

सेन्ट्रल माईन प्लानिंग एण्ड डिजाइन इन्स्टीच्यूट लिमिटेड
(कोल इण्डिया लिमिटेड की अनुबंधी कम्पनी / भारत सरकार का एक लोक उपक्रम)
गोन्दवाना प्लैस, कांकि रोड, रांची - 834 031, झारखण्ड (भारत)

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CMPDI (HQ) intends to organize a pre-NIT meeting at Ranchi on 23th November 2023 at 3 PM with prospective bidders of truck mounted hydrostatic coring drill to finalize technical specifications and other parameters including Comprehensive Annual Maintenance contract(CAMC). The proposed technical specifications, eligibility criteria, proveness criteria and draft Comprehensive Annual Maintenance contract(CAMC) agreement uploaded in the web site inviting comments/suggestions from the prospective bidders on the same by 20.11.2023.

Office of the General Manager (Exploration) may be contacted for details/clarifications on phone between 10 Hrs. to 17 Hrs. (IST) or through fax or e-mail.

Ranchi

On and behalf of CMPDI LTD.

10.11.2023

GM (Exploration)

SPECIFICATION OF TRUCK MOUNTED HYDROSTATIC CORING DRILLING RIG WITH DEPTH CAPACITY OF 1000 METERS WITH NQ/N

SIZE IN SINGLE LINE PULL OPERATION WITH 5 YEARS COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC).

SI No	THE BIDDER SHALL CONFIRM COMPLIANCE OF THE FOLLOWING:
1	Depth Capacity: The drill shall be capable of drilling 1000 mtrs vertical coring holes in N/NQ size in a single line pull in fluid filled hole condition.
2	Prime Mover: Suitable capacity diesel engine shall be provided (operating ambient temparature - Around 5°c to 50°c)
3	Mast a The mast shall be capable of handling 1000 m drill string of N/NQ size b Rod pull length - 6 meters (minimum) c Mast dump - Hydraulically operated mast dump facility shall be provided with the rig. d Wire line pulley in the mast has to be provided at a suitable location e Drilling angle - At least 45 to 90 degree from ground level.
4	Feed a Feed stroke length - 3 meters (minimum) b Fast feed & micro feed has to be provided with the rig. The feed of the rotary head traverse mechanism shall be through hydraulic cylinders(Direct or indirect). c Pull up- 9000 kg (Minimum) d Pull down/thrust - 5000 Kgs. (minimum) e Feed speed - variable control
5	Rig Head: a Chuck and Spindle driven:- Hollow spindle sufficient to accommodate HQ/H Rod. b A suitable mechanism shall be provided to achieve infinitely variable spindle speeds with a range of rpm which is as follows. 1. Min. rpm range around 0 to 130 (For TRR bit operation/Fractured formations etc.,) 2. Max rpm range around 1100 to 1500 (For impregnated bit). Minimum and maximum rpm shall be within the range mentioned at point No.1 & 2. 3. In between, different ranges of spindle speeds (Atleast 4 stages for high & 4 stages for low through gear transmission) shall be available for other types of bits (T.C, PCD, S.Set diamond bit) in two broad ranges (High & Low). 4. It shall have a mechanism for reverse speed.
6	Chuck: a Provision of self centering chuck assemblies to hold the rod/casing. b Maximum diameter for rod holding -HQ/H size of rod. c Axial retention Capacity – Minimum 14,000 Kgs. load d Provision of fail safe arrangement with hydraulic chuck to avoid any chances of accident in case of hydraulic system failure.

7	Main Hoist:
a	Shall have adequate capacity to handle 1000 mtr N/NQ drill string considering factor of safety for frictional and jamming forces
b	Hoisting speed having variable control (bare drum, single line pull) – Maximum hoisting speed 40 meters per minute or more.
c	Hoisting Cable/Rope diameter – Suitable Steel wire rope of sufficient diameter and length, non spinning type.
d	Built-in safety brake for hoist drum has to be provided.
8	Wire line Hoist:
a	Cable/Rope capacity – Suitable steel wire rope of sufficient diameter and length, non-spinning type to lift 6 mtr inner tube with HQ core.
b	Line speed (bare drum) – Maximum speed shall not be less than 100 meter/minute
d	Safety net is to be provided on winch
e	During hoisting, the wire line rope must be wound all along the length of the drum. Suitable traverse mechanism shall be provided in the wire line system.
9	<p>Hydraulic system: For hydraulic system provision of the following shall be made:-</p> <p>Adequate pumps, motors, control panels, valves etc. of desired capacity, as designed by the manufacturer and of reputed makes shall be provided in the Hydraulic System.</p> <p>High pressure hoses, high pressure hydraulic filters (at least ten micron), pressure gauges, valves etc. has to be accompanied the hydraulic system, as designed by the manufacturer.</p>
10	Rod breakout:
a	Rod breakout system to handle minimum H/HQ to B/BQ rods has to be provided.
11	Rod clamp:
a	Hydraulically operated rod clamp having jaws to hold B/BQ size drill rod to HW/HX size casing.
12	Mud Pump:
a	<ol style="list-style-type: none"> 1. Mud pump has to be suitable for mud/polymer operations primarily for slim hole coring drilling having sufficient discharge and pressure to drill 1000 mtr depth of N/NQ size borehole. 2. Maximum flow - 140LPM +/- 10%. 3. Pressure - Minimum 45 kg/cm²
b	Suitable mechanism shall be provided to obtain varying ranges of flow (without changing the liner) to drill BQ to HQ sizes of bore holes efficiently.
c	Flow meter, pressure gauge, relief valve etc., have to be provided.
d	Power source: Hydraulic Motor
13	Mud Mixer
a	A mud mixer of suitable capacity, which can handle high viscous drilling fluids and shall have inbuilt operating system with the Rig.
14	Control Panel:
a	To control all drilling operations including hoisting. The control panel has to be in a single block and conveniently located for ease of operation.
b	Proper gauges for recording Working Hours, RPM, Feed, Bit weight, Hydraulic pressure, etc. have to be provided with the rig.

15	Mounting:
a	The rig including mud pump, mast etc. are to be mounted on a heavy duty suitable Indian truck chassis with platform. The truck shall be suitable for operation on non-metal road through out the year (including rainy season) and completed with built up cabin for driver. The truck engine (Diesel) will be independent for truck only.
b	Suitable Numbers of hydraulic jacks for leveling purpose have to be provided.
c	A built in Tool Box, fitted in the chassis, has to be provided.
16	Lighting:
a	Heavy duty weather proof lights have to be fitted in strategic positions on the mast rig head and back side of the truck cabin to meet the emergency situation.
b	This lighting arrangement will be powered from the rig's electrical system.
17	Accessories
	The following accessories compatible to the offered model of the Drill shall be supplied along with each Drill.
a	Water Swivel assembly complete - 2 Nos.
b	Hoisting plug assembly complete - 2 Nos.
c	All types of Jaws and related spares - 2 sets of each size.(H, N and B)
18	Tool Kit:
a	A standard tool kit for the rig, pump and engines, recommended by the manufacturer, has to be provided along with the rig.
19	Identification Mark:
a	The Tenderer has to ensure that identification marks are engraved or provided suitably on Rig, Pump and Carrier (truck) as follows
b	(i) Rig: Make, Model, year of manufacturing and serial number of rig as well as serial number of drill engine (prime mover).
c	(ii) Pump: Make, Model, year of manufacturing and serial number.
d	(iii) Carrier (Truck): Make, Model, year of manufacturing and serial number of the engine and chassis.
20	Service Manual/Part Catalogue:
a	Three sets of operation, service, maintenance manuals and spare part catalogue for rig, engine, pump, gear-box, clutch, truck, hydraulic pump and hydraulic motor have to be provided.
21	Bought-out items:
a	For all the major bought out items like engine, gear box, truck, hydraulic motor/pumps etc., fitted with the rig and pump unit by the manufacturer, the make, model, type, capacity, part No. and complete technical details must be furnished along with the supply. The tenderer has to give an undertaking in this regard in their offer, positively.
22	Spare support by the Rig Supplier:
a	The tenderer has to give an undertaking that spares and consumables for the complete machine including truck will be made available to CMPDI for a period of 10 years. This undertaking must be furnished in their offer.

23	Commissioning:
a	The supplier has to send his trained personnel for successful commissioning of the rig for 7 days.
24	Service network:
a	Tenderer must have proper service network and depot facility, preferably near the coal command area in India where they have to keep sufficient stock of fast moving spares and critical spares to avoid idling of the Rig.
25	Training
a	4(Four) Drilling Engineers/supervisors/Operators of CMPDI are to be trained free of cost by the supplier for a period of 7 days against each rig regarding various operational features of the rig at the supplier's works in India during initial CAMC period of 1(One) year. The schedule of training shall be decided on mutual discussions. All the expenses of boarding, lodging and training, etc except travel expenses by the trainees shall be borne by supplier.
b	The supplier shall impart training free of cost to the operators and maintenance personnel of CMPDI on operation and maintenance aspects at CMPDI's site, immediately after commissioning of each equipment for 15 days. The initial 3 days training shall be intensive class room training and the rest of the days are on job training at drill site. The class room shall be arranged by CMPDI at CMPDI(HQ), Ranchi or any Regional Institute of CMPDI.
26	COMPREHENSIVE ANNUAL MAINTEANCE CONTRACT (CAMC)
a	The Machine will be under CAMC for a period of 5 (Five) years including Warranty period. However, CAMC may be renewed after completion of 5(Five) years on mutual discussion between CMPDI and the Rig supplier .
b	Offers submitted without CAMC component shall not be considered for evaluation.
c	The scope of CAMC shall include the followings:- 1. Periodic/preventive maintenance. 2. Breakdown maintenance to set the machine in order. 3. Attend breakdown within 4 hours of receipt of complaint. 4. Provision of adequate skilled and trained manpower for maintenance and repair services. 5. Provision of sufficient spares and lubricants by the supplier required for maintenance over the entire CAMC period.

d	Guarantee for the availability of the Machine
	The Machine has to be guaranteed for the following minimum availability per month during first 60 months from the date of successful commissioning of rigs:-
	YEAR % AVAILABILITY
	1ST YEAR 90% Monthly
	2ND YEAR 90% Monthly
	3RD YEAR 90% Monthly
	4TH YEAR 87% Monthly
	5TH YEAR 87% Monthly
e	<p>In case the actual availability of the equipment falls short of the minimum guaranteed availability as stated above at (d), the supplier will be liable to pay penalty to CMPDI @ 0.5% of landed value of the equipment for every 1% shortfall in a particular month subject to a maximum of 5% of landed value of the equipment per financial year (i.e April to March) for the entire period of CAMC.</p> <p>Availability clause shall be as</p> <ul style="list-style-type: none"> i. Guaranteed monthly minimum availability shall be as per clause 26 (d) ii. Penalty calculation shall be made on monthly basis for shortfall in availability as per the above mentioned clause 26 (d) and the amount of penalty so deducted from the running bills will be released if the annual average availability is equal or more than as per clause 26(d).
f	<p>The availability of the equipment will be calculated by using the formula given below:-</p> $\text{Percentage of Availability} = \frac{(\text{Working Hours} + \text{Idle Hours}) \times 100}{\text{Total Shift Hours}}$
g	<p>Idle Hours shall include time required in Crew Shifting, Machine Shifting, Geophysical Logging, Cement Plugging, want of water etc., and due to any force Majeure clause including law and order problem.</p> <p>Total Shift Hours is combination of "Working Hours", "Idle Hours" and "Breakdown Hours".</p> <p>In the above formula, normally Shift Hours for 2 shifts of 8 hours each or 12 hours of one shift, as the case may be, will be considered.</p> <p>In case the rig is run on 3 shift basis, the calculations will be done on pro-rata basis.</p> <p>Breakdown Hour: means all hours of work loss due to mechanical, electrical, hydraulic or any other failure of the machine including:</p> <ul style="list-style-type: none"> i) Routine servicing and maintenance including changing of identified consumable or worn-out parts. ii) Planned preventive maintenance programme. <p>Counting of 'Breakdown Hours' will start from the time of reporting to the supplier or its representative.</p>

	<p>Every month the availability and working hours of the equipment is to be recorded jointly by CMPDI and the supplier. The equipment shall be provided with necessary meters for recording working hours etc. It will be the responsibility of the supplier to keep these meters in working condition.</p> <p>(i) The report shall be jointly signed by the representatives of CMPDI and supplier at fortnightly interval.</p> <p>(ii) Sufficient training to the Operators of CMPDI shall be provided during the initial one month. However, the guaranteed availability shall not cover breakdown due to mal-operation/damage/unsafe acts/misuse of the machine by the operators for the damages caused by the same, CMPDI may be charged accordingly.</p> <p>(iii) The supplier shall post a suitable technician along with maintenance crew who will be capable of handling mechanical, electrical and hydraulic system to carry out the maintenance of the equipment including truck during the CAMC period.</p> <p>(iv) All breakdowns/problems noticed will be informed to the supplier or his representative immediately for necessary repair/rectification as the need may be.</p> <p>(v) Loss of hours due to any reasons such as strikes of workmen, natural calamities, accidents, non availability of HSD fuel, operators not reporting on time, drill string getting stuck due to adverse rock conditions and time utilized by operator in trying to get the drill string out and other force Majeure reasons shall not be considered as breakdown hours.</p> <p>(vi) All the unserviceable spare parts except rubber items shall be returned to CMPDI.</p> <p>(vii) In case of any damage or other loss to the Rig unit attributable to the causes beyond the Rig supplier's reasonable control, including the events of force majeure, fire, theft or other acts of third parties, the availability of the equipment shall not be calculated and penalty shall not be imposed for that period and a reasonable period required for restoration shall be provided.</p> <p>h</p> <p>viii) In case the Drill is idle for more than three months for the reasons beyond control like law & order problem/force-majeure clauses, the fixed charges shall be 50% of the applicable fixed charges + applicable GST against supervision and overhead charges per month per rig. However, spares cost will be paid as per above rates.</p> <p>ix) The firm will supply new Spares & consumables/major/sub- assemblies (new or overhauled) & replace the worn-out spare parts/major/sub-assemblies "on as & when" required basis. The receipt of spare parts/ major/sub- assemblies (new or overhauled) will be done on mutual agreement by respective RI and representatives of the firm.</p> <p>x) The mutually agreed upon Spares & consumables will be replaced by new ones after entering the spares & consumables in Camp stores for records. The old spares & consumables will be returned to CMPDI store for their gainful utilization as deemed fit.</p> <p>xi) At the end of every month, the firm will raise invoice for the Spares & consumables consumed in the said month at actuals and submit the same along with copy of relevant challans/invoices & service reports to the Camp-in-Charge for verification & vetting.</p> <p>xii) The duly verified & vetted monthly bill/ invoice will be forwarded to the paying authority for settlement of the claim at actuals limited to the total annual amount (yearly Cap value) agreed under the head of "Spares & consumables cost" for that year.</p> <p>xiii) In case, the total annual value of the invoice(s) exceeds the total annual amount agreed for the "Spares & consumables cost", the excess bill(s) amount will be paid in the next year but the amount of annual cap value of that successive year remain same. If the amount does not exceed the cap amount for the year, the excess amount will not be carried out to the next year.</p> <p>xiv) However, the total payment under the head of "Spares & consumables cost" of CAMC during the contract period of 05 years (i.e 1st to 5th year), excluding applicable tax will be restricted to the extent of the agreed Cap amount (5 yearly cap value i.e sum total of yearly cap values) for Spares & consumables cost.</p> <p>vii) The unserviceable spare parts will be handed over to the representative of CMPDI. The repairable parts/ assemblies will be retained by the firm in order to develop float items, which will be finally handed over to CMPDI on final completion/ termination of the contract/become unserviceable.</p> <p>ix) Current company Price List of spare parts in PDF format will be provided by the firm.</p>
i	<p>Payment terms for the CAMC</p> <p>CAMC charges shall be paid in Indian Rupees only.</p> <p>CAMC charges will be paid for all the five years and the tenderer must quote for the same, year wise, against the following heads, separately</p> <p>-</p> <p>(i) Spares and consumable cost</p> <p>(ii) Supervision and overhead charges</p> <p>The CAMC payment shall be payable on monthly basis at the end of each month on presentation of bills after due certification and acceptance.</p>
j	<p>For CAMC bank guarantee details, please refer clause no. _____ of the NIT.</p>

<p>27</p>	<p>SPECIAL NOTE:</p> <ol style="list-style-type: none"> 1. The CAMC charges shall be quoted for the entire CAMC period, year-wise considering the following heads:- <ol style="list-style-type: none"> (i) Spares and consumable cost with a CAP value. (ii) Supervision and overhead charges 2. CAMC Payment shall be arranged by the General Manager (Exploration), CMPDI, Ranchi or by his authorized representative. 3. CAMC agreement shall be signed between Successful tenderer and General Manager (Exploration), CMPDI, Ranchi. 4. The CAMC Charges shall not be included in the price of the equipment (Truck, Rig & Engines) and indicated separately. 5. The prevailing applicable rate of Service Tax and any other taxes on CAMC in Jharkhand State shall be considered for evaluation purpose only. 6. CAMC shall include the complete Truck mounted Hydrostatic Rig including engines, pump, mast etc. 7. The following spare parts/items only shall not be covered under CAMC. <ol style="list-style-type: none"> i. H.S.D.Oil ii. All types of drilling accessories, viz, Drill rods, Casings, Barrel and its spares, Bits, Reamer Shell, Recovery Taps, Adopters etc., iii. R.T.O. Taxes and other statutory charges for the Equipment and Truck. iv. Tyre, tube and flap of truck. <p>Apart from above spare parts/ items, all other spare parts, consumables and lubricants including main hoisting rope and wireline rope required for periodic/preventive and break down maintenance of the complete Truck mounted Hydrostatic Drill including Engines, Pump, Mast etc., shall be covered under CAMC.</p> <ol style="list-style-type: none"> 9. The consignee" shall be the Depot In-charge, Central Drilling Store, Barkakana, District: Ramgarh, Jharkhand State, India 10. The hydrostatic drills shall be deployed in any of the command areas of CMPDI, viz Asansol, Dhanbad, Ranchi, Nagpur, Bilaspur, Singrauli, Bhubaneswar, North East
<p>29</p>	<p>ELIGIBILITY CRITERIA</p>
<p>1</p>	<p>The tenderer who has supplied at least 50% of the total tendered quantity of chuck and spindle driven hydrostatic drill of 1000 mtrs capacity or more (irrespective of the mounting, i.e. truck/skid/ crawler) within last 5 years to other mining industries and/or to any other industries (Private or Government/Public sector undertaking- Indigenous or global) will be considered . The period of 5(Five) years will be reckoned from 1(One) month preceding the calendar month of NIT publication. Copy of the supply order along with challan / Invoice should be submitted along with the offer as offline documents.</p>
<p>2</p>	<p>The drill (irrespective of its mounting) must have successfully completed atleast 3 (three) coring boreholes of minimum 800 meters depth in NQ/N size or minimum 1020 meters in BQ/B size in last 5(Five) years. This model should have also completed atleast one year of successful operation. Documentary evidences of the above, certified by the user firm shall be submitted along with the offer in the offline document. The offered model should be the same or its improved version for which the above required performance certificates have been asked.</p>
<p>3</p>	<p>The make/standards of major bought out components/assemblies of the offered model of the drill shall be from/of as given below :- <ol style="list-style-type: none"> a. Hoist assembly - Pull Master/ Braden/ Lantec/ TWG/ Brevini. b. Hydraulic motors, hydraulic pumps - Eaton/Danfoss/Sai Motors/Rexroth/ Parker or shall conform to ISO/BS/DIN/IS/ANSI-HI or equivalent Standards. c. Mud pump -FMC Technologies/CAT/ Gardner Denver/ American Mfg co./Trido. </p>
<p>Note:-</p>	
	<p>i) The qualification of the tenderer shall be finalised after scrutinising the off line documents submitted by the bidder before price bid opening.</p> <p>ii) Technical leaflet of the offered model along with technical details pertaining to different sub assemblies viz, Prime Mover, Mast, feed mechanism, Rig Head, Main Hoist, Wireline hoist, Chuck, Mud pump, truck, etc shall be submitted in their offline documents. The calculation for selection of prime mover (HP)may also be furnished.</p> <p>iii). All the offline documents mentioned above shall be submitted along with the EMD.</p>

Comprehensive Annual Maintenance Contract (CAMC) between CMPDIL & the firm for Maintenance of make Drills against supply order no: _____ presently deployed under: _____

1. This Agreement is made on this day the _____ deemed to be effective from the date (i.e.)
between

Central Mine Planning and Design Institute Limited, a subsidiary of Coal India Limited, (herein after referred to as “CMPDIL”), having its HQ at Gondwana Place, Kanke Road, Ranchi which expression shall unless repugnant to the subject or context, include its successors and assignees of the one part

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, having its Office at (hereinafter referred as ”) through its authorised representative which expression shall unless the context requires otherwise include them & their respective heirs, executors, administrators and legal representatives of the other part.

2. This agreement covers the following equipment presently operating under Complete Truck mounted Hydrostatic coring drill machine, Make – , Model- including Engine, pump, mast bearing machine serial number:

i. Truck mounted on Ashok Leyland make Truck) 6 X 4 bearing Registration No:

3. Purpose of the Agreement:

3.1 The scope of CAMC will include the following; -

- i. Periodic/Preventive maintenance as per maintenance schedule mentioned in Rig manual (Kores WAIIC) submitted by OEM at "Annexure-1".
- ii. Breakdown maintenance to set the machine in order
- iii. Attend breakdown within 4 hrs of receipt of complaint.
- iv. Provision of adequate skilled and trained manpower for maintenance and repair services.
- v. Provision of sufficient spares and lubricants required for maintenance over the entire CAMC period, i.e. for 5 years.

3.2. To ensure desired availability of the equipments indicated at Sl No:2 above, as per below.

Guarantee for the availability of the Machine:

The Machine will be guaranteed for the following minimum availability per month during (CAMC renewal period i.e (from 6th year to 10th year)

Year	Availability
6th Year	90%
7th Year	90%
8th Year	90%
9th Year	87%
10th Year	87%

3.3. The CAMC Bank Guarantee from Scheduled/Nationalised bank for 10% of the total CAMC value year wise total of i.e. valid for a period of 63months (60 months + 3 months claim period) as below from the date of renewal of CAMC of the drill in favour of CMPDI, Ranchi has been submitted by M/s Kores.

3.4 The Availability will be determined using the following formula:

$$\text{Percentage of Availability} = \frac{(\text{Working Hours} + \text{Idle Hours}) \times 100}{\text{Total Shift Hours}}$$

4. Total Shift hours will be a combination of Working hours, Idle hours and breakdown hours. In the above formula, shift hours of 2 shifts of 8 hours each or 12 hours of one shift, as the case may be, will be considered.

5. Breakdown Hours will comprise of

- a. All hours lost due to any mechanical/electrical/hydraulic or any other failure of the machine including truck.
- b. Routine servicing and maintenance including changing of identified consumables or wornout parts.

- c. Planned Preventive Maintenance programme.

Loss of working hours other than the above breakdown hours shall be treated as idle hours. Counting of breakdown hours shall start from the time of reporting to the Maintenance Crew of Kores.

In case the rig is run on 3 shift basis, the calculations shall be made on prorata basis.

6. Idle Hours will include (list is only indicative):

- a. Time required in Shifting of crew, drill and accessories from one site to another
- b. Geophysical Logging
- c. Cement Plugging
- d. Time lost in alignment of the equipment i.e. setting / levelling
- e. Operators not reporting on time
- f. Absence of Operators/Drill Crew
- g. Travel time of operators from Camp/ residence to site
- h. Non availability of HSD.
- i. Non availability of water on site for drilling
- j. Time lost in Site preparation after shifting of the Machine
- k. Non availability of accessories such as Rods, Bits, casing etc
- l. Time utilised in refuelling the Rig, if rig is stopped for refuelling
- m. Time lost in changing of Jaws
- n. Lack of additives such as mud, polymer etc.
- o. Time lost in rainfall / Loo and other adverse weather conditions
- p. Time lost in removal of cuttings / Sump cleaning
- q. Lighting facility not available at night
- r. Truck on which drill is mounted, stuck in bad roads
- s. Hours lost in downtime for material falling under the scope of CMPDIL not supplied
- t. Bandh / Strike
- u. Road accident, Fire accidents
- v. Any Force Majeure clauses such as
 - (a) Strikes of workmen
 - (b) Natural Calamities
 - (c) Accidents
 - (d) Other law and order problems

Every month the availability, maintenance schedule statement and working hours of the equipment is to be jointly recorded by CMPDI and Kores, to be jointly signed by the representatives of CMPDI and Kores at fortnightly interval. The equipment shall be provided with necessary meters for recording working hours etc. It will be the responsibility of Kores to keep the meters in working condition. However, during non-functioning of the hour meter, availability must be calculated jointly as per the shift report.

7. Availability clause shall be as:

- i. Guaranteed monthly availability shall be minimum 87% in the 6th & 7th year and minimum 85% in the 8th, 9th & 10th year.
- ii. In case the actual availability of the equipment (annual average) falls short of the minimum guaranteed availability, a penalty of 0.50% of the landed value of the equipment for every 1% shortfall in a particular month, subject to a maximum of 5% of the landed value of the equipment per financial year (i.e April to March) for the entire period of CAMC will be deducted.
- iii. Penalty & availability calculation will be made on monthly basis as per point (i) above. If annual average availability is less than the availability mentioned at point (i) above, penalty applicable will be paid by firm or to be recovered from Performance Bank guarantee.

8. Scope of CAMC

The CAMC shall cover only the maintenance of equipments stated under clause 2 to ensure CMPDIL gets the desired availability.

Validity of Agreement: This agreement shall be valid for 5(Five) years starting from date of expiry of present CAMC 30.06.2023 and the same shall be renewed upon mutual agreed terms and conditions between CMPDIL and Kores before the expiry of validity of the contract.

This agreement is signed for the machine mentioned under Sl No:2 of this agreement for maintenance of the rigs in Regional Institute-V.. If the equipment mentioned needs to be shifted to another Regional Institute, an advance notice shall be given two to three months prior to shifting of the machine to enable proper setup for maintenance. In case of deployment of drill from one state to another, the applicable statutory taxes in the new place of deployment shall be payable by CMPDI.

A list of items that are **NOT COVERED UNDER CAMC** is mentioned below. The repair/maintenance of these items shall be undertaken at additional cost.

The items not covered under CAMC are:

- i. Water Swivel assembly and its spares.
- ii. Hoist Plug assembly and its spares.
- iii. All types of Accessories including bit, barrel, rods, casings etc.
- iv. Tyres, Tube and Flap of truck
- v. HSD oil
- vi. RTO taxes and other statutory charges for the equipment and truck

All other items apart from the above-mentioned list shall be covered under CAMC.

9 General Terms & Conditions

A. Responsibility of M/s Kores

1. Shall post a qualified (ITI/Diploma with 01 month Kores plant trained) technician along with maintenance crew at nearest camp who will be capable to carry out the maintenance of the equipment including truck throughout the contract period of 5 (Five) years. In case of major breakdown, Kores will depute additional team as per requirement from plant / other camps. Kores will maintain attendance register at site and will submit along with the bill.
2. Shall ensure that total Periodic, Preventive & Breakdown maintenance of the equipment mentioned under serial no. 2, is carried out.
3. Shall keep sufficient stock of spares required to maintain the machine. Actual Stock to be verified at each quarter with CMPDI official (Joint inspection).
4. Shall attend breakdown (if any) within 4hours of receipt of complaint.
5. Shall maintain the operational records in logbook jointly with the CMPDIL on daily basis.
6. Shall not be responsible for guarantee availability due to mal- operations/damage/unsafe acts/misuse of the machine by the employees of the CMPDIL nor due to improper fittings / accessories used which are not compatible with the equipment. For the damages caused by the same, CMPDIL may be charged accordingly.
7. Further, the firm shall not be liable for any damage or other loss attributable to causes beyond its reasonable control, including events of force majeure, Road accident, other accident, fire, theft, or other acts of third parties, or for any consequential or indirect damage or loss. The repair in such cases shall be carried out at additional cost so that the equipment is returned to its condition prior to such damage. In such cases, the availability of the equipment shall not

be calculated and penalty will not be imposed for that period and a reasonable period of restoration of the rig unit shall be provided.

8. Shall return all the unserviceable spares parts except rubber items to CMPDIL.
9. To carryout Overhauling / Replacement of Key assemblies as per following schedule each year: -

Sl No	Assembly name	Year-6	Year-7	Year-8	Year-9	Year-10	Replacement
	Aprpx Hours						
1	Engine						
2	Rotation Motor						
3	Pump motor						
4	Cooler motor						
5	Gear box						
6	Variable pump						
7	Gear pump-1						
8	Gear pump-2						
9	Mud Pump						

10. Will return the unserviceable spares to CMPDIL

11. In case of RI-V, two different stores at Korba & Singhpur to be established & maintained.

B. Responsibility of CMPDIL

1. Shall ensure operation of the equipment is carried out in accordance with the instructions as detailed in the equipment's instruction manual.
- 2) Shall fill machine logbook daily along with Kores Service Engineer posted at the site. The same should be verified and signed jointly.
- 3) Provide materials under the scope of CMPDIL, if any, timely to prevent breakdown. Any consequential breakdown due to such delays shall not be treated as breakdown hours and necessary charges will be borne by CMPDIL.
- 4) Provide safe and secured premises for maintenance. If any damages or theft occur due to unsafe conditions, CMPDIL shall compensate the same.
- 5) Provide available temporary type accommodation in the drilling camp to maintenance crew of Kores. Any fault in providing transport to the maintenance crew by CMPDI will not be counted in breakdown hours.
- 6) Inform in advance single point of contact to avoid multiple channel of communication leading to confusion at site/camp and Headquarter for Kores Engineer to interact with on all CAMC related issues. Kores will also inform their single point of contact to CMPDI.

- 7) Provide required infrastructure/facility in terms of Manpower / Material Handling equipment when replacing/repairing heavy components.
- 8) The firm and CMPDIL will review CAMC issues in each quarter through VC for improvement.

CAMC COMMERCIAL TERMS

10. A) Estimated Manpower along with Supervision and overhead charges per year (Rs.)

- i) Fixed Charge (6thYear): Kores shall charge CMPDIL + applicable Goods and service tax against supervision and overhead charges per month per rig.
- ii) Fixed Charge (7thYear): Kores shall charge CMPDIL + applicable Goods and service tax against supervision and overhead charges per month per rig.
- iii) Fixed Charge (8thYear): Kores shall charge CMPDIL + applicable Goods and service tax against supervision and overhead charges per month per rig.
- iv) Fixed Charge (9thYear): Kores shall charge CMPDIL + applicable Goods and service tax against supervision and overhead charges per month per rig.
- v) Fixed Charge (10thYear): Kores shall charge CMPDIL + applicable Goods and service tax against supervision and overhead charges per month per rig.

B) Estimated Maximum annual value for spare & consumable cost (Cap value) (Rs.)

Cap value for spares shall be as follow which is excluding GST.

CAMC-Spares cap value of each Rig	6th year	7th year	8th year	9th year	10th year
Cap value of spares in Rs. Per year per Rig excluding taxes and items which are not covered in this CAMC as per clause No5					

- i) In case the Drill is idle for more than three months for the reasons beyond control like law & order problem/force-majeure clauses, the fixed charges shall be 50% of the applicable fixed charges + applicable GST against supervision and overhead charges per month per rig. However, spares cost will be paid as per above rates.
- ii) The firm will supply new Spares & consumables/major/sub- assemblies (new or overhauled) & replace the worn-out spare parts/major/sub-assemblies “on as & when” required basis. The receipt of spare parts/ major/sub- assemblies (new or overhauled) will be done on mutual agreement by respective RI and representatives of the firm.
- iii) The mutually agreed upon Spares & consumables will be replaced by new ones after entering the spares & consumables in Camp stores for records. The old spares & consumables will be returned to CMPDI store for their gainful utilization as deemed fit.
- iv) At the end of every month, the firm will raise invoice for the Spares & consumables consumed in the said month **at actuals** and submit the same along with copy of relevant challans/invoices & service reports to the Camp-in-Charge for verification & vetting.
- v) The duly verified & vetted monthly bill/ invoice will be forwarded to the paying authority for settlement of the claim at actuals limited to the total annual amount (**yearly Cap value**) agreed under the head of “Spares & consumables cost” for that year.
- vi) In case, the total annual value of the invoice(s) exceeds the total annual amount agreed for the “Spares & consumables cost”, the excess bill(s) amount will be paid in the next year but the amount of annual cap value of that successive year remain same.
- vii) However, the total payment under the head of “Spares & consumables cost” of CAMC during the contract period of 05 years (i.e 6th to 10th year), excluding applicable tax will

be restricted to the extent of Rs. the agreed Cap amount (5 yearly cap value i.e sum total of yearly cap values) for Spares & consumables cost.

viii) The unserviceable spare parts will be handed over to the representative of CMPDI. The repairable parts/ assemblies will be retained by the firm in order to develop float items, which will be finally handed over to CMPDI on final completion/ termination of the contract/become unserviceable.

ix) Current company Price List of spare parts in PDF format will be provided by the firm.

x) The firm will invoice the CMPDIL on monthly basis under two heads

- Spares & consumables cost at actuals limited to a cap value on the total spares cost agreed for the entire CAMC period with Goods and service tax.
- Manpower including Supervision and overhead charges with applicable taxes.

xi) The firm shall be entitled to invoice CMPDIL separately for any work not covered in this agreement or any other work that is at additional cost not covered under this agreement.

xii) Invoice in respect of parts or any other item supplied/repaired through local market by the firm, the bill shall be raised at the actuals along with documentary evidence of the claim, viz Bills/Invoice and the same shall be considered under the head “Spare Parts” for cap value reconciliation.

xiii) Any additional taxes if imposed by the Govt of India/State Govt during the contract Period shall be borne by CMPDIL (including GST, sales tax, works contract tax, service tax) and will be charged separately.

xiv) Submission of Bill: Monthly invoices will be submitted to HOD (Expln), RI- for certification and arrange for payment. No interest shall be payable by CMPDI on pending invoices if the same is not completed in all respects.

xv) All other terms & conditions of CAMC mentioned in the aforesaid Supply order will be a part of this agreement.

B) Terms of payment:

The amount mentioned is payable on monthly basis against invoice. The payment shall be made within 21 days from the date of receipt of invoice in favour of “ ” by way of E-transfer/Demand Draft or Cheque.

It is incumbent upon “ ” to avoid litigation & disputes during the course of execution. However, if such disputes take place between Kores and CMPDIL, efforts shall be made first to settle the dispute at RD, RI- level failing which the same shall be put up at DT (T/CRD), CMPDI (HQ) level

The “ ” shall make request in writing to the Camp Incharge for settlement of such dispute/claim within 30 days of arising of the course of dispute/claim failing which no disputes / claims shall be entertained by CMPDI.

If differences still persist the matter shall be subjected to jurisdiction of competent court of law at Ranchi only.

In witness whereof the parties herein have set their respective hands and seals on the day month and year as mentioned above:

For CMPDIL

Name:
Designation:
Address :

For Kores(India) Ltd

Name:
Designation:
Address :

Date

Signature
With Stamp

Date

Signature
with Stamp:

Witness:

1. Name:

Designation:

Address:

Date

Signature with Stamp:

2. Name:

Designation: DY Manager (E&M)

Address:

Date:

Signature with Stamp