

Contract No. CIL/C2D/Wheel Dozer/Trial/R-147/342

dated 18.06.2026

Contract

between

**Coal India Limited,
Kolkata**

And

**M/s. BEML Ltd
Bengaluru**

For

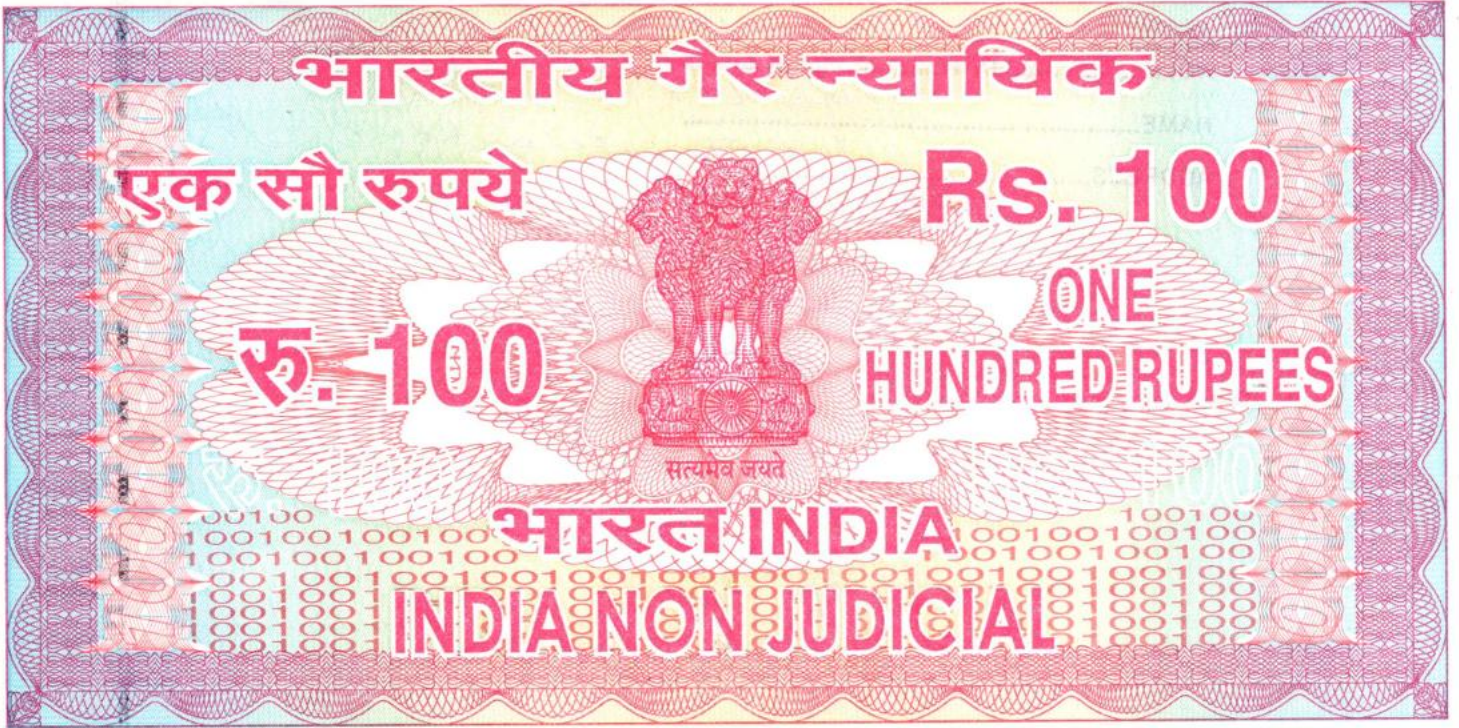
Supply, Installation and Commissioning of 2 nos. 485HP Wheel Dozers of BEML make, Model BD46W-1 on trial basis along with Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares & Consumables for a period of 05 years under Spares Cost Cap



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पश्चिमबङ्ग पश्चिम बंगाल WEST BENGAL

AW 485809

Agreement

THIS AGREEMENT made the 18th day of June, 2026 among Coal India Limited, Coal Bhavan, Premises No. 04, Plot No. AF-III, Action Area 1A, New Town, Rajarhat, Kolkata – 700156, India (hereinafter referred to as the “Purchaser” which expression shall unless repugnant to the context or meaning thereof, includes its successors) **on the FIRST PART** and M/s BEML Ltd, Soudha, 23/1, 4th main, S.R.Nagar, Bengaluru – 560027 (Regd Office) who are manufacturers of the equipment covered under the contract (hereinafter referred to as “Supplier” which expression shall unless repugnant to the context or meaning thereof, includes its successors and permitted Assigns) **on the OTHER PART**

WHEREAS the Purchaser invited bids for certain Goods and Ancillary Services viz. GeM Bid No. GEM/2024/B/5721648 dated 18.12.2024 (read with subsequent corrigenda) for Supply, Installation and Commissioning of 2 nos. 460HP wheel Dozers along with Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares & Consumables for a period of 12 months under Spares Cost Cap, on trial basis and on being declared proven after successful performance of trial period of 24 months, supply of Spares & Consumables shall be made for a further period of 4 years on proven basis thereafter under Spares Cost Cap for the following projects of Coal India Limited (CIL) :



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 18/06/26

17 JUN 2026

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NO.....DATE.....RS.....

NAME..... *BEML LTD*

ADDRESS..... *35/1-A Taratala Road Howrah*

ALIPORE JUDGES COURT
A. K. SAMAJPATI

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SIGNATURE



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NIT item no.	Project	Qty. (nos.)
1	Gondegaon Ghatrohana Amlg OCP Western Coalfields Ltd, Nagpur, Maharashtra	1
2	Nigahi OCP, Northern Coalfields Ltd, MP	1
	Total	2

WHEREAS for GeM Bid No. GEM/2024/B/5721648 dated 18.12.2024, the techno-commercial offer was opened on 21.04.2025 and Price Bid opened on 31.07.2025. The supplier has emerged single bidder for the above projects

The purchaser has accepted the offer No. e-offer no. MT/TC-1690/CIL/(BD46W-1) dtd 18-04-2025 and read with shortfall documents / letters / emails submitted by you on the GeM portal / e-mail as under:

- i. Your confirmation of validity extension on GeM dated 19.08.2025
- ii. Your confirmation of validity extension on GeM dated 25.09.2025
- iii. Our letter no. CIL/C2D/460HP Dozers Trial/2025-24/430 dated 13.10.2025
- iv. Your letter no. BEML/CIL/TC1690/BD46W-1/345 dated 21.10.2025
- v. Your letter no. BEML/CIL/TC1690/BD46W-1/390 dated 15.11.2025
- vi. Your confirmation of validity extension on GeM dated 01.12.2025
- vii. Our letter no. CIL/C2D/460HP Dozers Trial/2025-24/604 dated 06.01.2026
- viii. Your letter no. BEML/CIL/TC1690/BD46W-1/378 dated 19.01.2026
- ix. Our letter no. CIL/C2D/460HP Dozers Trial/2025-24/700 dated 06.02.2026
- x. Your letter no. BEML/CIL/TC1690/BD46W-1/414 dated 10.02.2026
- xi. Our letter no. CIL/C2D/460HP Dozers Trial/2025-24/755 dated 28.02.2026
- xii. Your letter no. BEML/CIL/TC1690/BD46W-1 dated 11.03.2026
- xiii. Your confirmation of validity extension on GeM dated 24.03.2025
- xiv. Your final bid submission dated 22.04.2025 on GeM
- xv. Your confirmation of validity extension on GeM dated 22.04.2025

Whereas the Supplier has agreed sum of **Rs.6,66,80,920.90 (Rupees Six Crore Sixty Six Lakhs Eighty Thousand Nine Hundred and Twenty and paisa Ninety only)** per equipment towards FOR destination price per equipment including freight, insurance, erection and commissioning charges (Inclusive of GST) for supply, installation and commissioning of BEML Make 485HP Wheel Dozers (Model BD46W-1) at the respective projects indicated in this contract.

The total value of Consumable Spares & Consumables per equipment for each project for 12 Months of warranty period from the date of commissioning of equipment and thereafter spares and consumables for a period of 05 years under Spares Cost Cap for the said equipment shall be as under:



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Sl.No.	Description	Rate per equipment (Rs)
1	FOR destination price per equipment including freight and insurance (Inclusive of GST)	6,66,80,920.90
2	Total 1st year Spares and consumables (Inclusive of GST)	50,47,990.44
3	Total 2nd year Spares and consumables (Inclusive of GST)	51,97,728.90
4	Total 3rd year Spares and consumables (Inclusive of GST)	58,34,919.46
5	Total 4th year Spares and consumables (Inclusive of GST)	1,11,64,081.48
6	Total 5th year Spares and consumables (Inclusive of GST)	51,82,905.74
7	Total 6th year Spares and consumables (Inclusive of GST)	52,69,175.54
8	Grand Total for equipment and Spares and Consumables (Inclusive of GST)	10,43,77,722.46

The Total Value for award of the Contract including GST (for above two projects put together) shall be Rs.20,87,55,444.92 (Rupees Twenty Crores Eighty Seven Lakhs Fifty Five Thousand Four Hundred Forty Four and Paise Ninety Two only) (hereinafter "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions, shall have the same meaning as are respectively assigned to them in the conditions of contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement viz.
 - a. The Techno-Commercial Bid and Price-bid and subsequent letters / documents submitted by you as mentioned above.
 - b. The Gem Bid Document
 - c. Technical Specifications of GeM bid document
 - d. Schedule of requirement of GeM bid document
 - e. Additional terms and conditions of GeM bid document
 - f. General terms and conditions of GeM
 - g. The Price Schedule
 - h. The Purchaser's Notification of Award (NoA)
 - i. The Integrity Pact (IP)
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in all respects in conformity with the provisions of the Contract.



4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. Particulars of the Equipment to be supplied under this contract to each project is provided in the Price Schedule.
6. The Contract Price:
The Contract Price shall be **Rs.20,87,55,444.92 (Rupees Twenty Crores Eighty Seven Lakhs Fifty Five Thousand Four Hundred Forty Four and Paisa Ninety Two only)** based on the offer.

7. Price Basis

The contract is on FOR Destination basis for equipment and spares and consumables to be supplied during warranty period and thereafter, 05 years from the date of commissioning under Spares Cost Cap.

8. Statutory Duties, Taxes and Other Levies

Statutory Duties, Taxes and Other Levies like GST on equipment including transportation charges, insurance charges, erection and commissioning charges for delivery upto Final Place of Destination, GST on all items required for fitting in the equipment during commissioning of the equipment, GST on spares and consumables for 06 years of operation as indicated in the Price Schedule, based on your offer, shall be payable.

If there is any statutory change in the above elements within the contractual delivery period, the same shall be admissible and will be paid based on documentary evidence. However, no upward revision in the rates of the above duties, taxes and other levies beyond original delivery period shall be admissible unless the delay is due to any lapse on the part of the purchaser.

9. Execution of Contract

The contract is concluded among the Purchaser and the Supplier for supply, installation and commissioning of 2 no. of 485HP Wheel Dozer (Model BD46W-1) along with Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares & Consumables for a period of 12 months under Spares Cost Cap, on trial basis and on being declared proven after successful performance of trial period of 24 months, supply of Spares & Consumables shall be made for a further period of 4 years on proven basis thereafter under Spares Cost Cap

The Equipment, Consumable Spares and Consumables for 12 months of warranty period and thereafter Spares and Consumables for a period of 05 years of operation will be supplied by the supplier in INR

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Payment in INR shall be made as per relevant sub-clauses of Clause-13 of the ATC of Bid Documents.

IN WITNESS whereof the Parties hereto have caused this Agreement to be executed the day and year first above written.

Signed, sealed and Delivered by:

For the Purchaser

S.M. Alli
18/06/2026

S.M. Alli
Executive Director(MM)
Coal India Ltd, Kolkata

For the Supplier

Amritendu Mandal
18/06/2026

Amritendu Mandal
Regional Manager
BEML Regional office Kolkata

Witnesses

Avinash Kumar
18/06/2026

Avinash Kumar
General Manager (MM)
Coal India Ltd, Kolkata

Pabitra Dutta
18/06/2026

Pabitra Dutta
Sr. Manager(Sales)
BEML Regional office Kolkata

P. Kuldeep
18/06/2026

P. Kuldeep
Senior Manager (MM)
Coal India Ltd, Kolkata

Kaushik Bhowmik
18/06/2026

Kaushik Bhowmik
Sr. Manager(Accounts)
BEML Regional office Kolkata



Schedule of Requirements



CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026

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Schedule of Requirements

Part I

Sl. No	Brief Description of Goods & Services	Quantity	Expected Delivery schedule at Site				
1	<p>Wheel Dozer Model : BD46W-1. <i>[Engine Net Power: 485 HP (362Kw) @ 1800 rpm]</i></p>	02 Nos.	<p>01 (one) machine within 18 (Eighteen) months from the date of signing of Contract and thereafter 01 (one) machine within next 3 months.</p> <p>Project wise Allocation: <u>NCL</u> Nigahi, OCP – 1 no. <u>WCL</u> Gondegaoon- Ghatrohana Amlg., OCP – 1 no.</p> <p>Project wise Priority Allocation :</p> <table border="1"> <tr> <td>1st Dozer</td> <td>Nigahi, OCP, NCL</td> </tr> <tr> <td>2nd Dozer</td> <td>Gondegaoon- Ghatrohana Amlg., OCP, WCL</td> </tr> </table> <p><i>Adjustment to the excess supplies, if any, made against the above delivery schedule is admissible in case of subsequent short supplies.</i></p>	1 st Dozer	Nigahi, OCP, NCL	2 nd Dozer	Gondegaoon- Ghatrohana Amlg., OCP, WCL
1 st Dozer	Nigahi, OCP, NCL						
2 nd Dozer	Gondegaoon- Ghatrohana Amlg., OCP, WCL						
2	<p>AFDSS and other commissioning requirements as per Annexure – 6 of the NIT (contract), if any, and Ancillary Equipment for each equipment of Item 1 (above), as specified in Technical Specifications,</p>	In accordance with item 1	Delivery to be made along with the Machine.				
3	<p>Provision of spare parts; - Operational, Maintenance and Standby/Contingency spare parts, consumable items, wear materials, maintenance tools, special tools in accordance with Part C.6 of the Technical Specification.</p> <p>The cost of Spare Parts requirement shall be quoted separately for each project</p>	02 (1 + 1) years	<p>To comply with the terms of part C.6 of Technical Specifications and in consideration of Items 1 and 2 above.</p> <p>The delivery of spare parts and consumables should be made as follows:</p> <p>a) Consumable spares and consumables required for first 12 months of warranty period– to be supplied in two lots within six months from the date of commissioning of the first equipment. No consumable spares and consumables of warranty period will be accepted after completion of 12 months of warranty period.</p> <p>However, additional 2 Nos. Tyres for each Wheel Dozer required for first 12 months of warranty period should be supplied within 15 days from the date of commissioning.</p>				

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			b) Spares and consumables required from 2 nd year of operation from the date of commissioning of the equipment for the project – To be supplied as per requirement of the user under Spares Cost Cap.
4	Provision of spare parts; - Operational, Maintenance and Standby/Contingency spare parts, consumable items, wear materials, maintenance tools, special tools in accordance with Part C.6 of the Technical Specification.	4 (3 rd to 6 th) years after trial period	Spares and consumables required from 3 rd to 6 th year of operation from the date of commissioning of the equipment– To be supplied as per requirement of the user under Spares Cost Cap.

The quantities of equipment allocated to the mine projects are as follows:

Sl. No.	Name of Project	Company	Consignee Address	Total Requirement
				Under NCD
1	Nigahi, OCP	Northern Coal Fields Ltd.	Depot Officer, Regional Stores, Nigahi Project, Northern Coalfields Ltd., P.O. – Singrauli Colliery, Dist-Sidhi, Madhya Pradesh (India), Pin – 486889	1
2	Gondegaon-Ghatrohana Amlg., OCP	Western Coal Fields Ltd.	Depot Officer, Regional Stores, Western Coal Fields Ltd P.O. – Silewara Colliery, Dist-Nagpur, Maharastra (India), Pin – 441109	1
Total				2 nos.

Delivery Terms

A) **In case of Indigenous Order:** On FOR Destination basis / Free Delivery at Site basis.

Delivery Schedule: Delivery schedule as indicated above, shall reckon from the date of Contract

Final Place of Destination / FOR Destination / Ultimate Consignee

The Projects indicated above are the Final Place of Destination/ FOR Destination for the purpose of delivery. The consignee mentioned therein is the ultimate consignee.

Part II

Sl. No.	Brief Description of Services	Period/Quantum
1	Training of Purchaser's Personnel at Project Site / Manufacturer's Training Facility available in India	Please refer to Schedule of Requirements of Services later in this Section and to the Technical Specifications.
2	Assembly and erection of equipment at Site in accordance with the Technical Specification and Conditions of Contract.	As given in Annexure (I)

CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026



Schedule of Requirements of Services

The Supplier's scope of the Contract will include the following

- I. Type test on each equipment included in the technical specification and offered in the bid.
- II. Providing Services of Supplier's qualified engineer(s)/personnel and manpower (skilled/semi-skilled /non skilled) for:
 - A. Unloading, transportation to site, storage at site and/or
 - B. Transportation from storage to erection site, installation, testing and commissioning.
- III. Training of Purchaser's Personnel:
The Purchaser's estimates of the minimum training requirements within warranty period, (in terms of Purchaser's personnel, periods and locations) are given in the following table. These estimates relate to each equipment as specified in Part I

Training Schedule per machine as per Schedule of Requirement

Name of the Project: - 1. Gondegaon- Ghatrohana Amlg. OCP, WCL (under NCD)
2. Nigahi OCP, NCL (under NCD)

Type of Personnel	At Manufacturer's training facilities available in India					At Site				
	No	Period		Total		No	Period		Total	
Mech Engineer	1	1	week	1	week	1	1	Week	1	Week
Mech Supervisor	2	1	week	2	weeks	1	1	Week	1	Week
Elec Supervisor			week		week	-	-	Week	-	Week
Mech Fitter			week		week	3	1	Week	3	Weeks
Electrician			week		week	2	1	Week	2	Weeks
Operator			week		week	11	1	Week	11	Weeks
Total	3			3	weeks	18			18	weeks

Definitions:

Mech/ Engineer- Graduate Engineer having basic knowledge of the equipment
 Elect/Mech Supervisor - Diploma Holder Engineer having basic knowledge of the equipment
 Mech Fitters/Electricians/Operators- Un-skilled, semi-skilled and skilled.

Note: - The training shall be completed in batches within warranty period from the date of commissioning of first equipment in the respective project.

- IV. Provision of additional training within the contract period after completion of warranty period.
 - i. The Supplier will impart training to the CIL personnel, in addition to the contractual training provision, after completion of warranty period but at any time within the contract period.
 - ii. The additional training will be as per requirement of the user and shall cover the training scope same as per the mandatory training (within warranty period) of the contract.
 - iii. The training will be on chargeable basis and additional payment to the supplier will be made at the same rates which have been indicated for mandatory training.

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Technical Specifications



CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026

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Technical Specifications
Preface - Instructions to Bidders

Introduction

These Technical Specifications identify the technical requirements of the Goods and Services which are the subject of this tender.

The Technical Specifications are presented in four parts as follows:

- A. Scope of Supply
- B. Specific Project Requirements
- C. General Requirements
 - 1) Geography and Climatic Conditions
 - 2) Goods (Equipment and Machinery)
 - 3) Services
 - 4) Standards
 - 5) Supplier's Responsibility
 - 6) Spare Parts Provisions
 - 7) Availability Provisions
 - 8) Deemed Breakdown
 - 9) Composite Warranty / Guarantee
 - 10) Quality Assurance
- D. Equipment Specifications

CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026



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Part A

Scope of Supply

A.1 Equipment Package

The Supplier is required to provide a complete package of equipment for the supply of **485 HP wheel dozer (Engine Net Power: 485 HP (362Kw) @ 1800 rpm)** to opencast (surface) coal mining projects as per the Technical Specifications provided in Part D.

The supplier is required to supply the equipment along with accessories, consumables, training, installation, commissioning and testing at the coal mining project.

The package also includes Consumable Spares and Consumables including oils, greases, lubricants, all GETs for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares & Consumables for a period of 5 years under Spares Cost Cap.

The scope includes additional 2 nos. tyres excluding original fitment of 4 nos. tyres.

The Scope and Phasing of supply for the 485 HP wheel dozer (**Engine Net Power: 485 HP (362Kw) @ 1800 rpm**) is given in Schedule of requirement.

A.2 Supplementary Items

The equipment shall be provided with a comprehensive tool kit which shall include any special tools required for erection and commissioning of equipment.

Detail given in Annexure – (a)

A.3 Information and Drawings

At least one month before the scheduled installation date, the Supplier shall provide not less than:

- (a) Suitably illustrated copies of Operating, Repair and Maintenance Manuals for each type/model of equipment and accessories, written in English language, substantially bound in book form;

One hard copy along with soft/digital copy to each project site and

Soft/digital copy of the same to the General Manager (Excv.)/HOD, Subsidiary Hqrs. and General Manager (EED), Coal India.

- (b) Suitably illustrated copies of detailed Spares Parts Manuals for each type/model of equipment and accessories, written in English language, substantially bound in book form;

One hard copy along with soft/digital copy to each project site and

Soft/digital copy of the same to the General Manager (Excv.)/HOD, Subsidiary Hqrs., General Manager (EED), CIL; General Manager (MM)/HOD subsidiary Hqrs and General Manager (MM)/HOD, CIL.

In addition to the Equipment drawings, where appropriate the Supplier shall supply detailed relevant drawings (in the same number of copies) illustrating erection/assembly site(s), foundation and accommodation requirements for such items as drive motors, switch installations etc.

A.4 Erection/Assembly, Commissioning and Performance Testing:

The Supplier shall provide the Services of Specialist Technicians (refer Part – C.3) and required manpower (skilled/semi-skilled/unskilled) to undertake the installation/erection/assembly, commissioning and performance testing of the Equipment and accessories supplied.

The technicians shall remain at site following commissioning and train all necessary personnel to make them conversant with the maintenance and operation of the equipment.

CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026

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Specialist Technicians are required to remain on the site following commissioning and train all necessary personnel to make them conversant with the maintenance and operation of the equipment. This activity may take more than a month. However, the period of stay of Specialist Technicians may be restricted to 6 months from the date of commissioning.

A.5 Training:

A.5.1 Compulsory Training

The training shall be completed in batches within warranty period from the date of commissioning of the equipment in the respective project. The supplier in consultation with the project in-charge / HOD [Excavation] of the respective site shall make available experienced personnel to conduct training of engineers, supervisors, technicians and operation personnel for specified period as mentioned in table given in 'Schedule of Requirement of Services' from the date of issue of acceptance certificate of the equipment. The training shall cover the following:

- a) Training on simulator module by the bidder at their works/suitable location in India/suitable end user's location is mandatory.
- b) Equipment system, safety and risk assessment.
- c) Equipment operation and maintenance.
- d) Trouble shooting, localization of fault and their remedies covering:
 1. Electrical and electronics
 2. Mechanical
 3. Hydraulic system
 4. Lubrication system
 5. Pneumatic system etc.
- e) Training on maintenance of OEM bought out systems, e.g., engine, transmission, hydraulic aggregates / system etc., by the manufacturer of the system.
- f) Training on Digital system of the equipment including OBD (on board display) and communication port data management, Health and productivity management system of the equipment.

Comprehensive training manuals with clear illustration shall be provided to each participant in English language. The training courses shall be conducted in both English and Hindi language.

Details of purchaser's estimates of the minimum training programme required for total fleet of equipment in a particular project is described in Schedule of Requirement.

A.5.2 Additional training within the contract period after completion of warranty period

- (a) Supplier has given an undertaking in their bid to impart training to the CIL personnel at any time within the contract period after completion of warranty, in addition to the compulsory training as per provision of clause A.5.1.
- (b) The additional training will be as per requirement of the user and the scope of training will be same as per the compulsory training provision of clause A.5.1.
- (c) The training will be on chargeable basis and additional payment to the supplier will be made at same rate what individual supplier will be charged for compulsory training.



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Part B

Specific Site Requirements

B.1 Project Specific Requirements

The equipment shall be suitable for use at the specific site projects under the conditions detailed below.

B.1.1 NIGAHI, OCP, NCL

The Nigahi Opencast Project is owned by the Northern Coalfields Limited, a wholly owned subsidiary of Coal India Limited (the "Purchaser"). The mine is located in the Sidhi District of Madhya Pradesh approximately 9 Km from Singrauli railway station on Chopan-Katnibranch line of Eastern Railway.

Geological Conditions

The block is contiguous to Jayant block in the east and Amlohri block in west consisting of Sub-soil, Sandstone, Shale and clay.

Power Supply

The project will receive power at 132/33 KV through the Madhuli Substation of the Northern Coalfields Limited. An additional 132/33 kV at Nawanagar is installed.

Mine Water Quality

PH- 5.5 ~ 9

Total suspended solid – less than 100 mg/Ltr

Water Supply

Linked to the IWSS (integrated water supply scheme) of the Northern Coalfields Limited

B.1.2 GONDEGAON-GHATROHAWA AMLG, OCP, WCL

The Gondegaon-Ghatro. Amalgamated Opencast Project is owned by the Western Coalfields Limited, a wholly owned subsidiary of Coal India Limited (the "Purchaser"). The mine is located in the Nagpur District of Maharashtra approximately 15 Km from Kanhan Nagpur railway station.

Geological Conditions:

Recent and Sub Recent soil: Black cotton soil, sandy soil, alluvial soil

Lower Triassic to Upper Permian: Basalts, Lameta

Power Supply:

Gondegaon OC project is at present receiving power at 33 kV by means of an overhead feeder from Mansar substation of MSEDCL.

Water Supply:

Water supply is linked to the Kanhan River.



CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026

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Part C

General Requirements

C.1 Geography and Climatic Conditions

Elevation:-

The natural surface varies from 100 to 1000 m above mean sea level.

Climate:-

The climate of the coal mines, where the equipment will be deployed, is sub-tropical to tropical, dusty, with a hot and humid atmosphere. Monsoon rains occur in the period from June to October.

Ambient Conditions:-

Relative Humidity - Maximum 98%

Temperature - Minimum 0° C

Maximum 50° C

Rainfall:- The mean annual rainfall is 1,000mm – 1,200mm, 90 to 95 % of which may fall in rainy season from June to October.

Wind:- April to September - South to South Westerly

October to March - North Westerly

Speed:- - 8 km per hr average

- 100 km per hr maximum

C.2 Goods (Equipment and Machinery)

Detailed specifications of the Equipment to be supplied are given in **Part D** of this section.

In general, all items shall be:

- New, unused, of the current design [incorporating latest proven features] and not likely to be discontinued or become obsolete during the lifetime of the equipment.
- Designed and constructed to handle without overload and for the working hours stated, the maximum volumes/rates specified;
- Designed to facilitate ready access, cleaning, inspection, maintenance and repair of component parts;
- Designed to facilitate rapid changeover of consumable items.

The supplier shall ensure that suitable latest technology available worldwide as on date shall be adopted in the quoted model of equipment and shall not be discontinued during life time of equipment. However, in case, technical up-gradation is unavoidable the same may be adopted in the supplied model of equipment with due clearance of Head of Excavation department of Subsidiary Co. Supplier shall not seek any technical modification / up-gradation at the cost of buyer before completion of 05 years from the date of completion of guaranteed availability contract period of the equipment except, when any modification / up-gradation is required for compliance of any statutory guideline issued from regulatory body of Govt. of India, DGMS, State Authority etc.

The component parts of all items shall, wherever possible, be selected from the standard ranges of reputable manufacturers and bidder shall disclose the manufacturer's name of all such items in their bid.

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The Equipment and accessories shall be physically robust and where necessary capable of dismantling for transportation and ready re-assembly using simple tools. All Equipment items provided shall be designed to be compatible within the proposed overall Scope of Supply.

Electrical Equipment shall provide all protection devices, controls and interfaces for the Equipment to operate safely and efficiently.

All workmanship and materials shall be of first class quality in every respect.

All parts and surfaces, which are exposed to corrosive environment, shall be suitably protected to prevent any effects of corrosion or erosion.

C.3 Services

The supplier shall be responsible for the erection, testing and commissioning of the equipment at site for which the supplier shall depute qualified and competent Engineer(s) and specialist technicians.

C.4 Standards

The design, supply, erection, testing and commissioning of all Equipment under this Contract shall in all respects comply with the requirement of this specification and with the appropriate current Indian standards and codes, or relevant Standards issued by the Indian/International Standards Organization or any other equivalent international standards, which corresponds to specific IS/ISO indicated in the technical specification. Such equivalent international standards are to be supported by documentary evidence certifying that offered standards are identical to the corresponding IS/ISO.

The equipment shall comply with requirements of the statutory government authorities, including Director General of Mines Safety (DGMS) having jurisdiction over the equipment and its use.

The system of units for all measurements shall be the Systeme International (d'unités) (S.I.)

C.5 Suppliers Responsibility

The Purchaser requires that the Supplier shall accept responsibility for the provision of complete operable and compatible Equipment and systems within the Scope of Supply. This document identifies only the major items required for the installation and the Supplier shall ensure that the total supply includes all necessary Equipment for it to function effectively, safely and efficiently. Any additional items the Supplier considers necessary to ensure compliance with such a requirement shall be identified and included.

The Supplier shall be responsible for the erection, testing and commissioning of the Equipment and ensure that it meets the requirements as specified. The commissioning and setting to work of the whole Equipment Supply package shall be carried out by the Supplier in conjunction with the Purchaser's nominated personnel.

C.6 Spare Parts Provisions

C.6.1.a. Availability of Spare Parts

All items and Equipment proposed shall be of current design and manufacture. The Supplier shall warrant that sufficient spares and servicing facilities will be available to maintain the Equipment in use throughout its life.

C.6.1.b Bought-out assemblies and sub-assemblies

Detail is given in Annexure (b)

C.6.2 Provision of Spare Parts

C.6.2.1 Within the Contract Price, the Purchaser shall agree to purchase all Operational, maintenance and standby/contingency spare parts, consumable items, wear materials, maintenance tools and special tools (hereinafter collectively referred to as "Spare Parts", unless the context requires otherwise) in accordance with the Supplier's recommendations for 06 years from the date of issue of the Commissioning Certificate. Similarly, within the Contract Price, the Purchaser shall also agree to purchase consumable items (hereinafter referred to as "Consumables") in accordance with the Supplier's recommendations for 06 years from the date of issue of

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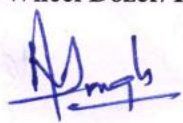
the Commissioning Certificate. The schedule of supply of spares and consumables is indicated in Schedule of Requirement. In addition, the Supplier shall provide Spare Parts and Consumables for Commissioning Consumables shall include items such as oils, lubricants and fluids also. Tyres is not included in consumables. However, additional tyres to the extent indicated under Equipment Package mentioned at Clause – A.1, shall be supplied.

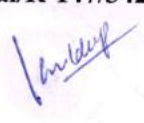
The supplier shall submit a separate schedule showing consumable spares and consumables proposed to be supplied by them in the 1st (twelve) months period for each equipment from the date of commissioning of equipment as per 'Schedule of Requirement' to comply with the provisions herein contained.

Management and storage of spares and consumables from 2nd year of operation from the date of commissioning onwards (i.e. after completion of warranty period) till completion of contract period will be under the scope of the supplier. The Spares Cost Cap shall be project-wise wise for dozers. The modalities of operation of Spares Cost cap model shall be as follows:

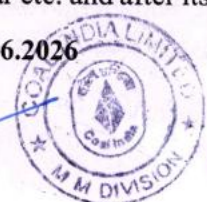
- i) Reconditioned/Repaired/Refurbished spares/assemblies/sub-assemblies will not be supplied under Spares Cost Cap.
However, only Major Assemblies can be repaired and reused/ or kept as float for use in other machines. Repair will be done based on joint inspection of the User & Supplier. The list of major assemblies which can be repaired and reused are as follows:
 - a) Engine Assembly
 - b) Transmission
 - c) Torque-Convertor
 - d) Differential
 - e) Blade Assembly
- ii) The Spares Cost Cap shall be in Indian Rupees (INR) only and exclusive of estimated GST. Estimated GST shall also be indicated. The Spare Parts Stores/facility to be operated by the Supplier shall be GST registered storage facility or else the supplier will have to get the Stores/facility registered with GST authorities at least before commencement of Spares Cost Cap in the 2nd year of operation of the first equipment commissioned.
- iii) The supplier shall submit the comprehensive Price List at least 6 months prior to the 2nd year of operation of the first equipment commissioned (in hard copy duly signed as well as in soft copy), covering all the spares and consumables and assemblies / sub-assemblies etc. required during lifetime of the equipment to CIL. CIL will examine the same with respect to any other Price List, if available, applicable on the first date of applicability like Depot Agreement Price List / RC prices etc. and after its approval, circulate the approved Price List to the concerned subsidiary HQ and mines/projects. This list may be different from the Depot Agreement price list to the extent that the Price List under Spares Cost Cap will be comprehensive one including all bought out items, oils and lubricants etc. whereas the Depot Agreement Price List normally excludes these items. The approved Price List will be valid at least for a period of one year from its applicable date. If any item appears in this Price List as well as in the Depot Agreement Price List / RC price list / any other approved Price List of the same firm for other equipment, the lowest price will be applicable against all such lists. The time period for such circulation of approved Price List shall be about 3 months prior to the 2nd year of operation of the first equipment commissioned. In case of delay in circulation of the approved Price List, the Supplier may continue to supply the items as per the Price List submitted to CIL but these provisional rates will be regularized subsequently when the approved Price List is circulated by CIL.
- iv) For subsequent years during the contract period, the supplier may continue with the same approved Price List or submit the next Price List (in hard copy duly signed as well as in soft copy) which may include items with alternate part nos., if any. However, no new item shall be included. If a new Price List is submitted, it should be submitted at least 6 months prior to the applicable year of operation of the first equipment commissioned to CIL along with the statement of increase / decrease in item-wise prices from the previous approved price list with proper justification for increase in prices. CIL shall examine the same especially in relation to the increase with the previous year etc. and after its approval, circulate the approved Price List

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to the concerned subsidiary HQ and mines/projects. The time period for circulation of approved Price List shall be approximately within 3 months after receipt of the new Price List. In case of delay in circulation of the approved Price List, the Supplier may continue to supply the items as per the previous approved Price List in operation but these provisional rates will be regularized subsequently when the approved Price List is circulated by CIL.

Further, if for the compliance of any statutory, regulatory or environmental regulation or guidelines from DGMS or other institutions / GOI, the new parts for compliance of such regulations may be included in the price list with documentary evidence related to implementation of such guidelines. Otherwise, no items will be included.

- v) For items, which are not covered in the approved Price List(s), but need to be supplied, the supplier shall supply the same free of cost during the complete period of contract.
- vi) The Supplier will assess the requirement of spares and consumables for the particular year of operation and submit the list of spares and consumables including quantity to the Excavation Engineer In-Charge of the Mine/Project, 3 months in advance of the respective year of operation. The Excavation Engineer In-Charge, after verifying that the same is in order, shall send the same to the Excavation Engineer In-Charge of the Area. The Area, shall proceed to place an Open Provisional Purchase Order, based on the prices as per available Price List, through the Area Purchase Cell on the Supplier within the Spares Cost Cap Value of the particular year. For placing the Open Provisional Purchase Order by the Area Purchase Cell, no formal approval is required. If any item is not appearing in the Price List, it will be supplied on FOC basis.
- vii) Once the Open Provisional Purchase Order is placed by the concerned Area Purchase Cell, it is the responsibility of the Supplier to ensure that these spares and consumables are made available to the mine / project as and when required.
- viii) Fortnightly Inspection Report(s) regarding the health of the equipment including all safety features etc. will be prepared jointly by the Supplier and the Excavation Engineer-In-Charge of the Mine/Project for short term and long term planning for requirement of spares and consumables and these joint Inspection Reports will be the basis for assessment and confirmation of requirement of spares and consumables under Spares Cost Cap.
- ix) Based on the requirement generated as per the fortnightly Inspection Report(s), the Area Excavation Engineer-in-Charge will send to the Area Purchase Cell, the complete details of those spares and consumables against the Open Provisional Purchase Order, which are required for the month/quarter depending on the nature of equipment. The Area Purchase Cell shall thereafter proceed to place Formal Order on the Supplier within 10 days with the concurrence of Area Finance and approval of Area GM. In case the items are not covered in the Open Provisional Purchase Order but the prices are indicated in the approved Price List, the same may also be taken into consideration as long as the limit for Spares Cost Cap is not exceeded. The delivery of the spares and consumables to the Regional/Area Stores shall be made thereafter within 15 days. The materials shall be routed through Regional/Area Stores of the concerned Area (not unit stores / charged off stores). The procedure for acceptance of materials, lifting of materials from Stores, use in the machine and payment to be made shall be as follows:
 - a) The supplier will supply the requisitioned spares and consumables along with copies of GST Invoices, delivery challans etc. to the Consignee duly indicating part no. description, quantity etc.
 - b) The Regional/Area Stores will enter the receipt of the items in the concerned register and arrange for inspection of the items by the concerned Area Engineer(s) or his authorized representative(s). On acceptance of the material, the Stores Receipt Voucher (SRV) will be raised by the Regional/Area Stores. The materials will then be moved from the Receipt Section to the Issue Section.
 - c) Based on requisition from the concerned Mine/Project Engineer(s), the Regional/Area Stores will issue the materials and complete the paper formalities for issue of the items.
 - d) Once the materials have been issued, the concerned Mine/Project shall keep record of the same when the material is used on the machine. All concerned details shall be recorded in a register (which may be in electronic form) to be maintained by the Excavation Engineer In-charge of the Mine/Project.

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- e) The Regional/Area Stores after issuance of SRV, shall send a copy of the SRV and other related documents like invoices, guarantee/warranty certificate etc. to the Area Finance dept. for payment purposes. A copy of the same will also be sent to the concerned Area Excavation Dept. for maintaining the records in respect of Spares Cost Cap value.
- f) The Finance dept. at the Area will then verify the documents and thereafter send the same to the Paying Authority of the concerned subsidiary for payment. Once the payment is made, the Excavation dept. at the subsidiary / area / mine /project will be informed so that the equivalent amount may be reduced from Spares Cost Cap value for the particular year.
- x) The unutilized Spares Cost Cap value for each year will be carried forward to the subsequent year till completion of contract. However, the unutilized value of Spares Cost Cap, if any, at the end of the contract, will lapse.
- xi) In case of total value of spares and consumables for a particular year exceeding the Spares Cost Cap of a particular year, the additional spares and consumables shall have to be supplied on FOC basis. The procedure for accounting and maintenance of records to be followed for FOC supplies will also be the same as above.
- xii) The supplier shall stock & maintain sufficient inventory of spares and consumables, required for all kinds of maintenance and repairs of equipment during complete contract period.
- xiii) The payment during the relevant year of operation shall be made as per the prevailing approved price list for Spares Cost Cap only. The payment by the Paying Authority of the concerned subsidiary shall be made within 21 days of receipt and acceptance of materials at Regional/Area Stores and after receipt of documents stipulated in the SCC.
- xiv) Statement of consumption of spares and consumables with quantity and value for each month of the respective year of the Spares Cost Cap, shall be signed by the Mine/Project Excavation Engineer-In-Charge and the concerned representative of the Supplier. It shall be maintained by the Mine/Project and a copy of the same shall be sent to Excavation Engineer-In-Charge of the Area and Subsidiary HQ. The annual report of the consumption shall be maintained by the Excavation Engineer-In-charge of the Subsidiary HQ.
- C.6.2.2 In the event that the spare parts and consumables, as recommended by the Supplier, in any way fall short of actual requirements during the period for which they are said to be adequate, the supplier shall provide such additional spare parts and consumables as are necessary at the final destination. Such additional spare parts and consumables shall be provided by the Supplier to the Purchaser beyond the Spares Cost Cap value free of all cost and shall be transported to Site by air freight internationally and by air, rail or fast road transport within India.
- C.6.2.3 In the event that the spare parts, Insurance items and consumables, as recommended by the Supplier, are in excess of actual requirements, the Purchaser will require the Supplier to repossess or repatriate or otherwise dispose of such excess spare parts and consumables in exchange for payment to the Purchaser of the Contract landed Price (with taxes and duties) of the spare parts and Consumables concerned.
- The Purchaser shall notify the Supplier, in writing of its requirements under this Clause within thirty (30) days of completion of the contract period referred to in Clause C.6.2.1 hereof.
- C.6.2.4. In the event that operation of the equipment is inhibited or frustrated as a direct result of lack of spare parts and consumables, pursuant to Clause C.6.2.2 hereof, then the period referred to in Clause C.6.2.1 hereof shall be extended by a period of not less than the period during which operation as aforesaid was inhibited or frustrated.
- C.6.2.5. The supplier shall not be liable for the supply of additional spare parts and consumables, nor to extend the period referred to in Clause C.6.2.1 hereof, if and to the extent that, additional Spare Parts and Consumables are required by reason of unforeseen accidents, negligence or misuse on the part of the Purchaser or actual working hour exceeds the total expected hours as mentioned in clause C.6.2.6.

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C.6.2.6. The assessment of the Supplier of the spare parts requirements shall be based upon the expected working hours per year as defined in the individual Equipment Specifications included in the Technical Specifications.

In accordance with the provisions of clause D.7, Part - D of the technical specifications the expected working hours per annum are 5000 (five thousand) hours for 485 HP Wheel Dozers. The expected average working hours per annum as indicated are only approximate hours and may vary + 500 hours.

Total duration of contract will be 6 years for Wheel Dozers irrespective of working hour.

In case, actual working hours of the equipment exceeds 33,000 [$\{(5500 \times 6) = 33,000\}$] hours during the tenure of 6 years (72 months) of contract period, then spares and consumables items (as declared by the bidder in the offer/Spares Cost Cap) if additionally required and agreed by the purchaser, will be procured by the Purchaser from the Supplier.

C.6.3. Emergency Spare Parts

C.6.3.1. Emergency spare parts required by the Purchaser to repair breakdowns shall be dispatched to the site by the Supplier by the fastest, practicable means as directed from time to time by the Purchaser.

C.6.3.2. For the purpose of Clause C.6.2.6, "Emergency Spare Parts" shall mean those spare parts or components required by the Purchaser to repair any item of Equipment supplied pursuant to the Contract in the event of a breakdown not attributable to a failure covered by guarantee or a failure of the Supplier to provide adequate Spare Parts or Consumables.

C.6.3.3. Payment in respect of the supply and delivery of such Emergency Spare Parts shall be made promptly, retrospectively, by the Purchaser, in a manner consistent with the terms of payment described in the contract.

C.6.3.4 Lifetime Spare Parts

The Supplier undertakes and guarantees to produce and maintain stocks, to be available for purchase by the Purchaser under separate agreement, of all Spare Parts and Consumables as may be required for maintenance and repair of the Equipment throughout its working life. In the event that the Supplier wishes to terminate production of such Spare Parts, the Supplier shall:

- (a) give not less than six months' notice in writing of its intention to terminate production in order to permit the Purchaser reasonable time in which to procure needed requirements; and
- (b) immediately following termination, provide to the Purchaser at no cost, manufacturing drawings, material specifications and all necessary permissions to facilitate manufacture of the Spare Parts elsewhere.
- (c) any change in part number or superseded part number should be informed to the HOD of Excavation department / MM department of subsidiary hqrs. and the project site wherever the equipment is operating.

In any event, the Supplier shall not seek to terminate manufacture of spare parts for a period of not less than 15 years from taking over or the life time of the equipment whichever is later.

C.6.4 Oils, Lubricants and Fluids

The detailed schedule of all necessary oils, lubricants, fluids for the operation and maintenance of Equipment are given in Annexure - (c).

First Fill of OEM recommended Oil and Greases or its equivalent available in India is to be supplied by the Supplier at their cost.

C.6.5 General

C.6.5.1 Nothing in this Clause C.6 shall relieve the Supplier of any Guarantee, Availability, Performance or other obligations or liabilities under this Contract.

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C 7 Guaranteed Availability Provisions

Equipment	Minimum Annual Guaranteed Percentage Availability		
	1 st & 2 nd year	3 rd & 4 th year	5 th & 6 th year
Dozer Beml Make, Model : BD46W-1 [Engine Net Power: 485 HP (362Kw) @ 1800 rpm]	75%	85%	84%

Note: The period of Trial shall be for 2 years

C.7.1 Introduction

C.7.1.1 The Supplier shall guarantee that the Equipment supplied pursuant to this Contract shall be available for use by the Purchaser and shall meet the performance criteria specifications at the level and in accordance with the terms and conditions of the Availability Guarantee herein contained.

C.7.1.2 Where Equipment supplied under the Contract fails to meet the criteria of the Availability Guarantee, the Supplier shall, at its own cost, provide suitably qualified and experienced personnel at Site to demonstrate to the Purchaser's satisfaction that the required level of availability can be achieved and maintained.

C.7.1.3 The Supplier shall provide the Services of such personnel at Site within seven (7) days of notification by the Purchaser that the availability criteria have not been met in any one (1) month.

C.7.2 Guarantee

C.7.2.1 The Supplier shall guarantee that the Equipment supplied pursuant to the Contract shall be available to the Purchaser at the level hereinafter defined to perform to criteria of not less than that defined in the Technical Specifications incorporated in the Contract.

C.7.2.2 The Supplier shall guarantee that the Equipment shall be available to perform its duty to minimum criteria and to the minimum availability percentage level as defined in the individual Equipment specifications included in the Technical Specifications.

The method of assessment applied shall be as follows:

Method of Assessment:

The following calculation shall determine the availability of the Equipment:

$$\% \text{ Availability} = \frac{\text{Scheduled Available Time} - \text{Downtime}}{\text{Scheduled Available Time}} \times 100$$

Scheduled Available Time shall equate to 24 hours daily.

Downtime:-

Downtime shall mean all hours of work lost due to mechanical, electrical or other failure, including:

- routine servicing and maintenance in accordance with the manufacturer's published recommendations, including: changing oils, oil filters and air filters; lubrication; changing identified consumable or wear parts.
- planned preventative maintenance programs;

It shall not however include:

- damage due to abusive use or incorrect operation methods by the purchaser;
- accidents;
- strikes or stoppage of work by the Purchaser's personnel;
- natural disaster;
- lack of Spare Parts not attributable to a failure of the Supplier.

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Note – For (I) & (II), a joint inspection report will be prepared with supplier within 3 days from the date of occurrence of incident and repairing works will be done in consultation with supplier

Downtime shall also specifically include all hours lost due to failures determined to be guarantee failures.

The Supplier shall provide a schedule of maintenance required to carry out (a) and (b) above for the contract period of operation and shall state the number of hours required to carry out each maintenance task. The time stated shall, with the agreement of the Purchaser, form the basis of the assessment of the availability.

This schedule of tasks and time will be reviewed periodically by the Purchaser and the Supplier, jointly, to monitor the practicality of the schedule.

The Purchaser will assist the Supplier, without relieving the Supplier of any other obligations under the Contract, to achieve the guaranteed availability by:

1. Providing normal and proper maintenance, including preventative maintenance in accordance with the Supplier's standard/published recommendations, and making all necessary repairs using only spare parts provided by the Supplier in accordance with the requirements specified in part C6.
2. Providing co-operation to all Suppliers' authorized representatives, complying with all reasonable procedural suggestions to improve efficiency of machine operation or reduce downtime.
3. Where appropriate, providing and maintaining such conditions as:
 - Proper Electrical Supply
 - Terrain Area
 - Bench Preparation
 - Reasonable Floor Conditions
4. Providing all Suppliers' authorized representatives access at all reasonable times to the machine service and repair facilities.
5. Maintaining a logbook for each shift wherein the working hours, breakdown hours, maintenance hours, idle hours, etc. shall be recorded. This record will be available for examination and signature by the Supplier's representative.

Any downtime on Purchaser's account shall not be considered for availability calculation.

Any substantial delay in providing Manpower/ Crane from buyer's side will be recorded jointly for calculation purpose.

Hindrance register has to be maintained in this regard. Hindrance register format is provided in the contract. Monthly status to be intimated to the GM (ExcV) of the subsidiary for monitoring purpose.

C.7.3 Effect and Duration of Guarantee

C.7.3.1 This Guarantee shall become effective on the day on which the Equipment is commissioned at the Site. Commissioning shall be evidenced by the issue of the Purchaser's Acceptance Certificate.

C.7.3.2 This guarantee shall remain effective for the entire contract period from the date of commissioning irrespective of the hours operated by the Equipment during the period of the guarantee.

C.7.3.3 Compensation for not achieving Guaranteed Availability during trial period of 24 months

In the event that the Equipment fails to achieve the minimum availability percentage level as defined in the individual Equipment specifications included as the attachment to the Technical Specifications, the supplier shall be allowed one chance during the entire trial period to modify or make certain changes in the equipment, at its risk and cost, to achieve the stipulated guaranteed availability. In such an event, the performance of the modified equipment for the stipulated period shall be counted from its re-commissioning date. The period for which the equipment has worked before carrying out the modifications will not be taken into account for assessing the performance.

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If, even the modified equipment fails to achieve the minimum availability percentage level as defined in the individual Equipment specifications included as the Attachment to the Technical Specifications, the Purchaser shall have the right to encash 100% Performance Bank Guarantee submitted by the Supplier. Consequent upon the encashment of the 100% Performance Bank Guarantee due to non-achievement of stipulated minimum availability percentage, the Supplier shall have right to take back the equipment at no cost to the Purchaser.

C.7.3.4 Compensation for not achieving Guaranteed Availability during remaining period of 48 months.

In the event that Equipment fails to achieve the Availability herein provided, measured over each twelve (12) month period, the Supplier shall be liable for and pay to the Purchaser, as liquidated damages, a sum equal to as indicated hereunder for each equipment against the PBG/ extended SDBG / bills submitted by the bidder as per contract:

- a. 1% of the delivered landed price of the equipment including the Spares Cost Cap for the year in which the machine could not achieve guaranteed availability for reduction in every percentage or part thereof from the Guaranteed Availability for the first 5%.
- b. 10% of the delivered landed price of the equipment including the Spares Cost Cap for the year in which the machine could not achieve guaranteed availability for reduction beyond 5% from the guaranteed availability.

Note: Whenever deductions for unsatisfactory performance of equipment are made within the tenure of the PBG/extended SDBG/amount held back as PBG, the amount deducted, from the PBG/extended SDBG/amount held back as PBG, should be replenished within a month in order to ensure that the original value, of the PBG/extended SDBG/amount held back as PBG, remains the same.

C.8 Deemed Breakdown

When the supplier is unable to supply the replacement of a failed part during the contract period, and if the machine is commissioned by using the spares from the stock of the project, the period after 21 days till the supplier replaces the part shall be treated as 'deemed breakdown' (the credit for keeping machine available shall not be given to the supplier.)

The supplier shall not in any way be allowed to take out spare parts from other equipment, which are under breakdown and covered within the scope of this contract. However, CIL, in the interest of work, reserves the right to advise the supplier to commission the breakdown equipment covered under this contract by taking out spare parts from other breakdown equipment. Nevertheless, during this period also, the equipment shall be treated as 'deemed breakdown' till the supplier replaces the spare parts.

C.9 Composite-warranty/guarantee

The supplier shall warrant that the equipment supplied under this contract is:

- a) In accordance with the contract specifications.
- b) The equipment shall have no defects arising out of design, material or workmanship & the complete equipment shall be warranted for 12 months from the date of commissioning. Any defect arising observed on this account will have to be attended immediately.
- c) The supplier must ensure that there is no major breakdown due to manufacturing / design defects during the warranty period. In case such breakdown occurs, the purchaser reserves the right to extend the warranty period suitably.

The warranty shall cover total equipment so that comprehensive responsibility lies only with the equipment supplier although components may be supplied by different suppliers to the bidder.

C.10 Quality Assurance

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- C.10.1 The Supplier furnished in detail its quality assurance plan for various stages of manufacture. The quality assurance plan shall be of the manufacturing plant where the bidder proposes to manufacture the equipment. The Quality Assurance plan shall comply with an internationally recognized quality assurance standard such as ISO 9000 or its equivalent.
- C.10.2 The Supplier will provide facilities to Purchaser or their authorized representatives for progress inspection during manufacture at his works and furnish all test data available in this regard for quality control, both for bought-out items and his own manufactured items.
- C.10.3 The Purchaser or its authorized representative, when so required by him, shall also be provided with samples of "bought-out" materials for the purposes of undertaking independent tests, which independent tests shall be at the expense of the Purchaser.

Details are given in Annexure- (d)

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PART D:- EQUIPMENT SPECIFICATIONS

Equipment Specification of 485 HP Wheel Dozer (ENGINE NET POWER 485 HP (362Kw) @ 1800 rpm) MAKE - BEML, MODEL – BD46W-1

D.1 Scope of specification:

This specification is intended to cover the technical requirements for the design, manufacture, testing, delivery, on-site erection and commissioning of a diesel powered, self-propelled, wheeled dozer of engine net power 485 HP (362Kw) @ 1800 rpm.

D.2. References:

The following Indian/International Standards as per latest amendment are referred to in, and form part of, the Specification. The superseded or equivalent standards, if any, to any of the following IS/ISO standards if offered are to be supported by documentary evidence in form of copies of the equivalent standards certifying that offered standards are identical to the corresponding IS/ISO standards of NIT.

IS/ISO Ref.	Description
IS/ISO 2867	Earth-moving machinery - Access System
IS/ISO 3449	Earth-moving machinery - Falling-object protective structures - Laboratory tests and performance requirements.
IS16479/ISO 3450	Earth-moving machinery –Braking systems of rubber-tyred machines – Systems and performance requirements and test procedures
IS/ISO 3457	Earth-moving machinery - Guards and shields - Definitions and Specifications
IS/ISO 3471	Earth-moving machinery - Roll-over protective structures - laboratory tests and performance requirements
IS/ISO 5010	Earth-moving machinery – Rubber – tyred machines – steering requirements
IS/ISO 6014	Earth-moving machinery - Determination of ground speed
IS/ISO 6405 : Part 1	Earth-moving machinery - Symbols for operator controls and other displays - Part I : Common symbols
IS/ISO 6405 : Part 2	Earth-moving machinery - Symbols for operator controls and other displays - Part II : Specific symbols for machines equipment and accessories
IS 11252 : 1993/ISO 6682	Earth-moving machinery- Zones of comfort and reach for controls
IS/ISO 6747	Earth-moving machinery - Tractors - Terminology and commercial specifications
IS/ISO 6750 : Part 1	Earth-moving machinery – Operation and maintenance –Contents & Formats
ISO/TR 6750-2	Earth-moving machinery – Operation and maintenance – Operator’s Manual-Part 2: List of references
ISO 7129	Earth-moving machinery - Tractors with dozer, grader, tractor scrapers - Cutting edges - Principal shapes and basic dimensions
IS/ISO 7457	Earth-moving machinery – Determination of turning dimensions of wheeled machines
ISO 7464	Earth-moving machinery - Method of test for the measurement of drawbar pull
IS 12645/ISO 9246	Earth-moving machinery - Crawler and wheel tractor dozer blades - Volumetric ratings



IS/ISO 9249	Earth-moving machinery - Engine test code - Net power
ISO-10968	Earth-moving machinery – Operator’s controls
Other IS/ISO standards mentioned in the specification of individual system of the equipment	

D.3 Design Criteria:

The dozer shall be capable of continuous operation for protracted periods on a system of 3 shifts each of 8 hours duration per day throughout the year in hard, highly abrasive, blasted sandstone/rock having a density after blasting of 1,800 kg/m³. The dozer shall have the following minimum range of rim pull, measured according to ISO 7464:

60 kN to 400 kN at zero speed

D.4. Technical Requirements:

D.4.1 Engine:

The dozer shall be powered by **EU STAGE IIIA Certified, Cummins X15(FR11864)** a direct injection 4-stroke turbo-charged diesel engine of net power **485 HP (362Kw) @ 1800 rpm** according to IS/ISO 9249.

The engine shall be provided with 24V electric starting, dry type 2-stage air cleaner with dust evacuator and dust level indicator and 2-stage fuel filter with water separator.

The engine shall have a water jacket cooling system, thermo-statically controlled, using an engine driven water pump, with the cooling water re-circulated through a heavy-duty radiator. The system shall be capable of providing sufficient cooling to allow the dozer to continuously operate at full rated output at the maximum ambient temperature. The radiator cap shall be fastened with body with the help of suitable chain/locking arrangement.

The moving parts of the engine shall be lubricated by an engine driven oil pump with full flow oil filtration and cooling.

The engine shall be provided with a heavy-duty pan guard / suitable protection as per manufacturer design.

The engine is to be fuel efficient having fully integrated electronically controlled monitoring system & real-time self-diagnostic features with built in protections. The Engine electronic control module should be fully integrated with all systems of power train for all operating conditions and be capable to monitor operator’s and sensors inputs for optimum engine performance & reduced emissions level. All engine vital parameter data shall be integrated with On Board Display (OBD) system of operator’s cabin

The engine shall be environment friendly with minimum BS IV / EPA Tier-II or equivalent standard certified. However, if any Engine emission norms higher than BS IV / EPA Tier-II are applicable as per regulations at the time of last date of bid submission, the same shall be considered. . Certificate for EPA Tier II emissions standards from engine manufacturer is enclosed as **Annexure – (e)**.

Certificate for Engine emission norm of the offered engine as stipulated above from engine manufacturer is to be enclosed.

A suitable electronic tool (laptop) loaded with compatible software and all related accessories shall be provided project wise (**1 Laptop for each equipment**) along with special tools for retrieval and analysis of the recorded critical parameters of self-diagnostic features, real time monitoring and equipment health-monitoring systems fitted with the equipment. The supplier shall also be required to provide readable reports downloaded from each Equipment.

Compatible Software loaded in electronic tool (Laptop) should be warranted for entire contract period or more.

Note:

- (i) *The laptop along with software is within the scope of supply. Hence, it will be the property of purchaser after acceptance of the equipment.*

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- (ii) *In case of any hardware problem of the laptop during the contract period, the supplier shall have to replace the same at free of cost along with the software.*

D.4.2 Transmission:

Equipment is fitted with Dana CL8000 torque converter-PTO with Lockup Clutch facility is mounted onto engine flywheel and connected to Dana 8000 heavy duty transmission using propeller shaft. Transmission with 4 forward/4 Reverse fully power shift is provided with single lever Electric shift direction and range selector to enable effortless and fast gear shifting.

Suitable protection of the transmission pan from external damage should be provided. The pan guard should be designed to minimize accumulation of dirt and debris.

D.4.3 Drive System:

Equipment is fitted with a dynamic balanced propel shaft with universal joints at both ends utilized for transmission of power. Adequate means are provided to prevent damage to other components in the event of failure of the universal joints.

The final drive shall comprise of a heavy-duty differential with high quality spiral bevel gear and pinions, and a heavy duty planetary / spur gear system and drive axle.

D.4.4 Steering:

Equipment is fitted with steering system consisting of Internal Gerotor type of Steering unit with orbitrol steering system and Priority valve offer excellent manoeuvrability with ease and better stability to handle tough onsite conditions, for advance operator comfort. The steering angle is designed for 38 degree on each side and the turning circle diameter of 15.4m.

D.4.5 Hose:

Equipment is fitted with Fire resistant / fire retarder / heat resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conduits in which cable/wire are laid shall be of fire resistant / fire retarder type.

4.6 Brakes:

Equipment is fitted with suitable reliable service, secondary and parking brakes, which comply with IS 16479/ISO 3450, shall be provided

D.4.6.1 Service brakes:

The front and rear service brakes are Posi-Stop type hydraulically actuated wet multiple disc service brakes on all four wheels, SAHR (Spring-Applied, Hydraulically Released) Parking brake commonly used as Emergency brake as per latest manufacturer design and should operate automatically in the event of low oil pressure.

They shall be fully enclosed to prevent entry of dust & water and designed for low maintenance service braking in front and rear shall be hydraulic actuated oil cooled disc type / dry disc type / calliper type.

D.4.7 Tyres:

Suitable tubeless tyres shall be provided.

Tyres including additional **2 nos. tyres** during warranty period (1st year of operation) per machine to be supplied by the supplier and shall be warranted in respect of substandard materials, poor workmanship and faulty design for minimum **4500 hours** of operation from date of fitment.

In case any tyre is found to be defective after joint inspection by representatives of Purchaser and Equipment Supplier, then Equipment Supplier shall replace the defective tyre with a new tyre of same type and size.

D.4.8 Dozer Attachment:

The dozer shall be fitted with hydraulically Straight tilt dozer attachment. The dozer blade shall be heavy-duty type with steel wear plate and heavy duty end bits. Heavy duty hardness steel wear resistant cutting edges which comply with ISO 7129 shall be provided.

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D.4.9 Fuel Tank:

The fuel tank should be of sufficient capacity for 16 hours operation without re-fuelling and be provided with a level indicator and a lockable hinged cap.

Construction of the tank should be such that it provides for easy accumulation and drainage of water with minimum loss of fuel.

D.4.10 Operator's Station:

A suitable Operator's Station shall be provided on the equipment as per Gazette notification issued by Chief Inspector of Mines vide F.No. Z-20045/01/2018/S&T (HQ) Dhanbad, the 1st October 2018.

D.4.10.1 Operator's Cabin:

A fully insulated, high-visibility, rigidly mounted, sound-suppressed, vibration-suppressed, air-conditioned, operator's cab with tinted safety glass should be so positioned to facilitate a clear and unrestricted view of the travel & work areas of the machine necessary for its intended use. The performance is in accordance with IS/ISO 5006. The sound level inside the cab is below 85 dBA while the equipment is operating, and with the door closed. All operating controls, all monitoring, working signals and emergency switch to stop the engine are conveniently located in consoles within easy reach of the operator and comply with IS/ISO 6405 Part-1, IS/ISO 6405 Part-2, IS 11252/ISO 6682 & IS/ISO 10968. The operator's cab is provided with an emergency exit in addition to primary access path to the cabin.

Alternative opening (Emergency Exit): An alternative opening is provided on a side other than that of the primary opening. A window panel or another door is acceptable if they are easy to open or remove without the use of keys or tools. Latches may be used if they can be opened from the inside without the use of keys or tools. The breaking of a suitable size of glass pane is considered to represent a suitable alternative opening, provided that the necessary pane hammer, immediately accessible to the operator, is provided and stored in the cab. When the window panel is used as an emergency exit, it shall bear an appropriate marking.

Doors, Windows and flaps are securely held in their intended operating positions. Doors are retained at their intended operating positions by a positive engagement device. The front window is fitted with motorized wind screen wipers and washers. The tank of the window washers are easily accessible.

Pipes and hoses that contain fluids at pressures exceeding 5MPa or temperatures above 60°C located inside the cab shall be suitably guarded.

D.4.10.2 Operator's Protective Structures:

Dozer is equipped with a roll-over protective structure (ROPS). The ROPS complies with IS/ISO 3471. Further, it is fitted with FOPS, when they are intended for applications where there is a risk of falling objects. The fitted FOPS shall be in accordance with IS/ISO 3449.

D.4.10.3 Operator's Seats:

The Operator's Station is fitted with an ergonomically designed adjustable seat that supports the operator in a position that allows the operator to control the machine under the intended operating conditions. The seat and its suspension is designed to reduce vibration transmitted to the operator to the lowest level that can be reasonably achieved.

An additional seat for a trainer installed in the Operator's Station, is padded and provides adequate space for the trainer. The trainer shall also have available a conveniently placed handhold.

Seat Belt for operator with reminder is provided as per DGMS circular no. DGMS (Tech) Circular No. 06 of 2020 Dhanbad dated 27.02.2020.

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D.4.10.4 Operator's Controls and Indicators:

The controls are suitably designed and constructed and arranged so that they are able to be operated with ease from the operator's seat and within the operator's force limits. Controls are laid out and designed to allow easy and safe operation based on the principle that a given direction of movement of any control produces a consistent and expected effect. The surfaces of frequently used pedals are fitted with skid resistant type materials.

Controls that can cause a hazard due to inadvertent activation are so arranged, deactivated or guarded as to minimize the risk — particularly while the operator is getting into or out of the operator's station. The deactivation device shall either be self-acting or shall act by compulsory actuation of the relevant device.

A device/system is provided to release the residual pressure in each hydraulic and pneumatic circuits which can cause a risk.

D.4.10.5 Starting and Stopping System:

Dozer shall be equipped with a starting and stopping device (e.g. key). The starting system shall have a provision for protection against unauthorized use.

The starting and Stopping system shall be designed such that movement of the machine, shall not be possible, while starting or stopping the engine, without activating the controls. (E.g. Transmission Neutral-Engine Start safety arrangement.)

D.4.11 Gauges and Indicators/ Electronic Display:

The following shall be provided as a minimum:

- a. Water temperature gauge
- b. Engine oil pressure gauge/ indicator
- c. Fuel capacity gauge
- d. Engine tachometer
- e. Engine hour-meter

D.4.12 Warning Alarms/Lights:

The following warning alarms shall be provided.

- a. Coolant level and temperature
- b. Engine oil pressure
- c. Converter oil temperature (where applicable)
- d. Front warning horn
- e. Reversing – DGMS complied Audio Visual Alarm

D.4.13 Engine Electrical System:

The dozer shall be provided with the following:

- a. 24 DC electrical system with suitably rated alternator of Make: M/s Delco Remy, Model 28SI.
- b. 24V Electric starter motor of Make: M/s Delco Remy, Model: 39MT-HD
- c. High capacity maintenance free batteries of reputed make
- d. Battery isolation switch / Relay.

All electrical circuits shall be protected by adequately rated fuses which shall be easily accessible for maintenance. At least two spare fuses of each size shall be provided in each fuse box.

D.4.14 Lighting:

Adequate lighting shall be provided for safe nightshift operation. The lighting system should include the following:

- a) 4 nos. LED Headlights
- b) 2 nos. Rear working LED lights

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- c) 4 nos. ROPS mounted working lights (2-front and 2-rear)
- d) Cabin dome light

Headlight and rear working lights shall be identical in type and size and fitted in steel protective enclosures.

D.4.15 Guards and Shields:

Adequate guard and shields which comply with IS/ISO 3457 shall be provided throughout the dozer.

D.4.16 Automatic Fire Detection and Suppression System (AFDSS):

An automatic fire detection and suppression system manufactured in India by M/s Southern Electronics will be provided on the equipment complying DGMS (Tech) Circular No. 06 of 2020 dated 27.02.2020 with subsequent amendments.

- Automatic fire detection and suppression system suitable for fire class A, B & C shall be provided in the fire prone zone of the dozer.
- Supplier have submitted a schematic drawing indicating Plan of the system with relative position of items to be protected from fire.
- Fire detection and suppression of fire may be either total liquid flooding or dry chemical powder base spray through nozzle strategically through an actuation cartridge, located to the targets, or combination of the two.
- Fire suppression agent used in neighborhood of electrical appliances shall be clean and shall not damage electrical / electronic component.
- Fire suppression system shall be non-hazardous & safe for human and environment friendly. It should have quick cleanup and environmental sustainability.
- The sensor will send the signal to the control unit integrated with a LED and/or alarm indicator to show the status of the detector.
- The system will operate only in active fire area to supply adequate quantity of fire suppressing agent for effective firefighting and to avoid re-ignition and suitably designed to extinguish the fire as per class of fire (A, B & C) of that location.
- The system shall be actuated automatically by detection of fire and control unit to be installed within the Operator's cabin for automatic system operation.
- The system will also have provision of actuating manually.
- The system will provide facility for self-checking /testing/inspection without operating.
- The data regarding health & event shall be logged in the system with date & time in memory having capacity to store data of at least 15days, which can be downloaded to PC/ Laptop in latter stage.
- The system will be capable for efficient operation in extreme mining conditions with dust, dirt, water & vibrations.

The high-pressure storage vessels and hoses, if used with fire- fighting and fire suppression systems, shall conform to the requirements stipulated in the relevant Indian standards.

The Supplier submitted a Certificate as an undertaking that, a valid Test Certificate (valid as on the date of commissioning of the equipment at site) shall be submitted at the time of supply of equipment along with other documents, for AFDSS including materials and chemicals used in fire suppression system from any Government or Government approved Laboratory in compliance with relevant Indian Standards as per DGMS (Approval) Circular No. 02 dated 08th July 2013 with subsequent amendments..

Note: Periodical refilling shall be done by the supplier.

Detail given in Annexure (f)

D.4.17 Fire Extinguisher:

A fire extinguisher manufactured in India by M/s Southern Electronics will be provided on the dozer, suitably mounted in heavy-duty bracket for ease of removal. The extinguisher shall be dry powder (cartridge type) with a minimum capacity of 5 kg and shall comply with Indian Standard IS: 15683 with latest amendment.

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The Supplier submitted a Certificate as an undertaking that, a valid Test Certificate (valid as on the date of commissioning of the equipment at site) shall be submitted at the time of supply of equipment along with other documents, for Fire Extinguisher including Materials and Chemicals to be used in fire extinguisher from any Government or Government approved Laboratory in compliance with relevant Indian Standards as per DGMS Circular No. DGMS (Approval) Circular No.02 dtd. 08thJuly2013 with subsequent amendments.

Periodical refilling of fire extinguisher to be done by the supplier.

Detail given in Annexure (g)

D.4.18 Safety Features:

All safety features & devices as per Govt. Of India Gazette notification no. Z 20045/01/2018/S&T (HQ) dated 01.10.2018, DGMS Circular No. DGMS (Tech) Circular No. 06 of 2020 Dhanbad dated 27.02.2020 and subsequent amendments, if any, including following shall be provided in the equipment. The Supplier submitted a Certificate as an undertaking in this regard that all safety features and devices are incorporated in the equipment (**Annexure (h)**).

- a) Roll over protection.
- b) Turbocharger guard.
- c) Fire resistant /fire retarder hydraulic hoses and wiring near hot zone.
- d) Seat belt for operator – Seat belt reminder should also be provided to alert operator for using the seat belt.

D.4.19 Lubrication system

A centralized microprocessor/micro control /PLC based electrically operated, automatic lubrication system manufactured in India by Graco/SKF Engineering & Lubrication as per design of the manufacturer is provided to service all lubrication points on the machine, including those points where use of high viscosity lubricants is required

The lubrication system is fully monitored to ensure adequate lubricant flow is maintained to all points of major parts. The monitoring system, wherever necessary, be interlocked with the relevant control circuits to prevent damage due to lack of lubrication at any point. Alarms and indications for failure of lubrication system is provided and shall be repeated in the OBD of operator's cab.

All lubrication lines and injectors/feed points are protected from damage. Location of all injectors/feed points are such that these can be conveniently inspected and repaired. The lubrication lines to the remote points should be properly guided. Flexible lines are only used where there is relative movement between parts and for final connection to movable components. Preferably steel piping is used for long runs and terminate in steel junction blocks or rigidly mounted bulk head connectors to prevent disturbance to steel piping when flexible hoses are replaced.

Fire/heat resistant/ retardant hydraulic hoses are provided in lubrication system. The vent valve on the top of hydraulic tank, can be removed without any tool. Lubricants recommended are of reputed make with Indian equivalent, if available.

Suitable motorized and manual Transfer Pumps as per design of the manufacturer to prevent contamination and mixing of different grade of lubricants will be provided.

Detail given in Annexure (i)

D.5 Ancillary Equipment and Other Requirements:

The following are supplied with the dozer:

- a. Front pull hook
- b. Rear mounted rigid drawbar

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D.6. Health Monitoring System (HMS):

The equipment is provided with suitable licensed, on-line, real time, monitoring interface facility, compatible for GPS/ GPRS -based transfer of equipment performance data (commonly known as HMS) to third party equipment management system.

The system is having OBD Self-diagnostic & error alarm features that captures the parameters of HMS module and other parameters not covered by HMS of the equipment to monitor the following items:

- i. Working hour, idle hour, based on the duration of a shift for which the equipment is switched on for operation
- ii. Engine oil pressure & temperature
- iii. Engine RPM
- iv. Coolant level and temperature
- v. Fuel level and fuel consumption rate
- vi. Hyd. oil temperature & pressure
- vii. Engine electrical system - Battery voltage
- viii. Tyre pressure (tyre mounted machines)
- ix. Fault codes along with details
- x. Transmission/Gear Box vital parameters
- xi. Air/Hydraulic system vital parameters
- xii. All drive motors/ Transformer vital parameters (If applicable)
- xiii. Other Health monitoring parameters as applicable.

This system is having suitable memory capacity to store above measured data in batch form for at least one month period and shall have suitable port to download these data to a laptop / data storage system.

Alert audio messages to be given to Dozer Operators for the following events:

- a. In the case of operator exceeds pre-defined maximum speed.
- b. In the event of any equipment travelling in opposite direction falls in line.
- c. Fire warning to operator and to control room in case of catching fire.

The supplier shall provide the following:

- A. There has to be one integrated single online port for capturing all the vital data.
- B. The equipment should have a suitable licensed, on line, real time, monitoring interface facility compatible for GPS based transfer of equipment data to third party equipment management system.
- C. The real time interface telemetry port will be provided in the equipment
- D. All the data shall be available in the individual form through single port and its communication protocol must be as per global standards.
- E. There shall be no additional requirement of any data converter for data capturing like Analog to Digital and vice-versa etc.
- F. There shall be integrated on board data management system as explained at point no.3 as above.
- G. The system should have an On Board Display Self-diagnostic & error alarm features.
- H. Permission to third party for interfacing, data collection through online port.
- I. Signing of Non-disclosure agreement to protect intellectual property right on either side.
- J. To provide full technical support to third party vendor for interpretation and defining parameters for individual alarm to monitor equipment vital data.
- K. The HEMM equipment supplier should provide access to data as required by end user without any financial implication to third party.

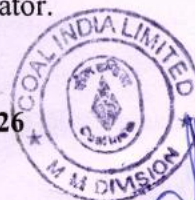
This interface facility shall be made available till the working life of equipment.

However, the supplier shall provide this interface facility during the contract period as a part of contract cost.

To ensure the satisfactory operation of above system, a tripartite agreement shall be signed by the user, supplier and the service provider / System Integrator.

Details given in Annexure - (j)

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Indeep

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Date

D.7 Performance Guarantee:

In accordance with the provisions of clause C 6.2.6 of the technical specifications the expected working hours per annum are 5000 (five thousand) hours. The expected working hours per annum as indicated are only approximate hours and may vary +/- 500 hours.

In case, actual working hours of the equipment exceeds 33,000 $[(5500 \times 6) = 33,000]$ hours during the tenure of 6 years (72 months) of contract period, then spares & consumables items (as declared by the bidder in the offer/Spares Cost Cap) if additionally required and agreed by the Purchaser, will be procured by the Purchaser from the Supplier.

In accordance with the provisions of clauses C 7.2.2 and C 7.3.2 of the technical specifications the supplier shall guarantee that the availability of each equipment shall not be less than 75% (Seventy Five percent) annually for a period of 1st to 2nd year of operation, 85% (eighty five percent) annually for a period of 2nd year to 4th year of operation and 84% (eighty four percent) annually for a period of 5th year to 6th year of operation from date of commissioning.

During contract period of 6 Years (72 Months), a period of 07 (Seven) days per year shall be allowed to equipment supplier in consultation with project Excavation head, from 5th year to 6th year for each machine for planned maintenance of equipment. This down time [maximum period of 07 (Seven) days] arising due to such maintenance of the equipment shall be treated as out of schedule for annual availability calculation in the relevant year. This period of 07 (Seven) days shall be provided once only in each applicable year and not in a staggered or partial manner. In case of any spillover of maintenance job(s) beyond such 07 (Seven) days period shall be treated as breakdown hours.

D.8 Expected life of major assemblies:

Detail given in Annexure (k)

D.9 Information to be provided by the Supplier:

D.9.1 General:

- a) Details of special tools given in Annexure (a)
- b) Details of erection programmes given in Annexure (l)

D.9.2 Technical Details:

- a) Latest engine performance curves showing net power, net torque and specific fuel consumption of the installed engine, measured according to IS/ISO 9249. **Detail Given in Annexure (m)**
- b) Maximum travel speed determined according to IS/ISO 6014. **Detail given in Annexure (n)**
- c) Turning diameter as defined in clause 3.2 of IS/ISO 7457. **Detail given in Annexure (o)**
- d) Results of service and secondary brake stopping tests carried out according to IS 16479/ISO 3450 supported by a previous test certificate. **Product is under Design stage, test in line with ISO 7464 shall be carried out upon Proto development and data shall be provided before despatching the material – Annexure (p)**
- e) Rim pull at 1 km/hr and zero speed measured according to ISO 7464. **Product is under Design stage, test in line with ISO 7464 shall be carried out upon Proto development and data shall be provided before despatching the material – Annexure (q)**
- f) Calculations of volumetric rating of dozer blade in accordance with ISO 9246. **Detail given in Annexure (r)**
- g) Dozing production curves, showing the following:
 - i) Production with offered blade at 30 m distance
 - ii) Production with offered blade at 60 m distance**Detail given in Annexure (s)**
- h) Detailed technical description of the dozer. **Detail given in Annexure (t)**
- i) Comprehensive commercial literature specifications, the content of which must comply with IS/ISO 6747. **Detail given in Annexure (u)**



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- j) Details of major bought-out assemblies and sub-assemblies including manufacturer's name, type etc.
 – **Detail given in Annexure (b)**
 k) Detailed list of instrumentation, monitoring and alarm systems. **Detail given in Annexure (v)**

D.9.3 Dimensions, Weights and Performance Details:

D.9.3.1 Dimensions:

- | | |
|---|--|
| a. Maximum overall length, with and without blade (m) | With Blade - 9.1 m
Without Blade -7.4 m |
| b. Maximum overall width, with and without blade (m) | With Blade - 4.85 m
Without Blade -4.26 m |
| c. Maximum overall height (m) | 4.13 m |
| d. Drawbar height (m) | 1.575 m |

D.9.3.2 Weights:

- | | |
|---|---|
| a. Shipping weights of individual components (kg): | |
| | Shipping Mass without work equipment- 28700 kg |
| | Blade Assy with GET & LH, RH frame - (2820 + 450 + 450) 3720 kg |
| | Tyre Assy (4 nos) - 2270x4 = 9080 kg |
| b. Total operating weight (kg) | 41500 kg |
| c. Operating weight excluding dozer attachment (kg) | 37780 kg |

D.9.3.3 Engine:

- | | |
|--------------------------------|---------------------------|
| a. Manufacturer and model | Make: Cummins, Model: X15 |
| b. Number of cylinders | 6 Nos. |
| c. Bore | 159 mm |
| d. Stroke (mm) | 169 mm |
| e. Displacement (litre) | 14.9 ltr |
| f. Net power at.....r/min (kW) | 362 KW @ 1800 rpm |
| g. Maximum torque | 2169 N.m @ 1400 rpm |

D.9.3.4 Transmission:

- | | |
|---|--|
| a. Make and Model | Make: Dana
Model: 8000 |
| b. Type | Electronic Power Shift Transmission |
| c. Number of gear speeds, forward and reverse | Forward 4 gears, Reverse 4 gears |
| d. Travel speeds forward and reverse (km/h) | F1 - 3.8 kmph
F2 - 7.4 kmph
F3 - 14.3 kmph
F4 - 28 kmph
R1 - 3.8 kmph
R2 - 7.4 kmph
R3 - 14.3 kmph
R4-28 kmph |

D.9.3.5 Differential:

- | | |
|------------------|--|
| a. Type and make | Front Axle: Type- no Spin, Make- Dana
Rear Axle: Type-Standard, Make - Dana |
| b. Ratio | 4.857 |

D.9.3.6 Final Drive:

- | | |
|------------------|-----------------------------|
| a. Type and make | Type- Planetary, Make- Dana |
| b. Ratio | 6.25 |

D.9.3.7 Hydraulic System:

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a. Make, model, number flow rates and operating pressure of pumps

Description	Qty.	Max. Flow Rate (LPM)	Operating Pressure	Make & Model
Pump Assy. (Stg + Brake)	01	250 + 47	175 kg/cm ²	BEML/M/s Rexroth, GXP-COC-125-OLPL25 /M/s PERMCO - 1248862104 AND 1248862204
Pump Assy. (Main + Pilot)	01	200 + 28	210 kg/cm ²	BEML/M/s Rexroth, GXP-COC-125-OLPL25 /M/s PERMCO - 1248862104 AND 1248862204

b. Make, model, number, piston diameters and stroke lengths of cylinders

Description	Qty.	Diameter(mm) x Stroke(mm)	Make & Model
Lift Cylinder	01	160 x 870	BEML
Tilt & Tip Cylinder	01 each	180 x 272	BEML

c. Relief valve operating pressure

Implement Circuit Operating Pressure – 210 kg/cm²
Steering circuit operating Pressure – 175 kg/cm²

D.9.3.8 Steering:

- Type
- Emergency steer method

Centre Pivot Frame Articulation
Electrically operated DC motor to drive hydraulic pump for controlling emergency steering circuit in the event of failure/ malfunctioning of normal steering shall be provided.

D.9.3.9 Brakes:

D.9.3.9.1 Service brakes:

D.9.3.9.1.1 Front:

- Type
- Actuating system

Wet Multiple Disc Type SAHR brake system (Posi Stop 26150)
Fully Hydraulic Actuation

D.9.3.9.1.2 Rear:

- Type
- Actuating system

Wet Multiple Disc Type SAHR brake system (Posi Stop 26150)
Fully Hydraulic Actuation

D.9.3.10 Parking brake:

- Type
- Actuating system

Wet Multiple Disc Type SAHR brake system (Posi Stop 26150)
Spring Applied Hydraulic release (SAHR)

D.9.3.11 Tyres:

- Make, size and type
- Tread
- Ply rating
- Rim size

JK Tyre of Size 35/65-33, 24PR, L5, Tubeless Type
Lug tread type
24PR
28.0/3.5

D.9.3.12 Dozer Attachment:

- Maximum digging depth (m)

0.465



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- b. Ground clearance at full lift (m) 1.24
- c. Maximum pitch adjustment (m) 23 degree

D.9.3.13 Electrical Systems:

- a. Starter make and model Make: Delco Remy, Model: 39MT-HD
- b. Starter control make and model Make: TVS, Model: 4st Relay
- c. Alternator make and model Make: Delco Remy, Model 28SI
- d. Batteries, numbers and rating 12V,160Ah -2 nos.
- e. Lighting details

Adequate lighting shall be provided for safe nightshift The lighting system should include the following.

4 nos. LED Head Lights, 2 nos. Rear working LED Lights, 4 nos. ROPS mounted working Lights (2 Front, 2 Rear), Cabin Dome Light.

Headlight and rear working lights shall be identical in type and size and fitted in steel protective enclosures. Identical lights can be provided & steel protective enclosures can be provided.

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Equipment Acceptance

The Equipment ordered will be finally accepted subject to the Supplier demonstrating to the Purchaser or its authorised representative (may be third party) that the equipment, or assembly or sub-assembly (selected at random by the Purchaser) when tested, meets the Performance Data provided by the Supplier in accordance with the requirements of clause D.9.

In case if testing facility for a particular parameter is not available at site, the Equipment ordered will finally be accepted subject to submission of Manufacturer's certified test copy for that parameter of performance data provided by the supplier in accordance with the requirements of clause D. 9.

A detrimental deviation of up to 2½% will be accepted

1.	Specified Fuel Consumption as per IS/ISO 9249	To be tested at Manufacturer's works, Minimum of 3 (three) readings at full load to be averaged. Details of test and relevant photographs of testing procedure to be provided.
2.	Engine Net Power & RPM	To be tested at manufacturer's Works. Details of test and relevant photographs of testing procedure to be provided.
3.	Rim Pull at 1 km/h	To be tested at manufacturer's Works. Details of test and relevant photographs of testing procedure to be provided.
4.	Production with offered blade at 30 m distance	To be tested at manufacturer's Works. Details of test and relevant photographs of testing procedure to be provided. To be tested at manufacturer's works / site.
5.	Production with offered blade at 60 m distance	To be tested at manufacturer's Works. Details of test and relevant photographs of testing procedure to be provided. To be tested at manufacturer's works / site.



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Additional Terms and Conditions

1. Definitions

In the interpretation of the contract and the general and special conditions governing it, unless the context otherwise requires, the following terms shall be interpreted as indicated below:

- a) "The Contract" means the agreement entered into between the Purchaser and the Supplier including all attachments and appendices thereto and all documents incorporated by reference therein including Invitation to tender, Instructions to tenderers, Acceptance of tender, Particulars and the General terms and conditions Conditions specified in the acceptance of tender;
- b) "Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- c) "Goods" means all of the equipment, plant, machinery, and/or other materials which the Supplier is required to supply to the Purchaser under the Contract;
- d) "Services" means those Services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental Services, such as installation, commissioning, provision of technical assistance, training and other such obligations of the Supplier covered under the Contract;
- e) "Purchaser" means the organization purchasing goods and services, i.e., Coal India Limited or its subsidiaries or areas falling under various subsidiaries of Coal India Limited;
- f) "Purchaser's country" is India;
- g) "Supplier/Contractor" means the individual, firm or company with whom the contract has been concluded for supplying the Goods and Services under the Contract. The Supplier/Contractor shall be deemed to include its successors (approved by the purchaser), representatives, heirs, executors, administrators and permitted;
- h) "CIL" means Coal India Limited or the Subsidiary Company of CIL or areas falling under various subsidiaries of CIL where Goods are deployed/ used;
- i) "Year" means the Calendar Year.
- j) "Chairman" means the Chairman of Coal India Limited.
- k) "Chairman-cum-Managing Director" means Chairman-cum-Managing Director of any of the Subsidiary Companies of Coal India Limited, presently Central Coalfields Limited, Eastern Coalfields Limited, Western Coalfields Limited, Bharat Coking Coal Limited, Central Mine Planning & Design Institute Limited, South Eastern Coalfields Limited, Northern Coalfields Limited and Mahanadi Coalfields Limited.
- l) "Drawing" means the drawing and plans specified in or annexed to the schedule or specifications.
- m) "Inspector" means any person nominated by or on behalf of the purchaser to inspect supplies, stores or work under the contract or his duly authorized agent.
- n) "Progress Officer" means any person nominated by or on behalf of the Purchaser to visit supplier's works to ascertain position of deliveries of Goods ordered.
- o) "Materials" shall mean anything used in the manufacture or fabrication of the stores.
- p) "Stores" means the goods specified in the Supply Order or schedule which the supplier/contractor has agreed to supply under contract.
- q) "Test" means such test or tests as are prescribed by the specifications or considered necessary by the Inspector or any agency acting under direction of the Inspector.
- r) "Site" mean the place or places named in the "Supply Order" or such other place or places at which any work has to be carried out as may be approved by the purchaser.
- s) Words denoting the persons shall include any company or association or body of individuals whether incorporated or not.



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- t) Words in singular include the plural and vice-versa.
- u) Words denoting the masculine gender shall be taken to include the feminine gender.
- v) "Writing" shall include any manuscript, typewritten or printed statement under or over signature or seal as the case may be.
- w) "Unit" and "Quantity" means the unit and quantity specified in the schedule.
- x) "Purchase Order" or "Supply Order" or "Order" or "Contract" means an order for supply of stores and includes an order for performance. The terms "Supply Order", "Purchase Order", "Order" and "Contract" are interchangeable.
- aa) "Particulars" shall mean the following:
- i) Specifications;
 - ii) Drawing;
 - iii) Sealed pattern denoting a pattern sealed and signed by the Inspector;
 - iv) Certified or sealed sample denoting a copy of the sealed pattern or sample sealed by the purchaser for guidance of the Inspector;
 - v) Trade pattern denoting a standard of the ISI or other standardizing authority or Coal India Ltd. and/ or any of its subsidiary companies or a general standard of the industry and obtainable in the open market;
 - vi) Proprietary make denoting the product of an individual manufacturer;
 - vii) Any other details governing the construction, manufacture and/or supply as existing in the contract.
- bb) Terms and expressions not defined herein shall have the meanings assigned to them in the Indian Sale of Goods Act, 1930 or the Indian Contract, 1872 or the General Clauses Act, 1897, as amended, as the case may be.

2. Contract Amendments

Subject to relevant clause of GeM Bid, no variation in or modification of the terms of the Contract/ Purchase Order shall be made except by written amendment issued against the Contract/ Purchase Order.

3. Notices

3.1 Any notice given by one Party to the other pursuant to this Contract shall be sent to the other Party in writing or facsimile to be confirmed in writing, to the other Party's address. For the purpose of all notices, the following shall be the addresses of the Purchaser and the Supplier:

Purchaser:

Executive Director (MM)/ HOD of MM Division,
Coal India Limited,
Coal Bhawan, Premises No. 04,
Plot No. AF-II, Action Area 1A,
New Town, Rajarhat,
Kolkata – 700 156, West Bengal, India
Fax No.:+9133 – 2324 4115 / Phone: +9133 – 2324 4127]
Email : cdmm.cil@coalindia.in / gmmm.cil@coalindia.in

Supplier:

M/s BEML Ltd
Soudha, 23/1
4th main, S.R.Nagar,
Bengaluru – 560027
Ph: 080-22963532
email – naresh.kumar@bemltd.in



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- 3.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.
- 3.3 In case of change in address, the Supplier shall immediately notify the same to the Purchaser in writing. The supplier shall be solely responsible for the consequences of omission to notify the change of address to the Purchaser.

4. Security Deposit - Not applicable

5. Performance Bank Guarantee

- 5.1 The successful tenderer shall be required to furnish a Performance Guarantee equivalent to shall be for 100 % of equipment landed value along with maximum annual landed value of Spares & Consumables of the contract including all taxes, duties and other costs and charges without considering Input Tax Credit subsidiary-wise

The PBG will be required to be submitted subsidiary wise to Paying Authority of concerned subsidiaries

- 5.2 The Performance Guarantee shall be deposited through RTGS/NEFT/IMPS/e-BG/other digital modes or in the form of a Bank Guarantee issued by a RBI scheduled bank in India in the format in **Annexure-I** on a non-judicial stamp paper.
- 5.3 The Performance Bank Guarantee (s) may be submitted equipment-wise to the concerned subsidiary where the equipment will be supplied.

NIT item no.	Project / subsidiary	Qty. (nos.)	PBG in Rs per equipment
1	Gondegaon Ghatrohana Amlg OCP, Western Coalfields Ltd, Nagpur, Maharashtra	1	7,78,45,002.38
2	Nigahi OCP, Northern Coalfields Ltd, MP	1	7,78,45,002.38
	Total	2	15,56,90,004.76

- 5.4 The PBG (s) shall remain valid till 21 months from the date of commissioning of all the equipment (beyond initial six (6) months) covered in the contract.
- 5.5 The release of the PBG (s) for 100% value shall be subject to satisfactory performance of the equipment during 24 months trial period from the date of commissioning of the equipment and fulfillment of all contractual obligations failing which, action for further extension or encashment of PBG, as deemed suitable shall be taken.

*Performance report(s) for the 24 months trial period (after re-commissioning date, if applicable) shall be issued by the Head of concerned Technical Department of CIL after obtaining approval of competent authority at CIL, on receipt of the performance report(s) as per the format given in **Annexure-5** issued by the Head of concerned Technical Department of the subsidiary Company, duly approved by their competent authority.*



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Release of 100% PBG is also subject to submission of 10% PBG as detailed below.

NIT item no.	Project / subsidiary	Qty. (nos.)	10% PBG in Rs per equipment
1	Gondegaon Ghatrohana Amlg OCP, Western Coalfields Ltd, Nagpur, Maharashtra	1	77,84,500.00
2	Nigahi OCP, Northern Coalfields Ltd, MP	1	77,84,500.00
	Total	2	1,55,69,000.00

5.6 If the equipment is found to perform satisfactorily during 24 months trial period and fulfilling the contractual obligations as per the contract, 100% Bank Guarantee shall be released on receipt of Bank Guarantee(s) of 10% amount which shall be kept valid till 3 months after completion of 4 years beyond initial 24 months trial period after the date of commissioning and will be released after satisfactory performance of the equipment and fulfillment of all contractual obligations failing which, action for further extension or encashment of PBG, as deemed suitable shall be taken. Release of PBG for 10% value for each equipment may be done separately on satisfactory performance of the respective equipment as above.

Performance report(s) for this 48 months remaining period shall be issued by the Head of concerned Technical Department of the subsidiary Company, duly approved by their competent authority.

5.7 The PBG for 100% / 10% shall be submitted, sufficiently in advance (say 3-4 weeks) to enable its verification before any payment is released for the equipment.

5.8 The PBG issued by Issuing bank on behalf of the bidder in favour of "concerned subsidiary where the equipment will be supplied" shall be in paper form (Stamp Paper) as well as issued under "Structured Financial Messaging System". The details of beneficiary Bank for issue of BG through SFMS Platform will be provided by the concerned subsidiary. The date of SFMS confirmation to the concerned subsidiary shall be deemed to be the date of receipt of the BG. Original copy of the PBG issued by the Issuing Bank shall be sent by the issuing bank to concerned subsidiary.

However, if the original copy of the BG is handed over to the supplier by the Issuing bank, the issuing bank shall send an e-mail from their corporate e-mail id (on the date of handing over) directly to corporate e-mail id of the order placing authority that they have handed over the original copy of the BG to the supplier for handing over to the beneficiary, attaching a scanned copy of the SDBG. In such case, the supplier shall also submit a copy of the SFMS message as sent by the issuing bank branch along with the original Bank Guarantee.

5.9 The release of the 10% Performance Bank Guarantee(s) after above indicated period, shall be subject to satisfactory performance of the equipment during 06 years period from the date of commissioning of the equipment and fulfillment of contractual obligations

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failing which, action for further extension or encashment of PBG, as deemed suitable shall be taken. Release of PBG for each equipment may be done separately on satisfactory performance of the respective equipment as above. Whenever deductions towards unsatisfactory performance of equipment or non-achievement of guaranteed availability in a particular year(s) are made within the tenure of the PBG during the contract period, the amount deducted from the PBG should be replenished within a month in order to ensure that the original value of the PBG remains the same throughout the contract period.

The Performance Bank Guarantee shall be released with the approval of concerned subsidiary's HOD(MM) after expiry of validity period and

1. On receipt of No Claim Certificate from the HOD of User Dept.
2. On receipt of "No Claim / No Dispute Certificate" as per format in Annexure-3

6. Inspections and Tests

- 6.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract Specifications at no extra cost to the Purchaser. Generally, the Goods shall be of the best quality and workmanship and comply with the contract or supply order in all respect. The Technical Specifications shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing, of the identity of the inspector(s). The Purchaser reserves the right, at the Purchaser's cost, to depute its own inspector(s) and/or to engage any other third party inspecting agency, to conduct inspections and tests pursuant to the Contract. Sufficient time, atleast 30 days in advance will be given for inspection. The details of specific inspections and/or tests to be carried out at the Supplier's works and/or at the Site(s) are given in Technical Specifications.
- 6.2 The inspections and tests may be conducted on the premises of the Supplier, at point of delivery and/or at the Goods' final destination. If conducted on the premises of the Supplier, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser. However, any drawing and proprietary information provided for this purpose shall remain in control of the supplier. The inspector shall have full and free access at the supplier's works for the purpose of carrying out inspection. The Inspector shall have the right to put all the stores or materials forming part of the same or any part thereof to such tests as he may think fit and proper. The supplier shall not be entitled to object, on any ground whatsoever, to the method of testing adopted by the Inspector. Unless otherwise provided for in the contract, all stores/materials expended in test will be to supplier's account. In the event of Goods found acceptable by the Inspector during inspection, he shall furnish the supplier with necessary copies of Inspection notes for attaching to the supplier's bill.
- 6.3 Should any inspected or tested Goods fail to conform to the Specifications, including acceptance tests and periodic tests to verify guaranteed performance, the Purchaser may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet Specification requirements free of cost to the Purchaser within sixty (60) days of such rejection. Replaced or altered goods shall be subjected to



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repeated inspection or tests to demonstrate conformity with the Specifications. In the event that replacement or alteration is not done within sixty day period as aforesaid, or,

replaced or altered goods fail to demonstrate conformity with the Specifications in repeated inspections or tests as aforesaid, the Purchaser reserves the right to terminate the Contract in part or in whole and the Supplier shall repay forthwith to the Purchaser all monies paid in respect of Goods, and Services associated therewith, for which the termination is applicable and, subsequently remove the same from the Purchaser's Site at the Supplier's cost

6.4 Any Goods rejected at a place other than the premises of the supplier, shall be removed by the supplier within 14 days of the date of receipt of intimation of such rejection. The Inspector may call upon the supplier to remove what he considers to be dangerous, infected or perishable Goods, within 48 hours of the receipt of such intimation. The rejected stores shall under all circumstances lie at the risk of the supplier from the moment of rejection and if such stores are not removed by the supplier within the above mentioned period, the Inspector/Purchaser may either return the same to the supplier at the supplier's risk and cost (a public tariff rate) by such mode of transport as the Purchaser or Inspector may select or dispose of such stores at the supplier's risk on his account and retain in such portion of the proceeds as may be necessary to cover any expense incurred in connection with such disposal. The purchaser shall also be entitled to recover handling and storage charges for the period during which the rejected stores are not removed.

6.5 The Purchaser's right to inspect, test and where necessary, reject the Goods after the Goods' arrival in the Purchaser's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods' shipment from the Supplier's premises.

6.6 Nothing in this clause shall in any way relieve the Supplier of any warranty or other obligations under this Contract.

6.7 The Purchaser or its nominated representative shall have the right to conduct inspections or tests as set out in this Clause at any reasonable time. The Purchaser reserves the right, at the Purchaser's cost, to depute its own inspector(s) and/or to engage any other third party inspecting agency, other than the one recommended by the Supplier, to conduct inspections and tests pursuant to the Contract.

7. Warranty

7.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the purchaser's country.



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- 7.2 This warranty shall remain valid for twelve (12) months from the date of Commissioning of the equipment. However, in case of other Goods, warranty shall remain valid for eighteen (18) months from the date of receipt and acceptance of materials at consignee's end or twelve (12) months from the date of its use / fitment / commissioning, whichever is earlier.
- 7.3 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. The Supplier shall, within sixty days, repair or replace the defective Goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts/Goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/Goods thereafter.
- 7.4 If the Supplier, having been notified, fails to remedy the defect(s) within sixty days, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
- 7.5 For the goods whose life is less than twelve (12) months, the warranty period will depend on the nature of the item under procurement" and the parts manufacturer's or supplier's guarantee /warranty certificate shall suffice.

8. Performance Period for Trial & Minimum Annual availability

The performance period for trial will be two years from the date of commissioning with annual 75% availability of each machine under the contract. The equipment will be treated as proven only when the full contracted quantity of equipment covers the performance period satisfactorily with stipulated minimum availability.

9. Issue of Performance Report after completion of Trial Period

After completion of trial period of the contracted quantity, Head of Excavation/Equipment Department at CIL will issue a performance report with the approval of competent authority at CIL. This performance report will be based upon the consolidated annual performance report indicating the actual percentage availability during the trial period for the contracted quantity against the stipulated percentage availability of trial order, along with the maintenance and operating cost incurred during the trial period for the contracted quantity as received from the Head of concerned Excavation Department of the subsidiary Company & duly approved by their competent authority (As per format in Annexure-5).

10. Incidental Services

The following Services, shall be provided by the Supplier:

(a) Erection, Testing and Commissioning

Erection, testing and commissioning of the Equipment as detailed in the Schedule of Requirements and the Technical Specifications.

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The supplier shall be responsible for the erection and commissioning within 30 days from the receipt of equipment at site.

The purchaser will provide necessary cranes, electricity and fuel required for testing only. All other erection tools & tackles including manpower will be arranged by the supplier. Any substantial delay in providing cranes from purchaser side will be recorded jointly for calculation purpose of erection & commissioning time.

If the supplier fails to commission the equipment within the specified period as mentioned above, additional time of 30 days shall be granted. If the supplier fails to commission the equipment within the total period of 60 days, the Contract on them shall be cancelled.

No Liquidated damages will be imposed for late commissioning of the equipment.

(b) Tools

Furnishing of tools required for assembly and maintenance of the supplied Goods as detailed in the Schedule of Requirements and the Technical Specifications. A complete list as per clause-A.2 of Technical Specifications is to be furnished by the supplier.

(c) Manuals

Furnishing of detailed operating, repair, maintenance and spare parts manuals as detailed in the Technical Specifications:

(d) Training

Training of the Purchaser's personnel as detailed in the Schedule of Requirements and the Technical Specifications. The cost of such Services shall be included in the Contract Price.

The Supplier shall be responsible for arranging and the cost of all necessary tickets, visas, permits, foreign exchange and any other matter or facility for visits of the Supplier's personnel for the purposes of Erection, Testing and Commissioning the Equipment and/or Training of the Purchaser's personnel - the Purchaser shall have no responsibility in this regard except in respect of issuance of letters supporting visa applications as may reasonably be requested by the Supplier. The Supplier shall be responsible for paying taxes, if any, including personal income tax and surcharge on income tax, for which it or its personnel may become liable.

For visit of Purchaser's personnel to manufacturer's works/venue of training, the Purchaser shall arrange all necessary tickets, conveyance, lodging and boarding and any other matter or facility for visits of Purchaser's personnel.

11. Liquidated Damages

The following clauses are in addition to LD clause indicated in the GeM terms and conditions:

11.1 The Liquidated Damages clause will not be applicable during the trial period of 2 years of operation from the date of commissioning. Also, Liquidated Damages, if any, due to any other default or penalty shall not be applicable during the trial period of 2 years of operation from the date of commissioning.

11.2 However, the Liquidated Damages clause will be applicable once the equipment is



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declared proven i.e. from the 3rd year of operation onwards in respect of supply of spares and consumables.

12. Prices

12.1 Prices stated in the contract shall remain firm and fixed throughout the period of the Contract.

12.2 Lowest Price Certificate

The bidder shall submit a certificate along with the offer confirming the prices quoted in the tender are the lowest and not higher than as applicable to any Organization / Ministry / Department of the Govt. of India or Coal India Ltd. and/or its Subsidiaries or other PSU or any other private organization for equipment and spares and consumables of same specifications.

12.3 Price Fall Clause

If the contract holder reduces its price or sells or even offers to sell the contracted goods or services following conditions of sale similar to those of the contract, at a price lower than the contract price, to any person or organization during the currency of the contract, the contract price will be automatically reduced with effect from that date for all the subsequent supplies under the contract and the contract be amended accordingly.

The provisions of price fall clause will however not apply to the following:

- i) Export/Deemed Export by the supplier;
- ii) Sale of goods or services as original equipment prices lower than the price charged for normal replacement;
- iii) Sale of goods such as drugs, which have expiry date;
- iv) Sale of goods or services at lower price on or after the date of completion of sale/placement of order of goods or services by the authority concerned, under the existing or previous Rate Contracts as also under any previous contracts entered into with the Central or State Government Departments including new undertakings (excluding joint sector companies and or private parties) and bodies.

Note:

- a. The currency of contract will mean the period till completion of supply.
- b. The bidder will be asked to submit a copy of the last (latest) purchase order for the tendered / similar item(s) received by them from any Organization / Ministry / Department of the Govt. of India or Coal India Ltd. and/or its Subsidiaries or other PSU or any other private organization, along with the offer. (The bidder may opt to mask the priced portion and shall submit an undertaking that priced copy will be submitted on being L1 after opening of Price Bid / Reverse Auction).
- c. It shall be responsibility of the supplier to inform the purchaser of offer to supply / supply of the ordered / similar item(s) at a lower rate to any Organization / Ministry / Department of the Govt. of India or Coal India Ltd. and/or its Subsidiaries or other PSU or any other



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private organization during the currency of the contract.

d. The supplier shall submit a certificate along with the bill(s) that it has not offered to supply / supplied the ordered / similar item(s) at a lower rate to any Organization / Ministry / Department of the Govt. of India or Coal India Ltd. and/or its Subsidiaries or other PSU or any other private organization.

13. Payment

13.1 For Payment of equipment in Indian Rupees:

Supplier will raise GST Invoice for equipment one week prior to completion of 3 months from the date of commissioning of the equipment to concerned project. On receipt of GST Invoice, payment shall be made just one week prior to 90 days from the date of invoice for 100% landed value of the invoice raised comprising the equipment value against submission of Performance Bank Guarantee for 100% landed value of the contract value of the particular equipment valid for a period of 21 months (beyond initial six months) from the date of commissioning of the equipment and upon presentation of successful commissioning certificate, signed by the concerned officials of the Project and counter-signed by the Area General Manager and HOD of Excavation Dept. of the subsidiary company, where the equipment has been deployed.

In order to comply with the above, if need be, the concerned Subsidiary of CIL will provide suitable space near to the place of deployment of the supplier's equipment as "additional place of business" to the concerned Regional/ Local Office of the supplier, which will remain with the Regional/ Local Office of the supplier till the GST Invoice is raised by them. For this purpose, the Concerned CIL Subsidiary shall issue 'No Objection Certificate' (NOC) to the supplier for using their premises nearer to the place of deployment of the equipment. Such place will be declared by the supplier as additional place of business, by amending the GST registration with filing of NOC in GSTN. The concerned CIL Subsidiary may decide to charge rent from the supplier as per prevalent practice. On successful commissioning of the equipment, the supplier will hand it over to the concerned CIL Subsidiary on 'Sale on approval basis' with Delivery Challan. Further, suitable modalities for despatch etc. may be worked out to facilitate compliance of GST provisions while complying with the above payment terms.

Freight and Transit Insurance charges shall be paid at actuals subject to ceiling of the quoted amount.

13.2 For Payment of consumable spares and consumables for first 12 months of warranty period in Indian Rupees

100% value of the consumable spares and consumables and 100% taxes and duties and other charges shall be made within 21 days of payment of equipment.

13.3 For Payment of spares and consumables for 5 years after the warranty period of 12 months in Indian Rupees under Spares Cost Cap:

100% value of the spares and consumables and 100% taxes and duties and other charges shall be made within 21 days after receipt and acceptance of materials at consignee's end during the respective year after confirmation of receipt of DRR and receipt of acceptance of applicable PBG.



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13.4 Submission of Documents for Payment for equipment in Indian Rupees:

For payment for equipment in Indian Rupees, the supplier will submit the following documents along with bills to the paying authority:

- a. Two copies of the Supplier's invoice, Pre-Receipted and Stamped showing Contract Number, Goods description, quantity, unit price, total amount and GSTNo. of Ultimate Consignee.
- b. Copy of Receipted Challan/ Consignment Note of all the consignments.
- c. Equipment Manufacturer's Test & Inspection Certificate.
- d. Equipment Manufacturer's Warranty /Guarantee Certificate as per Technical Specification Clause-C.9.
- e. Lowest Price Certificate as per clause 12 of ATC
- f. Price Fall Certificate as per clause 12 of ATC
- g. Self-attested copy of acceptance letter of the PBG by the concerned subsidiary.
- h. Documentary evidence for freight charges and transit insurance charges up to the destination.
- i. Copy of Certificate of Insurance.
- j. Any other document(s) required as per contract.
- k. Successful commissioning certificate, signed by the concerned officials of the Project and counter-signed by the Area General Manager and HOD of Excavation Deptt. of the subsidiary company, where the equipment has been deployed.

13.5 Submission of Documents for Payment in Indian Rupees for consumable spares and consumables during warranty period.

For payment for consumable spares and consumables in Indian Rupees, the supplier will submit the following documents along with bills to the paying authority:

- a. Two copies of the Supplier's invoice, Pre-Receipted and Stamped showing Contract Number, Goods description, quantity, unit price, total amount and GSTNo. of Ultimate Consignee.
- b. Copy of Receipted Challan/ Consignment Note of all the consignments.
- c. Equipment Manufacturer's / Supplier's Warranty /Guarantee Certificate as per case may be.
- d. Lowest Price Certificate as per clause 12 of ATC
- e. Price Fall Certificate as per clause 12 of ATC
- f. Any other document(s) required as per contract.

13.6 Submission of Documents for Payment in Indian Rupees for spares and consumables during 2nd year to 6th year of operation under Spares Cost Cap:

For payment for Spares and consumables under Spares Cost Cap in Indian Rupees, the supplier will submit the following documents along with bills to the paying authority:

- a. Two copies of the Supplier's invoice, Pre-Receipted and Stamped showing Contract Number, Goods description, quantity, unit price, total amount and GSTNo. of Ultimate Consignee.
- b. Copy of Receipted Challan/ Consignment Note of all the consignments.
- c. Equipment Manufacturer's / Supplier's Warranty /Guarantee Certificate as per case may be.



Additional Terms and Conditions

- d. Lowest Price Certificate as per clause 12 of ATC
- e. Price Fall Certificate as per clause 12 of ATC
- f. Certificate that the spares and consumables being supplied during the ...th year of operation and for which payment is being sought, has not crossed the cumulative Spares Cost Cap value of the ...th year of operation of the Machine Sr. No.....
- g. Any other document(s) required as per contract.

13.7 Paying Authority

The Paying Authority shall be General Manager (Finance) of the concerned subsidiary company headquarter.

14. Insurance

- 14.1 Wherever necessary, the goods supplied under the contract, shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, delivery, storage and erection and commissioning at site (wherever applicable) in the manner specified in the contract. The insurance is to be done for coverage on "all risks" basis including war risks and strike clauses. The amount to be covered under insurance should be 110% of the invoice value to take care of the overall expenditure to be incurred by the purchaser for receiving the goods at the destination. The insurance coverage of the goods will be upto successful erection and commissioning of the equipment at site.
- 14.2 In case of domestic supplies on Free Delivery at site/FOR Destination basis, the supplier has to arrange insurance at its cost. For Ex-works and FOR station of dispatch contracts, it is the responsibility of the purchaser to arrange for insurance.
- 14.3 Where the delivery of the Goods is on FOR destination Basis, the supplier shall deliver the goods at the FOR destination site at its own risks and costs. CIL has no obligation to the supplier for arranging insurance. However, CIL will provide the supplier upon request, with necessary information for obtaining insurance".

15. Changes in Order

The Purchaser may at any time, by a written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

- a) the place of delivery; and/or
- b) the place of Services to be provided by the Supplier.
- c) Transfer of equipment during the contract period:
 - 1. Once the request for transfer of equipment has been officially intimated to CIL by the concerned subsidiary after approval of CMD of the subsidiary, a formal amendment will be issued by the CIL for the equipment transfer with copy to all concerned.
 - 2. Dismantling, shifting and final assembly of the equipment to be carried out under the supervision of Contract Holder(s). The cost of dismantling, shifting (transportation & insurance) and re-assembly / re-commissioning including spares and consumables required for re-commissioning (if any) will be borne by concerned project to which the equipment is being shifted.
 - 3. Downtime during the transfer process will be on Purchaser/ user account. However, if the down time is more than 30 days due to such transfer, pro-rata adjustment for value



Additional Terms and Conditions

of spares and consumables under spares cost cap value for that year will be done by the Purchaser. No addition shall be allowed in the Spares Cost Value. Any additional items required over and above the spares cost cap value shall be borne by the Contract Holder(s).

4. The recommissioning certificate will be jointly signed and issued by the recipient project & Contract Holder(s) as per proforma mentioned in the NIT/ Contract. A signed copy of the re-commissioning certificate shall be handed over to the contractor(s) for claiming the cost of dismantling, shifting (transportation & insurance) and assembly / commissioning from the subsidiary to which the equipment is being transferred.
5. The contractual period will not be changed with reference to the Original Date of Commissioning of the equipment in the contractual consignee project.
6. If the Spares cost cap contract is concluded fleet wise and a part of the fleet is transferred, the Spares cost cap value will be apportioned for the new fleets on pro-rata basis. However the total spares cost cap value shall remain unchanged. Any additional items required over and above the spares cost cap value shall be borne by the Contract Holder(s).
7. The PBG shall be retained at the Subsidiary Hqrs and will be released as per terms of the Contract. In case of inter-subsidary transfer, the concerned subsidiary where the equipment has been transferred shall intimate the PBG holding subsidiary regarding performance and advice for its release as per terms of contract.
8. GST related matters shall be dealt as per statutory norms and payment shall be made accordingly by the concerned project(s).
9. The dispute(s), if any, in case of inter-subsidary transfer will be resolved amicably by a committee constituted by the Original Equipment Consignee subsidiary with following members: -
 - ❖ The Director Technical (O) of Original Consignee subsidiary
 - ❖ The Director Technical (O) of Subsidiary where Equipment is transferred
 - ❖ The GM (Excv)/ HOD of Parent subsidiary
 - ❖ The GM (Excv) / HOD of Subsidiary where equipment is transferred
 - ❖ Representative of Contract Holder(s)

Note for subsidiaries:

For transfer of equipment during the Contract period (Inter-Subsidiary or Intra-Subsidiary (involving change in GSTIN), GST will be applicable. The company transferring the equipment will set off their GST liability arising out of the transfer of equipment, using the available ITC. The recipient company shall not avail ITC on GST and the same shall be capitalized. The recipient company may claim depreciation on the GST portion capitalized.

16. Provisions of CIL's Purchase Manual

The provisions of CIL's Purchase Manual and its subsequent amendments (Available on CIL's website, www.coalindia.in) prevailing on the date of opening of tender shall also be applicable, if not specified otherwise in GeM Terms and Conditions / Bid document / Contract.

CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026



Additional Terms and Conditions

17. Taxes and Duties

The Domestic Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until the execution of the contract, other than those which are to be paid by purchaser, as specified in as per relevant clause of this document.

18. Transportation

- i. In case of FOR Destination contracts, transport of goods to the Destination site shall be arranged and paid for by the supplier and the cost thereof shall be included in the contract price. Transportation of goods is to be done through registered common carriers only payable at actuals against documentary evidence.

19. Jurisdiction of Courts

- 19.1 Irrespective of the place of delivery, the place of performance or place of payment under the contract, the contract shall be deemed to have been made at the place from where the acceptance of tender or supply order has been issued.
- 19.2 The courts of the place from where the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.


CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026

PRICE SCHEDULE

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The Prices (for each equipment) shall be as under:

Sl no	Description	Price per equipment (Rs)
1	Ex-Works Price of the Equipment	5,65,09,255.00
2	Freight Charges	0.00
3	Transit Insurance Charges	0.00
4	FOR Destination cost of the Equipment	5,65,09,255.00
	GST on the FOR-destination cost of the Equipment in %	18%
5	GST value on the FOR-destination cost of the Equipment	1,01,71,665.90
6	Total cost of Equipment with GST	6,66,80,920.90
7	Erection and commissioning charges	0.00
	GST on Erection and commissioning Charges in %	18%
8	GST on Erection and commissioning Charges in Rs/-	0.00
9	Total cost of Erection and commissioning charges with GST	0.00
A	Total cost of Equipment including the Erection and commissioning charges and GST	6,66,80,920.90
For Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment		
1	FOR Destination Price of all consumable spares & consumables per equipment (in Rs.)	42,77,958.00
2	Total estimated GST amount on Total FOR Destination Price of all consumable spares & consumables per equipment (in Rs)	7,70,032.44
3	Landed Price of all consumable spares & consumables per equipment (in Rs.)	50,47,990.44
Spares Cost Cap Value of all Spares & Consumables (per equipment) for 2nd year of operation from the date of commissioning of Equipment.		
1	FOR Destination Price of all consumable spares & consumables per equipment (in Rs.)	44,04,855.00
2	Total estimated GST amount on Total FOR Destination Price of all consumable spares & consumables per equipment (in Rs)	7,92,873.90
3	Landed Price of all consumable spares & consumables per equipment (in Rs.)	51,97,728.90
Spares Cost Cap Value of all Spares & Consumables (per equipment) for 3rd year of operation from the date of commissioning of Equipment.		
1	FOR Destination Price of all consumable spares & consumables per equipment (in Rs.)	49,44,847.00

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2	Total estimated GST amount on Total FOR Destination Price of all consumable spares & consumables per equipment (in Rs)	8,90,072.46
3	Landed Price of all consumable spares & consumables per equipment (in Rs.)	58,34,919.46
Spares Cost Cap Value of all Spares & Consumables (per equipment) for 4th year of operation from the date of commissioning of Equipment.		
1	FOR Destination Price of all consumable spares & consumables per equipment (in Rs.)	94,61,086.00
2	Total estimated GST amount on Total FOR Destination Price of all consumable spares & consumables per equipment (in Rs)	17,02,995.48
3	Landed Price of all consumable spares & consumables per equipment (in Rs.)	1,11,64,081.48
Spares Cost Cap Value of all Spares & Consumables (per equipment) for 5th year of operation from the date of commissioning of Equipment.		
1	FOR Destination Price of all consumable spares & consumables per equipment (in Rs.)	43,92,293.00
2	Total estimated GST amount on Total FOR Destination Price of all consumable spares & consumables per equipment (in Rs)	7,90,612.74
3	Landed Price of all consumable spares & consumables per equipment (in Rs.)	51,82,905.74
Spares Cost Cap Value of all Spares & Consumables (per equipment) for 6th year of operation from the date of commissioning of Equipment.		
1	FOR Destination Price of all consumable spares & consumables per equipment (in Rs.)	44,65,403.00
2	Total estimated GST amount on Total FOR Destination Price of all consumable spares & consumables per equipment (in Rs)	8,03,772.54
3	Landed Price of all consumable spares & consumables per equipment (in Rs.)	52,69,175.54
B. Total price of For Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares & Consumables for a period of 5 Years under Spares Cost Cap (inclusive of GST)		3,76,96,801.56
(A+B) Total price of Equipment + Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares & Consumables for a period of 5 Years under Spares Cost Cap (inclusive of GST)		10,43,77,722.46

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The Total Value for award of the Contract including GST (for above two projects put together) shall be Rs.20,87,55,444.92 (Rupees Twenty Crores Eighty Seven Lakhs Fifty Five Thousand Four Hundred Forty Four and Paisa Ninety Two only)

NB: The cost cap value shall be payable at actuals subject to the maximum rate / amount mentioned above.



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SPARES AND CONSUMABLES REQUIRED DURING WARRANTY PERIOD

Model: BD46W-1 Wheel Dozer

SL.NO	PART NO.	DESCRIPTION	TOTAL QTY REQD FOR 1ST YEAR / EQPT	UOM	UNIT PRICE	EXTD PRICE	HSN CODE	GST %	GST RATE
1	5486568	SEPARATOR,FUEL WATER	20	No	22,038.00	4,40,760.00	84212300	18%	79336.80
2	4331003	Lube Oil Filter	20	No	10,948.00	2,18,960.00	84212300	18%	39412.80
3	5261249	Element Air Cleaner	7	No	28,424.00	1,98,968.00	84212300	18%	35814.24
4	5261251	Element Air Cleaner	7	No	23,439.00	1,64,073.00	84212300	18%	29533.14
5	3687533	Belt Fan	2	No	7,323.00	14,646.00	40103190	18%	2636.28
6	3687292	Belt Alternator	1	No	18,077.00	18,077.00	40103190	18%	3253.86
7	4907485	Corrossion Inhibitor	4	No	13,301.00	53,204.00	84212190	18%	9576.72
8	3816985	KIT,COOLANT TEST	5	No	1,602.00	8,010.00	38200000	18%	1441.80
9	4907485	Corrossion Resistor	20	No	13,301.00	2,66,020.00	84212190	18%	47883.60
10	3689131	Fuel Filter	20	No	31,133.00	6,22,660.00	84212300	18%	112078.80
11	761PS02014	FILTER ELEMENT	10	No	1,325.00	13,250.00	84314200	18%	2385.00
12	0705600045	HYD TANK STRAINER	5	No	1,376.00	6,880.00	84314930	18%	1238.40
13	781PH11813	PILOT FILTER ELEMENT	10	No	6,037.00	60,370.00	84314200	18%	10866.60
14	136TM03006	TRANSMISSION FILTER ELEMENT	4	No	46,423.00	1,85,692.00	84314200	18%	33424.56
15	C600230002	Engine oil,E15W-40, CI-4 Plus	1050	Ltr	218.00	2,28,900.00	27101980	18%	41202.00
16	C600245000	Transmission oil SAE40	420	Ltr	257.00	1,07,940.00	27101980	18%	19429.20
17	C600247000	GEAR OIL 85W140	630	Ltr	260.00	1,63,800.00	27101980	18%	29484.00
18	C600202001	Hydraulic oil SAE10	840	Ltr	239.00	2,00,760.00	27101980	18%	36136.80
19	C600304000	EP-2 GREASE Per KG	546	Kg	437.00	2,38,602.00	34031900	18%	42948.36
20	136MD11289	CUTTING EDGE	8	No	53,251.00	4,26,008.00	84313990	18%	76681.44
21	125TD11192	CUTTING EDGE	4	No	38,000.00	1,52,000.00	84314200	18%	27360.00
22	136MD11297	END BIT LH	4	No	38,896.00	1,55,584.00	84313990	18%	28005.12
23	136MD11304	END BIT RH	4	No	38,896.00	1,55,584.00	84313990	18%	28005.12
24	BFB3511488	BOLT	140	No	410.00	57,400.00	73181500	18%	10332.00
25	BFB3511476	BOLT	250	No	122.00	30,500.00	73181500	18%	5490.00
26	1757111530	NUT	390	No	118.00	46,020.00	73181600	18%	8283.60
27	CFW0522060	WASHER	390	No	111.00	43,290.00	73181900	18%	7792.20

Grand Total

42,77,958.00

7,70,032.44



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Details of Training Charges (For each project)

1 SI No.	2 Type of Personnel	3			4			5			6			7			8			9			10			11				
		At Manufacturer's Training Facility available in India			At Site			At Site			At Site			At Site			At Site			At Site			At Site			At Site				
		No.	Period (Week)	Total Man Weeks (3x4)	Rate Per Man Per Week (Rs)	No.	Period (Week)	Total Man Weeks (7x8)	Rate Per Man Per Week (Rs)	No.	Period (Week)	Total Man Weeks (7x8)	Rate Per Man Per Week (Rs)	No.	Period (Week)	Total Man Weeks (7x8)	Rate Per Man Per Week (Rs)	No.	Period (Week)	Total Man Weeks (7x8)	Rate Per Man Per Week (Rs)	No.	Period (Week)	Total Man Weeks (7x8)	Rate Per Man Per Week (Rs)	No.	Period (Week)	Total Man Weeks (7x8)	Rate Per Man Per Week (Rs)	Total Charges (5x6)+(9x10)
1	Mech Engineer	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	0	0
2	Mech Supervisor	2	1	2	0	1	1	2	0	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	0	0
3	Elec Supervisor				0				0																					0
4	Mech Fitter				0				0																					0
5	Electrician				0				0																					0
6	Operator				0				0																					0
		3								18																				0

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Amdeep

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Date

Integrity Pact

INTEGRITY PACT

CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026



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INTEGRITY PACT

General

This Agreement (hereinafter called the Integrity Pact) is made on 18th day of the month of June, 2026, between, on one hand, Coal India Limited/Subsidiary Cos. acting through Shri Sk.Maimud Alli, Executive Director(Materials Management), (hereinafter called the "BUYER / Principal", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s BEML Ltd, Bengaluru represented by Shri Amritendu Mandal, Regional Manager, BEML Regional office Kolkata (hereinafter called the "Supplier" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Other Part.

WHEREAS the BUYER proposes to procure 485 HP Wheel Dozers along with Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares & Consumables for a period of 5 years under Spares Cost Cap and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a Central Public Sector Unit constituted in accordance with the relevant law in the matter and the BUYER is a Central Public Sector Unit.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

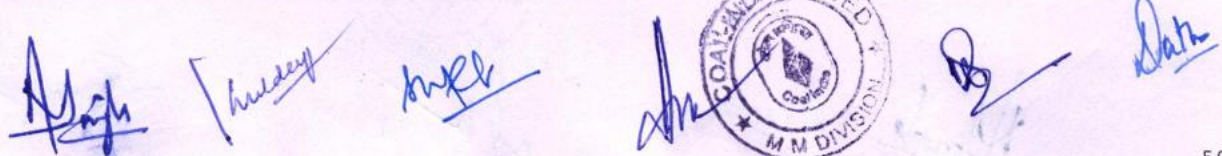
The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Section 1 – Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

a. No employee of the Principal, personally or through family members, will in connection

CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026

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Integrity Pact

with the tender for , or the execution of a contract, demand ; take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

- b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - c. Principal will exclude from the process all known prejudiced persons.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/ PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- (1) The Bidder(s) / Contractor(s) commit themselves to take all measures necessary to prevent corruption. The Bidder(s) / Contractor(s) commit themselves to observe the following principles during participation in the tender process and during the contract execution.
 - a. The Bidder(s) / Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - b. The Bidder(s) / Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non- submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.
 - c. The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/ PC Act; further the Bidder(s) / Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d. The Bidder(s) / Contractors(s) of foreign origin shall disclose the name and address of the Agents/ representatives in India , if any, Similarly the Bidder(s) /Contractors(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s) / Contractor(s).Further, as mentioned in the Guidelines all the

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Integrity Pact

payments made to the Indian agent/ representative have to be in Indian Rupees only. *The guidelines and terms and conditions for India agents of foreign supplier shall be as per the provisions mentioned in the NIT.*

- e. The Bidder(s) / Contractor(s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
 - f. Bidder(s) / Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.
- (2) The Bidder(s) / Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder, before contract award, has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or credibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

- (1) If the Bidder / Contractor / Supplier has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is also entitled to exclude the Bidder / Contractor / Supplier from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case. In particular the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.
- (2) A transgression is considered to have occurred if the Principal, after due consideration of available facts and evidences within his / her knowledge concludes that there is a reasonable ground to suspect violation of any commitment listed under Section 2 i.e " Commitments of Bidder(s) / Contractor(s).
- (3) The Bidder accepts and undertakes to respect and uphold the Principal's absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
- (4) If the Bidder / Contractor / Supplier can prove that he has restored / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely."

Section 4 - Compensation for Damages

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- (1) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- (2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 - Previous transgression

- (1) The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealings".

Section 6 - Equal treatment of all Bidders / Contractors / Subcontractors

- (1) In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor.
- (2) The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidder(s) / Contractor(s) / Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 - Independent External Monitor

- (1) The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- (2) The Monitor is not subject to instructions by the representatives of the parties and performs his/ her functions neutrally and independently. The Monitor would have access to all

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Contract documents, whenever required. It will be obligatory for him / her to treat the information and documents of the Bidders/Contractors as confidential.

He/ she reports to the Chairman, Coal India Limited / CMD, Subsidiary Companies

- (3) The Bidder(s) / Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/ her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
- (4) The Monitor is under contractual obligation to treat the information and documents of the Bidder(s) / Contractor(s) / Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non-Disclosure of Confidential Information ' and of 'Absence of Conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform Chairman, Coal India Limited / CMD, Subsidiary Companies and recuse himself / herself from that case.
- (5) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- (6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/ she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- (7) The Monitor will submit a written report to the Chairman, Coal India Limited / CMD, Subsidiary Companies within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- (8) If the Monitor has reported to the Chairman, Coal India Limited / CMD, Subsidiary Companies, a substantiated suspicion of an offence under relevant IPC/ PC Act, and the Chairman, Coal India Limited / CMD, Subsidiary Companies has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
- (9) The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has

CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026



Integrity Pact

been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Chairman Coal India Limited / CMD, Subsidiary Companies.

Section 10 - Other provisions

- (1) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (2) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- (3) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- (4) Issues like Warranty / Guarantee etc. shall be outside the purview of IEMs.
- (5) In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

Section 11- Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

Section 12- Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

Section 13 - Other Legal Actions.

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026

[Signature]

[Signature]

[Signature]



[Signature]

[Signature]

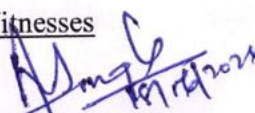
Integrity Pact


The parties hereby sign this Integrity Pact at Kolkata on 18.06.2026.

For the Buyer/Purchaser

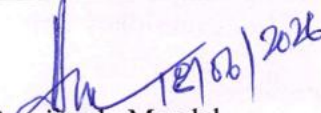

S.M. Ali
Executive Director (MM)
Coal India Ltd, Kolkata


Witnesses



Avinash Kumar
General Manager (MM)
Coal India Ltd, Kolkata


P. Kuldeep
Senior Manager (MM)
Coal India Ltd, Kolkata

For the Manufacturer/Supplier


Amritendu Mandal
Regional Manager
BEML Regional office Kolkata


Pabitra Dutta
Sr. Manager (Sales)
BEML Regional office Kolkata


Kaushik Bhowmik
Sr. Manager (Accounts)
BEML Regional office Kolkata



CIL/C2D/Wheel Dozer/Trial/R-147/342 dated 18.06.2026





Notification Of Award

**Notification
of
Award**



Amish / Anoop / Anur / An / An / An

काल इंडिया लिमिटेड

(एक महारत्न कंपनी)
सामग्री प्रबंधन विभाग
'कोल भवन',
प्लॉट सं- ए.एफ-३, एक्शन एरिया-१ए
न्यू टाउन, राजरहाट,
कोलकाता -७००१५६
वेबसाइट : www.coalindia.in
ईमेल: edmm.cil@coalindia.in



5 DECADES OF UNEARTHING ENERGY

COAL INDIA LIMITED

(A MAHARATNA COMPANY)

(A Govt of India Undertaking)

Materials Management Division,
'Coal Bhawan', Premises No.04-MAR,
Plot No-AF-III, Action Area 1A,
New Town, Rajarhat,
Kolkata-700156

Website: www.coalindia.in

E mail: edmm.cil@coalindia.in

Ref: CIL/C2D/460HP Wheel Dozer-Trial/R-147/112

Date: 26.05.2026

To

M/s BEML Ltd
Soudha, 23/1
4th main, S.R.Nagar,
Bengaluru – 560027
Ph: 080-22963532

email – naresh.kumar@bemltd.in

Notification of Award

Subject: Supply, Installation and Commissioning of 2 nos., BEML Make 485HP Wheel Dozers (Model BD46W-1), with spares and consumables under Spares Cost Cap on trial basis.

Reference:

1. Our domestic trial tender vide GEM/2024/B/5721648 dated 18.12.2024, cover-1 opened on 21.04.2025 and Price Bid opened on 31.07.2025.
2. Your e-offer no. MT/TC-1690/CIL/(BD46W-1) dtd 18-04-2025
3. Your confirmation of validity extension on GeM dated 19.08.2025
4. Your confirmation of validity extension on GeM dated 25.09.2025
5. Our letter no. CIL/C2D/460HP Dozers Trial/2025-24/430 dated 13.10.2025
6. Your letter no. BEML/CIL/TC1690/BD46W-1/345 dated 21.10.2025
7. Your letter no. BEML/CIL/TC1690/BD46W-1/390 dated 15.11.2025
8. Your confirmation of validity extension on GeM dated 01.12.2025
9. Our letter no. CIL/C2D/460HP Dozers Trial/2025-24/604 dated 06.01.2026
10. Your letter no. BEML/CIL/TC1690/BD46W-1/378 dated 19.01.2026
11. Our letter no. CIL/C2D/460HP Dozers Trial/2025-24/700 dated 06.02.2026
12. Your letter no. BEML/CIL/TC1690/BD46W-1/414 dated 10.02.2026
13. Our letter no. CIL/C2D/460HP Dozers Trial/2025-24/755 dated 28.02.2026
14. Your letter no. BEML/CIL/TC1690/BD46W-1 dated 11.03.2026
15. Your confirmation of validity extension on GeM dated 24.03.2025
16. Your final bid submission dated 22.04.2025 on GeM
17. Your confirmation of validity extension on GeM dated 22.04.2025

Dear Sir,

With reference to GeM Bid, Your offer and subsequent correspondence referred above, Notification of Award is hereby issued to you, confirming acceptance of your offer for Supply, Installation and

Page 1 of 5



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Commissioning of 2 nos. BEML Make 485HP Wheel Dozers (Model BD46W-1), along with Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares & Consumables for a period of 12 months under Spares Cost Cap, on trial basis. On being declared proven after successful performance of trial period of 24 months, supply of Spares & Consumables shall be made for a further period of 4 years on proven basis thereafter under Spares Cost Cap for the following projects:

NIT item no.	Project	Qty. (nos.)
1	Gondegaon Ghatrohana Amlg OCP Western Coalfields Ltd, Nagpur, Maharashtra	1
2	Nigahi OCP, Northern Coalfields Ltd, MP	1
	Total	2

The terms and conditions shall be as per GeM bid document, Technical Specifications, Schedule of Requirement and Buyer added terms and conditions. The salient terms are as mentioned hereunder:

1. A Bipartite contract shall be concluded by Coal India Ltd and M/s BEML Ltd
2. The contract shall be issued on (FOR Destination) basis.
3. **Currency:**
 - a) The equipment will be supplied by M/s BEML Limited, Bengaluru in Rupees (INR).
 - b) **INR components of equipment** – Freight, Insurance and Erection & Commissioning - will be carried out by you at no extra cost to CIL. The cost of the same is included in the cost of equipment shown below. The items required for fitment in the equipment during its commissioning, the consumable spares and consumables for 12 months of warranty period and thereafter spares and consumables for a period of 05 years under Spares Cost Cap will be supplied by you in Indian Rupees (INR).
 - c) Payment in INR shall be made as per relevant sub-clauses of Clause-13 of the ATC of Bid Documents
4. The Firm Prices of Equipment & Spares and consumables for 6 years (Unit rate applicable for all projects):

Sl.No.	Description	Rate per equipment (Rs)
1	FOR destination price per equipment including freight and insurance (Inclusive of GST)	6,66,80,920.90
2	Total 1st year Spares and consumables (Inclusive of GST)	50,47,990.44
3	Total 2nd year Spares and consumables (Inclusive of GST)	51,97,728.90
4	Total 3rd year Spares and consumables (Inclusive of GST)	58,34,919.46
5	Total 4th year Spares and consumables (Inclusive of GST)	1,11,64,081.48
6	Total 5th year Spares and consumables (Inclusive of GST)	51,82,905.74
7	Total 6th year Spares and consumables (Inclusive of GST)	52,69,175.54
8	Grand Total for equipment and Spares and Consumables (Inclusive of GST)	10,43,77,722.46



The Total Value for award of the Contract including GST (for above two projects put together) shall be Rs.20,87,55,444.92 (Rupees Twenty Crores Eighty Seven Lakhs Fifty Five Thousand Four Hundred Forty Four and Paise Ninety Two only).

NB : The cost cap value shall be payable at actuals subject to the maximum rate / amount mentioned above.

5. **Performance Period for Trial & Minimum Annual Availability (ATC Clause 8)**

The performance period for trial will be two years from the date of commissioning with annual 75% availability of each machine under the contract. The equipment will be treated as proven only when the full contracted quantity of equipment covers the performance period satisfactorily with stipulated minimum availability.

6. **Offered Performance guarantee by you (against Clause C.6.2.6 & Clause D.7) which shall form part of contract:**

You have offered spares cost cap coverage of 5000 Hours (+/- 500 Hours) against clause C 6.2.6 of the technical specifications. Updated provision of Clause C.6.2.6 & D7 of Technical Specifications as per your offer is as under:

The assessment of the Supplier of the spare parts requirements shall be based upon the expected working hours per year as defined in the individual Equipment Specifications included in the Technical Specifications.

In accordance with the provisions of clause D.7, Part - D of the technical specifications the expected working hours per annum are 5000 (five thousand) hours for the offered 485 HP Wheel Dozers. The expected average working hours per annum as indicated are only approximate hours and may vary + 500 hours.

Total duration of contract will be 6 years for Wheel Dozers irrespective of working hour.

In case, actual average working hours of the fleet of the project exceeds 33,000 $[(5500 \times 6) = 33,000]$ hours during the tenure of 6 years (72 months) of contract period, then spares and consumables items, if additionally required and agreed by the purchaser, will be procured by the Purchaser from the Supplier.

7. **Security Deposit: Not Applicable**

8. **Performance Bank Guarantee:** Shall be applicable as per provisions of Clause 5 of ATC of GeM Bid.

9. **Liquidated Damages:** The Liquidated Damages clause will not be applicable during the trial period of 2 years of operation from the date of commissioning. Also, Liquidated Damages, if any, due to any other default or penalty shall not be applicable during the trial period of 2 years of operation from the date of commissioning. However, the Liquidated Damages clause will be



applicable once the equipment is declared proven i.e. from the 3rd year of operation onwards in respect of supply of spares and consumables.

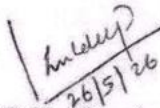
Compensation for not achieving guaranteed availability shall be governed as per clause C.7.3.3 & C.7.3.4 of technical specifications of GeM bid.

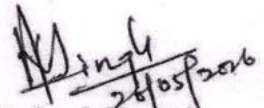
10. Signing of Contract:

The contract shall be signed within 15 days of receipt of verified draft copy. You are requested to intimate the names and designation of the persons who will sign the agreement on your behalf along with the names and designation of witnesses. The authorized representatives of M/s BEML Ltd will also be signatories to the contract agreement and the Integrity Pact.

This Notification of Award will be binding on you until a formal contract is signed. You are requested to confirm receipt of this Notification of Award within 5 days of its issue.

Yours faithfully,
For & on Behalf of Coal India Limited


(P.Kuldeep)
Sr.Manager(MM)


(Avinash Kumar)
General Manager (MM)

Copy to:

- M/s BEML Ltd, KGF Complex, BEML Nagar, Kolar Goal Fields, Kolar-563115, email - mallikarjunareddy.cv@bemltd.in
- Dir(Tech), CIL / ED(Excv), CIL / ED(Fin), CIL / ED(MM), CIL / GM(EED), CIL / CM(EED), CIL/
- Dir(Tech) P&P, NCL, GM(Excv)-HOD, NCL, GM(Fin), NCL, GM(MM)-HOD, NCL
- Dir(Tech) P&P, WCL, GM(Excv)-HOD, WCL, GM(Fin), WCL, GM(MM)-HOD, WCL

BC details:

1. NCL: reference e-office file no. 2368342

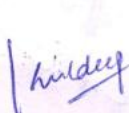
BC/FC NOTING (CAPITAL)

- Capital Budget/BC of Rs.6,66,80,920.90 (Rupees Six Crore Sixty Six Lakh(s) Eighty Thousand Nine Hundred Twenty And Paise Ninety Only) is noted vide ref. no. NCL/HQ/C&B/Capital/ HEMM/2026-27/02 dt 16.05.2026.
- FC for total value of Rs.6,66,80,920.90 (Rupees Six Crore Sixty Six Lakh(s) Eighty Thousand Nine Hundred Twenty And Paise Ninety Only) is given vide ref. no. NCL/HQ/FC/2025-26/ Capital/HEMM/02 dt. 16.05.2026.

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Budget Noting (REVENUE)

- Budget/BC of Rs.50,47,990.44 (Rupees Fifty Lakh(s) Forty Seven Thousand Nine Hundred Ninety And Paise Forty Four Only) is noted from Centralised HEMM Spares budget kept at HQ, vide ref. no. NCL/HQ/BC/2026-27/Centralised HEMM Spares/43 dt 16.05.2026.
- FC for Rs.50,47,990.44 (Rupees Fifty Lakh(s) Forty Seven Thousand Nine Hundred Ninety And Paise Forty Four Only) is given vide ref. no. NCL/HQ/FC/2026-27/ Centralised HEMM Spares/ 38 dt 16.05.2026.
- 2027-28 (NOTING) Budget/BC of Rs.51,97,728.90 (Rupees Fifty One Lakh(s) Ninety Seven Thousand Seven Hundred Twenty Eight And Paise Ninety Only) is noted from Centralised HEMM Spares budget kept at HQ, vide ref. no. NCL/HQ/C&B/ 2027-28 /Notings/ Centralised HEMM Spares/01 dt. 16.05.2026.
- 2028-29 (NOTING) Budget/BC of Rs.58,34,919.46 (Rupees Fifty Eight Lakh(s) Thirty Four Thousand Nine Hundred Nineteen And Paise Forty Six Only) is noted from Centralised HEMM Spares budget kept at HQ, vide ref. no. NCL/HQ/C&B/ 2028-29 /Notings/ Centralised HEMM Spares/01 dt. 16.05.2026.
- 2029-30 (NOTING) Budget/BC of Rs.1,11,64,081.48 (Rupees One Crore Eleven Lakh(s) Sixty Four Thousand Eighty One And Paise Forty Eight Only) is noted from Centralised HEMM Spares budget kept at HQ, vide ref. no. NCL/HQ/C&B/ 2029-30 /Notings/ Centralised HEMM Spares/01 dt. 16.05.2026
- 2030-31 (NOTING) Budget/BC of Rs.51,82,905.74 (Rupees Fifty One Lakh(s) Eighty Two Thousand Nine Hundred Five And Paise Seventy Four Only) is noted from Centralised HEMM Spares budget kept at HQ, vide ref. no. NCL/HQ/C&B/ 2030-31 /Notings/ Centralised HEMM Spares/01 dt. 16.05.2026.
- 2031-32 (NOTING) Budget/BC of Rs.52,69,175.54 (Rupees Fifty Two Lakh(s) Sixty Nine Thousand One Hundred Seventy Five And Paise Fifty Four Only) is noted from Centralised HEMM Spares budget kept at HQ, vide ref. no. NCL/HQ/C&B/ 2031-32 /Notings/ Centralised HEMM Spares/01 dt 16.05.2026

2. WCL: reference e-office file no. 2368362

1. Capital (excluding taxes) -

WCL/CB2627/CENTRALIZD/WCL9611/4100/302625/Rs.5,65,09,255/11.05.2026

2. Noting done for Rs.3,19,46,442.00 for subsequent years as confirmed by finance dept, WCL at Note#18 of above referred e-office file.

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Page 5 of 5

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Annexure(s)



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Annexure-1

Performance Bank Guarantee Format

..... (Name & address of the concerned subsidiary
..... Company / ~~Purchaser~~ Company)

**Re: Bank Guarantee in respect of Agreement / Contract vide no. dated
between Coal India Ltd. on behalf of (Name of concerned subsidiary Company) and
..... (Name of Supplier Company) {applicable for CIL Contracts}**

Messersa Company / Firm having its office at No. (hereinafter
called 'the Contractor') has entered into the Agreement / Contract / Purchase Order vide no
..... dated (hereinafter called 'the said Agreement') with Coal India Limited, Kolkata
on behalf of / Purchaser Company (Name of the concerned subsidiary
Company) (hereinafter called 'the Company') to supply stores/ materials
amounting to Rs.on the terms and conditions contained in the said Agreement.

The..... (Name of the Bank) (hereinafter called 'the Bank') having its office
at..... has at the request of the Contractor agreed to give the guarantee as
hereinafter contained.

We.....(Name of the Bank) do hereby unconditionally agree with the
Company that if the Contractor shall in any way fail to observe or perform the terms and
conditions of the said Agreement or shall commit any breach of its obligations thereunder,
the Bank shall on demand and without any objection or demur pay to the Company, the said
sum of Rs..... or any portion thereof without requiring the Company to have
recourse to any legal remedy that may be available to it to compel the Bank to pay the same
or calling on the Company to compel such payment by the Contractor.

Any such demand shall be conclusive as regards the liability of the Contractor to the
Company and as regards the amount payable by the Bank under this guarantee. The Bank
shall not be entitled to withhold payment on the ground that the Contractor has disputed its
liability to pay or has disputed the quantum of the amount or that any arbitration proceeding
or legal proceeding is pending between the Company and the Contractor regarding the claim.

We, the Bank, further agree that the guarantee shall come into force from the date hereof and
shall remain in full force and effect till the period that will be taken for the performance of
the said Agreement which is likely to be the day of..... but if the period of
Agreement is extended either pursuant to the provisions in the said Agreement or by mutual
agreement between the Contractor and the Company, the Bank shall renew the period of the
guarantee failing which it shall pay to the Company the said sum of Rs....., or such
lesser amount out of the said sum of Rs.....as maybe due to the Company and as the
Company may demand. This guarantee shall remain in force until the dues of the Company in
respect of the said sum of Rs..... are fully satisfied and the Company certifies that the
Agreement has been fully carried out by the contractor and discharges the guarantee.

The Bank further agrees with the Company that the Company shall have the fullest liberty
without the consent of the Bank and without affecting in any way the obligations hereunder
to vary any of the terms and conditions of the said Agreement or to extend the time for

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M Singh

Kuldeep

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Date

performance of the said Agreement from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the contractor and to forbear to enforce any of the terms and conditions relating to the said Agreement and the Bank shall not be relieved from its liability by reason of such failure or extension being granted to the contractor or through any forbearance, act or omission on the part of the Company or any indulgence by the Company to the contractor or any other matter or thing whatsoever which under the law relating to sureties would but for this provisions have the effect of relieving or discharging the Guarantor.

The Bank further agrees that in case this guarantee is required for a longer period and it is not extended by the Bank beyond the period specified above, the Bank shall pay to the Company the said sum of Rs..... or such lesser sum as may then be due to the Company and as the Company may require.

Notwithstanding anything herein contained the liability of the Bank under this guarantee is restricted to Rs.....only. The guarantee shall remain in force till the.....day of20... and unless the guarantee is renewed or a claim is preferred against the Bank within the validity period and/or the claim period from the said date, all rights of the Company under this guarantee shall cease and the Bank shall be released and discharged from all liability hereunder except as provided in the preceding clause.

The Bank has under its constitution power to give this guarantee and.....
[(Name of the person(s)] who have signed it on behalf of the Bank has authority to do so.

Dated this.....day of20.....
Place.....

Signature of the authorized person(s)
For and on behalf of the Bank.

[Handwritten signature]

[Handwritten signature]



[Handwritten signature]

[Handwritten signature]

Annexure-2

Pro-forma of Commissioning Certificate to be issued by the Purchaser after Successful Commissioning of Equipment

No. :

Date :

M/s:

Sub : Certificate of Commissioning of Equipment

1. This is to certify that the equipment as detailed below has been received in good condition along with all the standard and special accessories and a set of spares in accordance with the Contract / specifications. The same has been installed and commissioned as detailed below:.

(a) Contact No. _____ Date _____

(b) Description and Model of the Equipment _____

(c) Details of Commissioning:

Manufacturer's Equipment / Sl. No.	Date of Commissioning (date/month/year)

(d) Bill of Lading No. & Date _____
(for imported contract)

(e) Name of the Vessel / Transporter _____

(f) R/ R Consignment Note/ Challan No. _____ Date _____

(g) Date of receipt of last consignment of equipment _____

(h) Name of the Project/ Consignee _____

2. Details of Accessories / Spares & Consumables for warranty period not yet supplied and recoveries to be made on that account :

Sl. No.	Description	Amount to be recovered
---------	-------------	------------------------

3. The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment.



4. The supplier has fulfilled his contractual obligations for successful commissioning satisfactorily:
Or

(Handwritten signatures in blue ink)

The supplier has failed to fulfil his contractual obligations with regard to the following:

- (a)
- (b)
- (c)
- (d)

- 5. The amount of recovery on account of non-supply of accessories is given under paragraph number 2.
- 6. The amount of recovery on account of failure of the Supplier to meet his contractual obligations is as indicated in endorsement of the letter.

Signature (s)

Name(s)

Designation(s) with Stamp

Explanatory notes for filling up the commissioning certificate by the Purchaser

- (a) He has adhered to the time schedule specified in the contract in dispatching the documents / drawings pursuant to Technical Specifications.
- (b) He has supervised the commissioning of the equipment in time, i.e. within the period specified in the Contract from the date of intimation by the Purchaser in respect of the installation of the Equipment.

The commissioning certificate shall be signed by the concerned officials of the Project and countersigned by the Area General Manager and HOD of Excavation Deptt. of subsidiary company.

In the event of documents / drawings having not been supplied or installation and commissioning of the Equipment having been delayed on account of the Supplier, the extent of delay should always be mentioned.

[Handwritten signatures and stamps]

[Signature] *[Signature]* *[Signature]* *[Signature]* *[Signature]*

[Stamp: COAL INDIA LIMITED, MM DIVISION]

[Signature] *[Signature]*

Format for 'No Claim Certificate' to be issued by Supplier

(On company letterhead)

To

..... (Name & address of the concerned subsidiary Company / Purchaser Company)

NO CLAIM CERTIFICATE

Sub: **Contract no.** ----- **dated** ----- **for the supply of** -----

We have received the sum of Rs. (Rupees _____ only) in full and final settlement of all the payments due to us for the supply of _____ under the above mentioned contract agreement, between us and _____ (CIL or Subsidiary). We hereby unconditionally and without any reservation whatsoever, certify that we have no claim whatsoever, of any description, on any account, against _____ (Procuring Entity i.e. concerned subsidiary / Purchaser Company), against aforesaid contract agreement executed by us. We further declare unequivocally, that we have received all the amounts payable to us, and have no dispute of any description whatsoever, regarding the amounts worked out as payable to us and received by us, and that we shall continue to be bound by the terms and conditions of the contract agreement, as regards performance of the contract.

Yours faithfully,

Signatures of contractor / supplier or officer authorised to sign the contract documents on behalf of the contractor / supplier

(Company stamp)

Date: _____

Place: _____



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

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ANNEXURE - 4

Hindrance Register Format

Equipment: _____ Model: _____ Supplier: _____

SI. No.	Nature of Hindrance	Activity of work affected	Date of occurrence of Hindrance	Date of Removal of Hindrance	Period of Hindrance	Signature of Supplier Representative	Signature of Users Representative (Concerned Engineer)



Supr

M Singh

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Handwritten signature

Handwritten signature *Date*

Annexure – 5

Format for Performance Certificate on completion of Trial Period

**SATISFACTORY PERFORMANCE CERTIFICATE FOR [name of HEMM]
DURING TRIAL PERIOD****NAME OF THE SUBSIDIARY COMPANY****PROJECT****AREA****CIL CONTRACT NO.****SUPPLIER'S NAME****MANUFACTURER ...****EQUIPMENT TYPE:****EQUIPMENT MODEL:****EQUIPMENT SERIAL NO.****DATE OF COMMISSIONING****NAME OF****The details of yearly performance during trial period of [...] Years are furnished below:**

Period		Year	Guaranteed Availability Percentage		Remark, if any
FROM	TO		Contractual Reqrm.	Achieved	
		1st year			
		2nd year			

NB : This will start from re-commissioned date, if applicable, as per Clause [...]. Of SCC of the Contract

- All contractual obligations during the period of trial i.e. 1st year to 2nd year have been fulfilled.
- There is no financial claim pending during this trial period from (start date) to (end date) for recovery on account of the above referred contract.
- The performance of the Equipment Sr. No. [...] Model [...] Make [...] name of HEMM [...] during the trial period is satisfactory.

The equipment is recommended to be considered "proven" from the 3rd year of operation onwards till completion of Contract, based on the above confirmation and consideration of operating and maintenance costs during the trial period.

This is subject to approval of Competent Approval of the **[concerned Director(Technical) of the Subsidiary]**.

GM(Excv)
Subsidiary HQ

GM
Concerned Area

GM(Excv)/Incharge
Concerned Area

GM(Excv)/Incharge
Concerned Project

Note :

- In case of unsatisfactory performance also, an appropriate certificate / report in the above format should be put up to [concerned Director(Technical) of the Subsidiary].
- In case of more than one no. equipment in the Contract, the satisfactory / unsatisfactory certificate(s) as above should be compiled and put up for approval to [concerned Director(Technical) of the Subsidiary]



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BEML LIMITED

(A Govt of India Mini Ratna Company)
(Under Ministry of Defence)

To,
General Manager,
Material Management Department
Northern Coalfields Limited,
Panjreh Bhawan,
PO Singrauli Colliery,
Dist. Singrauli, MP -486889.

Sub: Authorization of all our payments through Electronic Fund Transfer system / RTGS / NEFT / LC.

Dear Sir,

We hereby authorize Northern Coalfields Ltd. to disburse all our payments through Electronic Fund Transfer system/RTGS/NEFT. The details for facilitating the payment are given below:

1. Name of the Party (beneficiary): **BEML LIMITED**

Regional Office Singrauli,
Post Box No. 5, Dist: Singrauli
City: Singrauli , PIN CODE: 486889
E-Mail ID : singrauli@rm.beml.co.in .
Permanent Account Number – AAACB8433D

2. Particulars of the bank account

Bank Name	State Bank Of India	Branch Name	Morwa
Branch Place	Morwa	Branch City	Singrauli
PIN Code	486889	Branch Code (IFSC)	SBIN0003767
MICR No.	486002516		
9 Digits code number appearing on the MICR Band of the cheque supplied by the Bank. Please upload Xerox copy of a cheque of your bank for ensuring accuracy of the bank name, branch name & Account number)			
RTGS CODE	SBIN0003767		
Account Type	Current account		
Account Number	10773219064 (only collection account)		



Regional Office; Post Box No.5; P.O. SINGRAULI COLLIERY, DIST. SINGRAULI (M.P.)
Tel : 07805-272668, 272260, 266334, 272318, 267392, Fax No. 272282
Email: singrauli@rm.beml.co.in, beml@rm.beml.co.in, bemlsingrauli@gmail.com & msm@rm.beml.co.in

अव महाराष्ट्रक (विपणन) / Dy. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 प्रतीक मंजिल, बेंगल सौधा / 2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मेच, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बेंगलूरु / BENGALURU - 560 027.




BEML LIMITED

(A Govt of India Mini Ratna Company)
(Under Ministry of Defence)

I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I/We would not hold the Northern Coalfields Limited responsible.

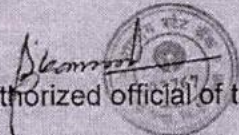
Date: (14/07/2020)


Signature of the Authorised Signatory

Certified that the particulars furnished above are correct as per our records

Bank's Stamp

Date (14/07/2020)

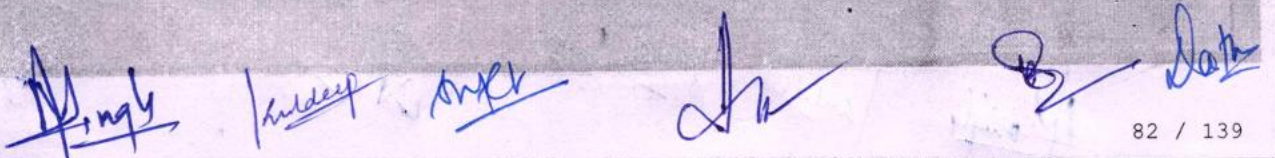

Signature of the authorized official of the Bank



श्री श्री कुमारे/Varaesh Kumar
ज्य महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
बी ई एम एल लिमिटेड / BEML LIMITED
2 इतीय मंजिल, बेंगल सोधा/2nd Floor, BEML Soudha
संख्या 23/1, चौथा मैज, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बेंगलूरु / BENGALURU - 560 027



Regional Office; Post Box No.5; P.O. SINGRAULI COLLIERY, DIST. SINGRAULI (M.P.)
Tel : 07805-272668, 272260, 266334, 272318, 267392, Fax No. 272282
Email : singrauli@rm.beml.co.in, bemisingrauli@gmail.com & mism@rm.beml.co.in



EFT MANDATE FORM
(Account/s Information form)

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING) / REAL TIME GROSS SETTLEMENT (RTGS)/ NATIONAL ELECTRONIC TRANSFER (NEFT) / INTRA BANK ACCOUNT TRANSFER FACILITY FOR RECEIVING PAYMENTS:

A. DETAILS OF ACCOUNT HOLDER:

NAME OF ACCOUNT HOLDERER / FIRM	BEML LIMITED
COMPLETE CONTACT ADDRESS	33, CEMENT ROAD, SHIVAJI NAGAR, NAGPUR - 440010
MOBILE NUMBER / PH NO	9423683399
E-MAIL	mn@beml.co.in

B. BANK ACCOUNT DETAILS:

ACCOUNT NAME (Name appearing in your Cheque Book)	BEML LIMITED
BRANCH NAME WITH COMPLETE ADDRESS,	STATE BANK OF INDIA, MAIN BRANCH NAGPUR, KINGSWAY, NAGPUR -440001
BRANCH CODE	00432
COMPLETE BANK ACCOUNT NUMBER (Please note that the Bank Account of the Beneficiaries (vendor) must be in the name of the Firm as appeared in the tender.	11172255258
IFSC CODE	SBIN0000432
TYPE OF ACCOUNT (SB/CURRENT/CASH CREDIT)	CURRENT ACCOUNT
MICR CODE OF BANK	440002002

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge responsibility expected or me as a participant under the scheme.



Rpaaljay
.....
Signature of Vendor



Date: 31.04.2022

Certified that the particulars furnished above are correct as per our records.



नरेश कुमार/Narash Kumar
अ महाप्रबंधक (विपणन) / Dy. General Manager(Marketing)
बीएमएल लिमिटेड / BEML LIMITED
2 प्रतीव मंजिल, बेमल सोध/2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मेन, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बेंगलूरु / BENGALURU - 560 027.



(Bank's Stamp)

.....
Signature of Authorized signatory of the Bank

Mangli

Kanday

Amek

dh

BB

Dak

(Amended)



Government of India
Form GST REG-06
[See Rule 10(1)]

Registration Certificate

Registration Number :29AAACB8433D1ZU

1.	Legal Name	BEML LIMITED			
2.	Trade Name, if any	BEML LTD			
3.	Constitution of Business	Public Sector Undertaking			
4.	Address of Principal Place of Business	23/1, 4th Main, BEML Soudha, S R Nagar, Bangalore, Bengaluru (Bangalore) Urban, Karnataka, 560027			
5.	Date of Liability	01/07/2017			
6.	Date of Validity	From	20/09/2017	To	NA
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority				
<i>Signature</i>					
Name					
Designation					
Office					
Date of issue of Certificate		04/07/2018			
Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.					



This is a system generated digitally signed Registration Certificate issued based on the deemed approval of application on



ATTESTED BY ME
S. VIJAYAKUMAR
Advocate & Notary
430/A, 8th Cross, 1st Block
Jayanagar, Bangalore - 560 011
Mob: 98860 63348



नरेश कुमार/Narsh Kumar
अधीक्षक (विपणन) / Dy. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मंज, एस.आर. नगर
No. 23/1, 4th Main, S.R. Nagar
बंगलुरु / BENGALURU - 560 027.

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]



Details of Additional Place of Business(s)

GSTIN 29AAACB8433D1ZU
 Legal Name BEML LIMITED
 Trade Name, if any BEML LTD
 Total Number of Additional Places of Business(s) in the State 9

Sr. No.	Address
1	Bangalore Complex, NEW THIPASANDRA POST, NEW THIPASANDRA, Bengaluru (Bangalore) Urban, Karnataka, 560075
2	Mysore Complex, KOORGAHALLI INDUSTRIAL AREA, BELAVADI, Mysuru (Mysore), Karnataka, 570018
3	KGF Complex, BEML NAGAR POST, K.G.F. BEML NAGAR, Kolar, Kolar, Karnataka, 563115
4	L 8 KSSIDC Industrial Estate, BHAGAT SINGH NAGA, NEW WARD 31, DAM Road, HOSPET, Ballari (Bellary), Karnataka, 583203
5	Unity Building, 5th Floor, J C Road, Bangalore, Bengaluru (Bangalore) Urban, Karnataka, 560002
6	23/1, Haudin Road Cross, Ulssor Road, Ulsoor, Bengaluru (Bangalore) Urban, Karnataka, 560008
7	Plot no 10 to 17, Bhattamaranahalli Village, Jalia Hobli, Aerospace SEZ Park, KIADB Rural, Devanahalli, Bengaluru (Bangalore) Rural, Karnataka, 560066
8	BMRCL Metro Train Depot, Near NGEF Signal, Baiyappanahalli, Old Madras Road, Bangalore, Bengaluru (Bangalore) Urban, Karnataka, 560038
9	BMRCL Metro Train Depot, Plot No 15, Peenya 1st Stage, Near Triveni Turbine, Bangalore, Bengaluru (Bangalore) Urban, Karnataka, 560058



ATTESTED BY ME
 S. VIJAYAKUMAR
 Advocate & Notary
 # 430/A, 8th Cross, 1st Block
 Jayanagar, Bangalore - 560 011
 Mob: 98860 63348



Naresh Kumar / Naresh Kumar
 अप महाप्रबन्धक (मिथलन) / Dy. General Manager (Marketing)
 बीएमएल लिमिटेड / BEML LIMITED
 2 तहवीत मंजिल, बंगलूर सोड्या / 2nd Floor, BEML Soudha
 संख्या. 23/1, चौथा मंजिल, एस.आर. नगर
 No. 23/1, 4th Main, S.R. Nagar
 बंगलूर / BANGALURU - 560 027.

Handwritten signatures and initials:
 S. Vijayakumar (Notary)
 Naresh Kumar (BEML)
 Other signatures: Anil, Vinod, Jm, B, Datta

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA

BEML LIMITED



11/05/1964

Permanent Account Number

AAACB8433D

30027/1



ATTESTED BY ME
S. VIJAYAKUMAR
Advocate & Notary
43/1A, 8th Cross, 1st Block
Jayanagar, Bangalore - 560 011
Mob: 98860 63348



[Handwritten signature]

श्री. सुभाष/ivaresh Kumar
महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 इलाहाबाद भवन, 2nd Floor, BEML Soudha
संख्या. 23/1, चौथा बंगला, एस.आर. नगर
No. 23/1, 4th Main, S.R. Nagar
बैंगलूरु / BENGALURU - 560 027.



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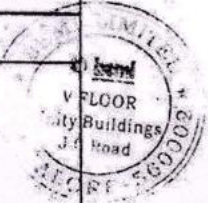
(Amended)

Government of India
Form GST REG-06
(See Rule 10(1))

Registration Certificate

Registration Number :23AAACB8433D1Z6

1.	Legal Name	BEML LIMITED			
2.	Trade Name, if any	BEML LIMITED			
3.	Constitution of Business	Public Sector Undertaking			
4.	Address of Principal Place of Business	PB NO 5, BEML LIMITED, JHINGURDA, SINGRAULI COLLIERY, Singrauli, Madhya Pradesh, 486889			
5.	Date of Liability	01/07/2017			
6.	Date of Validity	From	15/09/2017	To	NA
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority				
Madhya Pradesh Goods and Services Tax Act, 2017 नरेश कुमार / NARESH KUMAR उप महाप्रबंधक (विपणन) / Dy. General Manager (Marketing) बीईएमएल लिमिटेड / BEML LIMITED 4 वॉ तल, यूनिटी बिल्डिंग्स, जे.सी. रोड 4th Floor, Unity Buildings, J.C. Road बेंगलूरु / BENGALURU - 560 002.					
Signature					
Name	GANESH SINGH KANWAR				
Designation	Deputy Commissioner of State Tax				
Jurisdictional Office	Baidhan (Sidhi)				
9. Date of issue of Certificate	27/08/2018				
# 430/A, 8th Cross, 1st Block, Jayanagar Bengaluru-560 044. Mob: 98860 63348					
Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.					



ATTESTED BY ME
S. VIJAYAKUMAR
Advocate & Notary
430/A, 8th Cross, 1st Block, Jayanagar
Bengaluru-560 044. Mob: 98860 63348

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Details of Additional Place of Business(s)

Annexure A

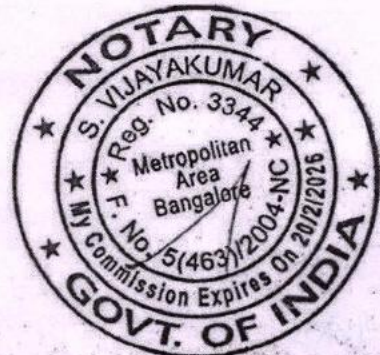
GSTIN 23AAACB8433D1Z6
 Legal Name BEML LIMITED
 Trade Name, if any BEML LIMITED
 Total Number of Additional Places of Business(s) in the State 2

- | Sr. No. | Address |
|---------|--|
| 1 | BEML ERECTION SITE, AMLOHRI, BEML ERECTION SITE OF BH205E, BH205E ERECTION and COMMISSION SITE, AMLOHRI, Singrauli, Madhya Pradesh, 486887 |
| 2 | BEML LIMITED, H/O VARSHA SHUKLA, WARD NO 14, CHOPRA COLONY, MAIHAR, Satna, Madhya Pradesh, 485771 |



नरेश कुमार / NARESH KUMAR
 व्यवसाय प्रबंधक (विपणन) / Dy. General Manager (Marketing)
 बीईएमएल लिमिटेड / BEML LIMITED
 4 वां तल, यूनिटी बिल्डिंग्स, जे.सी. रोड
 4th Floor, Unity Buildings, J.C. Road
 बंगलूरु / BENGALURU - 560 002.

ATTESTED BY ME
S. VIJAYAKUMAR
 Advocate & Notary
 # 430/A, 8th Cross, 1st Block, Jayanagar
 Bangalore-560 011. Mob: 98860 63348





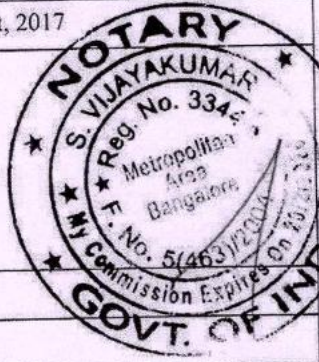


(Amended)


Government of India
Form GST REG-06
[See Rule 10(1)]

Registration Certificate

Registration Number :27AAACB8433D1ZY

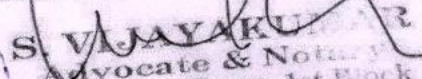
1.	Legal Name	BEML LIMITED			
2.	Trade Name, if any	BEML LIMITED			
3.	Constitution of Business	Public Sector Undertaking			
4.	Address of Principal Place of Business	MAMIDWAR TILES FACTORY COMPOUND, MAMIDWAR TILES FACTORY COMPOUND, GHUGUS ROAD, PADOLI, Chandrapur, Maharashtra, 442406			
5.	Date of Liability	01/07/2017			
6.	Date of Validity	From	01/07/2017	To	Not Applicable
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority	Centre Goods and Services Tax Act, 2017			
Signature					
					
Name		Chandra Prakash			
Designation		Superintendent			
Jurisdictional Office		CHANDRAPUR_704			
9. Date of issue of Certificate		27/06/2021			
Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.					

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 27/06/2021 by the jurisdictional authority.


नरेश कुमार NARESH KUMAR
Dy. General Manager (Mktg.)
बी.ई.एम.एल. लिमिटेड BEML Limited
5 वें मंजिल, यूनैटी बिल्डिंग्स, जे. सी. रोड
5th Floor, Unity Building, J.C. Road,
बेंगलूरु BENGALURU - 560 002.



ATTESTED BY ME


S. VIJAYAKUMAR
Advocate & Notary
430/A, 8th Cross, 1st Block
Jayanagar, Bangalore - 560 011
Mob: 98860 63348


89 / 139



Details of Additional Place of Business(s)

GSTIN 27AAACB8433D1ZY
 Legal Name BEML LIMITED
 Trade Name, if any BEML LIMITED

Total Number of Additional Places of Business(s) in the State 7

- | Sr. No. | Address |
|---------|--|
| 1 | 33, BEML LIMITED, CEMENT ROAD, SHIVAJI NAGAR SHANKAR NAGAR, Nagpur, Maharashtra, 440010 |
| 2 | 84, 1ST FLOOR, RAJMAHAL BUILDING, V.N.ROAD, CHURCHGATE, Mumbai City, Maharashtra, 400020 |
| 3 | A 100, ADDITIONAL AMBARNATH, ANAND NAGAR, MIDC AMBARNATH EAST, Thane, Maharashtra, 421506 |
| 4 | BEML LIMITED, 56 APO, BEML LIMITED CENTRAL ORDINANCE FACTORY, DEHU ROAD, PUNE, Pune, Maharashtra, 412101 |
| 5 | 32A, BEML HOUSE, BAZAAR ROAD BANDRA West, MUMBAI, Mumbai Suburban, Maharashtra, 400050 |
| 6 | MMRDA CHARKOP METRO DEPOT, BEHIND ATHARVA COLLEGE, MALAD - MARVE ROAD, MUMBAI WEST, Mumbai City, Maharashtra, 400095 |
| 7 | MMRDA MANDALE METRO DEPOT, NEAR MAHARASHTRA NAGAR, NEAR MAHARASHTRA NAGAR, MANKHURD EAST, Mumbai City, Maharashtra, 400088 |



नरेश कुमार NARESH KUMAR
 Dy. General Manager (Mktg.)
 बीईएमएल लिमिटेड BEML Limited
 5 वें मंजिल, युनिटी बिल्डिंग्स, जे. सी. रोड
 5th Floor, Unity Building, J.C. Road,
 बेंगलूरु BENGALURU - 560 002.

ATTESTED BY ME
 S. VIJAYAKUMAR
 Advocate & Notary
 # 430/A, 8th Cross, 1st Block
 Jayanagar, Bangalore - 560 011
 Mob: 98860 63348



[Signature]

[Signature]

[Signature]

[Signature]

Annexure to Technical Specifications



Amish
Amish
Kuldeep

[Signature]
[Signature]
Datta

STANDARD TOOL LIST SUPPLIED ALONG WITH EACH EQUIPMENT

Model : BD46W-1 Wheel Dozer

SI No	Part Number	Description	Qty	UOM
1	030104001000	FEELER GAUGE SET	1	NO
2	110TI00111	DOUBLE END SPANNER SET	1	NO
3	110TI02007	TOOL BOX	1	NO
4	190900000100	STAR SCREW DRIVER 2X100	1	NO
5	520900000201	GREASE PUMP WITH NOZZLE	1	NO
6	520900000520	HAMMER	1	NO
7	520900000801	HYDROMETER	1	NO
8	520900000920	PINCH BAR	1	NO
9	520900050000	OILER (OIL CAN)	1	NO
10	520900060000	COMBINATION PLIER	1	NO
11	520900070001	SCREW DRIVER 6X75 mm	1	NO
12	520900080000	SCREW DRIVER LARGE 8X150MM	1	NO
13	885009000001	BI- HEX SOCKET SET	1	NO
14	008000925895	EXTENSION FOR GREASING UNIVERSAL JOINT	1	NO
15	030101016100	SINGLE END SPANNER	1	NO
16	030102018100	SOCKET 36mm	1	NO
17	0901908035	WRENCH FILTER	1	NO
18	340901000530	SLIDING HANDLE 3/4" SQ.DR	1	NO
19	380TI11004	GAUGE	1	NO
20	520900090000	WRENCH	1	NO
21	724300020000	EXTENSION BAR	1	NO
22	7455590505	LOCK; 6 LEVERS WITH 2KEYS	1	NO
23	CTS0113043	20 MM SQ.DRIVE,BI-HEX SOCKET 30MM	1	NO



नरेश कुमार/Naresh Kumar
 व. महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
 बी.एम.एस.एल. लिमिटेड / BEML LIMITED
 २ इतीर मंजिल, बेमल सूधा/2nd Floor, BEML Soudha
 संख्या. 23/1, चौथा फेरा, एन.आर. नगर
 No. 23/1, 4th Main, S.R. Nagar
 बेंगलूरु / BENGALURU - 560 027.

Mingh

Kindeep

Amel

Am

BS

Sathu

SPECIAL TOOL/ ELECTRONIC DIAGNOSTIC TOOL

Model : BD46W-1 Wheel Dozer

SI No	Description	Qty	For project
1	Laptop and Accessories with compitable software	1	Nigahi OCP, NCL
		1	Gondegaon OCP WCL

(Handwritten signature)

नरेश कुमार/Naresh Kumar
 उपाय महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
 बीईएल लिमिटेड / BEML LIMITED
 2 वरीय मजिल, बेमल सोड्या/2nd Floor, BEML Soudha
 संख्या. 23/1, चौथा मंच, एस.आर. नगर
 No. 23/1, 4th Main, S.R.Nagar
 बेंगलूरु / BENGALURU - 560 027.



(Handwritten signatures)

(Handwritten signatures)

Ref: MT: TC-1690/CIL(BD46W-1)

Date:18-04-2025

Bid Number - GEM/2024/B/5721648 dtd 19-12-2024

TOOLS UNDERTAKING

We hereby certify that that the tools offered are sufficient and as per requirement for repair and maintenance of the offered equipment as per Clause D.9.1, General (b), Section VI Technical Specifications of the NIT. Any other tool if required over and above the list of comprehensive tool kit shall be provided by the bidder at no cost to purchaser during the contract period.

Date: 18-04-2025



(Signature of the Bidder)

ನರೇಶ್ ಕುಮಾರ್/Nareesh Kumar
ಉಪ ಮಹಾಪ್ರಾಂಶುಕ (ವಿಪಣನ) / Dy. General Manager(Marketing)
ಬಿಇಎಂಎಲ್ ಲಿಮಿಟೆಡ್ / BEML LIMITED
2ನೇ ಹಂತ, ಬೆಂಗಳೂರು ಸೌಧಾ/2nd Floor, BEML Soudha
ಸಂಖ್ಯೆ. 23/1, 4ನೇ ಮುಖ್ಯ, ಎಸ್.ಆರ್. ನಗರ
No. 23/1, 4th Main, S.R.Nagar
ಬೆಂಗಳೂರು / BENGALURU - 560 027.



ಪ್ರಧಾನ ಕಛೇರಿ: ಬೆಂಗಳೂರು ಸೌಧ, 23/1, ನಾಲ್ಕನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಸಂಪಂಗಿರಾಮನಗರ, ಬೆಂಗಳೂರು - 560027

Corporate Office: BEML SOUDHA, 23/1, 4th Main, S.R. Nagar, Bengaluru - 560027,

e-mail: coord@beml.co.in @cmdbeml @BEMLHQ

CIN: L35202KA1964GO1001530 | GST No. 29AAACB8433D1ZU | www.bemlindia.in

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Annexure (b)



MAJOR BOUGHTOUT ITEMS

Model: BD46W-1 Wheel Dozer

Sl. No	Description	Type/Model	Make	Address
1	Engine	X15-FR11864	M/s Cummins	CUMMINS INDIA, KOTHRUD, PUNE - 411038
2	Torque Converter	CL8672	M/s Dana	Mis Dana, Ten Briele 3 Brugge, Flanders 8200, Belgium
3	Transmission	8420H	M/s Dana	M/s Dana, Ter. Briele 3 Brugge, Flanders 8200, Belgium
4	Axle, Front	53R300-D	M/s Dana	M/s Dana, 2400 Sagamore Pkwy S, Lafayette, IN 47905, USA
5	Axle, Rear	53R300-D	M/s Dana	M/s Dana, 2400 Sagamore Pkwy S, Lafayette, IN 47905, USA
6	Wheel Assy (Rim)	28x3.5	M/s. Wheels India	WHEELS INDIA LTD, SINGAPERUMAL KOLI ROAD, PONDUR VILLAGE, SURVEY NO 449/A1, SRIPERUMPUDUR. CHENNAI
7	Air Condition System	----	Millennium Red dot Pvt. Ltd.	MILLENNIUM RED DOT PVT. LTD., MAHADEVAPURA, 3RD CROSS, ITI INDUSTRIAL ESTATE, BENGALURU-48
8	Auto Fire Detection Suppression System	Zone Specific	M/s. SOUTHERN ELECTRONICS	SOUTHERN ELECTRONICS (BANGALORE) PVT LTD, 16-A, PEENYA INDL AREA, PHASE-I, BENGALURU-560058
9	Tyre	35/65-33 24PRL5	M/s. JK Tyre	JK TYRE & INDUSTRIES LIMITED, Vikrant Tyre Plant - 1, Krs Road, Metagalli, Mysore- 570016
10	Battery	02 X 12 V, 160AH	M/s. HBL POWER SYSTEMS LTD	HBL Power Systems Ltd, Hyderabad.
11	Final Drive	Planetary	M/s DANA	M/s Dana, 2400 Sagamore Pkwy S, Lafayette, IN 47905, USA
12	Starter	39MT-HD	M/s Delco Remy	CUMMINS INDIA, KOTHRUD, PUNE - 411038
13	Starter Control	4ST Relay	M/s. TVS	TVS, India
14	Alternator	28SI	M/s. Delco Remy	CUMMINS INDIA, KOTHRUD, PUNE - 411038

General Manager/Marketing
BML LIMITED
No. 560027, Bengaluru - 560027

Amish

Kuldeep



[Signature]

[Signature]

Oil & Lubricant Chart

Annexure (c)



Model: BD46W-1 Wheel Dozer

SL NO	RESERVOIR	GRADE OF OIL	PART NO.	REFILL CAPACITY (LITERS)		PRODUCT NAME				
				INITIAL 500 HRS	EVERY	BEML	IOCL	HPCL	BPCL	
1	ENGINE OIL	SAE 15W40 CI4 PLUS	C600230002	Change	250	E15W-40 CI-4/CI-4 Plus	SERVO PRIDE XL PLUS 15W-40 (CI-4 Plus)	PMILCY NO.1 PLUS 15W40 (CI4/CI4 Plus) (BM)	MAK CI4 PLUS 15W-40	
2	TORQUE CONVERTER	SAE40	C600245000	Change	1000	T15W40	POWER OIL TRNSMISSION TO 4M FLUID 15W-40			
3	TRANSMISSION OIL	SAE40	C600245000	Change	1000					
4	FRONT & REAR AXLE	85W140	C600247000	Change	1000	G85W-140 Gear Oil (GL-5)	Servo Gear Super 85W-140 (GL-5)	HP Gear Oil 85W-140	MAK Spirol HD85W-140	
5	HYDRAULIC OIL	SAE10	C600202001	Change	1000	BEML Hyd. Oil H 10	Servo Ultra 10W	HP HYLUBE X3-10W (BM)	MAK HYDROL ULTRA 10W	
6	GREASE FOR JOINTS	NLGI EP2	C600304000	Change	As when required	C600304000	Servo GEM EP2	HP Lithon EP2	MAX Lanthax EP2	



श्री कृष्ण / NARESH KUMAR
 अप मर्यादा (विपणन) / Dy. General Manager (Marketing)
 बीएमएल लिमिटेड / BEMAL LIMITED
 4 वां मं, युनिटी बिल्डिंग, सी.सी. रोड
 4th Floor, Unity Buildings, J.C. Road
 बंगलूरु / BENGALURU - 560 002.



[Handwritten signatures and initials]

Annexure-E

ANNUAL CONSUMPTION OF OIL & LUBRICANTS

Model: BD46W-1 Wheel Dozer

SL. NO	RESERVOIR	GRADE OF OIL	PART NO	FREQUENCY OF CHANGE	REFILL CAPACITY IN LITRES	ANNUAL CONSUMPTION IN LITRES
1	ENGINE OIL	SAE 15W40 CI4 PLUS	C600230002	250	52	1050
2	TORQUE CONVERTER	SAE40	C600245000	1000	13.2	240
3	TRANSMISSION OIL	SAE40	C600245000	1000	37	
4	FRONT & REAR AXLE	85W140	C600247000	1000	122	630
5	HYDRAULIC OIL	SAE10	C600202001	1000	181	840
6	GREASE FOR JOINTS	NLGI EP2	C600304000	As when required		

नरेश कुमार/Naresh Kumar
 Dy. General Manager (Marketing)
 बीएमएल लिमिटेड / BEML LIMITED
 2nd Floor, BEML SOUDHA
 संख्या. 23/1, चौथा मंज, एस.आर. नगर
 No. 23/1, 4th Main, S.R. Nagar
 बंगलूरु / BENGALURU - 560 027.



Handwritten signatures and initials:
 - Top left: *ms*
 - Middle left: *Syler*
 - Bottom left: *Amish*
 - Bottom center: *Kudrey*
 - Bottom right: *BB*
 - Far right: *Datta*



QUALITY ASSURANCE PLAN

MODEL:BD46W-1 WHEELDOZER
 CLIENT: M/s BEML LIMITED
 ORDER REF:
 CUSTOMER:
 DOC NO: BD46W-1/QP 00000-QE
 Issue: 00

SL NO	COMPONENT	CHARACTERISTICS/ PARAMETER	NATURE OF CHECK	QUANTITY OF CHECK	ACCEPTANCE STANDARD	RECORDING FORMAT	INSPN. AGENCY		INSPECTION OBSERVATION	
							PERF	WIT VERIFY		
A	EQUIPMENT	Model	Visual	100%	As per order /BEML Technical specifications	EQUIPMENT INSPECTION CERTIFICATE	2	-- 1		
		Equipment Si. No.					2	-- 1		
		Chassis Si. No.					2	-- 1		
B	ENGINE	Engine Si. No.	Visual	100%	As per order / BEML Technical specifications	EQUIPMENT INSPECTION CERTIFICATE	2	-- 1		
		Model					2	-- 1		
C	TRANSMISSION	Rated Power	Visual	100%	As per order / BEML Technical specifications	EQUIPMENT INSPECTION CERTIFICATE	2	-- 1		
		Type					2	-- 1		
D	PRELIMINARY CHECKS	Transmission Si. No.								
1	Oil/Engine coolant levels	a) Hyd. Tank	Visual	100%	BEML assembly STDS/Acceptance norms (Dip stick, level gauge)	CHECK SHEET	2	1	---	
		b) Fuel tank								
		c) Engine								
		d) Transmission								
		e) Axle								
		f) Radiator								
2	Engine RPM	a) Hi Idle	Tachometer /Display	100%	As per spec /BEML acceptance Norms	CHECK SHEET	2	1	---	
		b) Low Idle.								
3.	Greasing	All Joints	Visual	100%	Sufficient Greasing	CHECK SHEET	2	1	---	



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श्री श्री सुनील/Naresh Kumar
 ज्य. प्रबन्धक (शिकायत) / Dy. General Manager/Marketing
 बीएमएल लिमिटेड / BEML LIMITED
 2 एडिफ इण्डिया, 23/2, चौथा मंज, वरर शि. 777
 No. 23/1, 4th Main, S.R. Nagar
 बंगलूरु / BENGALURU - 560 077

SL NO	COMPONENT	CHARACTERISTICS / PARAMETER	NATURE OF CHECK	QUANTITY OF CHECK	ACCEPTANCE STANDARD	RECORDING FORMAT	INSPN. AGENCY		INSPECTION OBSERVATION
							PERF	WIT	
E	PERFORMANCE CHECKS								
1	Control of work attachment	a) Performance & smooth control of work attachment with joy stick	Visual	100%	Smooth operation/working	CHECK SHEET	2	1	---
		b) Steering operation	Visual				2	1	---
		c) Operation of Blade	Visual				2	1	---
2	Gear shifting	Gear shifting function	Function	100%	Smooth operation/working	CHECK SHEET	2	1	---
3	Service brake	Effectiveness	Function	100%	As per Technical BEML specification/Working	CHECK SHEET	2	1	---
4	Parking brake	Effectiveness	Function	100%			2	1	---
5	Electricals/Gauges	Fimnet & functioning of gauges, warning mechanism, lamps	Visual	100%	As per order scope/ BEML Technical specifications	CHECK SHEET	2	1	---
6	Painting & General aesthetics	Exterior & interior General aesthetics	Visual	100%	As Per BEML acceptance norms /std	CHECK SHEET	2	-	1



The QAP meets the requirements of ISO9001-2015 Quality Management System Standard.

PERF: Perform WIT: Witness 1 - Customer 2 - BEML

APPROVED BY	NAME & DESIGNATION	SIGNATURE	DATE
	R. RAMESH DGM - CORPORATE QUALITY		12.10.2022

आर रमेश / R Ramesh
 Deputy General Manager (Quality)
 संपूर्ण गुणवत्ता / Corporate Quality
 नारायण प्रसाद/Naresh Kumar
 Dy. General Manager (Marketing)
 श्री सुप्रभास लिमिटेड / BEML LIMITED
 2 मंजूर मंजूर 2nd Floor, BEML, Southa
 स्टेशन: 23/1, चौथा मंजूर, एच.आर. नगर
 No. 23/1, 4th Main, S.R.Nagar
 बंगलूरु / BENGALURU - 560 027.



Annexure (e)

Feb 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Cummins **QSX 15** Engine having engine performance data sheet no with FR11864 suitable for BD46W-1 application is capable of meeting the EU Stage III Exhaust emission norm.

For Cummins India Limited

Abhijeet Tapkir



Dy. General Manager



नरेश कुमार / Naresn Kumar
अप महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 इतीय मंजिल, बेमल सोधा / 2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मंज, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बेंगलूरु / BENGALURU - 560 027

Cummins India Limited
Registered office
Cummins India Office Campus,
Tower A, 5 th Floor, Survey No. 21, Balewadi,
Pune - 411 045, Maharashtra, INDIA.
Phone +91 20 67067000, Fax: +91 20 67067015
Cumminsindia.com
cil.investors@notes.cummins.com



CIN: L29112PN1962PLC012276

Page 1 of 1

Ref: MT: TC-1690/CIL(BD46W-1)

Date:18-04-2025

To
Coal India Limited,
Coal Bhawan, Premises No. 4,
Action Area IA, New Town, Rajarhat,
Kolkata-700 156, India

Dear Sir,

Sub: Engine Emission Norms

Ref: 1. Bid Number - GEM/2024/B/5721648 dtd 19-12-2024

We M/s.BEML LIMITED undertake that Cummins Engine QSX15 in our Offered equipment model BD46W-1 Wheel Dozer is capable of meeting the EU Stage IIIA exhaust emission norms and it is superior to EPA Tier II Norms.

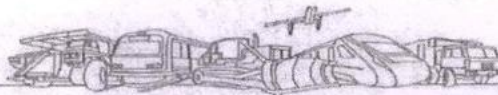
Thanking you,

Yours faithfully,

For BEML LIMITED

(Authorized Signatory)

नरेश कुमार/Naresh Kumar
उप महाप्रबंधक (विपणन) / Dy. General Manager(Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 वरीय मंजिल, बेमल सोड्हा/2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मैण, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बेंगलूरु / BENGALURU - 560 027.



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Corporate Office: BEML SOUDHA, 23/1, 4th Main, S.R. Nagar, Bengaluru - 560027,

e-mail: coord@beml.co.in @cmdbeml @BEMLHQ

CIN: L35202KA1964GO1001530 | GST No: 29AAACB8433D1ZU | www.bemlindia.in

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TECHNICAL DESCRIPTION OF AFPS FOR BD46W-1 WHEEL DOZER

Heavy Duty vehicles used on off-road application requires Fire Protection System to save,

- Costly Vehicle Replacement
- Costly Down Time
- Safety of Operator

The system is pre-engineered system and consist of a pressurised container to store the dry chemical extinguishing agent, an actuation device to expel the dry chemical and a delivery system consisting of flexible hoses and fixed nozzles to transport the dry chemical to the fire hazard area.

Fire suppression system is equipped with Automatic fire Detection & System Actuation. System includes monitoring control panel which indicate suppression system status and audible alarm. System includes test feature with back-up battery. Actuation , may be manual or automatic, at the user's option.

A thermistor strip fire sensing wire is routed all around all around the equipment to detect fire. In case of fire, both audio alarm and indicator will be activated and control unit actuates the squib/solenoid valve after 30 seconds time delay and pressurized nitrogen gas gets released an flows into DCP cylinder. Then the extinguisher powder flows out through high pressure hoses gets distributed to various locations through nozzles flooding the fire prone areas. The extinguishing agent is a Dry Chemical Powder suitable for extinguishing 'A', 'B' & 'C' class fires. The power is not conductive physiologically inert and non-abrasive.

Layout diagram is enclosed.



नरेश कुमार/Naresh Kumar
 उप महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
 बीईएमएल लिमिटेड / BEML LIMITED
 2 त्तरीय मंजिल, बेमल सूडहा / 2nd Floor, BEML Soudha
 संख्या. 23/1, चौथा मैज, एस.आर. नगर
 No. 23/1, 4th Main, S.R.Nagar
 बेमलूरु / BENGALURU - 560 027.



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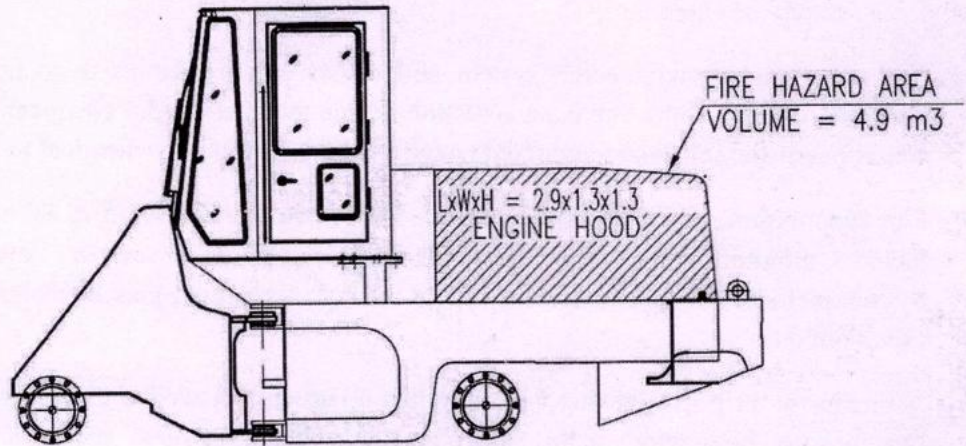
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BD46W-1 WHEEL DOZER
AUTO FIRE DETECTION AND SUPPRESSION SYSTEM



TECHNICAL SPECIFICATIONS :

1. **FIRE EXTINGUISHING MATERIAL :** MONO AMMONIUM PHOSPHATE BASED SILICONISED DRY CHEMICAL POWDER WITH CO₂/NITROGEN GAS AS EXPELLENT GAS (APPROVED BY RECOGNISED AUTHORITIES IDENTIFIED BY DGMS).
2. **QTY :** min.10 kg
3. **TYPE OF ACTUATION :** AUTOMATIC TYPE IN CASE IF AUTOMATIC SYSTEM FAILS THERE SHOULD BE A PROVISION FOR MANUAL ACTUATION & IT SHOULD BE PLACED SUITABLY, SUCH THAT IT CAN BE ACCESSED EASILY FROM GROUND
4. **No. OF NOZZLES :** 06 (MIN.)
5. **AMBIENT TEMP. OF WORKING :** -50 TO +75 DEG C WITH UP TO 98% HUMIDITY.
6. **DURATION OF FIRE SUPPRESSION :** 10 SEC
7. **DETECTION OF FIRE :** LINEAR HEAT DETECTION CABLE 180° C UL/ FM LISTED.



नरेश कुमार/Naresh Kumar
 उप महाप्रबंधक (विपणन) / Dy. General Manager(Marketing)
 बीईएमएल लिमिटेड / BEML LIMITED
 2 हवीर मॉडिल, बेमल सोडा/2nd Floor, BEML Soudha
 संख्या. 23/1, चौथा मंच, वरर.आर. नगर
 No. 23/1, 4th Main, S.R.Nagar
 बेंगलुरु / BENGALURU 560 027.



Ample

Kandarp

[Signature]

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Ref: MT: TC-1690/CIL(BD46W-1)

Date:18-04-2025

To
Coal India Limited,
Coal Bhawan, Premises No. 4,
Action Area IA, New Town, Rajarhat,
Kolkata-700 156, India

Dear Sir,

Sub: Undertaking for AFDSS

Ref: 1. Bid Number - GEM/2024/B/5721648 dtd 19-12-2024

We hereby undertake that a valid Test Certificate (valid as on the date of commissioning of the equipment at site) shall be submitted at the time of supply of equipment along with other documents, for AFDSS including materials and chemicals used in fire suppression system from any Government or Government approved Laboratory in compliance with relevant Indian Standards as per DGMS (Approval) Circular No. 02 dated 08th July 2013.

Date: 18-04-2025

(Signature of the Bidder)



नरेश कुमार/Naresh Kumar
अप महाप्रबंधक (विपणन) / Dy. General Manager[Marketing]
बीईएमएल लिमिटेड / BEML LIMITED
2 कठोर मंजिल, बेंगल सौधा/2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मैज, एस.आर. नगर
No. 23/1, 4th Main, S.R. Nagar
बेंगलूरु / BENGALURU - 560 027.

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Corporate Office: BEML SOUDHA, 23/1, 4th Main, S.R. Nagar, Bengaluru - 560027,

e-mail: coord@beml.co.in @cmdbeml @BEMLHQ

CIN: L35202KA1964GO1001530 | GST No: 29AAACB8433D1ZU | www.bemlindia.in

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Sl. No.	Particulars	BEML Reply
xii	All drive motors/ Transformer vital parameters (If applicable)	Agreed
xiii	Other Health monitoring parameters as applicable. This system shall have suitable memory capacity to store above measured data in batch form for at least one month period and shall have suitable port to download these data to a laptop / data storage system.	Agreed
A	Alert audio messages to be given to Dozer Operators for the following events: a. In the case of operator exceeds pre-defined maximum speed. b. In the event of any equipment travelling in opposite direction falls in line. c. Fire warning to operator and to control room in case of catching fire.	Agreed
B	The supplier shall provide the following: There has to be one integrated single online port for capturing all the vital data.	Agreed
C	The equipment should have a suitable licensed, on line, real time, monitoring interface facility compatible for GPS based transfer of equipment data to third party equipment management system.	Agreed
D	The real time interface telemetry port will be provided in the equipment	Agreed
E	All the data shall be available in the individual form through single port and its communication protocol must be as per global standards.	Agreed
F	There shall be no additional requirement of any data converter for data capturing like Analog to Digital and vice-versa etc.	Agreed
G	There shall be integrated on board data management system as explained at point no.3 as above.	Agreed
H	The system should have an On Board Display Self-diagnostic & error alarm features.	Agreed
I	Permission to third party for interfacing, data collection through online port.	Agreed
J	Signing of Non-disclosure agreement to protect intellectual property right on either side.	Agreed
K	To provide full technical support to third party vendor for interpretation and defining parameters for individual alarm to monitor equipment vital data. The HEMM equipment supplier should provide access to data as required by end user without any financial implication to third party.	Agreed



Amulya
Amulya



[Signature]

[Signature] *Date*

1435, 3rd Floor, Narresh Kumar
Sankar Das (Director) / Dy. General Manager (Marketing)
Bengaluru Office / BEML LIMITED
2nd Floor, Videocon Building, Bengaluru
No. 23/1, 4th Main, S.R. Nagar
Bengaluru - 560 027.

Ref: MT: TC-1690/CIL(BD46W-1)

Date: 18-04-2025

Bid Number - GEM/2024/B/5721648 dtd 19-12-2024

TECHNICAL DETAILS OF FIRE EXTINGUISHER

Make: Southern Electronics

Capacity: 6 KG

Comply Indian Standard IS: 15683 with latest amendment.

Date: 18-04-2025

(Signature of the Bidder)



नरेश कुमार/Narash Kumar
उप महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 तवीय मंजिल, बेमल सूडहा/2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मेय, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बेंगलूरु / BENGALURU - 560 027.



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Corporate Office: BEML SOUDHA, 23/1, 4th Main, S.R. Nagar, Bengaluru - 560027,

✉ e-mail: coord@beml.co.in ✉ @cmdbeml 📱 @BEMLHQ

CIN: L35202KA1964G01001530 | GST No. 29AAACB8433D1ZU | 🌐 www.bemlindia.in

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

Ref: MT: TC-1690/CIL(BD46W-1)

Date:18-04-2025

To
Coal India Limited,
Coal Bhawan, Premises No. 4,
Action Area IA, New Town, Rajarhat,
Kolkata-700 156, India

Dear Sir,

Sub: Undertaking for Fire Extinguisher

Ref: 1. Bid Number - GEM/2024/B/5721648 dtd 19-12-2024

We hereby undertake that a valid Test Certificate (valid as on the date of commissioning of the equipment at site) shall be submitted at the time of supply of equipment along with other documents, for Fire Extinguishers, including Materials and Chemicals used in fire extinguisher from any Government or Government approved Laboratory in compliance with relevant Indian Standards as per DGMS Circular No. DGMS (Approval) Circular No. 02 dated 08th July 2013

Date: 18-04-2025

(Signature of the Bidder)



ನರೇಶ್ ಕುಮಾರ್ / Naresh Kumar
ಉಪ ಮಹಾಪ್ರबंधक (विपणन) / Dy. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 प्रतीक भवन, बीएमएल सोड्डा / 2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मंज, एस.आर. नगर
No. 23/1, 4th Main, S.R. Nagar
बंगलूरु / BENGALURU - 560 027.



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Corporate Office: BEML SOUDHA, 23/1, 4th Main, S.R. Nagar, Bengaluru - 560027,

e-mail: coord@beml.co.in @cmdbeml @BEMLHQ

CIN: L35202KA1964GO1001530 | GST No. 29AAACB8433D1ZU | www.bemlindia.in

Ref: MT: TC-1690/CIL(BD46W-1)

Date:18-04-2025

Bid Number - GEM/2024/B/5721648 dtd 19-12-2024

SAFETY FEATURES UNDERTAKING

We hereby undertake that offered equipment **BD46W-1 Wheel Dozer** will comply all safety provisions as per Govt. Of India Gazette notification no. Z-20045/01/2018/S&T (HQ) dated 01.10.2018, DGMS Circular No. DGMS (Tech) Circular No. 06 of 2020 Dhanbad dated 27.02.2020 and subsequent amendments, if any

Date: 18-04-2025

(Signature of the Bidder)



नरेश कुमार/Naresh Kumar
उप महाप्रबंधक (विपणन) / Dy. General Manager(Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 वीं मंजिल, बंगल सौधा/2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मंज, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बंगलुरु / BENGALURU - 560 027.



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Corporate Office: BEML SOUDHA, 23/1, 4th Main, S.R. Nagar, Bengaluru - 560027,

✉ e-mail: coord@beml.co.in ✖ @cmdbeml 📺 @BEMLHQ

CIN: L35202KA1964GO1001530 | GST No. 29AAACB8433D1ZU | 🌐 www.bemlindia.in

Amish *Kundey* *Amish*

Amish

Amish *Amish*

Annexure (i)

DESCRIPTION OF CENTRALISED AUTO LUBRICATION SYSTEM FOR BD46W WHEEL DOZER

The centralized lubrication system consists of a multi-line grease pump with Injector Manifolds, timer, tubing's & fittings.

The grease pump unit supplies lubricant under high pressure to the lubricant Injectors Manifolds on which the injectors are mounted. The pump unit consists of electricity driven motor with reservoir incorporating a string devise with fixed paddle, high-pressure pump element and safety valve. The stirring device forces the lubricant filled in the reservoir into the suction ports of the pump elements through Lubricant filter, which delivers the lubricant under pressure to the Injectors fitted on the manifolds and in turn distributes to the various lube points.

Following are the major components of the centralized system fitted on **BD46W WHEEL DOZER**

1. Pump
2. Cross Junction Block
3. Refilling Kit
4. Lubricant Filter
5. Injectors :
6. Lubricant – No.2 Lithium Grease

General layout of the system in enclosed.

=====



नरेश कुमार/Naresh Kumar
अव महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
बीएमएल लिमिटेड / BEML LIMITED
2 प्रतीय मंजिल, बंगल सोध/2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मेज, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बंगलुरु / BENGALURU - 560 027

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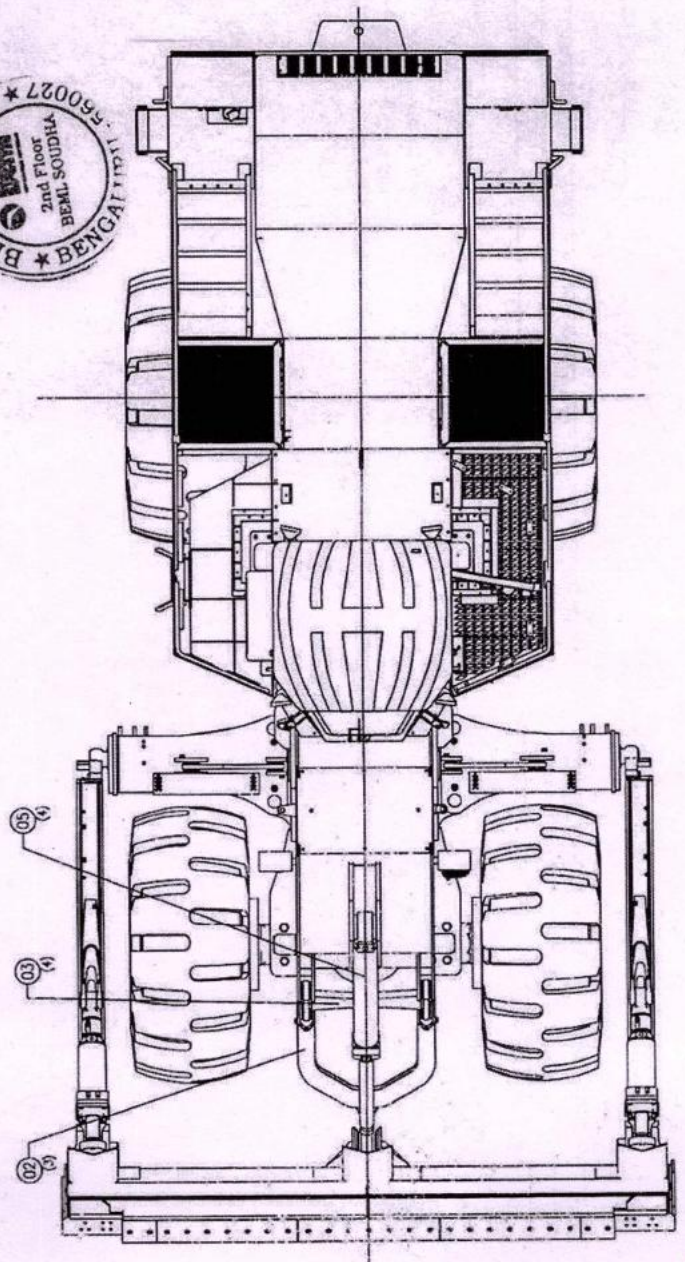
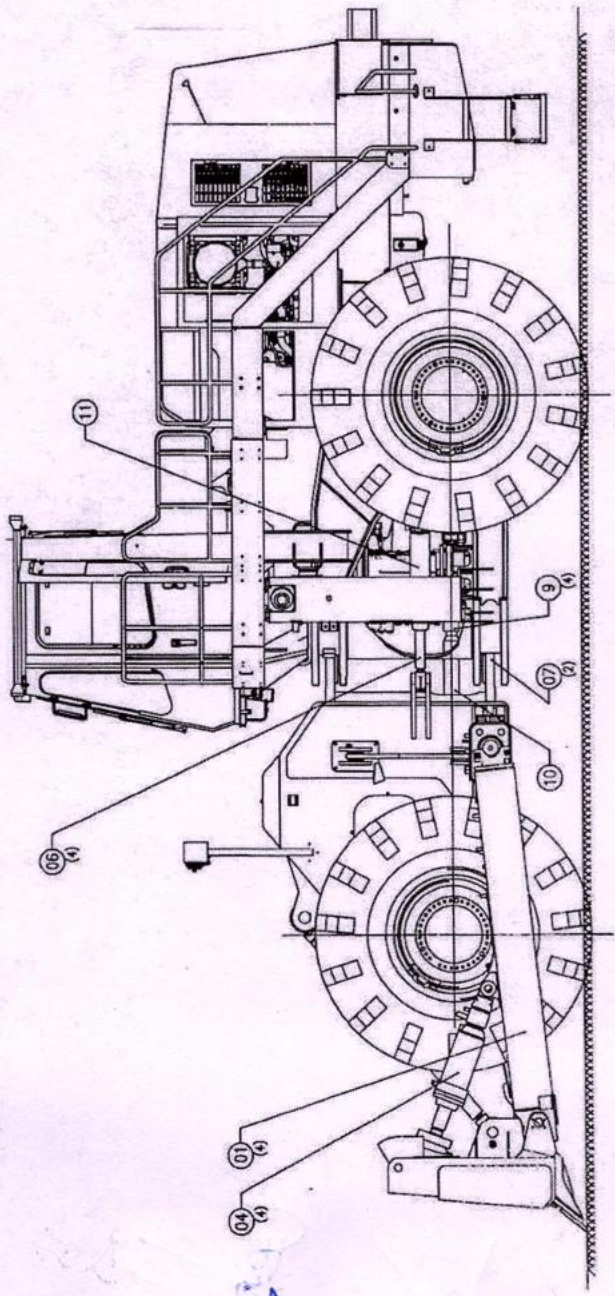
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NOTE:
1. NUMBER OF LUBRICATION POINTS.

LUBRICATION POINTS		
S/N/O	DESCRIPTION	N/O. OF POINTS
1	SEAT FRAME LH & RH	4
2	T-LINK	3
3	LINK	4
4	TILT CYLINDER LH & RH	4
5	LIFT CYLINDER	2
6	STEERING CYLINDER LH & RH	4
7	ARTICULATION JOINT	2
8	REAR AXLE SUPPORT	2
9	DRIVE SHAFT	3
10	CENTER PIVOT BEARING	1
11	CENTER DRIVE SHAFT	1
	TOTAL	31

- LUBE POINTS THREAD SIZE: PS 1/8"
- GREASE RECOMMENDED: NO.2 LITHIUM GREASE
- SUPPLY VOLTAGE ON EQUIPMENT: 24V DC
- CARE TO BE TAKEN TO PROVIDE ADEQUATE SAFETY FOR THE OPERATOR TO AVOID ANY PHYSICAL DAMAGE AND ENSURE SMOOTH AND CONTINUOUS FUNCTIONING DURING EQUIPMENT OPERATIONS.
- PROPELLER SHAFTS SUCH AS ITEM 9 & 11 IS ROTATING MEMBER AND IT HAS TO BE LUBRICATED MANUALLY.



नरेश कुमार/Nareesh Kumar
 जय प्रयास (विपणन) /Dy. General Manager/Marketing
 2 तहलक मंडिर, बंगलूरु/2nd Floor, BEMIL LIMITED
 सोडहा, 23/1 चौथा मंज, एच.एच.ए. १११
 बंगलूरु / BENGALURU - 560 027.

AUTO LUBRICATION SYSTEM
 EQPT: BD46W

Handwritten signatures and stamps at the bottom of the page, including a circular stamp for COAL INDIA LIMITED, M.M. DIVISION.


D.4.19: Details of the supplier of Auto Lubrication System:

Eqpt Model: BD46W-1


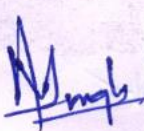

Supplier Name:

- 1) M/s. SKF Engineering & Lubrication (Formerly Known as Lincoln Helios)
- OR
- 2) M/s. Lube Solutions pvt. Ltd. (GRACO)

Type: Centralized PLC based Hydraulic Operated Auto Lubrication System


नरेश कुमार / Naresh Kumar
उप महाप्रबंधक (विपणन) / Dp. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 फ्लोर सौधा, 23/1, चौथा मैज, एस.आर. नगर
No. 23/1, 4th Main, S.R. Nagar
बंगलूरु / BENGALURU - 560 027.







Equipment: BD46W-1 Wheel Dozer

HEALTH MONITORING SYSTEM

The machine is provided with a 7"LCD Display on the Dashboard wherein, machine parameters like Engine oil pressure, Engine oil temperature, Engine RPM, Engine coolant temperature, Engine run hours, Battery voltage, Transmission oil pressure, Torque Converter oil temperature, Transmission Current Gear, fuel gauge etc.. are configured in gauge/bar/Numerical format for operator to monitor. Warning symbols & warning messages for parameters like

Engine water temperature high, Engine oil pressure low, coolant level low, fuel level low, battery voltage low, transmission oil pressure low, Torque Converter oil temperature high etc.. will be popped up in the display whenever the fault condition occurs in the vehicle.

The machine is also provided with data logging facility which can log critical parameters of equipment continuously with time stamping. The logged data is down loadable in a pen drive/Laptop and the data will be represented in Excel format for further analysis & ascertaining the condition of the equipment.

CAN J1939 port will be provided for capturing on-line, real time, monitoring interface facility, through this port the equipment data can be seamlessly accessed by third party controller for GPS/GPRS-based transfer GPS/GPRS module will be of Third party scope of supply.



नरेश कुमार/Naresh Kumar
महाप्रबंधक (विपणन) / Dy. General Manager(Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 कक्षीय मंजिल, बेंगल सौधा/2nd Floor, BEML Soudha
संख्या. 23/1, चौथा मेज, एस.आर. नगर
No. 23/1, 4th Main, S.R.Nagar
बेंगलूरु / BENGALURU - 560 027.



D.6. Health Monitoring System

Sl. No.	Particulars	BEML Reply
1	The equipment shall be provided with suitable licensed, on-line, real time, monitoring interface facility, compatible for GPS/ GPRS -based transfer of equipment performance data (commonly known as HMS) to third party equipment management system. The system shall have OBD Self-diagnostic & error alarm features and should capture the parameters of HMS module and other parameters not covered by HMS of the equipment to monitor the following items:	Agreed
i	Working hour, idle hour, based on the duration of a shift for which the equipment is switched on for operation	Agreed
ii	Engine oil pressure & temperature	Agreed
iii	Engine RPM	Agreed
iv	Coolant level and temperature	Agreed
v	Fuel level and fuel consumption rate	Agreed
vi	Hyd. oil temperature & pressure	Agreed
vii	Engine electrical system - Battery voltage	Agreed
viii	Tyre pressure (tyre mounted machines)	Agreed
ix	Fault codes along with details	Agreed
x	Transmission/Gear Box vital parameters	Agreed
xi	Air/Hydraulic system vital parameters	Agreed



श. कुमार/Naresh Kumar
 Dy. General Manager (Marketing)
 BEML LIMITED
 2nd Floor, BEML South
 No. 23/1, 4th Main, S.R. Nagar
 BANGALURU - 560 027.

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Sl. No.	Particulars	BEML Reply
	The system shall also have provision of actuating manually.	Agreed
	The system shall provide facility for self-checking /testing/inspection without operating.	Agreed
	The data regarding health & event shall be logged in the system with date & time in memory having capacity to store data of at least 15days, which can be downloaded to PC/ Laptop in latter stage.	Agreed
	The system should be capable for efficient operation in the extreme mining conditions with dust, dirt, water & vibrations.	Agreed
	The high pressure storage vessels and hoses, if used with fire-fighting and fire suppression systems, shall conform to the requirements stipulated in the relevant Indian standards.	Agreed
	Bidder shall submit a Certificate as an undertaking that, a valid Test Certificate (valid as on the date of commissioning of the equipment at site) shall be submitted at the time of supply of equipment along with other documents, for AFDSS including materials and chemicals used in fire suppression system from any Government or Government approved Laboratory in compliance with relevant Indian Standards as per DGMS (Approval) Circular No. 02 dated 08th July 2013 with subsequent amendments.. Note: Periodical refilling shall be done by the supplier.	Agreed



[Handwritten signature]

श्री. सुनील वारेश कुमार
 (डायरेक्टर) / Dy. General Manager (Marketing)
 2 वाँ फ्लोर, ग्रेट साउथ रोड / BEML LIMITED
 बेंगलूरु, 23/1, 4th Main, S.R. Nagar
 बेंगलूरु / BENGALURU - 560 027.

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Annexure (f)

D.8. Expected Life of Major Assemblies

Equipment	Major Assemblies	Expected Life* (in hours)
Wheel Dozers	Main Frame	25000~30000
	Engine	15000~20000
	Transmission/Torque Convertor	10000~15000
	Electrical System	8000~10000
	Final Drive (Excluding Sprocket) & Steering System	10000~12000
	Tyre	4500

Note: *Expected life means before first overhaul.

Signature of the bidder

नरेश कुमार / Naresh Kumar
 उप महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
 बीएल लिमिटेड / BEML LIMITED
 2 इलाक़ा मॉडिर्न, 2nd Floor, BEML Soudha
 संख्या. 23/1, चौथा मैदान, एस.आर. नगर
 No. 23/1, 4th Main, S.R.Nagar
 बंगलूरु / BENGALURU - 560 027.

Seal of the firm



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Annexure (I)

BD46W-1 WHEEL DOZER ERECTION AND COMMISSIONING ACTIVITY CHART

SL.NO	ACTIVITIES	DAYS																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	Machine unloading	█																								
2	Inventory of consignment		█																							
3	Fitment of wheel assy			█																						
4	Assembly of blade and frame				█																					
5	Fitment of cylinders					█																				
6	Installation of cabin and ROPS structure						█																			
7	MISC works (AFDSS, Electrical works etc)								█																	
8	Pre-commissioning check / Load test																									
11	Equipment delivery																									
TOTAL NO. OF DAYS		25 DAYS																								

Note : Erection work will be commenced after receipt of full consignment at site and commissioning will be completed within a period specified in the NIT. Any delay in erection and commissioning due to non availability of facilities like crane, electricity & fuel which are to be provided by the customer will be to the purchaser account



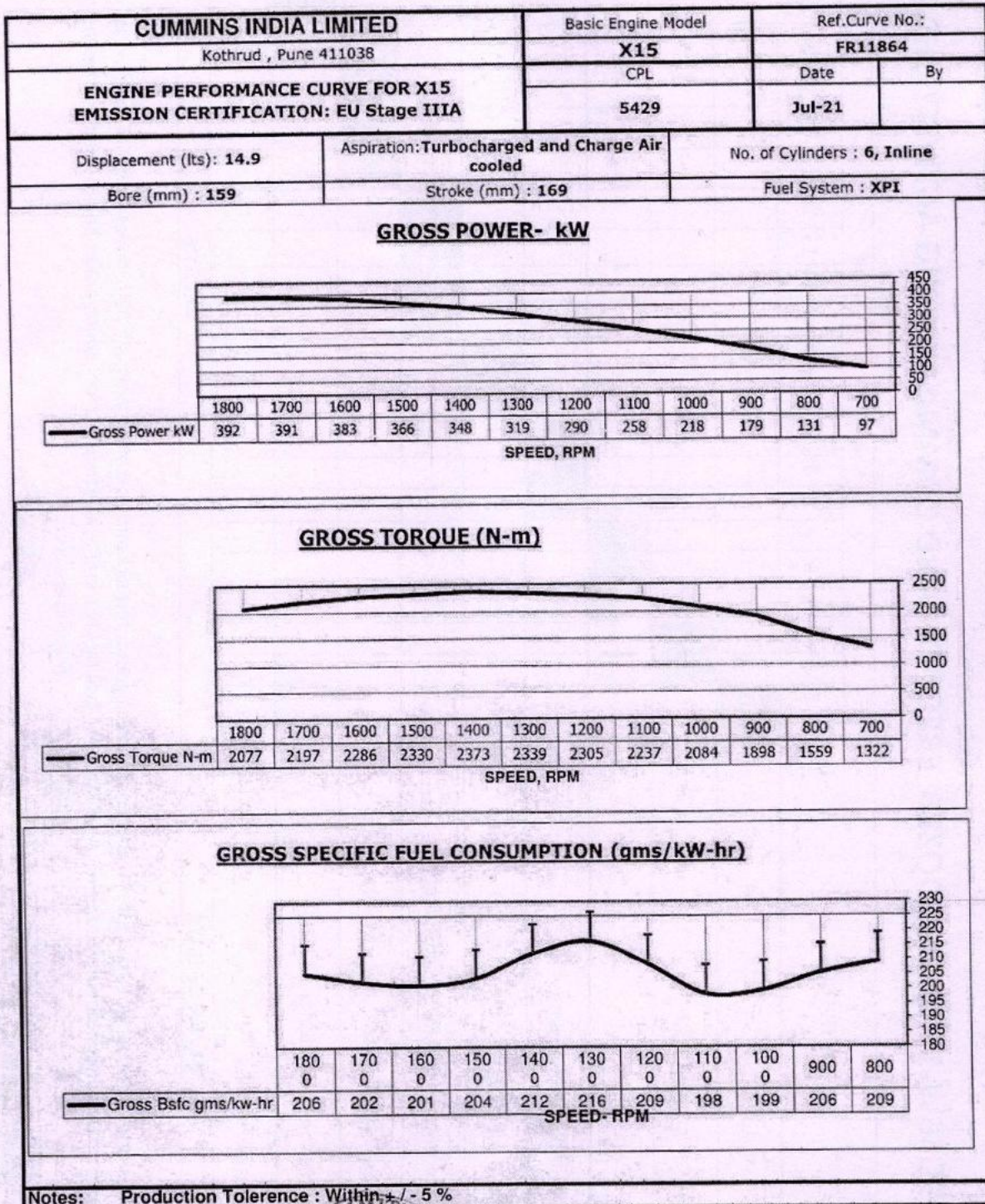
नरेश कुमार / NARESH KUMAR
 Dy. General Manager (M&M)ing
 बीएमएल लिमिटेड / BEML LIMITED
 4 वें तल, यूनिटी बिल्डिंग, जे.सी. रोड
 4th Floor, Unity Buildings, J.C. Road
 बेंगलूरु / BENGALURU - 560 002.



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Annexure (m)

X15_StagellIA_BD46W_Net Curve_25Sep2022.xlsx



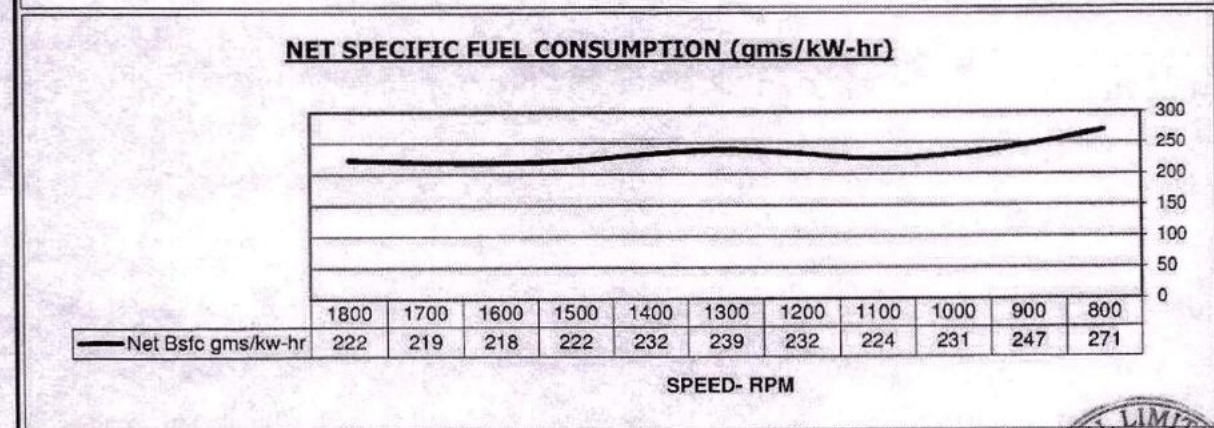
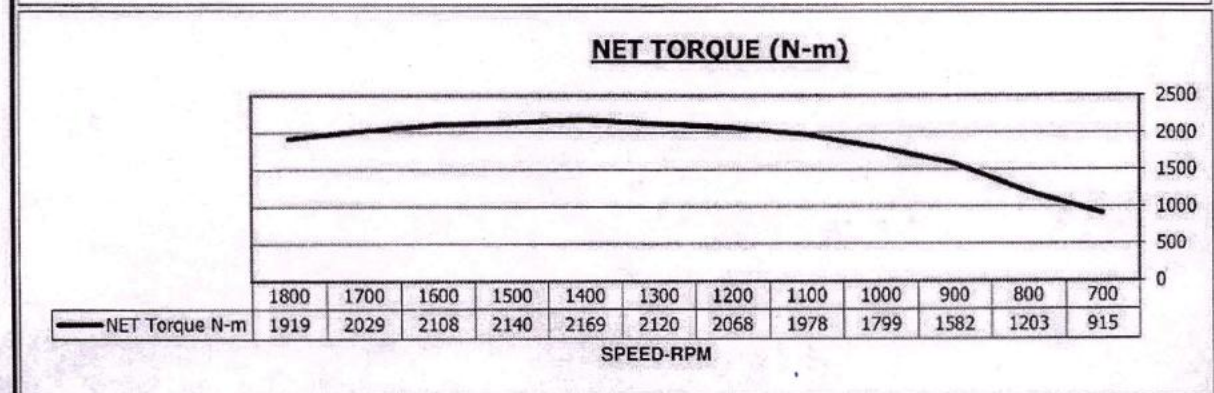
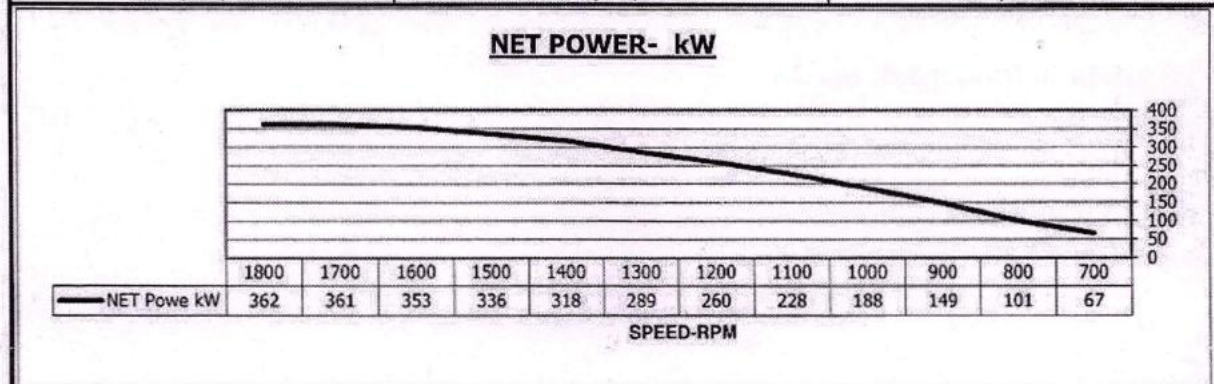
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नरेश कुमार / Naresh Kumar
 ज्य महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
 बीईएमएल लिमिटेड / BEML LIMITED
 2 त्तरीर मंलिन, डेमल सोड/2nd Floor, BEML Soudha
 इरडिया, 23/1, चौथा मंष, डूस आः गडर
 No. 23/1, 4th Main, S.R. Nagar
 डंगलूरु / BENGALURU - 560022

Handwritten signatures and initials in blue ink, including 'Amish', 'Anshu', 'Jn', 'B', and 'Date'.

CUMMINS INDIA LIMITED Kothrud , Pune 411038		Basic Engine Model X15	Ref. Curve No.: FR11864	
ENGINE PERFORMANCE CURVE FOR X15 EMISSION CERTIFICATION: EU Stage IIIA		CPL 5429	Date Jul-21	By
Displacement (lts): 14.9	Aspiration: Turbocharged and Charge Air cooled	No. of Cylinders : 6, Inline		
Bore (mm) : 159	Stroke (mm) : 169	Fuel System : XPI		



AS PER ISO 9249 CONDITIONS

Note: As per recommendation of Manufacturer of Equipment (BEML), CIL Pune has derived Engine Performance Net Curves from Engine Gross power Curve FR5373 by deducting the accessory power



Notes: Production Tolerance : Within +/- 5%

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25-09-2022



Page 3
 2nd Floor BEML SOUDHA
 No. 23/1, 4th Main, S.R. Nagar
 BENGALURU - 560027.

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Annexure (n)

Model: BD46W-1 Wheel Dozer

Maximum travel speed determined according to IS/ISO 6014:

28 km/hr in forward direction.

28 km/hr in reverse direction.

====XXXX====



नरेश कुमार / Naresh Kumar
उप महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
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2 इतीय मजिल, बीएम सोधा / 2nd Floor, BEML Soudha
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No. 23/1, 4th Main, S.R. Nagar
बेंगलूरु / BENGALURU - 560 027.



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Annexure (o)

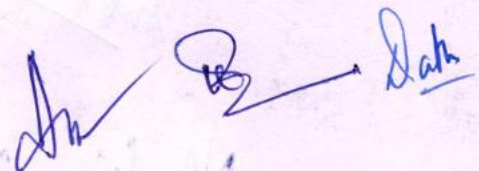
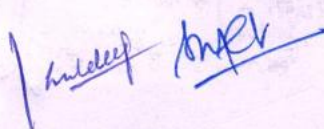
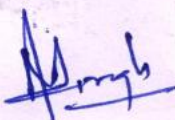
Model: BD46W-1 Wheel Dozer

Turning diameter as defined in clause 3.2 of IS/ISO 7457: **17.23 m**

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नरेश कुमार/Naresh Kumar
महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
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No. 23/1, 4th Main, S.R.Nagar
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Annexure (p)

BRAKE TEST – BD46W-1 Wheel Dozer

Results of service and secondary brake stopping tests carried out according to IS 16479/ISO 3450:

Braking system tested	Slope (%)	Machine speed (km/h)	Stopping distance (m)
Service			
Secondary			

Test certificate attached as _____.

====XXXX====

Product is under Design stage, test in line with ISO 6014 shall be carried out upon Proto development and data shall be provided before dispatching the equipment.



नरेश कुमार/Naresh Kumar
 अप महाप्रबंधक (विपणन) / Dy. General Manager (Marketing)
 बीएसएमएल लिमिटेड / BEML LIMITED
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 No. 23/1, 4th Main, S.R.Nagar
 बेंगलुरु / BENGALURU - 560 027.

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Annexure (q)

Model: BD46W-1 Wheel Dozer

Rim pull at 1 km/hr and zero speed measured according to ISO 7464:

At 1 Km/Hr _____

At 0 speed _____

The Minimum range of rim pull will meet the NIT requirement

====XXXX====

Product is under Design stage, test in line with ISO 7464 shall be carried out upon Proto development and data shall be provided before dispatching the equipment.



A handwritten signature in blue ink, appearing to be "Naresh".

नरेश कुमार/Naresh Kumar
ज्य. महाप्रबंधक (मिण्डिंग) / Dy. General Manager(Marketing)
बीइएमएल लिमिटेड / BEML LIMITED
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बेगलूरु / BENGALURU - 560 027.



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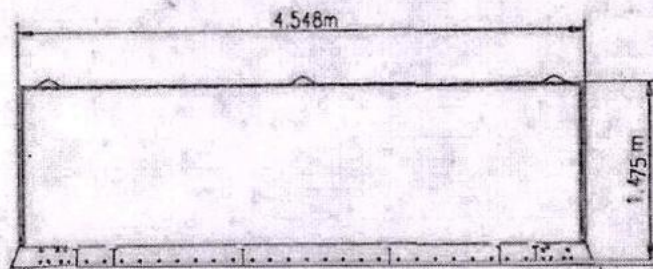
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BD46W-1 WHEEL DOZER

Calculation of volumetric rating of dozer blade

Ref : ISO 9246 (Straight Blade)



$$\text{Blade capacity} = 0.8 W (H)^2$$

Where,

$$W = \text{Blade width} = 4.548\text{m}$$

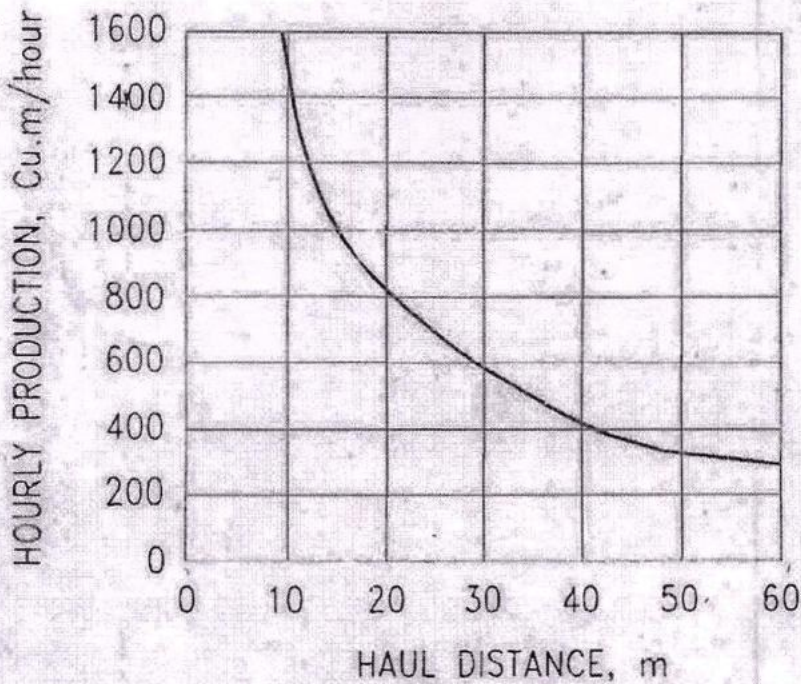
$$H = \text{Effective blade height} = 1.475\text{m}$$

$$\text{Therefore Blade capacity} = 0.8 \times 4.548 \times 1.475^2 = 7.92\text{m}^3$$



नरेश कुमार/Narash Kumar
प्र. महाप्रबन्धक (विपणन) / Dy. General Manager (Marketing)
बीईएमएल लिमिटेड / BEML LIMITED
2 इतीय मलिन, बेमल सोडहा / 200 560001 BEML Soudha
संख्या. 23/1, चौथे फ्लोर, 23 मार नागा
No. 23/1, 4th floor, B.R. Heger
बेमलसुडहा / BEMLSOUDHA - 560 027.

BD46W-1 WHEEL DOZER
HOURLY PRODUCTION



THESE STANDARD PRODUCTION ARE CALCULATED
DEPENDING ON THE FOLLOWING CONDITIONS:

- 1. BLADE CAPACITY : 7.92 Cu.m
- 2. BLADE FACTOR : 1
- 3. GRADE FACTOR : 1
- 4. JOB EFFICIENCY : 1
- 5. MACHINE SPEED : F1, R2.



नरेश कुमार/Narsh Kumar
उप महाप्रबंधक (विपणन) / Dy. General Manager
बीईएमएल लिमिटेड / BEML LIMITED
2 इलाक़ा भवन, बेलम सोड/2nd Floor
कॉम्प्लेक्स, 23/1, चौथा मंज़र, एच.ए. नगर
No. 23/1, 4th Main, H.A. Nagar
बेंगलूरु / BENGALURU

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BD46W-1 WHEEL DOZER**BRIEF SPECIFICATIONS :**

ENGINE	: EU STAGE IIIA Certified, Cummins X15 (FR11864), Net Power : 362 kW (485 hp) @ 1800 RPM, Net Torque : 2169 Nm @ 1400 RPM
TORQUE CONVERTER	: Dana CL8000 with lockup clutch
TRANSMISSION	: Dana 8000, 4F / 4R Powershift, Electronic
AXLES	: Dana D53R300-D, Full floating type - Front Axle Rigid mount, Rear Axle Oscillating, with Axles Ratio : 30.356
BRAKES	: Posi-Stop type Hydraulically actuated wet multiple disc service brakes on all four wheels, SAHR Parking brake commonly used as Emergency brake.
STEERING	: Articulated type Full Hydraulic Power steering with articulation angle $\pm 38^\circ$. Turning radius at center of outside tire 7700mm



नरेश कुमार/Nareesh Kumar
 उप महाप्रबंधक (विपणन) / Dy. General Manager Marketing
 बीईएमएल लिमिटेड / BEML LIMITED
 2 इलीव मंजिल, बेमल सोसा/2nd Floor BEML SOUSA
 संख्या. 23/1, चौथा मंज, एस.आर.हास
 No. 23/1, 4th Main, S.R. Haas
 BENGALURU

HYDRAULIC SYSTEM :

Steering Pump : Gear pump, 250 + 200 lpm,
Relief pressure 175 kg/cm²

Steering cylinders(2) : Bore - 130mm, stroke -
515mm

Main Pump : Gear pump, 200 lpm,
Relief pressure 210kg/cm²

Lift cylinder : Bore - 160mm, stroke - 870 mm

Tilt & Pitch cylinders : Bore - 180mm, stroke -
272mm

Work Attachment : Hydraulic Joystick Control for all operations

Operating Weight : 41500 kg

Blade capacity : 7.9 CuM

Blade width (over end bits) : 4800 mm

Blade height : 1485 mm

Max. lift above ground : 1240 mm

Max. depth of cut : 465 mm

Max. tilt adjustment : 1320 mm

Max. pitch adjustment : 23°

Tires : 35/65- 33-24PR (L5) tubeless

SALIENT FEATURES :

1. ENGINE : X15 FR11864, EU Stage IIIA Emission Certified ,6 Cylinder, Water Cooled, Turbo Charged is provided with 2 stage air cleaner with dust evacuator and dust level indicator. Equipped with 2 stage fuel filtration including water separator at first stage. Engine is electronically governed and Engine ECM keeps broadcasting vital parameters over J1939 communication protocol and error codes for self-diagnosis. Fuel Injection is controlled through ECU communicating through CAN Bus enabling precise control of Fuel resulting in better Fuel economy and meeting the necessary Emission norms.



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No. 23/1, 4th Main, S.R. Nagar
बंगलूरु / BENGALURU - 560 037

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2. **TRANSMISSION** : Dana CL8000 torque converter - PTO with Lockup clutch facility is mounted onto engine flywheel and connected to Dana 8000 heavy duty transmission using propeller shaft. Transmission with 4F / 4R fully power shift is provided with Single lever Electric shift direction & range selector to enable effortless and fast gear shifting.
3. **Axles** : 53R300-D heavy duty axles with Posi Stop 26150 wet multiple disc service brakes on front and rear axle wheels and Posi Stop 26150 SAHR parking brake which performs as emergency brake in the event of low pressure.
4. **HYDRAULIC SYSTEM** : Gear Pumps from reliable proven source is used. The Pump flow is fed to Steering Priority Valve and on demand caters to Work Attachment and whenever there is no operation performed, the Pump is sent to tank which helps for Optimum use of Engine Power resulting in better Fuel efficiency. Hydraulic circuit and Brake actuation & cooling circuit of the equipment is attached below.
5. **ELECTRICAL & DISPLAY SYSTEM** : Single Compact 7" LCD Display for Vehicle Health Monitoring and Advanced diagnostics. The Engine, Transmission and Vehicle parameters are connected through CAN Bus to display on the Display screen and can be linked for Telematics easily. The system is self illuminated for ease of use during night time operations. Manual resettable circuit breakers have been used to protect the complete electrical circuit. Wire harness designed with IP67 Deustch connectors and FRHR (Fire Resistant and Heat Retardant) Conduits. Batteries are provided with Key switch controlled positive Battery Relay and manual operated Isolation switch for negative cut-off to isolate the battery and electrical loads during Welding.
6. **CABIN** : Spacious and ergonomically designed rigidly mounted Cabin with ROPS and FOPS provides excellent all round visibility and protection to the operator. The controls for Dozer blade attachments, Transmission, Brake and Throttle are positioned ergonomically for operator comfort. The operator seat is rugged and provided with various features like cushioned & adjustable suspension, Seat belt, Back & Forth adjustment.
7. **STEERING SYSTEM** : The steering system consists of Internal Gerotor type of Steering unit with Orbitrol steering system and Priority Valve offer excellent maneuverability with ease and better stability to handle tough onsite conditions, for enhanced operator comfort. The oil flows from



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 No. 23/1, 4th Main, S.R.Nagar
 बेंगलूरु / BENGALURU - 560 027

M. N. G. B.

Amaldeep

Amal

Datta

Hydraulic pump to Priority Valve and steering system is given priority. When steering is operated, the oil flows from Priority valve to Steering Unit and subsequently to Steering cylinders based on the direction of Steering wheel operation. When steering is not operated, the complete oil is sent to Work Attachment control Valve and back to tank. The steering angle is designed for 38 deg. on each side and the Turning circle diameter of 15.4 m.

8. **PRODUCTIVITY** : Excellent productivity is achieved with equipment fitted with 7.9 cum standard straight blade, high power engine, rugged 4F-4R transmission, heavy duty planetary axles, ensuring high tractive effort & gradeability .
9. **STRUCTURES** : The equipment features two frame design – front frame and rear frame. The frames are articulated by two hydraulic steering cylinders. Box sectioned front and rear frame are made of steel plate welded construction and connected with an articulation pin. The single piece frame design for the Front Frame in which hydraulic piping are routed offers excellent front visibility for precision operation. The standard access systems to Cabin includes Ladder assembly and spacious Fenders on both sides. Aesthetically profiled and rigidly supported Engine Hood offers excellent Rear view to the operator and meets the standard rear view distance within 12m. Rugged front and rear structures are designed to work in extreme tough conditions and provide rigidity to dozer attachments and power train.
10. **SERVICEABILITY** : Optimised and spacious routing of Electrical, Hydraulic and Brake system connections, Optimal positioning of replaceable items like Filters, etc., provide good serviceability and low maintainability index on equipment.
11. **Health Monitoring System** : Health monitoring system ensures monitoring of operator, vehicle health and other operating conditions and provide information about the status of job site.



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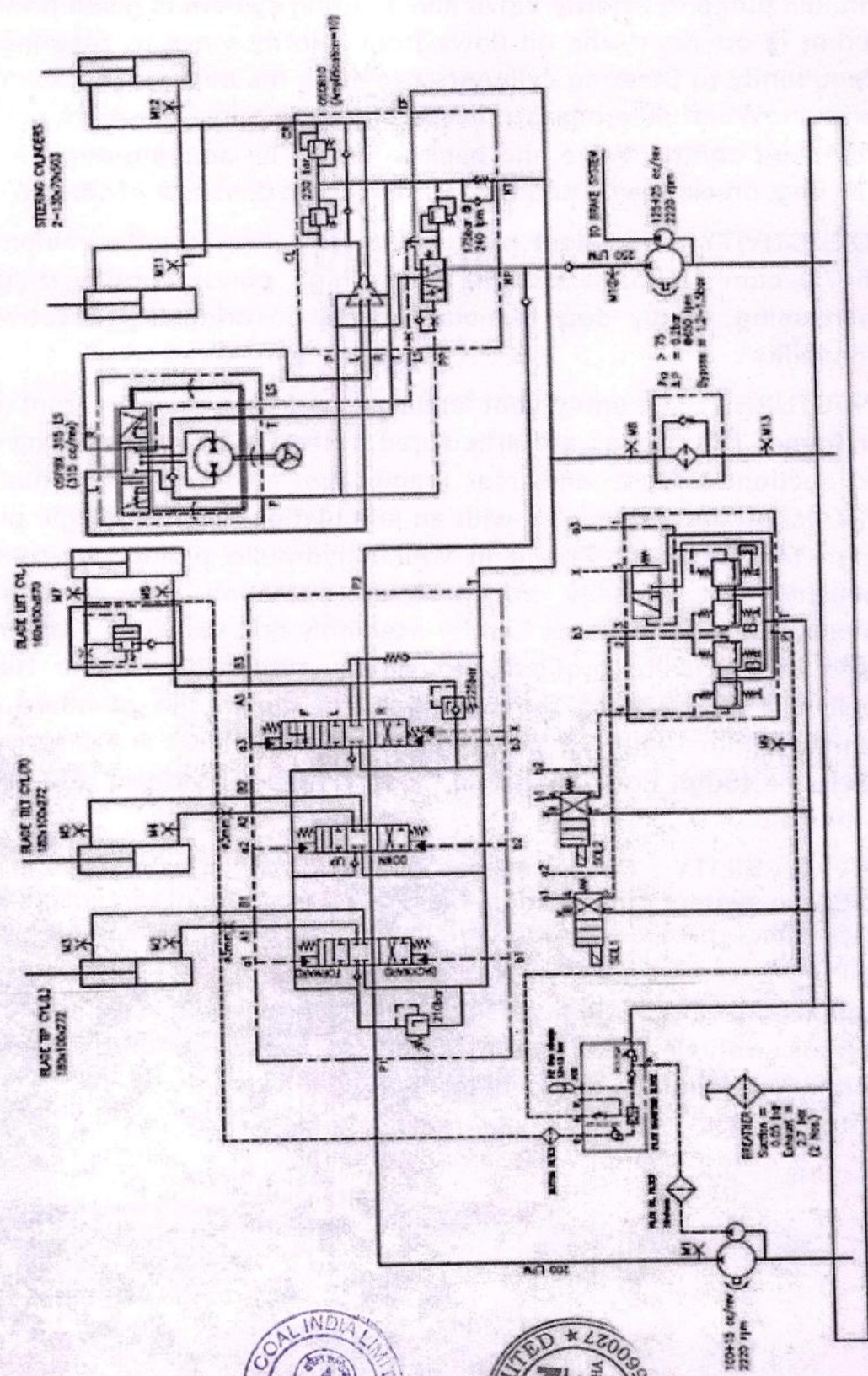
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BD46W-1 HYDRAULIC CIRCUIT



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श्री श्री सुश्री/Naresh Kumar
 श्री वाणराज (श्रीकांत) (Dy. General Manager)(Marketing)
 बीएमएल लिमिटेड / BEML, LIM (ITD)
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 No. 23/1, 4th Main, 5. R. Nagar
 बंगलूरु / BENGALURU - 560 027.

BD46W-1

WHEELDOZER



Salient Features :

- | Productivity
- | Reliability
- | Manoeuverability
- | Serviceability & Maintainability
- | Comfort
- | Electronic Monitoring System





 Mr. V. Suresh Kumar
 General Manager/Marketing
 BEML LIMITED
 2nd Floor, BEML SOUDHA
 No. 23/1, 4th Main, S.E. Bengaluru
 BENGALURU

Blade Capacity : 7.9m³

Operating Mass : 41,500 kg

Net Power : 362 kW (485 fhp) @ 1800 rpm

www.bemlindia.in

Amogh / Subhash / Anurag

Dr. B. Sathish

BD46W-1 WHEEL DOZER

Salient Features:

•Productivity:

High power engine, Remote mounted torque converter with lock-up, Heavy duty rugged transmission with 4 forward - 4 Reverse, Heavy duty rigid front & rear oscillating planetary axle, high tractive effort and gradeability at all operating conditions

•Reliability:

Attention free Posi Stop brake at all wheels, box type chassis construction for uniform stress distribution, durable cutting edges, end bits, pins & bushes are highly durable.

•Maneuverability:

Articulation type effortless proportional power steering, 4 wheel drives, optimum combination of travel speed, turning radius and wheel base.

•Serviceability & Maintainability:

Incorporating maintenance free quality components with continuous monitoring system provided very close to operator helps to maintain the equipment for higher productivity. Simplified service & maintenance features provide easy access to service location at ground level allowing maintenance to be done quickly and efficiently.

•Comfort:

Roomy walk-through cab, ergonomically arranged feather touch controls, cushioned suspension seat with adjustments, excellent visibility ensures easy dozing.

•Electronic Monitoring System:

EMS designed to monitor the health of the equipment and provide auto visual warning to prevent equipment breakdown through early detection. Entire operator controls, warning displays and control switches are fitted on dashboard with high degree of ergonomics and comfort. Besides gauge and electronic hour meter, other warning parameters are monitored to provide audio-visual signal.



नरेश कुमार (नरेश) / नरेश कुमार (नरेश)
 या यादव (नरेश) / या यादव (नरेश)
 बीएमएल लिमिटेड / BEML लिमिटेड
 2nd Floor, 35th Main, S.R. Nagar
 Main, S.R. Nagar
 560 027

ENGINE

Make	CUMMINS INDIA LIMITED
Model	X15 EU Stage IIIA
Type	Diesel, 4 cycle, Water cooled, Direct injection
Aspiration	Turbo charged
Net Power	362 kW (485hp) @ 1800 rpm
Maximum Torque	2169 Nm @ 1400 rpm
No. of cylinders	6 In-line
Bore x Stroke	ø159 x 169 mm
Piston Displacement	14.9 l
Compression ratio	14.0:1
Governor	Electronic
Lubrication system	Forced lubrication, gear pump
Air cleaner	Dry type
Electricals	
Alternator	24 V /110 A
Starting motor	24 V / Model/make - 39MT-HD/Delco remy
Battery	2 x 12 V /160 Ah

TRANSMISSION

TORQUE CONVERTER				
Type	3 element, single stage single phase			
Transmission				
Type	Full power shift Electronic Type			
Gear	4 F / 4R			
Stall torque ratio	2.172 : 1			
Max. Drawbar pull	400 kN (40789 kg)			
Travel speeds (km/h)				
Gear	1st	2nd	3rd	4th
Forward	3.9	7.7	14.8	29.1
Reverse	3.9	7.7	14.8	29.1

DRIVE & AXLES

Drive System	Four wheel drive
Front & Rear differential type	No-Spin & Standard
Differential gear	Spiral bevel gear
Final Drive	Planetary gear
Axle Ratio	30.356
Mounting Front	Rigid
Rear	+13° (Cradle mounted)

FILTRATION

Engine fuel & oil	Full flow spin-on type
Air	Double element, dry type with pre-cleaner and auto dust ejector
Transmission	Pressure line filter
Hydraulic steering & Braking	Return line filter



STANDARD ACCESSORIES

ENGINE :

Starter, alternator

ELECTRICAL COMPONENTS :

Head lights, rear working lights, back-up alarm, brake lamp, turn indicators (front & rear), electrical monitoring system, stop/tail lamp

GAUGES :

Fuel level, engine oil pressure, coolant lamp, voltmeter, T/C oil temp, rpm meter, hour meter

Others :

ROPS cabin, wind shield wiper & washer, tool kit, dust indicator, parking and emergency braking, tyres 35/65-33 24 PR(L5) tubless tyres, straight blade (7.9 m³), fire extingwisher-5 kg, sight gauge, seat belt, floor mat, sun visoe, fan, rear view mirror, roof lamp.

OPTIONAL ACCESSORIES

Air conditioner, heater, defroster, tyre inflation kit, pre-heater.

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HYDRAULIC SYSTEM

Hydraulic Pump	
Main pump	Gear Pump
Capacity	200ℓ / min @ 1800 rpm
Relief Pressure	20.6 MPa (210 kg/cm ²)
Cylinders :	
Lift Cylinder	One, Double acting type
Bore x Stroke	ø 160 x 870 mm
Tilt & pitch	Two, Double acting type
Bore & Stroke	ø180 x 272 mm

STEERING

Type	Center pivot frame articulation
Steering	Full hydraulic power steering system mechanism independent of engine speed
Steering pump	Gear pump
Capacity	(200+250)ℓ / min @ engine 1800 rpm
Relief pressure	17.2 MPa (175 kg / cm ²)
Steering angle	Wide articulation of 38° on each side
Turning radius	7700 mm (outer tyre)
Steering cylinders	2, double acting type
Bore x Stroke	ø 130 X 515 mm

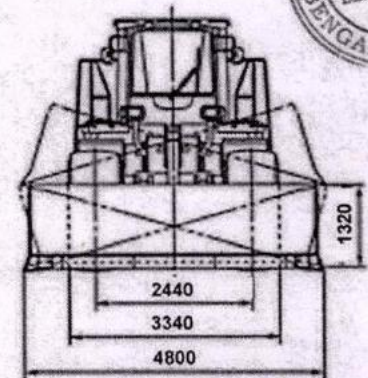
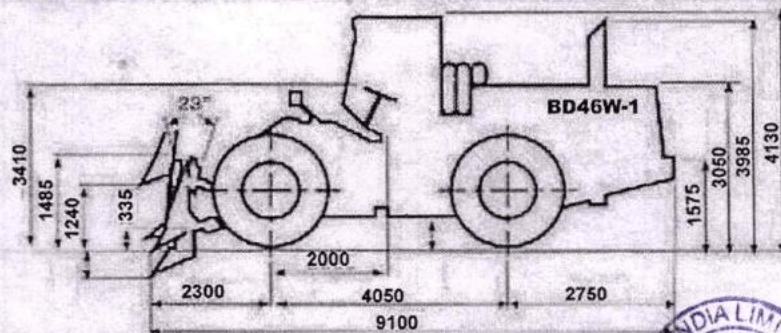
BRAKES

Service Brakes	4 wheel, hydraulically actuated wet multiple disc on all wheels. Type - Posi stop 26150
Parking brake	Spring Applied Hydraulically Released. Type - Posi stop 26150
Emergency brake	Automatically actuates the parking brake when the hydraulic pressure goes below the rated value

COOLANT & LUBRICANTS CAPACITY (R)

System	Capacity (in ℓ)
Engine oil pan	45
Fuel Tank	600
Cooling System	180
Hydraulic System	181
Front Axle	61
Rear Axle	61
Transmission & torque converter	45

DIMENSIONS



Material and specifications are subject to change without notice. Illustrations may include optional equipment & accessories

BD46W-1 WHEEL DOZER

TECHNICAL SPECIFICATIONS

BLADE

A large capacity 7.9 m blade delivers fast production dozing in stockpiled material and general earthmoving. The complete unit consist of blade, push arms, trunion mounting, reversible cutting edges, self sharpening end bits, hydraulic line guards and hydraulic lift, tilt & pitch cylinders, mono lever at operator's right to control dozer lift, tilt & pitch.

Blade Controls :

Single joystick with pilot operated control assures light-touch work equipment actuation

Control Positions :

Blade lift	Raise, hold, lower and float
Blade tilt	Tilt left, hold, tilt right
Blade pitch	pitch forward and back.

OPERATING PARAMETERS

Blade type	Straight
Blade Capacity	7.9 m ³
Blade width (over end bits)	4800 mm
Blade height	1485 mm
Max. lift above ground	1240 mm
Max depth of cut	465 mm
Max. Tilt adjustment	1320 mm
Max pitch adjustment	23° mm

OPERATING MASS

Operating mass : 41500 kg
(Including rated capacity of lubricant, coolant, fuel, 35/65-33 L5 Tyres, 7.9 m³ capacity blade)
Shipping mass :
Without work equipment and tyres 28700 kg

CABIN

Roomy walk-through cab, with ergonomically arranged manually operated control lever for speeds in forward / reverse selections, cushioned suspension adjustable seat and excellent visibility assures easy dozing and leveling.

TYRE

Front & Rear	35/65-33 24PR L5
Rim	28 X 3.5



2nd Floor, BEML Soudha
No. 23/1, 4th Block, B.R. Nagar
Bengaluru / BENGALURU - 560 027

बी ई एम एल लिमिटेड BEML LIMITED

A Govt. of India Miniratna Company Under Ministry of Defence

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Visakhapatnam No. 8-45-11, 4h Lane, China Welfare Colony, Visakhapatnam - 530 003	T/F 0891 2754608 E-mail: vizag@rm.beml.co.in

Form No. BD46W-1/001/07/1/2022

बी ई एम एल लिमिटेड BEML LIMITED

A Govt. of India Miniratna Company Under Ministry of Defence

Wheel Dozers From BEML :

BD46W-1



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**DETAILED LIST OF INSTRUMENTATION, MONITORING AND ALARM SYSTEMS FOR 460HP
WHEEL DOZER.**

Write up:

The machine is provided with a 7"LCD Display on the Dashboard wherein, machine parameters like Engine oil pressure, Engine oil temperature, Engine RPM, Engine coolant temperature, Engine run hours, Battery voltage, Transmission oil pressure, Torque Converter oil temperature, Transmission Current Gear, fuel gauge etc.. are configured in gauge/bar/Numerical format for operator to monitor. Warning symbols & warning messages for parameters like

Engine water temperature high, Engine oil pressure low, coolant level low, fuel level low, battery voltage low, transmission oil pressure low, Torque Converter oil temperature high etc.. will be popped up in the display whenever the fault condition occurs in the vehicle.

The machine is also provided with data logging facility which can log critical parameters of equipment continuously with time stamping. The logged data is down loadable in a pen drive/Laptop and the data will be represented in Excel format for further analysis & ascertaining the condition of the equipment.

Over to above a CAN J1939 dedicated port is available to tap equipment health condition on real time basis to interface with third party equipment management system.

D.4.11 Gauges and Indicators/ Electronic Display:

The following shall be provided as a minimum:

Particulars	BEML Response
a. Water temperature gauge	Provided
b. Engine oil pressure gauge/ indicator	Provided
c. Fuel capacity gauge	Provided
d. Engine tachometer	Provided
e. Engine hour-meter	Provided

D.4.12 Warning Alarms/Lights:

The following warning alarms shall be provided.

Particulars	BEML Response
a. Coolant level and temperature	Provided
b. Engine oil pressure	Provided
c. Converter oil temperature (where applicable)	Provided
d. Front warning horn	Provided
e. Reversing – DGMS complied Audio Visual Alarm	Provided

D.4.1 Engine:	BEML Response
<p>The engine is to be fuel efficient having fully integrated electronically controlled monitoring system & real-time self-diagnostic features with built in protections. The Engine electronic control module should be fully integrated with all systems of power train for all operating conditions and be capable to monitor operator's and sensors inputs for optimum engine performance & reduced emissions level. All engine vital parameter data shall be integrated with On Board Display (OBD) system of operator's cabin</p> <p>Retrieval and analysis of the recorded critical parameters of self-</p>	<p>7" Centralised Display unit mounted in the operator's cabin for equipment health monitoring & real time self diagnostic features, with built in protections & interlocks. The engine electronic control module is integrated with power train system & is capable to monitor operator's and</p>

Amogh

Kundrup

Arjun


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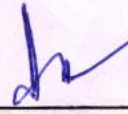
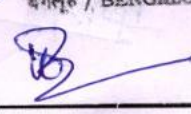
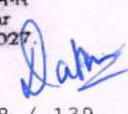
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<p>diagnostic features, real time monitoring and equipment health-monitoring systems fitted with the equipment. The supplier shall also be required to provide readable reports downloaded from each Equipment. Compatible Software loaded in electronic tool (Laptop) should be warranted for entire contract period or more.</p>	<p>sensors inputs for optimum engine performance. Equipment's all vital parameters are displayed in the display unit with error messages. Display is capable of logging critical parameters of equipment & logged can be down loaded. The down loaded data can be read in Excel format. Laptop with compatible software will be provided.</p>
<p>D.6 Health monitoring System The equipment shall be provided with suitable licensed, on-line, real time, monitoring interface facility, compatible for GPS/GPRS-based transfer of equipment performance data (commonly known as HMS) to third party equipment management system.</p>	<p>CAN J1939 port will be provided for capturing on-line, real time, monitoring interface facility, through this port the equipment data can be seamlessly accessed by third party controller for GPS/GPRS-based transfer GPS/GPRS module will be of Third party scope of supply.</p>
<p>D.4.10.4 Operator's Controls and Indicators:</p> <p>The controls shall be of suitable design and construction and arranged so that they are able to be operated with ease from the operator's seat and within the operator's force limits. Controls shall be laid out and designed to allow easy and safe operation based on the principle that a given direction of movement of any control produces a consistent and expected effect. The surfaces of frequently used pedals shall be fitted with skid resistant type materials.</p> <p>Controls that can cause a hazard due to inadvertent activation shall be so arranged, deactivated or guarded as to minimize the risk — particularly while the operator is getting into or out of the operator's station. The deactivation device shall either be self-acting or shall act by compulsory actuation of the relevant device.</p> <p>A device/system shall be provided to release the residual pressure in each hydraulic and pneumatic circuits which can cause a risk.</p>	<p>Complied</p> <p>Complied</p> <p>Complied</p> 
<p>D.4.10.5 Starting and Stopping System:</p> <p>Dozer shall be equipped with a starting and stopping device (e.g. key). The starting system shall have a provision for protection against unauthorized use.</p> <p>The starting and Stopping system shall be designed such that movement of the machine, shall not be possible, while starting or</p>	<p>Key switch is provided to start & stop the Dozer</p> <p>Neutral interlock is provided</p>

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stopping the engine, without activating the controls. (E.g. Transmission Neutral-Engine Start safety arrangement.)	
<p>D.4.13 Engine Electrical System: The dozer shall be provided with the following:</p> <p>a. 24 DC electrical system with suitably rated alternator of reputable make b. 24V Electric starter motor of reputable make c. High capacity maintenance free batteries of reputed make d. Battery isolation switch / Relay.</p> <p>All electrical circuits shall be protected by adequately rated fuses which shall be easily accessible for maintenance. At least two spare fuses of each size shall be provided in each fuse box</p>	Complied
<p>D.4.18 Safety Features</p> <p>All safety features & devices as per Govt. Of India Gazette notification no. Z 20045/01/2018/S&T (HQ) dated 01.10.2018, DGMS Circular No. DGMS (Tech) Circular No. 06 of 2020 Dhanbad dated 27.02.2020 and subsequent amendments, if any, including following shall be provided in the equipment. Bidder shall submit a Certificate as an undertaking in this regard that all safety features and devices are incorporated in the equipment.</p> <p>a. Roll over protection. b. Turbocharger guard. c. Fire resistant /fire retarder hydraulic hoses and wiring near hot zone. d. Seat belt for operator -Seat belt reminder should also be provided to alert operator for using the seat belt.</p>	Complied

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