized as per the terms of the Contract.</p> <p>42. Considering the ongoing Covid-19 pandemic, those who are engaged in the above operations should be followed the Covid-19 Protocol as per the prevailing Government Guidelines.</p> <p>43. Any requirement arise by the Statutory Authorities during the period of contract shall be applicable and binding for the Contractor.</p>	
11.9 (Page 106 of 237)	<p><b>Pollution Control:</b> Contractor undertakes that substances or rubbish in any form originating from Contractor's equipment shall not be dumped or discharged at, or around the well location. However, in the event of such dumping or discharge by Contractor, Contractor shall immediately assume all responsibility at their cost for the removal of items, substances or rubbish so dumped or discharged and for any resulting pollution or contamination in any form, in the well location and the surrounding area.</p>	<p>Moved to SCC 17.0 POLLUTION OR CONTAMINATION as new clause number 17.3</p>

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13.4 (Page 109 of 237)	<p>In the event tool is LIH or tool damaged beyond repair after fishing operation, the Contractor shall mobilize replacement tool within <b>30 days</b> from the day the tool is declared lost in hole or damaged beyond repair. Liquidated Damages as per Clause 6.2 will be recovered for delay in mobilization.</p> <p>However for special tools, OIL may defer mobilization of replacement tools if the same are not immediately required by the company.</p> <p>For replacement due to loss/damage of tools to sub-surface equipment Company shall pay the customs duty, if applicable or issue Recommendatory Letter for availing zero customs duty.</p>	<p>In the event tool is LIH or tool damaged beyond repair after fishing operation, the Contractor shall mobilize replacement tool within <b>90 days</b> from the day the tool is declared lost in hole or damaged beyond repair. <b>In case of delay in mobilization of replacement tool(s), such critical services shall be deemed as unavailable to Company and recovery as per Table 4 of SCC clause 14.3(f) shall be applicable immediately upon expiry of mobilization period (it is to be noted that no additional 14 days shall be allowed on top of 90 days).</b></p> <p>However, for special tools, OIL may defer mobilization of replacement tools if the same are not immediately required by the company.</p> <p>For replacement due to loss/damage of tools to sub-surface equipment Company shall pay the customs duty, if applicable or issue Recommendatory Letter for availing zero customs duty.</p>
14.2 (a) (Page 110 of 237)	<p>In the event logging unit becomes unavailable for use by the Company, rental for all services (i.e., all standard, special and optional tools attached to that logging unit) along with the Unit will be put under <b>zero rental charge</b> with effect from the last date of successful logging operation with that unit till the unit is made available for use. In case, if the last successful logging operation using that particular logging unit is more than one month ago, then recovery of rental charges for past period shall be restricted to a maximum one (1) month.</p> <p>However, in the event of wire-line cable failure/ other cable issues, all services which are rendered unusable/affected shall go under zero-rental from the date of last successful logging operation with that cable.</p>	<p>In the event logging unit becomes unavailable for use by the Company, rental for all services (i.e., all standard, special and optional tools attached to that logging unit) along with the Unit will be put under <b>zero rental charge</b> with effect from the last date of successful logging operation with that unit till the unit is made available for use. In case, if the last successful logging operation using that particular logging unit is more than one month ago, then recovery of rental charges for past period shall be restricted to a maximum one (1) month.</p> <p>However, in the event of wire-line cable failure/ other cable issues, all services which are rendered unusable/affected shall go under zero-rental from the date of last successful logging operation with that cable <b>up to a maximum of one</b></p>

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		month.					
14.3 (c) (Page 110 of 237)	<p>During logging operation, if any tool fails after it has recorded a log section, then the failed tools will be under zero rental starting from this day in which it failed at well-site.</p> <p>In such cases, if the partial recorded log is accepted by the Company and it is decided that no second attempt will be made to record log in the non-recorded interval, then operating charge will be payable for the partially recorded job on pro-rata basis. If second attempt is made to record the remaining log by rectifying/ replacing the faulty tool(s) and is successful in recording the complete interval, then no operating charge shall be payable for the previous partially recorded log run and the successful logging run shall be payable in full.</p>	<p>During logging operation, if any tool fails after it has recorded a log section, then the failed tools will be under zero rental starting from this day in which it failed at well-site.</p> <p>In such cases, if the partial recorded log is accepted by the Company and it is decided that no second attempt will be made to record log in the non-recorded interval, then operating charge will be payable for the partially recorded job with the flat charge component pro-rated to the job units actually acquired in respect to the estimated job units mentioned in Price Proforma. If second attempt is made to record the remaining log by rectifying/ replacing the faulty tool(s) and is successful in recording the complete interval, then no operating charge shall be payable for the previous partially recorded log run and the successful logging run shall be payable in full.</p>					
14.3(f) (Page 111 of 237)	<p>The contractor must ensure that tools which are out of service (eg., malfunctioned tools, idling of tools due to lack of spares/ consumables/ explosives) are made available within a period of <b>14 days</b> from the date of it became out of service. If the Contractor fails to make the service(s) available within the stipulated period, charges shall be recovered from the Contractor (in addition to non-payment of rental of the malfunctioning tool) as per the schedule mentioned in the following table:</p> <p><b>TABLE 4: SCHEDULE OF DEDUCTIBLES</b></p> <table><tr><td>No. of out of service tools beyond 14</td><td>* Amount Deductible per month from the</td><td>Percentage of rental finally payable after</td></tr></table>	No. of out of service tools beyond 14	* Amount Deductible per month from the	Percentage of rental finally payable after	<p>The contractor must ensure that tools which are out of service (due to malfunctioning, idling of tools due to lack of spares/ consumables/<del>explosives</del>) are made available within a period of <b>14 days</b> from the date it became out of service. If the Contractor fails to make the service(s) available within the above stipulated period, charges shall be recovered from the Contractor (in addition to non-payment of rental of the <del>unavailable</del> services) as per the schedule mentioned in the following table until the tool(s) is made available to the Company:</p> <p><b>TABLE 4: SCHEDULE OF DEDUCTIBLES</b></p> <table><tr><td>No. of unavailable tools/services</td><td>Percentage of the monthly contract value of the affected logging unit (inclusive of all</td></tr></table>	No. of unavailable tools/services	Percentage of the monthly contract value of the affected logging unit (inclusive of all
No. of out of service tools beyond 14	* Amount Deductible per month from the	Percentage of rental finally payable after					
No. of unavailable tools/services	Percentage of the monthly contract value of the affected logging unit (inclusive of all						

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	<b>days</b>	<b>Total payable rental.</b>	<b>deduction.</b>		<b>services) which will be recovered from the Contractor for per month of unavailability.</b>
	<b>1</b>	5%	95%	<b>1</b>	2%
	<b>2</b>	10%	90%	<b>2</b>	4%
	<b>3</b>	15%	85%	<b>3</b>	6%
	<b>4</b>	20%	80%	<b>4</b>	8%
	<b>5</b>	25%	75%	<b>5</b>	10%
	<b>6</b>	30%	70%	<b>6</b>	12%
	<b>7 and more</b>	35%	65%	<b>7 and more</b>	14%
	<p>* Total payable rental amount means the total monthly rental comprising of all the tools/truck/equipment (excluding failed tools) which have been mobilized (both in Standard &amp; Special category).</p> <p>Note: Above deductions shall be on pro-rata basis for actual no. of days the tools are not available to Company.</p>			<p>Note: Above recovery shall be pro-rated to number of days.</p> <p>However, in case of fished out tools which are repairable, a repair period of <b>60 days</b> from the day of tool recovery at surface shall be allowed beyond which the above penalty shall be applicable.</p>	
14.3 (h) (Page 111 of 237)	<p><b>Frequent failure of tools:</b> If services are affected due to frequent failure of the tool(s) which are declared as rectified by the Contractor but fails subsequently, then the Company shall notify the Contractor to replace such unreliable tool(s). The Contractor must replace the unreliable tool(s) within 14 days of such intimation.</p> <p>If not replaced within the above-mentioned period, additional</p>			<p><b>Frequent failure of tools:</b> If services are affected due to frequent failure of the tool(s) <b>for reasons attributable to Contractor</b>, which are declared as rectified by the Contractor but fails subsequently, then the Company shall notify the Contractor to replace such unreliable tool(s). The Contractor must replace the unreliable tool(s) within <b>35 days</b> of such intimation.</p>	

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	deductions as per Table-4 in Clause 14.3(f) above shall apply.	If not replaced within the above-mentioned period, additional deductions as per Table-4 in Clause 14.3(f) above shall apply.
14.4 (a) (Page 111 of 237)	<p>In case of <b>loss of rig time</b> on Contractor's account of for providing logging services, the Contractor will make good the Company against such loss of rig time @ <b>USD 600.00 per hour</b> for Drilling rig and @ <b>USD 250.00 per hour</b> Workover rig. Such recovery shall however be limited to a maximum of 6 hours.</p> <p>For the sake of calculation of rig time loss due to delay, scheduled well readiness mentioned in Job Indent shall be taken as reference for reaching wellsite.</p>	<p>In case of <b>loss of rig time</b> on Contractor's account for <b>not</b> providing logging services <b>for reasons solely attributable to Contractor</b>, the Contractor will make good the Company against such loss of rig time @ <b>USD 600.00 per hour</b> for Drilling rig and @ <b>USD 250.00 per hour</b> Workover rig. Such recovery shall however be limited to a maximum of 6 hours.</p> <p>For the sake of calculation of rig time loss due to delay, scheduled well readiness mentioned in the <b>rig DPR or</b> Job Indent, <b>whichever is later</b>, shall be taken as reference for reaching wellsite.</p>
14.5(a) (Page 112 of 237)	<p><u>Removal of Logging tool(s) by Contractor:</u> Contractor is not allowed to remove Logging tools from its base or campsite (for far away location) unless replacement tool of same or higher version is provided and inspected. If the Company at any point of time discovers that the Contractor has removed tool(s) without any prior information, no rental will be payable for such tool(s) from date of last logging operation/inspection. However, recovery of rental for past period shall be restricted to maximum of three (03) months. Additionally, penalty charges shall be recovered from the Contractor for such unavailable tool(s) as per schedule mentioned in Table-4 in Clause 14.3(f) of this section till the tools are mobilized back or replacement provided.</p>	<p><u>Removal of Logging tool(s) by Contractor:</u> <del>Under ordinary circumstances,</del> The Contractor is not allowed to remove Logging tools from its base unless replacement tool of same or higher version is provided and inspected.</p> <p>If the Company at any point of time discovers that the Contractor has removed tool(s) without any prior information, no rental will be payable for such tool(s) from date of last logging operation or inspection <b>whichever is later</b> restricted to maximum of three (03) months until the tool is made available for use.</p> <p><b>In emergent or unavoidable cases, OIL may consider removal of tools without provision of replacement tool. In such cases, for tool(s) removed with OIL's consent, rental shall be not payable until the tool is made available for use however there will be no back dated recovery of rental charges.</b></p> <p><b>In all cases, tool removal shall be treated as unavailable service and penalty shall be recovered as follows:</b></p>



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		<p>(i) In case of tool removal with prior information to OIL, penalty charges shall be recovered from the Contractor for the unavailable service(s) as per schedule mentioned in Table-4 in Clause 14.3(f) of this section <b>if the tool is not made available for use within 14 days from the day of removal.</b></p> <p>(ii) For removal without prior information, above penalty charges shall be applicable with immediate effect from the date of such discovery.</p>
14.6 (Page 112 of 237)	For delay in submission of processed data within defined time period, <b>1%</b> of Operating Charges for each day of delay for each tool shall be deducted from invoices, till the same is provided and accepted by OIL.	For delay in submission of processed data within defined time period, <b>1%</b> of Operating Charges for each day of delay for each tool shall be deducted from invoices, <b>up to a maximum of 50% of operating charge</b> , till the same is provided and accepted by OIL.
15.0 (Page 112 of 237)	<b>RADIOACTIVE MATERIAL:</b> In accepting any order to perform or attempt to perform any service involving the use of radioactive material, Company agrees that Contractor shall not be liable or responsible for injury to or death of persons or damage to property (including, but not limited to, injury to the well), or any damages whatsoever irrespective of the cause, growing out of or in any way connected with Contractor's use of radioactive materials. Company shall absolve and hold Contractor harmless against all losses, cost, damages and expenses incurred or sustained by Company or any third party irrespective of the cause excluding willful and gross negligence by Contractor or its agents, servants, officers or employees, resulting from any such use of radioactive material. In case of radio-active source lost in hole during logging operation, action will be initiated as per AERB guidelines.	<b>RADIOACTIVE MATERIAL:</b> In accepting any order to perform or attempt to perform any service involving the use of radioactive material, Company agrees that Contractor shall not be liable or responsible for injury to or death of persons or damage to property (including, but not limited to, injury to the well), or any damages whatsoever irrespective of the cause, growing out of or in any way connected with Contractor's use of radioactive materials. Company shall absolve and hold Contractor harmless against all losses, cost, damages and expenses incurred or sustained by Company or any third party irrespective of the cause excluding wilful <b>misconduct</b> and gross negligence by Contractor or its agents, servants, officers or employees, resulting from any such use of radioactive material. In case of radio-active source lost in hole during logging operation, action will be initiated as per AERB guidelines.
16.0 (Page 113 of 237)	<b>LOG INTERPRETATION:</b> Since all log interpretations are based on inference from electrical or other measurements, Contractor cannot and does not guarantee the accuracy or correctness of any interpretation and Company agrees that	<b>LOG INTERPRETATION:</b> Since all log interpretations are based on inference from electrical or other measurements, Contractor cannot and does not guarantee the accuracy or correctness of any interpretation and Company agrees that

**ENCLOSURE-I**  
**CHANGES MADE TO ORIGINAL CLAUSES OF TENDER NO. CDG7411L22**

Clause. No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
	Contractor shall not be liable or responsible except for the case of gross negligence on Contractor or his sub-contractors part, for any loss, cost, damage or expense incurred or sustained by Company resulting directly or indirectly from any interpretation made by Contractor or any of its agents, servants, officers or employees. Should any such interpretation or recommendation be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any procedure involving any risk to the safety of any drilling ventures, drilling rig, or its crew or any other individual, Company agrees that under no circumstances shall Contractor be liable for any consequential loss or damages on this account except in case of wilful negligence.	Contractor shall not be liable or responsible except for the case of gross negligence on Contractor or his sub-contractors part, for any loss, cost, damage or expense incurred or sustained by Company resulting directly or indirectly from any interpretation made by Contractor or any of its agents, servants, officers or employees. Should any such interpretation or recommendation be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any procedure involving any risk to the safety of any drilling ventures, drilling rig, or its crew or any other individual, Company agrees that under no circumstances shall Contractor be liable for any consequential loss or damages on this account except in case of wilful <b>misconduct or gross</b> negligence.
17.2 (Page 113 of 237)	Notwithstanding anything to the contrary contained herein, it is agreed that Company shall release, indemnify and hold Contractor and its Sub-contractors harmless from any and all claims, judgments, losses, expenses and any costs related thereto (including but not limited to Court costs and 'Attorneys fees) for: a) Damage to or loss of any reservoir or producing formation. b) Damage to or loss of any well. c) Any other subsurface damage or loss, and d) Any property damage or loss or personal injury or death arising out of or in connection with a blowout, fire explosion and loss of well control regardless of cause e) a blowout, fire explosion and loss of well control regardless of cause.	Notwithstanding anything else contained herein to the contrary, in accepting an order to perform any services and / or to furnish any Equipment, the Contractor does so with the understanding that they do not guarantee results. Further notwithstanding anything else contained herein to the contrary, the Contractor shall not be liable or responsible for or in respect of: (i) any sub-surface damage (including but not limited to damages or loss of a well or reservoir or formation, the loss of any oil or gas there from), or any surface loss or damage or injury or death arising out of a sub-surface damage; and/or (ii) blowout, fire, explosion or any other uncontrolled well condition; and/or (iii) damage to, or loss of oil or gas from any pipelines, vessels or storage or production facilities; and/or (iv) any loss or damage or injury or death whatsoever, direct or consequential, including liability arising from pollution originating below the surface and any clean-up costs;

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Clause. No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
		whether caused by their personnel or Equipment or otherwise arising from or in any way connected with such sub-surface Operations or in performing or attempting to perform any such Operations irrespective of the cause and the Company agrees that it shall absolve the Contractor and protect, defend, indemnify and hold the Contractor and its co-lessees, its sub-contractors, its agents and its parents, subsidiaries and affiliates, its other contractors and/or its and their directors, officers, employees, consultants and invitees harmless from and against all claims, suits, demands and causes of actions, liabilities, expenses, costs and judgements of every kind and character (including without limitation for the loss or damage of any property, or the injury or death of any person), without limit, in favour of any person, party or entity, resulting from any of the above, except only to the extent of any Gross Negligence on the part of Contractor, its Sub-Contractor, their employees or equipment and tools, including costs incurred by Company in this respect.
18.10 (Page 115 of 237)	<b>NEW CLAUSE</b>	In the event of denial of benefit to the contractor provided under <b>notification no. 3/2017-Central Tax</b> and similar notification under state and integrated tax or <b>notification no. 50/2017-Customs</b> or no issuance of Essentiality certificate by DGH for reason not attributable to the contractor, contractor shall charge applicable customs duty on import or goods and service tax on supply as per the HSN code of the product.
22.0 (Page 116 of 237)	<b>LIMITATION OF LIABILITY:</b> Notwithstanding any other provisions herein to the contrary, except only in cases of wilful misconduct and/or Gross Negligence,	<b>LIMITATION OF LIABILITY:</b> Notwithstanding any other provisions herein to the contrary, except only in cases of wilful misconduct and/or <b>criminal acts and/or criminal negligence,</b>
<b>PART-3; SECTION-IV; SCHEDULE OF RATES (SOR)</b>		
1.4 (Page	Operating charge of any equipment/service (including	Operating charge of any equipment/service (including

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Clause. No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
122 of 237)	processing charges wherever applicable) should be between 50% and 100% of its monthly rental charge. <b>This limit however does not apply for the following services:</b> A-14 - Through Tubing Perforation A-15 - Casing Gun Perforation A-17 - Explosive Pipe Cutter A-18 - Severing/Colliding Tool A-19 - Puncture Services S-5A - Through-tubing Bridge Plug S-15 - Tubing Conveyed Perforation	processing charges wherever applicable) should be between 50% and 100% of its monthly rental charge. <b>This limit however does not apply for the following services:</b> A-14 - Through Tubing Perforation A-15 - Casing Gun Perforation A-17 - Explosive Pipe Cutter A-18 - Severing/Colliding Tool A-19 - Puncture Services S-5A - Through-tubing Bridge Plug S-15 - Tubing Conveyed Perforation TR-4 - Logging While Fishing
4.2 (Page 123 of 237)	In the event the unit/tool(s) are put into use in its first job after mobilization and it fails to provide the desired satisfactory service as required under the terms of the contract, then payment of rental charges of the failed unit/tool(s) shall only start when the unit/tool(s) are rectified and gives satisfactory performance in the second job. Any rental already paid shall be recovered. If the second job is also unsuccessful, the next successful job shall be considered for commencement of rental payment.	In the event the unit/tool(s) are put into use in its first job after mobilization and it fails to provide the desired satisfactory service as required under the terms of the contract, then payment of rental charges of the failed unit/tool(s) shall only start when the unit/tool(s) are rectified and gives satisfactory performance in the second job. Any rental already paid <b>for that unit/tool(s) shall be recovered for up to a maximum of 1 month. Rentals shall be applicable from the time tool is repaired and inspected after failure in first job. The same shall be recovered in case failure on second job.</b>
4.3 (Page 124 of 237)	No rental charges shall be payable by Company for transit period between the Contractor's base and Company's base at Duliajan or any other designated camp.	Rental charges shall be payable by Company for transit period between one Company's base to another. However rental charges shall not be payable after expiry of the stipulated mobilization period in case of delay in completion of Base shifting or Transportation of tool(s) between bases.
8.0 (Page 125 of 237)	Base Shifting charge shall be payable for shifting of Logging Unit/ Equipment/ tools from the place of original mobilization to well site camp or to other base camp/Duliajan (within NE India) as per advise of Company. However, for Logging Unit-3, if such shifting of base is made to/from OIL's operational area beyond NE India, cost of transportation of	Base Shifting charge shall be payable for shifting of Logging Unit/ Equipment/ tools from the place of original mobilization to well site camp or to other base camp/Duliajan (within NE India) as per advise of Company. <del>However, for Logging Unit-3, if such shifting of base is made to/from OIL's operational area beyond NE India, cost of transportation of</del>

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**CHANGES MADE TO ORIGINAL CLAUSES OF TENDER NO. CDG7411L22**

Clause. No.	ORIGINAL CLAUSE	MODIFIED CLAUSE
	Unit, tools and equipment shall be paid on actual basis under negotiation.	<del>Unit, tools and equipment shall be paid on actual basis under negotiation.</del>
9.0 (Page 125 of 237)	No charges for cable splicing or cable replenishment shall be payable by the Company. Contractor to maintain unit with sufficient cable at all times to carry out logging operation in well depths as stipulated in the SOW and Technical specification of Logging Unit.	<p>During initial mobilization, the Contractor must mobilize one additional OH cable drum (meeting tender specifications) to be kept as spare at all times for immediate replacement of logging unit's cable in case of cable loss/damage in fishing operations.</p> <p>After fishing operation, Contractor shall make their logging unit ready for job immediately using the spare cable drum without delay. The contractor must at the same time arrange for splicing of the fished cable and make ready a standby reel for future requirement within 1 month beyond which penalty shall be applicable as per clause SOW 6.1(j).</p> <p>The Company shall pay one Cable splicing charge in case of such cable loss or damage resulting due to fishing operations. However, cable splicing charge shall be paid only after the Contractor has mobilized the spliced/new cable drum (to be kept now as standby drum at base) and the same has been inspected by OIL.</p>
11.2 (Page 125 of 237)	In case partial log has been recorded prior to cancellation of the operation and the logging data is acceptable to Company, then operating charge shall be payable instead of DD charge for the survey. However, if Company decides to lower the same service to acquire the remaining log after well clearance in the same rig-up/next rig up (different run) in the same well then only single operating charge shall be payable.	In case partial log has been recorded prior to cancellation of the operation and the logging data is acceptable to Company, then operating charge shall be payable instead of DD charge for the survey. However, if Company decides to lower the same service to acquire the remaining log after well clearance in the same rig-up/next rig up (different run) in the same well then one operating charge shall be payable <b>in addition to DD charge for incomplete run(s).</b>
14.5 (Page 126 of 237)	For services involving explosives, if the main run of the service misfires/ fires partially resulting in an unsuccessful operation, then no operating charges shall be payable by the Company.	For services involving explosives, if the main run of the service fires partially resulting in an unsuccessful operation, then <b>pro-rated operating</b> charges for the charges actually fired shall be payable by the Company, subject to indications

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		and surface checks of the partial fired guns.
17.1 (Page 127 of 237)	For Formation sampling service depth charge shall be measured from depth of attempted test.	For Formation sampling service depth charge shall be measured from depth of <b>the deepest</b> attempted test.
17.2 (Page 127 of 237)	Bidder shall quote per sample operating charges considering 90 minutes of pump-out time; however payment shall be processed pro-rated basis for the actual pump-out time.	<b>DELETED</b>
17.3 (Page 127 of 237)	Successful pressure measurement and or sampling shall be as determined by company. No pressure test charge or sampling charge shall be applicable in case of seal loss. No charge shall be paid for Repeat pressure taken at the same depth without resetting tool.	<del>Successful pressure measurement and or sampling shall be as determined by company.</del> No pressure test charge <del>or sampling charge</del> shall be applicable in case of seal loss. No charge shall be paid for Repeat pressure taken at the same depth without resetting tool.
17.4 (Page 127 of 237)	The maximum number of Pressure test measurement considered in a job is 30. In case of bad hole condition or tool held up, If tool is lowered again in the same or next rig up to acquire the remaining or new pressure Tests/ Fluid Analysis/ Samples as per indent then operating charge payable shall be prorated basis as per number of valid or successful jobs completed even when job is aborted other than due to tool failure.	<b>In case of bad hole condition, if no data is acquired then one DD charge shall be payable.</b>  <b>In case of bad hole condition, if partial tests/samples are acquired and no subsequent run is attempted, then operating charge as per actual acquisition shall be payable. However, if the tool is lowered again in the same or next rig up to acquire the remaining numbers of pressure Tests/ Fluid Analysis/ Samples then one DD charge and one operating charge shall be payable if the total acquisitions made in two runs do not exceed the capacity of one run. (For 1-run capacity, the 'Estimated Job units per job' column of price proforma shall be considered.)</b>
17.5 (Page 127 of 237)	If the tool fails before obtaining all the pressure tests, Fluid analysis & Sample collection and job is aborted; operating charges shall be payable to contractor for the valid or successful tests.	If the tool fails before obtaining all the pressure tests/ Fluid analysis/ Sample and the tests/samples are accepted by the Company, operating charges shall be payable to contractor for the valid or successful tests <b>with the flat charge component prorated to the number of valid pretests (in respect to the no. of pretests mentioned in 'Estimated Job units per job' column of price proforma) but restricted to a</b>



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		minimum of 20%. (i.e., if prorated flat charge calculates to below 20%, then a minimum of 20% flat charge shall be payable.)
17.6 (Page 127 of 237)	If pressure tests in multiple runs does not exceed indented pressure tests and if tool is lowered again in the same or next rig up to obtain the remaining or any new pressure Tests/ Fluid Analysis/ Samples then no other charges shall be applicable other than pro-rated operating charges.	<b>DELETED</b>
17.7 (Page 128 of 237)	One station is defined as a down hole depth point at which Company desires formation fluids to be sampled, and may include up to two (02) repeat attempts within plus or minus two (02) feet of the original tight/incomplete depth, as instructed by Company. Formation sampling charges shall only apply if adequate sealing is demonstrated. Two repeat attempts within ±2 feet of the original tight/incomplete depth shall be made free of charge, as instructed by Company.	One station is defined as a down hole depth point at which Company desires formation fluids to be sampled, and may include up to two (02) repeat attempts within plus or minus two (02) feet of the original tight/incomplete depth, as instructed by Company. Formation sampling charges shall only apply if adequate sealing is demonstrated. <del>Two repeat attempts within ±2 feet of the original tight/incomplete depth shall be made free of charge, as instructed by Company.</del>
<b>PRICE PROFORMA</b>		
Price proforma	TR-4 – Logging While Fishing	Removed limits in formula as per SOR 1.4
Price proforma	<b>New line item</b>	Added new: Include line item for <b>Cable splicing charge.</b>
Price proforma	New sub-item in S-15	Added new: Blank-off charges for TCP.
Price proforma	Mast unit/crane	Change ‘per job’ to ‘per day basis’.
Price proforma	OPTIONAL TOOLS/SERVICES	Sheet B-3 <b>DELETED.</b>
<b>ANNEXURE-B (TECHNICAL SPECIFICATIONS)</b>		
TR-1 (Page 132 of 237)	2. The unit must be capable of carrying out all the operations mentioned in the SOW upto a depth of <b>6500m</b> in vertical/deviated wells.	2. The unit must be capable of carrying out all the operations mentioned in the SOW upto a depth of <b>5600m</b> in vertical/deviated wells <b>as per clause SOW 6.1(j).</b>
TR-1	3. The 7-conductor cable shall have minimum rated breaking	3. The 7-conductor cable shall have minimum rated breaking

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Clause No.	ORIGINAL CLAUSE	MODIFIED CLAUSE				
(Page 132 of 237)	strength of 24,000 lbs. The cable should be new and without splice at the time of deployment.	strength of 23,500 lbs. The cable should be new and without splice at the time of deployment.				
TR-1 (Page 132 of 237)	4. Logging unit must have Releasable Cable-head (electrically releasable) as well as Normal Cable-Head (mechanical weak-link type) with the provision to change over to either type which will be decided prior to taking up logging operation depending on well profile and conditions.	DELETED.				
TR-5 (Page 133 of 237)	Unit should have facility of data transmission by contractor's VSAT required for data transmission and receiving /downloading data at OIL's base while logging.	Unit should have facility of data transmission by contractor's VSAT or 3G/4G communication required for data transmission and receiving /downloading data at OIL's base while logging.				
A-1 (Page 133 of 237)	+/- 20 % at 0.2 ohm m +/- 5 % at 1-1000 ohm m +/- 10 % at 1000-2000 ohm m	± 0.2 ohm m at 0.2 to 1 ohm m ± 5 % at 1-1000 ohm m ± 10 % at 1000-2000 ohm m				
A-1 (Page 133 of 237)	Note: High Resolution Array Laterolog tool is also acceptable against Dual Laterolog tool.	Note: High Resolution Array Laterolog tool is also acceptable against Dual Laterolog tool. HRLA tool should provide at least 4 depths of investigations (DOI ≥ 35 in median response) with 1 ft or better vertical resolution.				
A-7 (Page 136 of 237)	Azimuth: ± 2°, Deviation: ± 2°	Azimuth: ± 4°, Deviation: ± 2°				
A-10 (Page 138 of 237)	iv) Cable side entry sub must have 4000 psi (min) working pressure cable pack-off seal.	iv) Cable side entry sub must have 1000 psi (min) working pressure cable pack-off seal.				
A-13 (Page 139 of 237)	ii) Bridge plugs and packers will be supplied by OIL. Contractor has to provide necessary adapter kits for plug /packer setting. In case of Plugs/Packers other than “Baker Make”, adapter kit will be provided by Company.	ii) Bridge plugs and packers will be supplied by OIL. Contractor has to provide necessary adapter kits for plug /packer setting. In case of Plugs/Packers other than “Baker Make”, adapter kit will be provided by Company.				
A-14 (Page 139 of 237)	<table><tr><td>REQUIREMENT</td><td>Retrievable/Semi-expendable perforation gun system for passing through 2 7/8”</td></tr></table>	REQUIREMENT	Retrievable/Semi-expendable perforation gun system for passing through 2 7/8”	<table><tr><td>REQUIREMENT</td><td>Retrievable/Semi-expendable perforation gun system for passing through 2 7/8”</td></tr></table>	REQUIREMENT	Retrievable/Semi-expendable perforation gun system for passing through 2 7/8”
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**CHANGES MADE TO ORIGINAL CLAUSES OF TENDER NO. CDG7411L22**

Clause. No.	ORIGINAL CLAUSE		MODIFIED CLAUSE	
		tubing (ID of 2.44").  Perforator system tested as per API 19B, performance normalized to 5000psi target compressive strength.  The gun system must be capable of upto 6m perforation in single run.		tubing (ID of 2.44").  Perforator system tested as per API 19B / <b>API 43</b> , performance normalized to 5000psi target compressive strength.  The gun system must be capable of upto 6m perforation in single run.
	1 11/16" Deep Penetration Charge (Zero Phase, 6 spf)	EHD ≥ 0.22 inches TTP ≥ 16 inches (Bidder to provide API 19B certificate.)	1 11/16" Deep Penetration Charge (Zero Phase, 6 spf)	EHD ≥ 0.22 inches TTP ≥ 16 inches (Bidder to provide API 19B/ API 43 certificate.)
	2"-2 1/8" Deep Penetration Charge (Spiral, 4 spf)	SPF: 4 and 6  EHD ≥ 0.26 inches  TTP ≥ 27 inches  (Bidder to provide API 19B certificate.)	2"-2 1/8" Deep Penetration Charge (Spiral, 4 spf)	SPF: 4 and 6  EHD ≥ 0.26 inches  TTP ≥ 27 inches  (Bidder to provide API 19B / <b>API 43</b> certificate.)
	2"-2 1/8" Deep Penetration Charge (Spiral, 6 spf)		2"-2 1/8" Deep Penetration Charge (Spiral, 6 spf)	
	2"-2 1/8" Deep Penetration Charge (Zero		2"-2 1/8" Deep Penetration Charge (Zero	

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Clause No.	ORIGINAL CLAUSE		MODIFIED CLAUSE	
	phase, 4 spf)		phase, 4 spf)	
	2"-2 1/8" Deep Penetration Charge (Zero phase, 6 spf)		2"-2 1/8" Deep Penetration Charge (Zero phase, 6 spf)	
A-15 (Page 140 of 237)	<div> <div>REQUIREMENT</div> <div>3 3/8" and 4 1/2" Casing gun system for perforation in 5 1/2", 7" and 9 5/8" casing.</div> <div>Shot density: 5 or 6 spf shot density for both gun sizes.</div> <div>Perforator system tested as per API 19B, performance normalized to 5000psi target compressive strength.</div> </div>		<div> <div>REQUIREMENT</div> <div>3 3/8-3 3/8" and 4 1/2-4 5/8" Casing gun system for perforation in 5 1/2", 7" and 9 5/8" casing.</div> <div>Perforator system tested as per API 19B/ API 43, performance normalized to 5000psi target compressive strength.</div> </div>	
	3 3/8" DEEP PENETRATION CHARGE	SPF: 6 EHD ≥ 0.32 inch TTP ≥ 35 inch Bidder to provide API 19B certificate.	3 3/8-3 3/8" DEEP PENETRATION CHARGE	SPF: 5 or 6 EHD ≥ 0.32 inch TTP ≥ 35 inch Bidder to provide API 19B/ API 43 certificate.
	3 3/8" BIG HOLE CHARGE	SPF: 6 EHD ≥ 0.6 inch TTP ≥ 5 inch Bidder to provide API 19B certificate.	3 3/8-3 3/8" BIG HOLE CHARGE	SPF: 5 or 6 EHD ≥ 0.6 inch TTP ≥ 4 inch Bidder to provide API 19B/ API 43 certificate.
	4 1/2" DEEP PENETRATION	SPF: 6 EHD ≥ 0.33 inch	4 1/2-4 5/8" DEEP PENETRATION	SPF: 5 or 6 EHD ≥ 0.33 inch

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**CHANGES MADE TO ORIGINAL CLAUSES OF TENDER NO. CDG7411L22**

Clause No.	ORIGINAL CLAUSE		MODIFIED CLAUSE	
	CHARGE	TTP ≥ 59 inch Bidder to provide API 19B certificate.	CHARGE	TTP ≥ 45 inch Bidder to provide API 19B/ API 43 certificate.
	4 ½" BIG HOLE CHARGE	SPF: 6 EHD ≥ 0.8 inch TTP ≥ 5 inch <i>Bidder to provide API 19B certificate.</i>	4½-4 ⅝" BIG HOLE CHARGE	SPF: 5 or 6 EHD ≥ 0.7 inch TTP ≥ 5 inch. Bidder to provide API 19B/ API 43 certificate.
S-2 (Page 144 of 237)	VERTICAL RESOLUTION: 2 feet or better		VERTICAL RESOLUTION: 6 feet or better	
S-4 (Page 146 of 237)	Quartz Gauge: <b>0.01 psi (14.7-15000 psi) or better</b> <b>SG : 0.1 psi (14.7-15000 psi)</b>		Quartz Gauge: <b>0.01 psi (14.7-15000 psi) or better</b> <b>SG : 0.2 psi (14.7-15000 psi)</b>	
S-6 (Page 147 of 237)	b) Continuous Spinner – For flow measurement in tubing and Casing having flow rate minimum 5 ft/min to 2500 ft/min or more with flow direction.		b) Continuous Spinner – For flow measurement in tubing and Casing having flow rate minimum <b>12 ft/min</b> to 2500 ft/min or more with flow direction.	
S-14 (Page 153 of 237)	1) The boom should have a minimum length of 75ft. 2) Lifting capacity not less than 7500 lbs at 16 feet operating radius to a height of lift of minimum 75ft from ground level.		1) The boom should have a minimum length of <b>70ft</b> . 2) Lifting capacity not less than <b>6000 lbs</b> at 16 feet operating radius to a height of lift of minimum <b>70ft</b> from ground level.	
S-15 (Page 153 of 237)	vi) Bidder has to provide all other standard accessories of TCP assembly required for all TCP jobs.		vi) Bidder has to provide all other standard accessories required for TCP jobs <b>with gun systems as mentioned below and as mentioned in service code A-15.</b>	
	3 ⅜" DEEP PENETRATION CHARGE (for 5½" csg)	SPF: 6 EHD ≥ 0.32 inch TTP ≥ 35 inch Phasing: 45°/135° Bidder to provide API 19B certificate.	3 ⅜" deep penetration charge (for 5½" csg)	SPF: 5 or 6 EHD ≥ 0.32 inch TTP ≥ 35 inch Phasing: 45°/135° Bidder to provide API 19B/API RP43 certificate.
	4 ½" DEEP PENETRATION	SPF: 12 EHD ≥ 0.29 inch		

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Clause. No.	ORIGINAL CLAUSE		MODIFIED CLAUSE	
	CHARGE (for 7" csg)	TTP≥29 inch Phasing: 45°/135° Bidder to provide API 19B certificate.	4 ½" DEEP PENETRATION CHARGE (for 7" csg)	SPF: 12 EHD ≥ 0.29 inch TTP ≥ 29 inch Phasing: 45°/135° Bidder to provide API 19B/API RP43 certificate.
Annex B (Page 155 of 237)	OPTIONAL TOOLS/SERVICES		<b>DELETED</b>	

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