Contract

between

Coal India Limited, Kolkata

And

M/s. Caterpillar Inc., USA

And

M/s. GMMCO Ltd., Kolkata

For

Supply, Installation and Commissioning of 16 nos. 850HP Crawler Dozers (with ripper attachment) of Caterpillar make, Model CAT D11 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

COAL INDIA LIMITED

M. M. Division
1st Floor, Premises No. 4,
Plot No. AF-III. Action Area 1A.
New Town, Rajarhat,
Kolkata - 700 156

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Section 1

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Agreement

THIS AGREEMENT made the 01st day of September, 2025 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 Caterpillar Inc., 5205 N, O'Connor Blvd, Irving, TX 75039 (hereinafter referred to as "Manufacturer" which expression shall unless repugnant to the context or meaning thereof, includes its successors and permitted Assigns) on the SECOND PART, represented by M/s GMMCO Ltd., Birla Building, 9/1, R.N. Mukherjee Road, Kolkata – 700001, India (authorized Indian agent) (hereinafter referred to as the "Supplier" which expression shall unless repugnant to the context or meaning thereof, includes its successors and permitted Assigns) on the THIRD PART.

WHEREAS the Purchaser invited bids for certain Goods and Ancillary Services viz. Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 dated 12.06.2024 (Tender ID - 2024_CILHQ_310316_1) for the Supply, Installation and Commissioning of 30 nos. of 850HP Crawler Dozers (16 nos with ripper attachment & 14 nos without ripper attachment) along with Consumable Spares and Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares and Consumables for a period of 5 years under Spares Cost Cap to the following projects of Coal India Limited (CIL) read with corrigendum published on 14.06.2024, 10.07.2024 and 24.07.2024:

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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M. M. Division

1st Floor, Premises No. 4,
Plot No. AF-III. Action Area 1A,
New Town, Rajarhai,
Kolkata - 700 156

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A. 850HP Dozer With Ripper:

Sl. No	Project and Subsidiary	Qty (Nos.)	Duty
1	Gevra, SECL	3	PCD
2	Gevra, SECL	3	NCD
3	Dipka,SECL	6	NCD
4	Dudhichua NCL	1	NCD
5	Bina - Kakri Amalgamation NCL	1	NCD
6	Jayant, NCL	2	NCD

B. 850HP Dozer Without Ripper:

Sl. No.	Project and Subsidiary	Qty (Nos.)	Duty
1	Gevra, SECL	1	NCD
2	Nigahi, NCL	4	NCD
3	Bina-Kakri Amalgamation, NCL	1	NCD
4	Amlohri, NCL	1	NCD
5	Dudhichua, NCL	2	NCD
6	Krishnashila, NCL	1	NCD
7	Jayant, NCL	4	NCD

WHEREAS the Cover-II (Price-bid) of the Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 dated 12.06.2024 was opened and Reverse Auction was held on 22.11.2024 and the manufacturer has emerged L1 bidder for the following items of NIT:

Supply, Installation and Commissioning of 850HP Crawler Dozers with ripper /				
without ripper along with Consumable Spares and Consumables for 12 months of				
warranty period from the date of commissioning of the equipment and thereafter				
Spares and Consumables for a period of 5 years under Spares Cost Cap.				
850HP Crawler Dozers with ripper for Gevra OCP, SECL, PCD				
850HP Crawler Dozers with ripper for Gevra OCP, SECL, NCD				
850HP Crawler Dozers with ripper for Dipka OCP, SECL, NCD				
850HP Crawler Dozers with ripper for Dudhichua OCP, NCL, NCD				
850HP Crawler Dozers with ripper for Bina Kakri Amalgamation OCP, NCL, NCD				
850HP Crawler Dozers with ripper for Jayant OCP, NCL, NCD				

The purchaser has accepted the Bid No. GMMCO/CIL/850HP/24-25 dated 22.07.2024 (BID ID - 1065113) based on the authorisation letter no. nil dated 22.07.2024 of the Manufacturer and Power of Attorney issued by the authorised Indian Agent to Mr. Vikas Kumar and the offer to be read with shortfall documents / letters / emails submitted by the authorised Indian agent of manufacturer on e-procurement portal of CIL / e-mail as under:

- GMMCO/D11/24-25/Price Break-Up dated 02.12.2024
- GMMCO/CIL/850HP/24-25 dated 05.12.2024
- GMMCO/CIL/850HP/24-25 dated 30.01.2025
- GMMCO/KOL/CIL 850/24-25 dated 13.02.2025
- GMMCO/CIL/850HP/24-25 dated 26.02.2025

COAL INDIA LANGE DCIL/C2D/Crawler Dozer/R-153/301 dated 01.09 2025 IA

M. M. Division
1st Floor, Premises No. 4,
Plot No. AF-III. Action Area 1A.

New Town, Rojarhat, Kolkata - 700 156 Mingle

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- GMMCO/CIL/850HP/24-25 dated 31.03.2025
- GMMCO/KOL/CIL 850/24-25 dated 07.04.2025
- GMMCO/KOL/CIL 850/24-25 dated 28.04.2025
- Email dated 30.05.2025

Whereas the Manufacturer has agreed sum of US\$ 13,12,118.00 per equipment (US\$ Thirteen lakh twelve thousand one hundred and eighteen Only) (FOB Value) for supply, installation and commissioning of 16 Nos. 850HP Crawler Dozers (Model CAT D-11) with Ripper attachment. This works out to Rs.15,96,67,764.84 per equipment (Rupees Fifteen Crore ninety-six lakhs sixty-seven thousand seven hundred and sixty-four and paise eighty-four only) on CIP basis in Indian Rupees.

The total value of Consumable Spares & Consumables 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:

a. NIT Item 1 - 850HP Crawler Dozers with ripper for Gevra OCP, SECL under PCD (3 nos) & NIT Item 2 - 850HP Crawler Dozers with ripper for Gevra OCP, SECL under NCD (3 nos)

Description	Value (Rs)	
CIP Price of Fleet inclusive of GST (3nos.)	47,90,03,294.51	
Grand Total for spares and consumables for 6 years inclusive of GST for fleet	85,86,88,774.56	
Grand Total for equipment and Spares and Consumables for 6 years inclusive of GST per fleet	1,33,76,92,069.07	

NIT Item 3 - 850HP Crawler Dozers with ripper for Dipka OCP, SECL under NCD (6 nos)

Description	Value (Rs)	
CIP Price of Fleet inclusive of GST (6 nos.)	95,80,06,589.01	
Grand Total for spares and consumables for 6 years inclusive of GST for fleet	1,71,86,45,615.12	
Grand Total for equipment and Spares and Consumables for 6 years inclusive of GST per fleet	2,67,66,52,204.13	

c. NIT Item 4 - 850HP Crawler Dozers with ripper for Dudhichua OCP, NCL under NCD
 (1 no) & Item 5 - 850HP Crawler Dozers with ripper for Bina Kakri Amalgamation,
 NCL under NCD (1 no)

Description	Value (Rs)
CIP Price of Fleet inclusive of GST (1no.)	15,96,67,764.84
Grand Total for spares and consumables for 6 years inclusive of GST for fleet	28,21,16,463.96
Grand Total for equipment and Spares and Consumables for 6 years inclusive of GST per fleet	44,17,84,228.80

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M. M. Division

1st Floer, Premises No. CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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New Town, Rajarhat,

d. NIT Item 6 - 850HP Crawler Dozers with ripper for Jayant OCP, NCL under NCD (2 nos)

Description	Value (Rs)	
CIP Price of Fleet inclusive of GST (2nos.)	31,93,35,529.67	
Grand Total for spares and consumables for 6 years inclusive of GST for fleet	56,42,32,926.92	
Grand Total for equipment and Spares and Consumables for 6 years inclusive of GST per fleet	88,35,68,456.59	

The grand total contract value shall be for all the six projects (a, b, c, d above) shall be Rs.7,11,91,73,256.46 (Rupees Seven Hundred and Eleven Crore Ninety-One Lakh Seventy-Three Thousand Two hundred and Fifty-Six and Paisa Forty-six only) on CIP basis (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 General Conditions of Contract (GCC)
 - c. The Special Conditions of Contract (SCC)
 - d. The Schedule of Requirements (SoR) including Delivery Schedule
 - e. The Technical Specifications
 - f. The Price Schedule
 - g. The Purchaser's Notification of Award (NoA)
 - h. 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 provided in the Price Schedule.

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2026

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M. M. Division

1st Floor, Premises No. 4,

Plot No. AF-III. Action Area 1A. New Town, Rajarhat.

6. The Contract Price:

The Contract Price shall be Rs.7,11,91,73,256.46 (Rupees Seven Hundred and Eleven Crore Ninety-One Lakh Seventy-Three Thousand Two hundred and Fifty-Six and Paisa Forty-six only) on CIP basis calculated as per the exchange rate of 1USD=Rs.85.03 on the date of opening of price bid i.e. 22.11.2024 and applicable statutory Customs Duty, GST and other taxes and levies based on the offer dated 22.07.2024 of the Supplier.

7. Price Basis

The contract is on CIP Basis (Final Place of destination) for Equipment and on FOR Destination basis for spares and consumables to be supplied during warranty period and thereafter during 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 Basic Customs Duty (BCD) under PCD / NCD, Social Welfare Surcharge on Basic Customs Duty, IGST, GST on Marine Freight, GST on Indian Agency Commission, GST on Port Charges, Clearing, forwarding and incidental charges, GST on Inland Transportation Charges & GST on Inland Insurance charges for delivery upto Final Place of Destination, GST on Erection and Commissioning charges, GST on all items sourced in INR 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 dated 22.07.2024, 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.

CIL will pay Customs Duty applicable to imported Goods directly to Customs Authorities in accordance with the conditions of contract.

9. Agency Commission

Indian Agency Commission @ 4.00% (Four percent) of FOB value of the equipment is included in the FOB price of the equipment mentioned in the Contract. Indian Agency commission along with GST as legally leviable in India shall be payable by the Purchaser (respective subsidiary Companies i.e. SECL/NCL) to M/s. GMMCO Ltd. in INR. The total value of the Indian Agency Commission to be paid in INR shall be equivalent of USD 50,466.08 (US Dollar Fiffty Thousand four hundred and sixty six and paise eight Only) exclusive of applicable GST @ 18%.

10. Execution of Contract

The contract is concluded among the Purchaser, the Manufacturer and the Supplier for supply, installation and commissioning of 16 no of \$50HP Crawler Dozers (Model)

M. M. DIVINALL

1st Floor, Premises No. 4, Plot No. AF-III. Action Area 1A.

New Town, Rajarhai,

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Plot No. AF-III. Action Area

1st Floor,

CAT D-11) with Ripper attachment along with Consumable Spares & Consumables for 12 months of warranty period from the date of commissioning of the equipment and thereafter Spares and Consumables for a period of 05 years under Spares Cost Cap.

The Equipment shall be supplied by the Manufacturer - Caterpillar Inc., 100 Tractor Drive, East Peoria, IL 61611, USA in US Dollar.

The items sourced in INR required for fitting in the equipment during commissioning of 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 M/s GMMCO Ltd. in INR.

A Letter of Credit shall be established by SECL/NCL on M/s Caterpillar S.A.R.L, Singapore Branch, 7 Tractor Road, Singapore - 627968 for the net CIF Amount for Equipment after deducting Indian Agency Commission for Equipment in US Dollar for a total value of USD 12,61,652.00 (US Dollar Twelve Lakhs sixty one thousand six hundred and fifty two Only). Payment for foreign currency, INR, Indian Agency Commission and Customs Duty etc. shall be made as per provisions contained in SCC of the Contract.

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

01/09/20

S.M.Alli

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

Arup Kuntar Das
Commercia Mining Manager

Caterpillar Inc

For the Supplie

Vikash Kumar

General Manager GMMCO Ltd

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Chinmoy Adak Sales Representative Caterpillar Inc Amaresh Sarkar O1/09/2025 Amaresh Sarkar

Manager (Marketing)

GMMCO Ltd

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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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 and Special Conditions specified in the acceptance of tender;
- b) "Contra 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) "GCC" means the Conditions of Contract contained in this section;
- f) "SCC" means the Special Conditions of Contract;
- g) "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;
- h) "Purchaser's country" is India;
- i) "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;
- j) "CIL" means Coal India Limited or the Subsidiary Company of CIL or areas falling under various subsidiaries of CIL where Goods are deployed/used;
- k) "Year" means the Calendar Year.
- 1) "Chairman" means the Chairman of Coal India Limited.
- m) "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.
- "Drawing" means the drawing and plans specified in or annexed to the schedule or specifications.
- o) "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.
- p) "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.
- q) "Materials" shall mean anything used in the manufacture or fabrication of the stores.
- r) "Stores" means the goods specified in the Supply Order or schedule which the

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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- supplier/contractor has agreed to supply under contract.
- s) "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.
- t) "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.
- Words denoting the persons shall include any company or association or body of individuals whether incorporated or not.
- v) Words in singular include the plural and vice-versa.
- w) Words denoting the masculine gender shall be taken to include the feminine gender.
- x) "Writing" shall include any manuscript, typewritten or printed statement under or over signature or seal as the case may be.
- y) "Unit" and "Quantity" means the unit and quantity specified in the schedule.
- z) "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. Application

These Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

3. Standards

The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications. Such standards shall be the latest issued by the concerned institution.

4. Use of Contract Documents and Information

- 4.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person otherthan a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 4.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in sub-clause 4.1 above, except for purposes of performing the Contract
- 4.3 Any document, other than the Contract itself, enumerated in sub-clause 4.1 above shall remain

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

5. Patent Rights

The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in the Purchaser's country.

6. Security Deposit – refer clause no.1 of SCC

7. Performance Bank Guarantee

- 7.1 Wherever applicable, the Supplier shall be required to furnish a Performance Guarantee equivalent to 10% value of the total landed value of the contract including all taxes, duties and other costs and charges. In case of Contracts for procurement of Capital Goods along with Warranty Spares & Consumables (if applicable) and additional Spares & Consumables / AMC / CMC for more than one year, the Performance Guarantee shall be for 10% of equipment landed value along with maximum annual landed value of Spares & Consumables.
- 7.2 The Performance Guarantee shall be in the form of a Bank Guarantee issued by a RBI scheduled bank in India in the prescribed format on a non-judicial stamp paper.
- 7.3 The Performance Bank Guarantee (PBG) shall be in the same currency (ies) in which contract has been signed. In case of multi-currency contract, separate PBG in respective currency for required value shall be submitted.
- 7.4 If the contract is for procurement of equipment, the PBG (s) may be submitted equipment wise also. For this purpose, the value of each equipment will be worked out by dividing the total value of contract for a particular item of NIT, worked out as per provisions contained in clause-7 above, by the number of equipment ordered for that particular item of the NIT.
- 7.5 The PBG (s) shall remain valid till 3 months after the completion of warranty period.
- 7.6 The PBG shall be submitted sufficiently in advance (say 3-4 weeks) to enable its verification from the issuing bank, before submission of the invoice for 80% payment of the particular goods/equipment(s).
- 7.7 The release of the Performance Bank guarantee(s) after above indicated period, shall be subject to satisfactory performance of the equipment/ items during the warranty period and fulfillment of contractual obligations failing which, action for further extension or encashment of PBG, as deemed suitable shall be taken. The PBG / converted SDBG shall be released with the approval of HOD (MM) of the concerned subsidiary after expiry of validity period upon receipt of:
 - a) 'No Claim Certificate' from the HOD of User department; and
 - b) 'No Claim / Dispute Certificate' from the Supplier as per format provided as **Annexure**-4.
- 7.8 In case of procurement of equipment, if the successful tenderer which does not have the After Sales Service Support facilities in India like Depot/ Warehouse for supply of spare parts, Workshop facilities for servicing and repair of assemblies, sub-assemblies and equipment, availability of trained technical manpower etc., training facilities for providing training to CIL's personnel, wherever required, additional Performance Bank Guarantee for the 30% value of the total landed value of the contract including all taxes, duties and other costs and charges shall have to be submitted. This 30% PBG will be released after establishment of After Sales Service Support facilities in India subject to confirmation of the same by concerned Head of Technical Department. However, the supplier shall have to submit PBG for 10% of the total contract value to be kept valid for the remaining period of the contract plus 3 months processing period before release of 30% PBG. This 10% PBG will be released after satisfactory performance of all equipment/ items and fulfillment of contractual obligations including warranty obligations.

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7.9 The PBG will be submitted through Structured Financial Management System (SFMS).

8. Inspections and Tests

- 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 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.
- 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 thirty days of such rejection. Replaced or altered goods shall be subjected to repeated inspection or tests to demonstrate conformity with the Specifications. In the event that replacement or alteration is not done within thirty 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 including all costs incurred in the inspection and tests, 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.
- 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.

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

9. Packing and Marking

- 9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 All packing cases, containers, packing and other similar materials shall be supplied free by the Supplier and these shall not be returned unless otherwise specified in the Contract/Purchase order.
- 9.3 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the contract and in any subsequent instructions ordered by the Purchaser. Packages will be stamped with identification marks both outside the packages as well as on the contents inside. Packages containing articles liable to be broken by rough handling like glass or machinery made of cast iron will be marked with cautionary works like 'Fragile' 'Handle with care'.
- 9.4 The marking of the Goods must comply with the requirements of the law relating to Merchandise Mark, in force in India.
- 9.5 Packing instructions: The Supplier will be required to make separate packages for each consignee. Each package will be marked on three sides with proper paint with the following:
 - i. Project;
 - ii. Contract No;
 - iii. Country of origin of Goods;
 - iv. Supplier's name;
 - v. Packing list Reference Number;
 - vi. The gross weight, net weight and cubic measurement;
 - vii. Consignee Name and Address;
- 9.6 A complete list of contents in each package called the packing list will be prepared and one copy of the packing list shall be inserted inside the package.

10. Delivery and Documents

- 10.1 The delivery period stipulated in the Contract/Purchase Order shall be deemed to be the essence of the contract and delivery of the Goods must be completed within the specified period.
- 10.2 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The delivery of Goods shall be deemed to take place on delivery of the Goods in accordance with the terms of the contract after approval of Goods by the Inspector.
- 10.3 For purposes of the Contract, "EXW", "FOB", "FCA", "CFR", "CIF", "CIP" and other trade terms used to describe the obligations of the Parties shall have the meanings assigned to them by the prevailing edition of Incoterms on the date of tender opening, published by the International

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10.4 The details of shipping documents to be furnished by the Supplier are specified below:

(a) For Imported Goods:

Within forty eight (48) hours of shipment, the Supplier shall notify the Purchaser, Port Consignee and Ultimate Consignee by fax and email, full details of the shipment including Contract number, description of Goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc. The Supplier shall deliver by express courier service the following documents to the Purchaser, with a copy to the Port Consignee and Ultimate Consignee:

- i Supplier's shipping invoice showing Contract Number, Goods description, quantity, unit price, total amount and GST number of ultimate consignee;
- ii. Clean on-board bill of lading indicating the Importer-Exporter Code (IEC) of the concerned Subsidiary Company of CIL and non-negotiable bill of lading;
- iii. Packing list identifying contents of each package;
- iv. Manufacturer's/Supplier's warranty /guarantee certificate;
- v. Manufacturer's Test & Inspection certificate;
- vi. Certificate of Country of Origin issued by the Chamber of Commerce of Manufacturer's Country;
- vii. Documentary evidence of marine freight & marine insurance.

The above documents shall be sent by supplier well in advance, so that the same are received by the Purchaser at least one (1) week before arrival of the Goods at the port or place of arrival and, if not received, the Supplier will be responsible for any consequent expenses.

(b) For Domestic Goods from within India:

Upon dispatch of the Goods to the consignee, the Supplier shall notify the Purchaser and Ultimate Consignee and deliver by express courier service the following documents to the Purchaser with a copy to the Ultimate Consignee:

- i Supplier's invoice showing Contract Number, Goods description, quantity, unit price, total amount;
- ii. Railway receipt/ Transporter's consignment note /acknowledgement of receipt of Goods from the consignee(s);
- iii. Manufacturer's/Supplier's warranty / guarantee certificate;
- iv. Manufacturer's Test & Inspection certificate;

The above documents shall be provided by the supplier at the time of arrival of the Goods at the consignee's end. In case of delay, the Supplier will be responsible for any consequent expenses.

11. Insurance

- 11.1 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.
- 11.2 Where delivery of imported goods is required by the purchaser on CIF/CIP basis, the supplier

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- shall arrange and pay for marine/air insurance, making the purchaser as the beneficiary. Where delivery is on FCA/ FOB/ CFR basis, marine/air insurance shall be the responsibility of the purchaser.
- 11.3 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.
- Where the delivery of the Goods is on CIP Basis, the supplier shall deliver the goods at the named place of destination 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.
- 11.5 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".

12. **Transportation**

- In case of FOB (Port of Shipment) contracts, the purchaser has to arrange transportation its own 12.1 cost and risk.
- 12.2 In case of CIF (Port of Destination) contracts, transport of the goods to the port of destination in the Purchaser's country, as shall be specified in the contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price. In case of inland transportation of goods, the same is to be done through registered common carriers only.
- 12.3 In case of CIP (Final Place of Destination) contracts, transport of the goods to the port of destination and further to the named place of Final Destination in the Purchaser's country, as shall be specified in the contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price. In case of inland transportation of goods, the same is to be done through registered common carriers only.
- In case of FOR Destination contracts, transport of goods to the Destination site shall be arranged and baid 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.

Warranty 13.

- 13.1 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.
- 13.2 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.
- The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. The Supplier shall, within thirty 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.

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- 13.4 If the Supplier, having been notified, fails to remedy the defect(s) within thirty 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.
- 13.5 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 shall accordingly be specified in SCC.

14. Payment

- 14.1 Specific payment terms may be stipulated in the NIT and the resultant contracts depending on the nature of goods to be procured, as per provisions contained in Chapter-22.
- 14.2 Payment for Indian Agency Commission SCC Clause 8.4

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) drawings, designs or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- b) the method of shipment or packing;
- c) the place of delivery; and/or
- d) the place of Services to be provided by the Supplier.

16. Contract Amendments

Subject to relevant clause of GCC, 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.

17. Assignment

The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Purchaser's prior written consent. However, the consent of the Purchaser shall not relieve the supplier from any obligation, duty or responsibility under the contract.

18. Subcontracts

The Supplier shall notify the Purchaser in writing of all subcontracts awarded by it to discharge the works under this Contract. Such notification, in the original bid or later, shall not relieve the Supplier of any liability or obligation under the Contract and the supplier will be solely responsible for all obligations under the contract.

19. Delays in the Supplier's Performance

- 19.1 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Purchaser in the Schedule of Requirements.
- 192 If at any time during performance of the Contract, the Supplier or its Subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, by way of an by amendment to the Contract/ Purchase Order.
- Except as provided under Force Majeure clause, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages, unless an extension of time is agreed upon pursuant to relevant clause without the application of liquidated damages.

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20. Liquidated Damages

- 20.1 In the event of failure to deliver or dispatch the equipment/stores within the stipulated date/period in accordance with the terms and conditions and the specifications mentioned in the supply order and in the event of breach of any of the terms and conditions mentioned in the supply order, the Purchaser shall have the right:
 - (a) To recover from the successful bidder as agreed liquidated damages, a sum not less than 0.5% (Half Percent) of the price of any equipment/ stores which the successful tenderer has not been able to supply as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10% (Ten Percent) of the total contract value, or
 - (b) To purchase elsewhere after due notice to the successful tenderer on the account and at the risk of the defaulting supplier, the equipment/stores not supplied or others of similar description without cancelling the supply order in respect of the consignment not yet due for supply, or
 - (c) To cancel the supply order or a portion thereof, and if so desired to purchase the equipment/ stores at the risk and cost of the defaulting supplier and also,
 - (d) To extend the period of delivery with or without penalty as may be considered fit and proper. The penalty, if imposed, shall not be more than the agreed liquidated damages referred to in clause (a) above.
 - (e) To forfeit the security deposit fully or in part.
 - Whenever under this contract any sum of money is recoverable from and payable by the supplier, the Purchaser shall be entitled to recover such sum by appropriating in part or in whole by deducting any sum or which at any time thereafter may become due to the successful tenderer in this or any other contract. If this sum is notsufficient to recover the full amount recoverable, the successful tenderer shall pay the Purchaser the remaining balance on demand. The supplier shall not be entitled to any gain on any such purchase.
- 20.2 For the purpose of the calculation of the liquidated damages amount, the basic FOR Destination price shall be considered. For direct imports, the CIP price at Final Place of destination will be considered. Taxes and duties shall not be taken into account for calculation of LD. However, when prices indicated in the order are inclusive of taxes and duties, such prices will be taken for calculation of LD.

21. Termination for Default and breach of contract

- 21.1 The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
 - (a) If the supplier fails to deliver any or all of the stores within the time period(s) specified in the contract, or any extension thereof granted by the Purchaser; or
 - (b) If the supplier fails to perform any other obligation under the contract within the period specified in the contract or any extension thereof granted by the purchaser; or
 - (c) If the Supplier, in the judgment of the Purchaser, has violated Code of Integrity for Public Procurement in competing for or in executing the Contract.

21.2 Code of Integrity for Public Procurement (CIPP):

The supplier shall observe the highest standard of ethics while competing for and during execution of contracts.

The following practices would amount to violation of CIPP:

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- i. "Corrupt Practice" means making offers, solicitation or acceptance of bribe, rewards or gifts or any material benefit, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process or contract execution;
- ii. "Fraudulent Practice" means any omission or misrepresentation that may mislead or attempt to mislead so that financial or other benefits may be obtained or an obligation avoided. This includes making false declaration or providing false information for participation in a tender process or to secure a contract or in the execution of a contract;
- iii. "Anti-competitive Practice" means any collusion, bid rigging or anti-competitive arrangement, or any other practice coming under the purview of The Competition Act 2002, between two or more bidders, with or without the knowledge of the Purchaser, that may impair the transparency, fairness and the progress of the procurement process or to establish bid prices at artificial, non-competitive levels;
- iv. "Coercive Practice" means harming or threatening to harm, directly or indirectly, at any stage, persons or their property to influence their participation in the procurement process or affect the execution of a contract;
- v. "Conflict of interest" means participation by a bidding firm or any of its affiliates that are either involved in the consultancy contract to which this procurement is linked; or if they are part of more than one bid in the procurement; or if the bidding firm or their personnel have relationships or financial or business transactions with any official of Procuring Entity who are directly or indirectly related to tender or execution process of contract; or improper use of information obtained by the (prospective) bidder from the Procuring Entity with an intent to gain unfair advantage in the procurement process or for personal gain; and
- vi. "Obstructive practice" means materially impede the Procuring Entity's investigation into allegations of one or more of the above mentioned prohibited practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/or by threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding the Procuring Entity's rights of audit or access to information.

22. Force Majeure

- 22.1 Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable. Such events may include, but are not restricted to, acts of the purchaser either in its sovereign or contractual capacity, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, freight embargoes and act of God.
- 22.2 If there is delay in performance or other failures by the supplier to perform its obligation under the contract due to an event of a Force Majeure and the contract is governed by Force Majeure Clause, the supplier shall not be held responsible for such delays/failures.
- 22.3 In such a situation, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof, duly certified by the local Chamber of Commerce or Statutory authorities, the beginning nd end of the causes of the delay, within twenty one days of occurrence and cessation of such Force Majeure Conditions. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

22.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed

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- by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
- 22.5 For delays arising out of Force Majeure, the supplier will not claim extension in completion date for a period exceeding the period of delay attributable to the causes of Force Majeure.
- 22.6 There may be a Force Majeure situation affecting the purchaser also. In such a situation, the purchaser is to take up with the supplier on similar lines as above for further necessary action.
- 22:7 The contract shall be governed by the following Force Majeure Clause:

"If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, freight embargoes or act of God (hereinafter referred to "events") provided, notice of the happening of any such event is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event, be entitled to term inate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist PROVIDED FURTHER that if the performance in whole or part or any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may at its option terminate the contract provided also that if the contract is terminated under this clause, the purchaser shall be at liberty to take over from the contractor at a price to be fixed by the CIL/Subsidiary Company, which shall be final, all unused, undamaged and acceptable materials, bought out components and stores in course of manufacture in the possession of the contractor at the time of such termination or such portion thereof as the purchaser may deem fit excepting such materials, bought out components and stores as the contractor may with the concurrence of the purchaser elect to retain."

Termination for Insolvency 23.

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accruethereafter to the Purchaser.

24. **Termination for Convenience**

- The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in 241 part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- The Goods that are complete and ready for shipment within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - a) to have any portion completed and delivered at the Contract terms and prices; and/or
 - b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.

25. Governing Language

The Contract shall be written in English language. All correspondence and other documents pertaining to the Contract which are exchanged by the Parties shall be written in the same language.

26. Taxes and Duties

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- 26.1 A foreign Supplier shall be entirely responsible for all taxes, duties, license fees and other such levies imposed outside the Purchaser's country. The foreign supplier shall also be responsible for all taxes & duties in Purchaser's country legally applicable during execution of the contract other than those which are to be paid by purchaser, as specified in as per relevant clause of NIT.
- A 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 NIT.

27. Limitation of Liabilities

Except in cases of criminal negligence or wilful misconduct;

- 27.1 Notwithstanding anything herein to the contrary, no party shall be liable for any indirect, special, punitive, consequential or exemplary damages, whether foreseeable or not, arising out of or in relation to this contract, loss of goodwill or profits, lost business however characterized, any/ or from any other remote cause whatsoever.
- The supplier shall not be liable to the purchaser for any losses, claims, damages, costs or expenses whatsoever arising out of or in connection with this contract in excess of the contract value of the goods and services supplied hereunder which caused such losses, claims, damages, costs or expenses.
- However, the limitation of liability of the supplier indicated above shall not apply to Liquidated damages.
- 28. Settlement of commercial disputes in case of contracts with Public Sector Enterprises/ Govt. Dept.(s) Not Applicable.

29. Progress Reports

- 29.1 The Supplier shall from time to time render such reports concerning the progress of the contract and/or supply of the stores in such form as may be required by the Purchaser.
- 29.2 The submission, receipt and acceptance of such reports shall not prejudice the right of the Purchaser under the contract nor shall operate as an estoppel against the Purchaser merely by reason of the fact that he has not taken notice of or objected to any information contained in such report.

30. 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) shall also be applicable, if not specified otherwise in this Bid document.

31. Applicable Law

The Contract shall be governed by the laws of the Republic of India, unless otherwise specified in the bid document.

32. Jurisdiction of Courts

- 32.1 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.
- 32.2 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.

33. Notices

33.1 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:

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Purchaser:

Executive Director (MM),
Coal India Lim. ed,
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: edmm.cil@coalindia.in/gmmm.cil@coalindia.in

Supplier:

M/s GMMCO Ltd., Birla Building, 9/1, R.N. Mukherjee Road, Kolkata – 700001

Email: vikaskumar@gmmcoindia.com Phone: 9424611063, 033-22107441

Manufacturer:

M/s Caterpillar Inc., 5205 N, O'Connor Blvd, Irving, TX 75039

Phone: (309) 675-2545

Email: das arup kumar@cat.com

33.2 A notice shall its effective when delivered or on the notice's effective date, whichever is later.

33.3 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.

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The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions contained herein shall prevail over those in the General Conditions of Contract. The corresponding Clause number of the General Conditions is indicated in parentheses. Further, there are some additional clauses in SCC.

Security Deposit (GCC clause -6)

The supplier has deposited security money in two separate bank guarantees in terms of the NIT provisions for 5 % (Five percent) value of the total landed value of the contract including all taxes, duties and other cost and charges as detailed below:-

A. Security Deposit in \$:

Bank Guarantee No. OGT0015250007868 dated 28.07.2025 for \$15,02,226.00 (USD Fifteen Lakhs Two Thousand Two Hundred and Twenty Six Only) valid till 31.03.2027 from IndusInd Bank Mumbai. The same has been confirmed by the bank through SFMS.

A copy of Bank Guarantee is enclosed as Annexure-1 (a).

B. Security Deposit in Indian Rupees:

Bank Guarantee No. 0999925BG0Y01799 dated 16.07.2025 for Rs.6,03,89,327.00 (Rupees Six Crores Three Lakhs Eighty Nine Thousand Three Hundred and Twenty Seven Only) valid till 31.03.2027 from SBI Chennai. The same has been confirmed by the bank through SFMS.

A copy of Bank Guarantee is enclosed as Annexure-1 (b).

- The SDBG shall remain valid upto 3 months after the supply and commissioning of all the 1.2 equipment. The SDBG will be released within 30 days after successful commissioning of all the equipment covered in the contract and on receipt of confirmation of Performance Bank Guarantee(s) for all the equipment covered in the contract, as detailed in clause-2 below. The Bank Guarantee for Security Deposit shall be extended till the Performance Bank Guarantee (s) are submitted by the firm, failing which Security Deposit will be forfeited.
- Subject to force majeure conditions, if the Manufacturer/Supplier fails to extend the Bank .3 Guarantee for Security Deposit, suitably as required, the same shall also be recorded as unsatisfactory performance for future dealings apart from taking any other penal action as may be deemed fit by CIL.
- Security Deposit may be converted into Performance Bank Guarantee (PBG) at the option of the supplier by increasing its value / validity accordingly. Also, the format needs to be modified to take into account the Contract no. and date instead of the NoA no. and date. At the time of conversion of Security Deposit into PBG, it should be ensured that the amount of PBG should not be less than the amount prescribed under Clause-2.1 below. Wherever Security Deposit is converted into PBG, the operation of such SDBG/Performance BG shall be guided by Performance Bank Guarantee Clause mentioned below.

Performance Bank Guarantee (PBG) (GCC Clause 7) 2.

2.1 The supplier shall be required to furnish a Performance Guarantee equivalent to 10% value

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of the total landed value of the Equipment along with maximum annual landed value of spares and 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 subsidiaries wise to Paying Authority of concerned subsidiary.

- The Performance Guarantee shall be deposited through RTGS/NEFT/IMPS/e-BG/other 2.2 digital modes or in the form of a Bank Guarantee issued by a RBI scheduled bank in India in the format attached on a non-judicial stamp paper.
- The Performance Bank Guarantee (PBG) shall be in the same currency (ies) in which 2.3 contract has been signed. In case of multi-currency contract, separate PBG in respective currency for required value shall be submitted.

Total value of PBG in US Dollar shall be for USD 30,04,454.00 (US Dollar Thirty lakh Four Thousand Four Hundred and Fifty Four only) and total value of PBG in INR shall be for Rs 12,07,78,656.00 (Rupees Twelve Crore Seven Lakhs Seventy Eight Thousand Six Hundred and Fifty Six only).

2.4 The Performance Bank Guarantee (s) may be submitted equipment wise to the concerned subsidiary where the equipment will be supplied. For this purpose, the value of each equipment will be worked out by dividing the total value of PBG, by the number of equipment ordered.

Sl. No.	3	Qty (Nos.)	PBG for equipment in USD (per fleet)	PBG for equipment in USD (per equipment)	PBG for spares & consumables in INR (per fleet)	PBG for spares & consumables in INR (per equipment)
1	Gevra, SECL	3	5,63,335.00	1,87,779.00	2,27,74,608.00	75,91,536.00
2	Gevra, SECL	3	5,63,335.00	1,87,779.00	2,27,74,608.00	75,91,536.00
3	Dipka,SECL	6	11,26,669.00	1,87,779.00	4,53,72,341.00	75,62,057.00
4	Dudhichua NCL	1	1,87,779.00	1,87,779.00	74,64,275.00	74,64,275.00
5	Bina – Kakri Amalgamation NCL	1	1,87,779.00	1,87,779.00	74,64,275.00	74,64,275.00
6	Jayant, NCL	2	3,75,557.00	1,87,779.00	1,49,28,549.00	74,64,275.00
	Total	16	30,04,454.00		12,07,78,656.00	

The PBG (s) shall remain valid till 3 months after the completion of the contractual period 2.5 of all the equipment covered in the contract.

The initial period of validity of the PBG(s) may be for 50% of the contract period (3 years) for dozers) or 5 years, whichever is lower, with the provision for timely action for the extension/ renewal/ replacement of the initial PBG for the balance 50% of the contract period (3 years) plus 3 months after the completion of the contractual period of all the equipment covered in the contract or till balance contract period of all the equipment covered in the contract plus 3 months, whichever is lower.

This extension / renewal / replacement of initial PBG / extended PBG should take place 45 days prior to the expiry of the initial/ extended validity failing which CIL/Subsidiary shall be entitled to encash the PBG after giving 15 days' notice to the supplier and hold the amount as security for performance of the supplier's obligations under the agreement till

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completion of the contract period. The PBG shall be encashed at least 7 days prior to expiry.

The PBG shall be submitted to the Paying Authority, sufficiently in advance (say 3-4 2.6 weeks) to enable its verification before submission of the invoice for 80% payment of the particular equipment(s)

OR

in case the Supplier desires to convert SDBG into PBG at its option, extension of validity of SDBG for the requisite period as mentioned at Clause 2.5 above and suitable changes in format, is to be submitted before submission of the invoice for 80% payment of the first equipment of the contract

in lieu of PBG, a letter be submitted sufficiently in advance (say 3-4 weeks) to the Paying Authority to deduct PBG value as per stipulation in clause 2.1 from the invoice for 80% payment of the particular equipment (s) which may be kept as PBG for that particular equipment(s).

The PBG issued by Issuing bank on behalf of the bidder in favour of "concerned subsidiary 2.7 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 Paying Authority 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.

The release of the Performance Bank Guarantee(s) / converted SDBG after above indicated 2.8 period, shall be subject to satisfactory performance of the equipment during 8 years period from the date of commissioning of the equipment and fulfillment of contractual obligations failing which, action for further extension or encashment of PBG / converted SDBG, 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. In case of converted SDBG, the release will be done only after satisfactory performance of all the equipment covered in the Contract or in case of unsatisfactory performance of some equipment, or on receipt of the Claim amount to be recovered from the Supplier, with suitable deductions for unsatisfactory performance of equipment, if any, from the converted SDBG.

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

- 'No Claim Certificate' from the HOD of User department; and
- 'No Claim / Dispute Certificate' from the Supplier as per format provided as Annexure-4.

Whenever deductions towards unsatisfactory performance of equipment or nonachievement of guaranteed availability in a particular year(s) are made within the tenure of the PBG/converted SDBG during the contract period, the amount deducted from the PBG/converted SDBG should be replenished within a month in order to ensure that the

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original value of the PBG/converted SDBG remains the same throughout the contract period.

2.9 You shall submit the copy of SFMS Message as sent by the issuing Bank branch along with original Bank guarantee.

3. Inspection and Test (GCC Clause 8)

- Pursuant to Clause 8.1 of the GCC, 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 Section VI, Technical Specifications.
- 3.2 Clause 8.3 of the GCC is modified to read as follows:

 "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 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".
- 3.3 The following Clause is added as Clause 8.7 to the GCC:

"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".

4. 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.

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 in the Hindrance register in the format (Annexure -5).

If the supplier fails to commission the equipment within the specified period as mentioned above, Liquidated damages will be recovered @ 0.5% of the landed price of the equipment along with accessories per week or part thereof for the delayed period subject to a maximum of 5% of the landed price of equipment along with

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accessories.

(b) Tools

Supplier have furnished tools required for assembly and maintenance of the supplied Goods as detailed in the Schedule of Requirements and the Technical Specifications.

(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.

5. Insurance (GCC Clause-11)

Pursuant upon Clause-11.1, GCC, the insurance coverage of the goods will be upto successful erection and commissioning of the equipment at site.

6. Transportation (GCC Clause-12)

Add the following paragraph to the Clause-12.3, GCC:

"Marine Freight and Marine Insurance Charges shall be paid at actuals against documentary evidence subject to the ceiling of quoted amount. Inland Freight charges and Inland Insurance charges shall be paid at actuals against documentary evidence but not beyond the rate/price quoted under these heads."

7. Warranty (GCC Clause-13)

The "thirty days" mentioned in Clauses-13.3 and 13.4 of the GCC shall stand replaced by "sixty days".

For the purpose of Clause 13.5 of the GCC, "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. Payment (GCC Clause 14)

8.1 Pursuant to Clause-14.1 of the GCC, the payment terms are as follows:

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- 8.2 Payment shall be made in the currency or currencies specified in the contract in the following manner:
- 8.2.1 For Payment of equipment in Indian Rupees: (NOT Applicable)
- 8.2.2 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 receipt and acceptance of materials at consignee's end.

8.2.3 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.

- 8.2.4 Submission of Documents for Payment for equipment in Indian Rupees: (NOT Applicable)
- 8.2.5 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 GST No. 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 GCC Clause-13.2 & 13.5.
- d. The following Lowest Price Certificate as per SCC clause 9.3:

organization during the currency of the Contract".

- "We certify that prices for the items supplied 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 and it will be our responsibility to inform the Purchaser in case items are supplied at a lower price".
- "We certify that we have 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
- f. Any other dccument(s) required as per contract.
- 8.2.6 Submission of Documents for Payment in Indian Rupees for spares and consumables during 2nd year to 6^h 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 GST No. of

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Ultimate Consignee.

- b. Copy of Receipted Challan/ Consignment Note of all the consignments.
- c. Equi; ment Manufacturer's / Supplier's Warranty / Guarantee Certificate as per GCC Clause-13.2 & 13.5.
- d. The following Lowest Price Certificate as per SCC clause 9.3:

 "We certify that prices for the items supplied 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 and it will be our responsibility to inform the Purchaser in case items are supplied at a lower price".
- e. The following Price Fall Certificate as per SCC Clause- 9.3

 "We certify that we have 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 during the currency of the Contract".
- 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.

8.3.1 For Payment of equipment in foreign Currency

- i) An unconfirmed, irrevocable letter of credit will be established for net CIF value after deducting Indian Agency Commission, if any from the CIF value.
- ii) 80% payment of the net CIF value will be made through unconfirmed, irrevocable letter of credit against submission of:
 - A. shipping documents;
 - B. Self-attested copy of acceptance letter of the PBG as per Clause 2, SCC, Sec-IV by the concerned subsidiary **OR** Self-attested copy of acceptance letter of the extended SDBG as per Clause 1.11, SCC, Sec-IV by CIL or letter for deduction of equivalent amount from their bills.
 - C. Copy of Receipted Challan/ Consignment Note of all the consignments.
- Balance 20% of the net CIF value will also be paid through same unconfirmed irrevocable, letter of credit against submission of 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.
- iv) The Marine freight and Marine Insurance charges shall be paid at actuals subject to ceiling of the quoted amounts.

All bank charges incidental to opening of letter of credit in purchaser's country shall be borne by purchaser and all charges in the seller's country shall be borne by the beneficiary.

The letter of credit shall not be confirmed. In case the bidder insists for confirmation of the letter of credit, the cost of confirmation shall be borne by the bidder.

L/C shall be opened by the paying authority of the concerned subsidiary.

L/C shall allow partial shipment and trans-shipment

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INR Component of Equipment

80% payment of the INR component of CIP value of the equipment but excluding erection and commissioning charges and 100% taxes and duties shall be made within 21 days after receipt and acceptance of equipment at site at the consignee's end and submission of either (a) Performance Bank Guarantee having validity till 3 months after the completion of 6 years from the date of commissioning of all the equipment covered in the contract or initial validity of 50% of Contract period (3 years for dozers) or 5 years, whichever is lower; or (b) Copy of validity extension of SDBG, in case SDBG is converted into PBG at the option of the supplier, till 3 months after the completion of 6 years from the date of commissioning of all the equipment covered in the contract or initial validity of 50% of Contract period (3 years for dozers) or 5 years, whichever is lower. In case of non-submission of PBG or converted SDBG, payment may be made after deducting equivalent amount as PBG on specific request of the Supplier.

Balance 20% of he INR component of CIP value including 100% erection and commissioning characteristic rights shall be made after successful completion of erection, testing, commissioning an 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 Deptt. of the subsidiary company, where the equipment has been deployed.

The Inland freight charges and Inland Insurance charges shall be paid at actual against documentary evide ace subject to ceiling of the quoted rate/price quoted under these heads.

8.3.2 For Payment of consumable spares and consumables for first 12 months of warranty period in foreign Currency: (NOT APPLICABLE)

8.3.3 Submission of Documents for Payment in foreign Currency for equipment

For 80% Payment:

For Payment for equipment in foreign Currency, the supplier will submit the following documents along with bills to the bank for negotiating L/C:

- a. Two (2) copies of the Supplier's shipping invoice showing Contract Number, Goods description, quantity, unit price, total amount and GST No. of Ultimate Consignee.
- b. Two (2) copies of the clean on-board bill of lading and four (4) copies of non-negotiable bill of lading. Importer Exporter Code (IEC) of concerned subsidiary Co. should be mentioned in Bill of Lading.
- c. Two (2) copies of packing list identifying contents of each package.
- d. Equipment Manufacturer's Warranty /Guarantee Certificate as per Technical Specification Clause-C.9.
- e. Manufacturer's Test & Inspection Certificate
- f. The following Lowest Price Certificate as per SCC clause 9.3:
 - "We certify that prices for the items supplied 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 and it will be our responsibility to inform the Purchaser in case items are supplied at a lower price".
- g. The following Price Fall Certificate as per SCC Clause- 9.3 "
 - "We certify that we have 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

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organization during the currency of the Contract".

- h. Certificate of Country of Origin issued by the Chamber of Commerce of Manufacturer's Country.
- i. Self-attested copy of acceptance letter of the PBG as per Clause 2, SCC, Sec-IV by the concerned subsidiary

OR

Self-attested copy of acceptance letter of the extended SDBG as per Clause 1.11, SCC Sec-IV by CIL or self-attested letter for deduction of equivalent amount from their bills.

- j. A certificate that no commission is payable by the principal supplier to any agent, broker or any other intermediary against this contract other than -----0% of FOB value of the contract to M/s. -----(Indian Agent).
- k. Copy of Goods Consignment Note supported by Challans of all the consignments, duly receipted by consignee, with the certificate from supplier that all the consignments for commissioning of complete equipment have been delivered
- 1. Copy of Certificate of Insurance.
- m. Documentary evidence for Marine freight and marine Insurance.
- n. Any other document(s) required as per contract

For 20% Payment:

- Self-attested copy of 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.
- 8.3.4 Submission of Documents for Payment in foreign Currency for consumable spares and consumables during warranty period(NOT APPLICABLE)

8.4 Payment for Indian Agency Commission (GCC Clause-14.2)

The Clause-14.2, GCC is modified and the following is also added:

Indian Agency commission (@ 4% (four percent) of FOB value of the Equipment is included in the FOB Price as per Price Schedule), for equipment shall be paid in equivalent Indian Rupees within twenty-one days of submission of bills, after installation and commissioning of the equipment on submission of the following documents:

- (A) Copy of foreign principal's invoice.
- (B) Copy of bill of lading.
- (C) Self-attested copy of certificate from State Bank of India regarding Bill Selling exchange rate ruling on the date of bill of lading (in case of bank holiday on date of bill of lading, Bill Selling exchange rate on next working day shall be considered) or self-attested downloaded sheet from SBI portal containing Bill Selling exchange rate ruling on the date of bill of lading (in case of bank holiday on date of bill of lading, Bill Selling exchange rate on next working day shall be considered).
- (D) Self-attested copy of commissioning certificate of the equipment 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.

Paying Authority shall verify the self-attested downloaded sheet of SBI containing the Bill Selling Exchange rate from the SBI portal/website and after verification, make payment.

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Indian Agency Commission, if any, for consumable spares and consumables for 1styear of operation from the date of commissioning of the equipment shall be paid in equivalent Indian Rupees on receipt and acceptance of the same at consignee's end. Paying Authority shall obtain confirmation of receipt and acceptance of the same from the consignee before release of Indian Agency Commission. The payment shall be made within twenty one days of submission of bills along with following documents:

- (A) Copy of foreign principal's invoice.
- (B) Copy of bill of lading.
- (C) Certificate from State Bank of India regarding Bill Selling exchange rate ruling on the date of bill of lading (in case of bank holiday on Date of bill of lading, Bill selling exchange rate on next working day shall be considered) or self-attested downloade I sheet of SBI portal containing Bill Selling exchange rate ruling of the date of bill of lading (in case of bank holiday on date of bill of lading, Bill Selling exchange rate on next working day shall be considered).

Paying Authority shall verify the self-attested downloaded sheet of SBI containing the Bill Selling Exchange rate from the SBI portal/website and after verification, make payment.

8.5 Paying Authority

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

The payments will be made by the Paying Authority to the manufacturer and / or Indian agent shall be per the Bank Details for Electronic Payment [Annexure-7]. The same is enclosed.

This is against Budget Certification as under:-

SECL:

BC under capital head

No.	Unit Area	Head	Year	Amount (Rs)
318	GM Office (Gevra)	P&E HEMM	2025-26	99,96,48,572.00
26.06.2025	GM Office (Gevra)		2025-27	16,66,08,095.00
	GM Office (Dipka)		2025-26	66,64,32,381.00
	GM Office (Dipka)		2025-27	33,32,16,191.00
	SECL8651			
	SECL8651			
	SECL8851			
- 041 W 191 121A	SECL8851		Marian and	
Commitment Item	4100			216,59,05,239.70

BC under revenue head

SECL/GM(F)/CONS.HEMM SPARE/ BC/AREAS OF SECL/2026-27 to 2031-32/50/03 for Rs.36027.12 lakhs dated 27.06.2025

NCL:

Capital budget:

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Special Conditions of Contract (SCC)

Capital Budget/BC of Rs.81,33,17,387.24 (Rupees Eighty-One Crore Thirty-Three Lakh(s) Seventeen Thousand Three Hundred Eighty-Seven and Paise Twenty-Four Only) vide ref. no. NCL/HQ/C&B/Capital/ HEMM/2025-26/02 dt 28.06.2025.

FC for total value of Rs.81,33,17,387.24 (Rupees Eighty-One Crore Thirty-Three Lakh(s) Seventeen Thousand Three Hundred Eighty-Seven and Paise Twenty-Four Only) is given vide ref. no. NCL/HQ/FC/2025-26/ Capital/HEMM/02 dt. 28.06.2025.

Revenue Budget:

Budget/BC of Rs.11,29,32,023.88 (Rupees Eleven Crore Twenty-Nine Lakh(s) Thirty-Two Thousand Twenty-Three and Paise Eighty-Eight Only) from Centralised HEMM Spares budge is kept at HQ, vide ref. no. NCL/HQ/BC/2025-26/Centralised HEMM Spares/86 dt 28.06.2025.

FC for Rs.11,29,32,023.88 (Rupees Eleven Crore Twenty-Nine Lakh(s) Thirty-Two Thousand Twenty-Three and Paise Eighty-Eight Only) is given vide ref. no. NCL/HQ/FC/2025-26/Centralised HEMM Spares/ 78 dt 28.06.2025.

The budget for the subsequent years will be provided by NCL after the communication of the Revenue Budget for the respective years by GM(Excv)-HOD, NCL

9 Prices

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

9.2 Lowest Price Certificate

The Supplier shall submit a certificate that prices for the items supplied 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 and it will be our responsibility to inform the Purchaser in case items are supplied at a lower price.

9.3 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

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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. 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 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.
- 10. Taxes and Duties (GCC Clause-26)
- 10.1 The following sub-clause is added to Clause-26, GCC:

Applicability of GST on Liquidated damages, EMD and/or Security Deposit forfeiture: GST shall not be applicable on Liquidated damages, EMD and/or Security Deposit forfeiture

11. Changes in Order (GCC Clause 15)

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.

12. Provisions of CIL's Purchase Manual (GCC Clause 30)

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 this Contract.

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Schedule of Requirements

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Schedule of Requirements

Part I

SI.	Brief Description of Goods & Services	Quantity	Expected Delivery schedule at Site
No 1	& Services 850 HP Crawler Dozer with Ripper Model: CAT D11 [Engine Net Power: 850 HP (634 Kw) @ 1800 rpm]	16 Nos.	At least 03 (three) machines within 10 (ten) months from the date of signing of Contract and thereafter at least 03 (three) machines per month. Project wise Allocation: Machine with Ripper (i) Gevra OCP, SECL – 6 nos. (ii) Dipka OCP, SECL – 6 nos. (iii) Dudhichua OCP, NCL – 1 no. (iv) Bina-Kakri Amalgamation OCP, NCL–1 no. (v) Jayant OCP, NCL – 2 no. Project wise Priority Allocation: 1st Dozer Gevra OCP, SECL 2nd Dozer Gevra OCP, SECL 3rd Dozer Gevra OCP, SECL 3rd Dozer Gevra OCP, SECL 4th Dozer Jayant OCP, NCL 5th Dozer Bina-Kakri Amalgamation OCP, NCL 6th Dozer Dudhichua OCP, NCL 7th Dozer Gevra OCP, SECL 8th Dozer Gevra OCP, SECL 9th Dozer Gevra OCP, SECL 10th Dozer Gevra OCP, SECL 11th Dozer Gevra OCP, SECL 12th Dozer Dipka OCP, SECL 12th Dozer Dipka OCP, SECL 13th Dozer Dipka OCP, SECL 14th Dozer Dipka OCP, SECL 15th Dozer Dipka OCP, SECL 15th Dozer Dipka OCP, SECL 15th Dozer Dipka OCP, SECL 16th Dozer Jayant OCP, NCL Adjustment to the excess supplies, if any, made against the above delivery schedule is admissible in case of subsequent short supplies.
2	AFDSS and other commissioning requirements as per Annexure – 6g of the NIT (contract), if any, and Ancillary Equipment for each equipment of Item I (above), as specified in Technical Specifications, Section-VI.	In accordance with item 1	Delivery to be made along with the Machine.
3	Provision of spare parts; - Operational, Maintenance and Standby/Contingency spare parts, consumable	06 (1 + 5) years	To comply with the terms of part C.6 of Technica Specifications, Section VI and in consideration o Items 1 and 2 above.
	items, wear materials, maintenance tools, special	Sange ha	The delivery of spare parts and consumables should be made as follows: 153/301 dated 01.09.2025 Page

tools in accordance with Part C.6 of the Technical	a) Consumable spares and consumables required for first 12 months of warranty period— to be
Specification, Section-VI.	supplied in two lots within six months from the date of commissioning of the first equipment.
The cost of Spare Parts requirement shall be quoted separately for each project	No consumable spares and consumables of warranty period will be accepted after completion of 12 months of warranty period.
	b) Spares and consumables required from 2 nd to 6 th 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.

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

SI. No.	Name of Project	Company	Consignee Address	Total Re	quirement
_	hine with Rippe	er		Under NCD	Under PCD
1	Gevra, OCP	South Eastern Coalfields Ltd.	Depot Officer, Regional Stores, Gevra Area, South Eastern Coalfields Limited, P.O. Gevra, Distt. Korba, Chattisgarh, India, Pin- 495452	03	03
2	Dipka, OCP	South Eastern Coalfields Ltd.	Depot Officer, Regional Stores, Dipka Area, South Eastern Coalfields Limited, P.O. Dipka, Distt. Korba, Chattisgarh, India, Pin- 495452	06	
3	Dudhichua, OCP	Northern Coalfields Ltd	Depot Officer, Regional Stores, Dudhichua Project, Northern Coalfields Ltd., P.O. – Khadia, Sonbhadra, Uttar Pradesh (India) Pin- 231222	01	
4	Bina-Kakri Amalgamation , OCP	Northern Coalfields Ltd.	Depot Officer, Regional Stores, Bina Project, Northern Coalfields Ltd., P.O. – Sonbhadra Dist. Sonbhadra, Uttar Pradesh (India) Pin- 231220	01	
5	Jayant, OCP	Northern Coalfields Ltd.	Depot Officer, Regional Stores, Jayant Project, Northern Coalfields Ltd., P.O. – Jayant Colliery, Dist. Sidhi Madhya Pradesh (India) Pin - 486890	02	
		Total		13	03

Delivery Terms

Note:

Price for the equipment along with accessories and Spares & Consumables for the projects shown under NCD heading should be quoted with Normal Custom Duty (NCD).

Price for the equipment along with accessories and Spares & Consumables for the projects shown under PCD heading should be quoted with Project Concessional Duty (PCD) applicable for the imported contents, as per extant customs rules and regulations.

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 As on date the Basic Customs Duty (BCD) for both NCD & PCD is 7.5% for the tendered equipment. Bidders should ascertain at their end the applicable BCD while submitting their offer.

Delivery Terms

- A) In case of Import Contract: On CIP (Final Place of Destination) basis.
- B) In case of Indigenous portion of Contract: On FOR Destination basis / Free Delivery at Site basis.

<u>Delivery Schedule</u>: Delivery schedule as indicated above, shall reckon from the date of Contract. However, in case of order for equipment under PCD on Indigenous manufactures, delivery period will be counted from the date of intimation to the supplier that the project registration with Customs has been completed subject to furnishing of all the documents or compliance of all requirements of Customs by the Supplier required for registration of project. In case of direct import, delivery shall not be linked with issue of PCD certificate.

Port Consignee:

The Purchaser's Port Consignee shall be:

General Manager (MM), Coal India Ltd., Coal Bhavan, Premises No.4, Plot No. AF-III, Action Area 1 A, New Town, Kolkata 700 156, West Bengal, India.

Ph: +91 33 23246640 Fax: +91 33 23246000

e-mail id: edmm.cil@coalindia.in / gmmm.cil@coalindia.in

All activities to clear goods through Customs and transport to Final Place of Destination will be undertaken by the Supplier at its cost. The Purchaser will pay Customs Duties only applicable to imported goods.

Country of Origin for the equipment: USA.

Name of the Port of Shipment / Loading: Port of Los Angeles, California / Port of New Jersey and New York / Port of Long Beach, California/Port of Savanah / Port of Houston, Texas / Port of Virginia / Northwest Sea Port -Seattle-Tacoma / Port of Charleston, South Carolina / Port of Oakland, California / Port of Miami, Florida / Jacksonville / Baltimore.

Name of the Port of Arrival in India: Chennai / Kochi / Ennore / Kolkata / Kandla / Mangalore / Mormugao/Mumbai / JNPT (Nhava Sheva) / Paradip/Tuticorin / Vishakapatnam.

Final Place of Destination / FOR Destination / Ultimate Consignee

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

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Sl. No.	Brief Description of Services	Period/Quantum			
Training of Purchaser's Personnel at Project Site / Manufacturer's Training Facility available in India		Please refer to Schedule of Requirements of Service later in this Section and to the Technical Specification (Section VI).			
2	Assembly and erection of equipment at Site in accordance with the Technical Specification and Conditions of Contract.	As given in Annexure – 6(n)			

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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

Table - A

Name of the Project: - Dipka OCP, SECL (Under NCD)

Fleet Size: - 6 nos.

Type of Personnel	At Manufacturer's training facilities available in India						At Site				
	No.	I	Period		Total	No.	P	eriod	44.5 * 1	Fotal	
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	Elizating		Week		Week	
Mech Fitter	-	-	Week	-	Week	6	1	Week	6	Weeks	
Electrician	-	-	Week	-	Week	3	1	Week	3	Weeks	
Operator	-	-	Week	141-67	Week	21	1	Week	21	Weeks	
Total	3		1.5	3	Weeks	32			32	Weeks	

Table - B

Name of the Project:- (i) Gevra OCP, SECL (Under PCD)

(ii) Gevra OCP, SECL (Under NCD)

Fleet Size: - 3 nos.

Type of Personnel	At Manufacturer's training facilities available in India						At Site				
	No.	1	Period	20 27	Total	No.	F	Period	-1 4-7	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	10.40	-	Week	-	Week	
Mech Fitter	-	-	Week	4.	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	

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Name of the Project:- Jayant OCP, NCL (Under NCD)

Fleet Size:- 2 nos.

Type of Personnel	At Manufacturer's training facilities available in India						At Site			
	No.	1	Period		Total	No.	F	eriod		Total
Mech Engineer	1	1	Week	1	Week	i	1	Week	ĺ	Week
Mech Supervisor	i	1	Week	1	Week	1	1	Week	i	Week
Elec Supervisor	-	-	Week	-	Week	-	-	Week	-	Week
Mech Fitter	-	-	Week	-	Week	2	1	Week	2	Weeks
Electrician	-	-	Week	-	Week	1	1	Week	ĺ	Week
Operator	-	-	Week	-	Week	7	1	Week	7	Weeks
Total	2			2	Weeks	12		ar Asocopenio	12	Weeks

Table - D

Name of the Project:- (i) Bina-Kakri Amalgamation OCP, NCL (Under NCD)

(ii) Dudhichua OCP, NCL (Under NCD)

Fleet Size: - 1 no.

Type of Personnel	At N		cturer's training facilities At S vailable in India						ite		
	No.	I	Period		Total	No.	F	eriod		Total	
Mech Engineer	1	1	Week	1	Week	1	1	Week	1	Week	
Mech Supervisor	1	1	Week	i	Week	i	1	Week	1	Week	
Elec Supervisor	-	-	Week	-	Week	-	-	Week	-	Week	
Mech Fitter	-	-	Week	-	Week	2	1	Week	2	Weeks	
Electrician		-	Week		Week	i	1	Week	1	Week	
Operator	-	-	Week	-	Week	4	1	Week	4	Weeks	
Total	2			2	Weeks	9			9	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 (indicated in the Price Schedule).

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Technical Specifications

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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

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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 Caterpillar Make 850 HP Crawler Dozer, Model- CAT D11 (Engine Net Power 850 HP (634 KW) @ 1800 rpm) with Ripper Attachment to opencast (surface) coal mining projects as per the Technical Specifications provided in Pack D.

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

The package also includes Consumable Spares and Consumables including oils, greases, lubricants and 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 and Phasing of supply for the 850 HP Crawler Dozer (Engine Net Power 850 HP (634 KW) @ 1800 rpm) with Ripper Attachment 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 - 6(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), Cocl 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 will 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.

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

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, electrical drives 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 have 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 GEVRA OCP, SECL

The Gevra Opencast Project is owned by the South Eastern Coalfields Limited, a wholly owned subsidiary of Coal India Limited (the "Purchaser"). The mine is located partly in the Korba District of Chattisgarh. The nearest rail head is Gevra Road station on Champa – Gevra Road branch line of the South Eastern Railway Network.

Geological Conditions

Lateritic soil and sub soil, fine to coarse sandstone, sandy shale and carbonaceous shale.

Water Supply

Hasdeo river is the main source of water supply which is approximately 10 Km from mine site.

B.1.2 DIPKA OCP, SECL

The Dipka Opencast Project is owned by the South Eastern Coalfields Limited, a wholly owned subsidiary of Coal India Limited (the "Purchaser"). The mine is located partly in the Korba District of Chhattisgarh. The nearest rail head is Gevra Road station on Champa – Gevra Road branch line of the South Eastern Railway Network.

Geological Conditions

The area is covered with thick soil. The type of overburden is mainly shale and sand stone.

Power Supply

The Project will receive at 33 KV, and distributed at 6.6/3.3 KV.

Mine Water Quality

PH 7.6 to 8.4.

Water Supply

Hasdeo river is the main source of water supply

B.1.3 JAYANT OCP, NCL

The Jayant 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 Singrauli District of Madhya Pradesh approximately 08 km from Singrauli railway station.

Geological Conditions

Soil, Sandstone and Shale.

Power Supply

One132/33 kV Sub- station will be source of supply.

Mine Water Quality PH 7.1;

Temp-28.5 degree Centrigrade.

Total Suspended Solid 25(mg/ltr)

Total Dissolved Solid 300 (mg/ltr)

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Dissolved Oxygen 6.4 Biological Oxygen Demand 5 Chemical Oxygen Demand 14; Fe- 0.12

Water Supply

Linked to the IWSS (integrated water supply scheme) of the Singrauli Coalfields.

B.1.4 BINA-KAKRI Amagalation OCP, NCL

The Bina Opencast Project is owned by the Northern Coalfields Limited, a wholly owned subsidiary of Coal India Limited (the "Purchaser"). The mine (Marrak Block) is located 10Km south-east of Singrauli (Morwa) town and is situated in Sonebhadra District of UP. The singrauli and near Krishnashila Railway station on Sigrauli-Obra and Shaktinagar Karaila Rail links of East-Central Railway are located at a distance of 11Km North-West and 3Km east Of Bina OCP. The project is connected with all weather metalled road to Shaktinagar and Renukut.

Geological Conditions

A total of 6 series of formation have been recognised on broad lithic characteristics within the Gondwana rocks of Singrauli Coalfields. In ascending order they are: Talchir, Barakar, Barren Measure ,RaniGani, Panchet and Mahadeva. The Barakar & Ranigani are the main coal bearing formations of the area.

B.1.5 DUDHICHUA OCP

The Dudhichua Opencast Project is owned by the Northern Coalfields Limited, a wholly owned subsidiary of Coal India Limited (the "Purchaser"). The mine is located partly in the Sidhi District of Madhya Pradesh and partly in the Sonebhadra District of Uttar Pradesh approximately 14 km from Singrauli railway station.

Geological Conditions

Soil & Sub soil, Sandstone and Shale.

Power Supply

The Project will receive power at 132/33 kV through the Morwa Sub-station of the MPEB..

Mine Water Quality

PH 7.72

Total Suspended Solid 100(mg/ltr)

Water Supply

Linked to the IWSS (integrated water supply scheme) of the Singrauli coal fields

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Part C

General Requirements

C.1 Geography and Climatic Conditions

Elevauon:-

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.

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The component parts of all items shall, wherever possible, be selected from the standard ranges of reputable manufacturers.

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 Système 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.

If the Supplier observes that this Specification document contains any anomalies, ambiguities, flaws, errors or omissions, the Supplier shall immediately bring these to the attention of the Purchaser in the Pre-Bid Conference.

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

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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 are given in Annexure – 6(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 the Commissioning Certificate. The schedule of supply of spares and consumables shall be as 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.

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 2^{nd} 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) Final Drive
- e) Blade Assembly
- f) Under Carriage
- ii) The Spares Cost Cap shall be in Indian Rupees (INR) only and exclusive of estimated GST. Estimated GST shall also be indicated separately. 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

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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 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.

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- 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.
- 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.

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- 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.
- 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 from 1^{st} year to 3^{rd} year are 5000 (five thousand) hours and from 4^{th} year to 6^{th} year are 4500 (four thousand five hundred) hours for 850HP Crawler Dozer. The expected average working hours per annum as indicated are only approximate hours and may vary \pm 500 hours.

Total duration of contract will be 6 years for Crawler Dozers irrespective of working hours.

In case, actual average working hours of the fleet of the project exceeds 31,500 [{(5500 x 3) + (5000 x 3)} = 31,500] 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.

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.

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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:

- 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
- immediately following termination, provide to the Purchaser at no cost, manufacturing (b) drawings, material specifications and all necessary permissions to facilitate manufacture of the Spare Parts elsewhere.
- 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 (fifteen) 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 - 6(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.

Guaranteed Availability Provisions: C 7

Equipment	Minimum Annual Guaranteed Percentage Availability					
Dozer	1st to 4th year	5th to 6th year				
Caterpillar Make, Model- CAT Dl l, Crawler Mounted Dozer (with Ripper attachment) Engine Net Power 850 HP (634 KW) @ 1800rpm	80%	79%				

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.

C7.1.2 Where Equipment supplied under the Contract fails to meet the criteria of the Availability 2 and Guarantee, the Supplier shall, at its own cost, provide suitably qualified and experienced personnel

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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:

% Availabili ty= Scheduled Available Time - Downtime \(\time \) Scheduled Available Time

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:

a) 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.

b) Planned preventative maintenance programs;

It shall not however include:

- I. Damage due to abusive use or incorrect operation methods by the purchaser;
- II. Accidents;
- III. Strikes or stoppage of work by the Purchaser's personnel;
- IV. Natural disaster;
- v. Lack of Spare Parts not attributable to a failure of the Supplier.

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

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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 standa, d/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

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 clause-2 of SCC

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 adul or part thereof from the Guaranteed Availability for the first 5%.

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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 for 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

- C.10.1 The Supplier should furnish 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 9000:2015 or its equivalent.
- C.10.2 The Supplier shall 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- 6(d)

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Part D - EQUIPMENT SPECIFICATIONS

Equipment Specification of a Crawler mounted 850 HP Dozer with Ripper Attachment (ENGINE NET POWER 850 HP (634 KW) @ L800 RPM) MAKE - CATERPILLAR, MODEL – D11

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 self-propelled, Crawler mounted 850 HP dozer with Ripper Attachment, Make- Caterpillar, Model- D11 [Engine Net Power Range 850 HP (634KW) @ 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.			
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 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/ISO 6747	Earth-moving machinery, Tractors - Dozers, Terminology and commercial specifications			
0 : Part 1	Earth-moving machinery – Operation and maintenance –Contents & Formats			
50-2	Earth-moving machinery – Operation and maintenance – Operator's Manual-Part 2. List of references			
ISO 7095	Earth-moving machinery - Crawler tractors and crawler loaders - Operator's controls			
ISO 7129 Earth-moving machinery - Tractors with dozer, grader, tractor scrapers - edges - Principal shapes and basic dimensions				
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			

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 average density after blasting of 1800kg/m3.

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The dozer shall have the following minimum range of drawbar pull, measured according to ISO 7464:

- a. 350 kN to 700 kN at 1 km/h speed
- b. 390 kN to 880 kN at zero speed

D.4 Technical Requirements:

D.4.1 Engine:

The dozer shall be powered by a Caterpillar make, Model - C32 ACERT direct injection 4-stroke turbo charged diesel engine of net power ranging from 850 HP (634 KW) @ 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 / higher 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** – 6(e).

A suitable electronic tool (laptop) loaded with compatible software and all related accessories shall be provided project wise (1 no. laptop for a fleet of 5 nos. or part thereof) 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. Readable reports downloaded from each equipment will be provided.

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.

(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.

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D.4.2 Drive System:

Power transmission from the engine to the crawler drive sprocket is through conventional means i.e. torque flow transmission, differential, final drive, steering and brakes. A dynamically balance propel shaft with universal joints at both ends should be utilized for transmission of power. Adequate means should be provided to prevent damage to other components in the event of failure of universal joints.

Details are given in Annexure - 6(f)

Conventional Drive System: Following are provided in the offered equipment:

D.4.3 Transmission:

Equipment is fitted with Caterpillar make torque-flow transmission consisting of single stage torque converter (Stator Clutch Torque Divider), planetary gear drives and hydraulically operated multiple disc type clutches equipped with suitable valves for developing 3 forward speed and 3 reverse speed.

Heavy-duty removable belly guard is designed such that it does not allow accumulation of dirt.

D.4.4 Differential:

Equipment is fitted with Caterpular make Planetary Model, heavy-duty differential with high quality spiral bevel gear and pinions.

D.4.5 Final Drive:

Equipment is fitted with Double reduction Planetary Gear system from differential to drive axle.

D.4.6 Steering:

Independent track steering by means of hydraulically actuated oil cooled multiple disc Steering Clutches and Spring Applied, Hydraulically Released Multiple wet Disc Brakes are provided. These are held in engagement by springs and disengaged hydraulically.

D.4.7 Hoses:

The offered equipment is fitted with Fire resistant/ fire retarder 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.

D.4.8 Alternative Drive System:

In the case of any other alternative type of drive, the system must be clearly defined and illustrated. The advantages and disadvantages compared with a conventional system must be adequately described to allow proper evaluation.

D.4.9 Undercarriage:

The undercarriage shall be heavy duty rugged designed suitably, suspended with oscillating type equalizer bar and pivot shaft to reduce shock loads transmitted to the dozer. Track frames and load rollers shall be of sufficient strength to withstand the high loads, which may occur due to uneven ground conditions. They are welded construction and stress relived as required. The sprocket is segmented bolt-on type. Lifetime lubricated idler and rollers, and a reliable track tensioning arrangement are provided. Extreme service single grouser shoes of 710 mm width is provided.

D.4.10 Dozer Attachment:

The Dozer shall be fitted with hydraulically controlled Semi –U tilt dozer attachment. The dozer blade is heavy-duty type with steel wear plates and heavy-duty end bits. Heavy duty hardened steel wear resistant cutting edges, which comply with ISO 7129 is provided.

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D.4.11 Fuel tank:

The fuel tank has sufficient capacity for 16 hours operation without refuelling, and is provided with a level indicator and a lockable-hinged cap. Construction of the tank is such that it provides for easy accumulation and drainage of water with minimum loss of fuel. Fuel Tank is provided with Fast Fill System also.

D.4.12 Operator's Station:

A suitable Operator's Station is 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 with subsequent amendments.

D.4.12.1 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 criteria shall be in accordance with IS/ISO 5006. The sound level inside the cab shall be below 85 dB while the equipment is operating, and with the door closed. All operating controls, all monitoring, working signals and emergency switch to stop the engine should be conveniently located in consoles within easy reach of the operator and shall 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 bears an appropriate marking.

Doors, Windows and flaps are securely held in their intended operating positions. Doors are be 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.4.12.2 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 is in accordance with IS/ISO 3449.

D.4.12.3 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 are so designed to reduce vibration transmitted to the operator to the lowest level that can be reasonably achieved.

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

D.4.12.4 Operator's Controls and Indicators:

The controls have 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 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

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consistent and expected effect. The surfaces of frequently used pedals shall be fitted with skid resistant type materials.

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 are either be self-acting or 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.4.12.5 Starting and Stopping System:

Dozer is equipped with a starting and stopping device (e.g. key). The starting system has provision for protection against unauthorized use. The starting and Stopping system are designed such that movement of the machine, is not possible, while starting or stopping the engine, without activating the controls. (E.g. Transmission Neutral-Engine Start safety arrangement.)

D.4.13 Gauges and indicators/ Electronic Display:

The following are provided:

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

D.4.14 Warning Alarms / Lights/Indicator:

The following warning alarms are provided:

- a. Coolant level and temperature
- b. Engine oil pressure
- c. Converter oil tempe ature
- d. Front warning horn
- e. Reversing -DGMS complied Audio Visual Alarm.
- f. Warning alarms in case of failure of automatic lubrication system.

D.4.15 Engine Electrical System:

The dozer is provided with the following:

- a. 24V DC electrical system with suitable rated alternator of Caterpillar make
- b. 24 V Electrical starter motor of Caterpillar make
- c. High capacity maintenance free batteries of Caterpillar make.
- d. Battery isolation switch / Relay

D.4.16 Lighting:

Adequate lighting is provided for safe nightshift operation. The lighting system includes the following:

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

Headlights and rear working lights are identical in type and size and fitted in steel protective enclosures.

D.4.17 Guards and shields:

Adequate guards and shields, which comply with IS/ISO 3457, are provided throughout the dozer.

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D.4.18 Automatic Fire Detection and Suppression System (AFDSS):

An automatic fire detection and suppression system manufactured in India by Southern Electronics/ Automation Control/ Ansul (Maco) 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 will 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 will 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 will be clean and shall not damage electrical / electronic component.
- Fire suppression system will 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 will 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 are 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 the extreme mining conditions with dust, dirt, water & vibrations.

The high pressure storage vessels and hoses, if used with fire- fighting and fire suppression systems, will confirm 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 - 6(g)

D.4.19 Fire Extinguisher:

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

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) CircularNo.02 dtd. 08th July 2013 with subsequent amendments.

Note: Periodical refilling shall be done by the supplier.

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Detail given in Annexure - 6(h)

D.4.20 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 sha'l 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.

- 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

Detail given in Annexure 6(i)

D.4.21 Lubrication system

A Caterpillar (Factory installed) centralized microprocessor/micro control /PLC based electrically operated, automatic lubrication system 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 processary, 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 inbricants will be provided.

Detail given in Annexure 6(j)

D.5 Ancillary equipment and other requirements: Front pull hook

D.6 Health Monitoring System (HMS)

The equipment shall be provided with suitable licensed, on-line, real time, monitoring interface facility, compatible for GPS / GPRS-based transfor 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:

- 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

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- 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 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.

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 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 - 6(k)

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 from 1^{st} year to 3^{rd} year are 5000 (five thousand) hours and from 4^{th} year to 6^{th} year are 4500 (four thousand five hundred) hours. The expected working hours per annum as indicated are only approximate hours and may vary \pm 00 hours.

In case, actual average working hours of the fleet of the project exceeds 31,500 [{(5500 x 3) + (5000 x 3)} = 31,500] hours during the tenure of 6 years (72 months) of contract period, then spares & consumables items, 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

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supplier shall guarantee that the availability of each equipment shall not be less than 80% (eighty percent) annually for a period of 1st year to 4th year of operation and 79% (seventy nine 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 mainter race 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 -6(1)

D.9 Information to be provided by the supplier:

The supplier shall furnish the following information.

D.9.1 General:

The information in the above format should be self-certified.

a) Details of D11 Tool Kit to be provided with each machine along with the D11 Special Tool (Project-wise) and 1no. Laptop for a fleet upto 5 equipment or part thereof.

Detail given in Annexure – 6(m)

b) Details of erection programmes given in Annexure - 6(n)

D.9.2 Technical Details:

- i) Detailed technical descriptions and specifications of the dozer are given in Annexure -6(0).
- ii) Layout drawings and detailed descriptions of all machinery including method of power transmission, mounting details and method of alignment are given in Annexure -6(p).
- iii) Latest engine performance curves showing net power, net torque and specified fuel consumption of the installed engine, measured according to IS/ISO 9249 are given in Annexure -6(q).
- iv) Maximum travel speed determined according to IS/ISO 6014 Detail given in Annexure 6(r)
- v) Calculation of volumetric rating of dozer blade in accordance with IS 12645/ISO 9246. **Detail given in Annexure 6(s)**
- vi) Dozing Production Curves, showing the following.
- a. Production with offered blade at 30m distance.
- b. Production with offered blade at 60m distance.
 - Detail given in Annexure 6(t)
- vii) Detail technical description of Automatic fire detection and suppression System with Layout/Sketch are given in Annexure 6(g).
- viii) Detail technical description of Automatic lubricating System with Layout/Sketch are given in Annexure -6(i).
- ix) Comprehensive commercial literature specifications, the content of which must comply with IS/ISO 6747 are given in **Annexure** –6(u)
- x) Details of major bought-out assemblies and sub-assemblies including manufacturer's name with address, type, model etc given in Annexure 6(b)
- xi) Detailed list of instrumentation monitoring and alarm systems given in Annexure -6(k)
- xii) Operation and maintenance manual will be provided at the time of commissioning of the machine. Undertaking by the Supplier in Annexure -6(v)

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D.9.3 Dimensions, Weight and Performance Details:

D.9.3.1 Dimensions:

a) Maximum overall length with and without blade (m) With Blade -8.579 m Without Blade -6.160 m

b) Maximum overall width, with and without blade (m) With Blade - 5.584 m Without Blade -3.782 m

c) Maximum overall height (m) 4.723 m d) Drawbar height (m) 0.942 m

D.9.3.2 Machine weights:

a) Shipping weights of individual components (kg) Detailed in Annexure -6(w)

Total Operating weight (kg) 101612 Kg

c) Operating weight excluding dozer attachment (kg) 74543 Kg (Excluding Blade & Ripper Attachment.)

D.9.3.3 Engine:

a) Manufacturer and Model Manufacturer - Caterpillar Model - C32 ACERT

b) Number of cylinders 12 Bore (mm) 145 mm c) d) Stroke (mm) 162 mm e) Displacement (litre) 32.1 Ltr Net power atrpm (kw) 634 kW @ 1800 rpm f) Maximum Torque (nm) 4748 Nm @ 1200 rpm

D.9.3.4 Transmission:

a) Make and Model Make - Caterpillar Model - Planetary Power Shift

b) Number of gear speeds, forward and reverse Forward - 3, Reverse - 3
c) Travel speeds, forward and reverse (Km/h) 3 - Forward - 12.2 Km/h

Travel speeds, forward and reverse (Km/h)
3 - Reverse - 14.7 Km/h

D.9.3.5 Differential:

Make and Model Make - Caterpillar

Model - Planetary

Type

Bevel to Pinion
1:1.2173

D.9.3.6 Final Drive:

a. Type
b. Ratio
Double Reduction Planetary Gear Set
Final Drive - 1: 22.3

D.9.3.7 Steering and braking:

a) Type Multiple wet Disc Steering Clutch & Multiple wet Disc Brake

b) Actuating System Steering - Hydraulically actuated

Brake - Spring Applied, Hydraulically Released

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D.9.3.8 Undercarriage:

Undercarriage overall width (m) 4.379 m (With Trunion)

3.782 m (Without Trunion)

Crawler track height (m) Crawler effective length (m) c)

Crawler width (m)

Crawler shoes, total number Ground contact area (sq.m) f)

Ground bearing pressure (kpa) Load rollers, diameter and number per crawler (m)

Driving Sprocket diameter (m)

Idler roller diameter (m)

2.61 m 4.444 m 0.710 m

41 Nos per track, Total - 82 Nos.

6.3 sq. m 162 kpa

8 x 287 mm, 8 x 277 mm, 0.55 m

1.17 m 0.932 m

D.9.3.9 Hydraulic System:

a) Make, Model, Number, flow rates and operating pressures of pumps:

Make & model - Caterpillar,

Variable displacement pump - 670 L/min

@ 1800 rpm & 6895 Kpa

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

) i	MAKE & M	ADEL - CATERPILLAR	1.200
v * 1	Qty/Tractor	Bore Dia. (mm)	Stroke (mm)
Blade Lift Cylinder	2	168.9	1760
Blade Tilt Cylinder	2	Blade Tilt (Extended Pitch) Left - 279.6 mm Blade Tilt (Extended Pitch) Right - 254 mm	400
Ripper Shank Cylinder	2	179	830
Ripper Lift Cylinder	2	234	615
Pin Puller	1	101.10	139

Relief valve operating pressures (kpa)

Dozer Relief Valve Setting - 28500 kPa

Tilt Cylinder Pelief Valve Setting - 26700 kPa Ripper (Lift) Relief Valve Setting - 28500 kPa Ripper (Pitch) relief Valve Setting - 28500 kPa

Oil quantity in system and tank (ltrs) Hydraulic Oil in Tank - 160 Litre

Hydraulic Oil in system - 445 Litre

Filtration system type charge filter and case drain screen Full Flow Filtration System, Implement return filter,

D.9.3.10 Dozer attachment:

Maximum digging depth (m) Ground clearance at full lift (m) b) Maximum tilt adjustment (m)

Maximum pitch adjustment (m)

1.669 m 1.700 m

0.858 m

1.424 m, 58.9"

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D.9.3.11 Electrical System

a) Starter: make and model

b) Starter control: make and model

c) Alternator: make and model

d) Batteries: numbers, voltage and no. of plates/AH rating

CAT Make

CAT Make

CAT Make, 150 Amp

4 x 4, 200 Amp Hour, 12 V

e) Lighting details

a. 4 nos. Headlights (including 2 on Cylinders)

b. 2 nos. Rear Working Lights

c. 4 nos. ROPS mounted working lights (2 front & 2 rear)

d. Cabin Dome Light

e. Fuel Tank

f. On cylinders

D.9.3.12 General

a) Details, number and location of fire extinguishers:
 DGMS Approved Fire Extinguisher, 1 no. fire extinguisher will be placed in a convenient location on the side of the cabin for easy removal.

b) Make, Model and Operating range of all gauges/ indicators Operating Range - Digital 0 to 999 Make & Model - Caterpillar

c) Make, Model of all warning alarms

Make & Model - Caterpillar

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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 $2\frac{1}{2}$ % will be accepted

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

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PRICE SCHEDULE

a. Equipment (For all projects):

Eduip	Equipment (For an projects):		
Sl no.	Description	Currency	Breakup Value
1	FOB Price (per equipment) inclusive of Indian agency commission	OSD	13,12,118.00
2	Indian Agency Commission @ 4% inclusive. in FOB Price	*	4%
3	Indian Agency Commission incl. in FOB Price	OSD	50,466.08
4	Marine Freight Charges upto Port of Entry in India	OSD	35,000:00
5	Marine Insurance Charges	OSD	2,500.00
9	CIF Price at Port of Entry in India	OSD	13,49,618.00
7	Assessable Value	USD	13,49,618.00
8	Basic Customs Duty (BCD) on Assessable CIF Value @ 7.5%	OSD	1,01,221.35
6	Social Welfare Surcharge (SWS) on BCD @ 10%	OSD	10,122.14
10	IGST @ 18%	OSO	2,62,973.07
11	Total Customs Duty	OSD	3,74,316.55
12	GST on marine freight @ 5%	OSD	1,750.00
13	GST on Indian Agency Commission @ 18%	OSD	9,083.89
41	Total CIF Value incl. GST on Marine Freight + Ind. Agency Commission (Exchange Rate USD 1 = Rs 85.03)	Rs.	11,56,79,224.53
15	Total Customs Duty (Exchange Rate USD 1 = Rs 85.03)	Rs.	3,18,28,136.44
16	Port charges, clearing forwarding charges and other incidental charges.	Rs.	18,77,364.00
. 17	GST on Port charges, clearing forwarding charges and other incidental charges @ 18%	Rs.	3,37,925.52
18	Inland Transportation for delivery upto Final Place of Destination	Rs.	18,50,000.00
19	GST on Inland Transportation for delivery upto Final Place of Destination @ 18%	Rs.	3,33,000.00
20	Inland Insurance for delivery upto Final Place of Destination	Rs.	
21	GST on Inland Insurance upto Final Place of Destination @ 18%	Rs.	•
22.	Errection & Commissioning Charges	Rs	47.75,000.00
23	GST on Errection & Commissioning @ 18%	Rs.	8,59,500.00
100			

	Total Price of all Items sourced in INR required for fitting in the equipment during		
	0 1 1 0	Do	18 03 063 00
24	commissioning of the equipment	. ivs	10,00,000
	Total GST applicable of all Items sourced in INR required for fitting in the equipment during	f	
25	commissioning of the equipment	Ks.	3,24,551.34
26	26 CIP Price per Equipment with GST	Rs.	15,96,67,764.84

b. Project wise details of Total package of Equipment (fleet) along with Consumable Spares and Consumables for warranty period of one year and Spares & Consumables for post warranty period of 5 years under Spares Cost Cap are as under:

NIT Item 1 - 850HP Crawler Dozers with ripper for Gevra OCP, SECL under PCD (Fleet - 3 nos)	- 3 nos)

NIT Item 2 - 850HP Crawler Dozers with ripper for Gevra OCP, SECL under NCD (Fleet - 3 nos)	- 3 nos)
Description	Value (Rs)
CIP Price of Fleet inclusive of GST (Fleet - 3nos.)	47,90,03,294.51
1st year spares and consumables per equipment	82,12,314.00
GST on 1st year spares and consumables per equipment	14,78,216.52
Total 1st year Spares and consumables inclusive of GST for fleet	2,90,71,591.56
2nd year Spares and consumables for fleet	10,79,66,364.00
GST on 2nd year spares and consumables for fleet	2,07,07,949.00
Total 2nd year Spares and consumables inclusive of GST for fleet	12,86,74,313.00
3rd year Spares and consumables for fleet	11,27,20,253.00
GST on 3rd year spares and consumables for fleet	2,21,94,618.00
Total 3rd year Spares and consumables inclusive of GST for fleet	13,49,14,871.00
4th year Spares and consumables for fleet	18,89,06,830.00
GST on 4th year spares and consumables for fleet	3,88,39,244.00
Total 4th year Spares and consumables inclusive of GST for fleet	22,77,46,074.00
5th year Spares and consumables for fleet	17,92,31,220.00

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1,33,76,92,069.07	and Total for equipment and Spares and Consumables for 6 years inclusive of GST per fleet
85,86,88,774.56	Grand Total for spares and consumables for 6 years inclusive of GST for fleet
12,40,46,848.00	Total 6th year Spares and consumables inclusive of GST for fleet
2,07,69,146.00	GST on 6th year spares and consumables for fleet
10,32,77,702.00	6th year Spares and consumables for fleet
21,42,35,077.00	Total 5th year Spares and consumables inclusive of GST for fleet
3,50,03,857.00	GST on 5th year spares and consumables for fleet

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NIT Item 3 - 850HP Crawler Dozers with ripper for Dipka OCP, SECL under NCD (Fleet - 6 nos)	t - 6 nos)
Description	Value (Rs)
CIP Price of Fleet inclusive of GST (6 nos.)	95,80,06,589.01
1 st year spares and consumables per equipment	82,12,314.00
GST on 1st year spares and consumables per equipment	14,78,216.52
Total 1st year Spares and consumables inclusive of GST for fleet	5,81,43,183.12
2nd year Spares and consumables for fleet	21,59,32,727.00
GST on 2nd year spares and consumables for fleet	4,14,15,897.00
Total 2nd year Spares and consumables inclusive of GST for fleet	25,73,48,624.00
3rd year Spares and consumables for fleet	22,79,77,735.00
GST on 3rd year spares and consumables for fleet	4,48,88,816.00
Total 3rd year Spares and consumables inclusive of GST for fleet	27,28,66,551.00
4th year Spares and consumables for fleet	37,63,46,556.00
GST on 4th year spares and consumables for fleet	7,73,76,852.00
Total 4th year Spares and consumables inclusive of GST for fleet	45,37,23,408.00
5th year Spares and consumables for fleet	35,84,62,439.00
GST on 5th year spares and consumables for fleet	7,00,07,714.00
Total 5th year Spares and consumables inclusive of GST for fleet	42,84,70,153.00
6th year Spares and consumables for fleet	20,65,55,404.00
GST on 6th year spares and consumables for fleet	4,15,38,292.00
Total 6th year Spares and consumables inclusive of GST for fleet	24,80,93,696.00
Grand Total for spares and consumables for 6 years inclusive of GST for fleet	1,71,86,45,615.12
Grand Total for equipment and Spares and Consumables for 6 years inclusive of GST per fleet	2,67,66,52,204.13

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NIT Item 4 - 850HP Crawler Dozers with ripper for Dudhichua OCP, NCL under NCD (Fleet - 1 no) & NIT Item 5 050HD Crowler Dozes with ripper for Ding Kalvi Amalgamation NCI under NCD (Fleet - 1 no)	Teet - 1 no)
	Value (Rs)
CIP Price of Fleet inclusive of GST (1no.)	15,96,67,764.84
1st year spares and consumables per equipment	90,53,722.00
GST on 1st year spares and consumables per equipment	16,29,669.96
Total 1st year Spares and consumables inclusive of GST for fleet	1,06,83,391.96
2nd year Spares and consumables for fleet	3,63,25,205.00
GST on 2nd year spares and consumables for fleet	69,67,174.00
Total 2nd year Spares and consumables inclusive of GST for fleet	4,32,92,379.00
3rd year Spares and consumables for fleet	3,78,12,304.00
GST on 3rd year spares and consumables for fleet	74,45,243.00
Total 3rd year Spares and consumables inclusive of GST for fleet	4,52,57,547.00
4th year Spares and consumables for fleet	6,19,13,355.00
GST on 4th year spares and consumables for fleet	1,27,29,386.00
Total 4th year Spares and consumables inclusive of GST for fleet	7,46,42,741.00
5th year Spares and consumables for fleet	5,75,48,747.00
GST on 5th year spares and consumables for fleet	1,12,39,270.00
Total 5th year Spares and consumables inclusive of GST for fleet	6,87,88,017.00
6th year Spares and consumables for fleet	3,28,46,880.00
GST on 6th year spares and consumables for fleet	66,05,508.00
Total 6th year Spares and consumables inclusive of GST for fleet	3,94,52,388.00
Grand Total for spares and consumables for 6 years inclusive of GST for fleet	28,21,16,463.96
Grand Total for equipment and Spares and Consumables for 6 years inclusive of GST per fleet	44,17,84,228.80

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NIT Item 6 - 850HP Crawler Dozers with ripper for Jayant OCP, NCL under NCD (Fleet - 2 nos)	st - 2 nos)
Description	Value (Rs)
C.P. Price of Fleet inclusive of GST (2nos.)	31,93,35,529.67
1st year spares and consumables per equipment	90,53,722.00
GST on 1st year spares and consumables per equipment	16,29,669.96
Total 1st year Spares and consumables inclusive of GST for fleet	2,13,66,783.92
2nd year Spares and consumables for fleet	7,26,50,409.00
GST on 2nd year spares and consumables for fleet	1,39,34,349.00
Total 2nd year Spares and consumables inclusive of GST for fleet	8,65,84,758.00
3rd year Spares and consumables for fleet	7,56,24,607.00
GST on 3rd year spares and consumables for fleet	1,48,90,485.00
Total 3rd year Spares and consumables inclusive of GST for fleet	9,05,15,092.00
4th year Spares and consumables for fleet	12,38,26,712.00
GST on 4th year spares and consumables for fleet	2,54,58,772.00
Total 4th year Spares and consumables inclusive of GST for fleet	14,92,85,484.00
5th year Spares and consumables for fleet	11,50,97,493.00
GST on 5th year spares and consumables for fleet	2,24,78,540.00
Total 5th year Spares and consumables inclusive of GST for fleet	13,75,76,033.00
6th year Spares and consumables for fleet	6,56,93,761.00
GST on 6th year spares and consumables for fleet	1,32,11,015.00
Total 6th year Spares and consumables inclusive of GST for fleet	7,89,04,776.00
Grand Total for spares and consumables for 6 years inclusive of GST for fleet	56,42,32,926.92
Grand Total for equipment and Spares and Consumables for 6 years inclusive of GST per fleet	88.35,68.456.59

The Total Value for award of the Contract including GST for all the six projects shall be Rs.7,11,91,73,256.46 (Rupees Seven Hundred and Eleven Crore Ninety-One Lakh Seventy-Three Thousand Two hundred and Fifty-Six and Paisa Forty-six only).

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

						· Unit Val	Unit Values (in Rs.)				Unit Values (in Rs.)			
Sl. Item Description	lem Description with Make, Model & Part No, (if applicable)	2.	(UO De	FOR	Ö	GST	Landed	Input Tax credit	Net Landed Price after deducting	Quantity of items	Total FOR Destination Price of all items sourced indigenously for fitment in	Total GST Amount of all items sourced indigenously for fitment in the equipment during the conjugate	Total Landed Price for all Items sourced indigenously in INR for fitment it: the equipment during commissis is not of the equipment	Total Net Landed Price for Items sourced indigenously in INR for fitment in the equipment during commissioning of the equipment
					Rate	Amount	9	Amount	credit (in Rs.)	equipment	commissioning of the equipment	commissioning of the equipment	without deducting Input Tax credit (in Rs.)	after deducting Input Tax credit (in Rs.)
-	2		8	4	ro.	6=4*5	7=4+6	8=6	9=7-8	10	11=4*10	12=6*10	13=7*10	14=9*10
Item Description	Item Make & Model	Part No./Full Specification	-3.							30				
1 AFDSS	SOUTHERN ELECTRONICS/ AUTOMATION CONTROLS / MACO/RIZITEK	D11 AFDSS NO	أبلاتها	6,63,063	18%	119351.34	782414.34	119351.34	663063.00	1.00	663063.00	119351.34	782414.34	663063.00
2 COMPREHENSIVE TOOL KIT	EVEREST / TAPARIA JHALANI/STANLEY/SNAPON/ROBUST/ D11 TOOL KITNO HONEYTON/IMPACT	D11 TOOL KITNI		1,25,000	18%	22500.00	147500.00	22500.00	125000.00	1.00	125000.00	22500.00	147500.00	125000.00
3 5 KG FIRE EXTINGUISHER	KANEX/GUNEBO/SOUTHERN ELECTRONICS/ AUTOMATION CONTROLS / MACO/RIZITEK	D11 PFS NC	ON	20,000	18%	3600.00	23600.00	3600.00	20000.00	1.00	20000.00	3600.00	23600.00	20000.00
4 PROXIMITY WARNING DEVICE	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN. ELECTRONICS / RIZITEK/ ELTRON/ MYPORT/SIXTH SENSE	D11 PWD NG	ON	4,65,000	18%	83700.00	548700.00	83700.00	465000.00	1.00	465000.00	83700.00	548700.00	465000.00
5 REAR VISION CAMERA	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT/SIXTH SENSE	D11 RVC NG	ON	2,85,000	18%	51300.00	336300.00	51300.00	285000.00	1.00	265000.00	51300.00	336300.00	285000.00
DAVESMEN/ AUTOMATIO ODRIVER FATIGUE MONITORING LECTRONICS (RIZITER) MYPORT/SIXTH SENSE MYPORT/SIXTH SENSE	N ELTRON/	D11 DFMS NG	ON	1,45,000	18%	26100.00	171100.00	26100.00	145000.00	1.00	145000.00	26100.00	171100.00	145000.00
7 AUDIO VISUAL ALARM	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT	D11 AVA NG	ON	17,500	18%	3150.00	20650.00	3150.00	17500.00	1.00	17500.00	3150.00	20650.00	17500.00
8 AUTO DIPPER	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT	D11 AD NG	ON	22,500	18%	4050.00	26550.00	4050.00	22500.00	1.00	22500.00	.4050.00	26550.00	22500,00
9 SEAT BELT REMINDER	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT	D11 SBR N	ON	15,000	18%	2700.00	17700.00	2700.00	15000.00	1.00	15000.00	2700.00	17700.00	15000.00
10 BLINDSOPT MIRROR	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT	D11BSM NG	ON	45,000	18%	8100.00	53100.00	8100.00	45000.00	1.00	45000.00	8100.00	53100.00	45000.00
											1803063.00 Z1	324551.34 Z2		

Part				18.18		Unit values (in Rs.	(III NS.)					8	The second secon	
Proceedings Processing Pr					S	27	8						Total Landed Price for	Total Net Landed Price
Part		Item Description with part no.(if any)	(NOM)	FOR Destination Price	Rate	Amount	Landed		Net Landed Price after deducting Input Tax credit	Quantity of Consumable Spares & Consumables Quoted per equipment of the Project	Total FOR Destination Price per equipment	Total GST Amount per equipment	Total Lander Price for Consumables Spares & Consumables for first 12 months of warranty period equipment without deducting input Tax credit (in Rs.)	
Part Space (Per Equipment As March Equipment As M		2	3	4	5	6=4*5	7=4+6	9=8	8-2-8	10	11=4*10	12=6*10	13=7*10	14=9*10
Particol Particol	Consumables Sp	ares (Per Equipment)												
Filed Element Act Proceedings No. 0. 61 100	Description				1000									
Filter Full School Control	1 1R1808	Filter-Engine Oil	oN.	6,115.00	18%	1100.70	7215.70	1100.70	6115.00	22.00				134530.00
File Element ASA/D ROCKETAN No. 6, 155,000 1057 1140,000 1250,	2 4227587	Filter-Fuel - Secondary	0 :	13,292.00	18%	2392.56	15684.56	2392.56	13292.00	22.00				292424.00
Filter Element K&A-H Element KA-H Elemen	3 4385385	Filter AS-Water Sep & Fuel	οN :	8,705.00	18%	1566.90	10271.90	1566.90	8705.00	11.00				
Fille Element AS-Archandrol	4 1063973	Filter Element AS-Air (Secondary)	ON :	6,335.00	18%	1140.30	7475.30	1140.30	6335.00	22.00	1393/0.00		164456.60	
Filter Element AS-Art Print Colored No. 1, 134,000 Str. 2, 1413,00 Str. 2, 2413,01 Str. 2, 2	5 1327168	Filter Element AS-Air (Primary)	ON	24,714.00	. 18%	4448.52	29162.52	4448.52	24714.00	10.00	247140.00		291625.20	
Stand-Orling No. 6,577.00 16% 118.00 156.7 125.24 118.00 156.7 125.00 126.00 118.00 126	5 2492337	Filter Element AS-Hydraulic Oil	oN.	11,340.00	18%	2041.20	13381.20	2041.20	11340.00	22.00	249480.00	-	294386.40	2
Seal-O-Ring No. of 1,550 to 18% 135.86 1	7 5F6222	Seal-O-Ring	oN :	1,418.00		255.24	1673.24	255.24	1418.00	11.00	15598.00		18405.64	15598.00
Seab-O-Ring No 1,505 to 158, 234-50 153-60 153-60 153-60 155-60 15	8 1704822	Seal-O-Ring	ON:	6,577.00	1	1183.86	7760.86	1183.86	6577.00	2.00				
Files Edward Crisis Files Edward (S-Col) No 1,505.00 19% 172.22 1126.40 2.00 120.00 2.00 1120.00 2.00 1120.00	9 5H6733	Seal-O-Ring	oN :	1,186.00		213.48	1399.48	213.48	1186.00	5.00				
Principal Cellon Principal Cellon Cellon Principal Cellon Cellon Principal Cellon Cellon Principal Cellon Cellon Pr	J 2H6124	Seal-O-King	No	1,305.00		234.90	1539.90	234.90	1305.00	5.00	6525.00			6525.00
Self-Conforting No 16,33 (10) 18% 119,34 663 (10) 2,00 13,05 (10) 2,36 (10) 15,64 (8) Performent-Office Proper Train Primary) No 15,38 (10) 18% 277,038 116,13 65,00 2,00 1385 (10) 230,00 15,64 (8) 15,64 (8) Proper Train Primary) No 16,53 (10) 18% 120,00 15,00 120,00 360,00 200,00 360,00 200,00 360,00 200,00 360,00 200,00 360,00 </td <td>3891079</td> <td>Filter Element AS-Oil (Hydraulic)</td> <td>No</td> <td>9 624 00</td> <td>18%</td> <td>1732.32</td> <td>11356.32</td> <td>1732.32</td> <td>9624.00</td> <td>2.00</td> <td>19248.00</td> <td></td> <td>22712.64</td> <td>19248.00</td>	3891079	Filter Element AS-Oil (Hydraulic)	No	9 624 00	18%	1732.32	11356.32	1732.32	9624.00	2.00	19248.00		22712.64	19248.00
Print Edward No	0951671	Seal-O-Ring	No	663.00	18%	119.34	782.34	119.34	663.00	2.00	1326.00	238.68	1564.68	1326.00
Property Comparison Compari	3440004	Filter Element-Oil	No	00 100 31	18%	2770.38	18161.38	2770.38	15391.00	5.00	76955.00		90806.90	76955.00
Physical Reservation Physical Reservation	1261815	[Fower Hall Filliary]	No.	10,1591.00	18%	1828 62	11987 62	1828 62	10159 00	2 00	20318 00		23975 24	20318 00
Filler Element AS-Air (Primary) No 5,012.00 19% 992.80 6517.80 5.02.00 5.05.00.00 4.000 5.05.00.00 4.000 5.05.00.00 4.000 5.05.00.00 4.000 5.05.00.00 4.000 5.05.00.00 4.000 5.05.00.00 4.000 5.05.00.00 6.05.10.0	3200562	Drver AS-Refrigerant (In-Line)	No.	12.831.00	18%	2309.58	15140.58	2309.58	12831.00	1.00	12831.00		15140.58	
Filter Element-Cab Air No 1.52 (10.00 15% 2004.00 15.70 (10.00 2.4984.00 15.20 (10.00 1.4980.00 1.9880.00	2310167	Filter Element AS-Air (Primary)	No.	5,012.00	18%	902.16	5914.16	902.16	5012.00	5.00				25060.00
Edge-Cutting No 1,388,000 18% 24984,001 (37240) 1,38800.00 18998.200 1800.00 18	3468243	Filter Element-Cab Air	No	5,210.00	18%	937.80	6147.80	937.80	5210.00	5.00			30739.00	26050.00
Bill-End No 149,182 00 18% 37240.02 244129.02 27240.02 26689.00 5.00 1034445.00 1862001 1220645.10 1120646.10 1120646.10	8 9W4494	Edge-Cutting	No	1,38,800.00	. 18%		163784.00	24984.00	138800.00	4.00				
Bill-End No 2,06,889 00 18% 377.40 244129 02 377240,02 24689 00 5.00 1034445,00 168200,10 1220045,10 1720040,10 1720045,10 172004,10 1720045,10 1720045,10 1720045,10 1720045,10 172004,10 1720045,10 1720045,10 1720045,10 1720045,10 172004,10 1720045,10 1720045,10 1720045,10 1720045,10 172004,10 1720045,10 1	9 9W4495	Edge-Cutting	No.	1,49,182.00			176034.76	26852.76	149182.00	4.00				
BilleAnd No 2,068,890 18% 37740 247240 206800 500 1084455 10 1220645 1220646	8E4545	Bit-End	No	2,06,889,00		_	244129.02	37240.02	206889.00	5.00				
Marken-Hard No 2,055.00 18% 377.10 2472.13 186.30 2715.00 2715	8E4546	Bit-End	No.	2,06,889.00		-	244129.02	37240.02	206889.00	2.00	1034445.00			
Mushel-Hard No	5P8823	Bolt-Plow	0 Z	2,095.00		377.10	2472.10	377.10	2095.00	216.00				
Tig GP-Righer No 79,517.00 18% 14313.06 78517.00 803.176 1489.76 803.176 780,617.00 18% 14313.06 1430.74 8.00 1430.448 750640.48 750640.48 750640.48 KRI-PIN(Ripper Tip) No 3,35,200 18% 189.76 1499.76 832.00 1.00 33507.00 60312.60 335070.00 1.00 33507.00 60312.60 33507.00 1.00 33507.00 60312.60 39538.16 1.00 33507.00 60312.60 39538.16 1.00 33507.00 60312.60 39538.16 1.00 33507.00 60312.60 39538.60 1.00 1	1 4KD684	Washer-Hard	S S	606.00		109.08	715 08	109 08	806.00	216.00				
Kit-Pin(Ripper Tip) No 8,332.00 18% 1499.76 9831.76 1499.76 8332.00 16.00 13312.00 23396.16 157308.16 Protector GP-Shank No 3,35,070.00 18% 1899.76 1895.826.00 100 100 10108.00 1819.44 1927.44 SEGMENT-SPROCKET No 1,104.24 18% 1895.82 160.20 23080.80 100 10108.00 1819.44 1892.82 NUT -FULL No 1,104.24 18% 18976.32 19876.32 1404.40 23080.00 14316.44 1892.48 3952.48 NUT -FULL No 1,104.24 18% 1880.00 166.20 2306.00 14316.48 2850.00 14316.48 2850.00 14316.28 3952.48 3952.48 3952.48 3952.48 3952.48 3952.48 400 400.00 400.00 400.00 400.00 400.00 400.00 400.00 400.00 400.00 400.00 400.00 400.00 400.00 400.00 400.00	5 3572712	Tin GP-Ripper	S S	79.517.00	18%	14313.06	93830.06	14313.06	79517.00	8.00				
Protector GP-Shank No 3,35,070.00 18% 60312.60 6332070.00 1.00 335070.00 60312.60 335070.00 4335070.00 <td>3532546</td> <td>Kit-Pin(Ripper TIp)</td> <td>N.</td> <td>8,332.00</td> <td></td> <td>1499.76</td> <td>9831.76</td> <td>1499.76</td> <td>8332.00</td> <td>16.00</td> <td></td> <td></td> <td></td> <td></td>	3532546	Kit-Pin(Ripper TIp)	N.	8,332.00		1499.76	9831.76	1499.76	8332.00	16.00				
Pin No 10,108,00 18% 1819,44 10,108,00 10,108,00 1819,44 10,108,00 1819,44 11927,44 SEGMENT-SPROCKET No 1,10,44,00 18% 19876,32 13030,32 1886,82 130,044,00 200 200 200 220848,00 413164,80 28060,64 200 200 200 443164,80 28060,64 200 200 200 200 243164,80 893824,80 800 64,00 785360,00 143164,80 872324,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 143164,80 872326,00 1431	7 3313560	Protector GP-Shank	No	3,35,070.00		-	395382.60	60312.60	335070.00	1.00				335070.00
SEGMENT-SPROCKET No 1,10,424,00 18%, 19876.32 13930.03 18976.24 2,044,00 2,000,004	8 3532600	Pin	No	10,108.00	18%	1819.44	11927.44	1819.44	10108.00	1.00	10108.00		11927.44	
SEGMENT-SPROCKET No 1,32,560,00 18% 23860,80 15260,00 6,400 76356,00 143164,80 338524,80 80 No 1,419,00 18% 166,20 890,00 64,00 16360,00 143164,80 67721,80 67721,80 MASHER HARD No 1,419,00 18% 255,42 165,20 64,00 1640,0 2131,20 13971,20 BOLT BOLT No 1,419,00 18% 255,42 145,00 64,00 16346,88 107162,88 60460368 Powertrain Oil Barrel No 64,047,00 18% 15576,46 64047,00 80016,00 16346,88 107162,88 Pydrauli Coil Barrel No 64,047,00 18% 1528,46 75576,46 64047,00 80016,60 9227,68 604603,88 India drive oil Barrel No 18% 14528,46 75576,46 64047,00 8,00 512376,00 9227,68 604603,88 Recoil frame oil Barrel No 18% 14528,46 <t< td=""><td>9 6020405</td><td>SEGMENT-SPROCKET</td><td>No No</td><td>1,10,424.00</td><td></td><td>19876.32</td><td>130300.32</td><td>19876.32</td><td>110424.00</td><td>2.00</td><td></td><td></td><td></td><td>220848.00</td></t<>	9 6020405	SEGMENT-SPROCKET	No No	1,10,424.00		19876.32	130300.32	19876.32	110424.00	2.00				220848.00
NUT. FULL No 64,020 160,20 66,00 64,00 65960.00 10252.80 67212.80 WASHER HARD No 148,00 18% 233.30 168,00 64,00 2131.20 13971.20 13971.20 BOLT BOLT 1419.00 18% 255.42 1419.00 64,00 90316.00 1624.88 107162.88 107162.88 Powertrain Oil Barrel No 64,047.00 18% 11528.46 64047.00 6400 90216.00 92227.68 604603.68 Hydraulic Oil Barrel No 18% 11528.46 156.04 5.00 512376.00 92227.68 604603.68 No Free Coll Free Coll Barrel No 18% 11528.46 64047.00 5.00 512376.00 92227.68 604603.68 No Free Coll F	0 6020406	SEGMENT-SPROCKET	No	1,32,560.00		23860.80	156420.80	23860.80	132560.00	6.00				795360.00
WASHER HARD No 185,00 18%, 255,42 1674,42 255,42 1419,00 64,00 11840,00 2131,20 13971,20 BOLT No 144,90 18%, 255,42 1674,42 255,42 1419,00 64,00 90816,00 16746,28 107162,88 Powertrain Oil Barrel No 64,047,00 18%, 1528,46 14528,46 64,047,00 187,00 92227,68 FREE OF COST Hydraulic Oil Barrel No 15,00 18,00 12376,00 92227,78 FREE OF COST Feecoil frame oil Barrel No 100 100 100 100 100 FREE OF COST England in two oil Barrel No No No No 100 FREE OF COST	1 3S1356	NUT - FULL	No	890.00		160.20	1050.20	160.20	890.00	64.00				
BOLT No 1,419,00 18% 255,42 167,42 255,42 1419,00 64,00 90816,00 16346,88 107/162,88 Powertrain Oil Barrel No 64,047,00 18% 11528,46 64047,00 8.00 51237,68 604603,68 604603,68 No Hydraulic Oil Barrel No 700 1528,46 64047,00 8.00 51237,68 604603,68 604603,68 No Hydraulic Oil Barrel No 700	2 3S1349	WASHER HARD	°Z	185.00		33.30	218.30	33.30	185.00	64.00	11840.00			
Properties of Barrel No 64,047,00 18% 11528.46 64047,00 8.00 512376.00 92227.68 604603.88 Powertain Oil Barrel No	3 7T1243	BOLT	9	1,419.00	. 18%	255.42	1674.42	255.42	1419.00	64.00			8	
Powertrain Oil Barrel No Find drive oil	4 KSNDEO	Engine Oil Barrel	- ON	64,047.00	18%	11528.46	75575.46	11528.46	64047.00	8.00			09	512376.00
Final duty of Barrel No No 1.00 Second frame oil Barrel No Grease Barrel No 1.00 Character 1	5 KSNTDTO30	Powertrain Oil Barrel	2:							5.00			FREE	OF COST
Recoil frame oil Barrel No 3.00	7 KENEDADED	Hydraulic Oil Barrel	No.		66					2.00			FREE	OF COST
No No 3.00 1.00	N KSNFDAO50	Final drive oil barrel	NON NO							1.00			FREE	DE COST
010000 Daties 1470046.E2	9 KSNGREASE	Grease Barrel	ON N							3.00			FRFF	OF COST
	101010101	5150 0000								0000				

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

A. Sarker

(Gevra Project -SECL for 3 Machines With Ripper under PCD)

11	Total Charges	(5x6)+(9x10)			Rs.	7500	12500	0	7500	2000	27500	00009
10		Rate per	Man per	Week	Rs.	2500	2500	2500	2500	2500	2500	
6	At Site	Period Total Man Rate per	Weeks	(7x8)		1	1	0	3	. 2	11	
8	A	Period	(Week)			1	-	0	1		1	3.5
7		No.				1	1	0	3	2	11	18
9	y Facility	Rate per	Man per	Week	Rs.	2000	2000	2000	2000	2000	2000	Carl Carl
. 5	At Manufacturer's Training Facility	Period Total Man Rate per	Weeks	(3x4)		1	2	0	0	0	0	
4	anufacture	Period	(Week)			-	1	0	. 0	0	0	
3	At Ma	No.				1	2	0	0	0	0	3
2	Sl. No. Type of Personnel					Mech Engineer	2 Mech Supervisor	3 Elec Supervisor	4 Mech Fitter	5 Electrician	6 Operator	
-	SI. No.					1	2	3	4	5	9	

A. Servece

count

ables Spare				GSI	ST I								
ables Spare													
Consumables Spares (Per E Description IR 1808 1227587	Item Description with part no.(if any)	Unit of Measurem ent (UOM)	FOR Destination Price	Rate	Amount	Landed	Input Tax credit Amount	Net Landed e Price after of deducting Input Tax credit	Consumable Spares & Consumables Consumables & Consumables Quoted per equipment of the Project	Total FOR Destination Price per equipment	Total GST Amount per equipment	Total Landed Price for Consumables Spares & Consumables for first 12 months of warranty period per equipment without deducting input Tax credit (in Rs.)	Total Net Landed Price for Consumables Spares & Consumables Spares for first 12 months of warranty period per equipment after deducting input Tax credit (in Rs.)
consumables Spares (Per E Description R1808 4227587 1385385	2	3	4	5	6=4*5	7=4+6	9=8	9=7=6	10	11=4*10	12=6*10	13=7*10	14=9*10
Description R1808 1227587 1385385	Equipment)			F	S. S. S. S. S. S.	Oct of the same	The state of	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
K1808 4227587 4385385	Part No.												
,227587 1385385	Filter-Engine Oil	No	6115.00	18%	1100.70	7215.70	1100.70	6115.00	22.00	134530.00	24215.40	158745.40	134530.00
385385	Filter-Fuel - Secondary	oN.	13292.00	18%	2392.56	15684.56	2392.56	13292.00	22.00	292424.00	52636.32	345060.32	292424.00
	Filter AS-Water Sep & Fuel	ON	8705.00	18%	1566.90	10271.90	1566.90	8705.00	11.00	95755.00	17235.90	112990.90	95755.00
1063973	Filter Element AS-Air (Secondary)	oN:	6335.00	18%	1140.30	7475.30	1140.30	6335.00	22.00	139370.00	25086.60	164456.60	139370.00
132/168	Filter Element AS-Air (Primary)	oN :	24714.00	18%	4448.52	29162.52	4448.52	24714.00	10.00	247140.00	44485.20	291625.20	247140.00
5 2492337	Filter Element AS-Hydraulic Oil	ON 2	11340.00	18%	2041.20	13381.20	2041.20	11340.00	22.00	249480.00	44906.40	294386.40	249480.00
5F6222	Seal-O-King	ON :	1418.00	18%	725.24	16/3.24	255.24	1418.00	11.00	15598.00	2807.64	18405.64	15598.00
8 1704822	Seal-O-Ring	oN.	6577.00	18%	1183.86	7760.86	1183.86	6577.00	2.00	13154.00	2367.72	15521.72	13154.00
5H6733	Seal-O-Ring	oN.	1186.00	18%	213.48	1399.48	213.48	1186.00	2.00	5930.00	1067.40	6997.40	2930.00
10 2H6124	Seal-O-Ring	oN	1305.00	18%	234.90	1539.90	234.90	1305.00	2.00	6525.00	1174.50	7699.50	6525.00
3891079	Filter Element AS-Oil (Hydraulic)	No	9624 00	18%	1732.32	11356.32	1732.32	9624.00	2.00	19248.00	3464.64	22712.64	19248.00
12 0951671	Seal-O-Ring	No	663.00	18%	119.34	782.34	119.34	663.00	2.00	1326.00	238 68	1564.68	1326.00
	Filter Element-Oil	Z		180/	92 0776	10161 20	95 0770	45204 00	00	76055 00	12051 00	00 90000	76066 00
3440004	(Power Train Primary)	0	15391.00	0/01	2110.30	00.10101	2110.30	00.18661	00.6	00.0000	13651.90	90000.90	2007
1261815	Filter-Oil - Transmission secondary (Ultra High Efficiency)	. oN	10159 00	18%	1828.62	11987.62	1828.62	10159.00	2.00	20318.00	3657.24	23975.24	20318.00
15 3200562	Dryer AS-Refrigerant (In-Line)	°N	12831.00	18%	2309.58	15140.58	2309.58	12831.00	1.00	12831.00	2309.58	15140.58	12831.00
16 2310167	Filter Element AS-Air (Primary)	No	5012.00	18%	902.16	5914.16	902.16	5012.00	2.00	25060.00	4510.80	29570.80	25060.00
3468243	Filter Element-Cab Air	ON .	5210.00	18%	937.80	6147.80	937.80	5210.00	9.00	26050.00	4689.00	30739.00	26050.00
18 9W4494	Edge-Cutting	ON	138800.00		24984.00	163784.00	24984.00	138800.00	4.00	555200.00	99936.00	655136.00	555200.00
9W4495	Edge-Cutting	No	149182.00		26852.76	176034.76	26852.76	149182.00	4.00	596728.00	107411.04	704139.04	596728.00
20 8E4545	Bit-End	°N	206889.00		-	244129.02		206889.00		1034445.00	186200.10	1220645.10	1034445.00
8E4546	Bit-End	ON :	206889.00	- 1	37240.02	244129.02		206889.00	5.00	1034445.00	186200.10	1220645.10	1034445.00
22 3F0823 23 3K9770	Nit-Fill	NO N	1035.00	18%	186.30	122130	186.30	1035.00	216.00	222520.00	81453.60	5339/3.60	452520.00
24 4K0684	Washer-Hard	N CN	806.00	18%	109 08	715.08	109.00	808.00	216.00	130896 00	23561 28	154457 28	130896.00
25 3572712	Tip GP-Ripper	N _o	79517.00	†	14313.06	93830,06	14313.06	79517.00	8.00	636136.00	114504.48	750640.48	636136.00
3532546	Kit-Pin(Ripper Tip)	No	8332.00	1	1499.76	9831.76	1499.76	8332.00	16.00	133312.00	23996.16	157308.16	133312.00
27 3313560	Protector GP-Shank	ON.	335070.00		-	395382.60	-	335070.00	1:00	335070.00	60312.60	395382.60	335070.00
3532600	Pin	No	10108.00	18%	1819.44	11927.44	1819.44	10108.00	1.00	10108.00	1819.44	11927.44	10108.00
29 6020405	SEGMENT-SPROCKET	No	110424.00	18% 1	19876.32	130300.32	19876.32	110424.00	2.00	220848.00	39752.64	260600.64	220848.00
30 6020406	SEGMENT-SPROCKET	ON.	132560.00	18% 2	23860.80	156420.80	23860.80	132560.00	00.9	795360.00	143164.80	938524.80	795360.00
31 3S1356	NUT - FULL	ON	890.00	18%	160.20	1050.20	160.20	890.00	64.00	26960.00	10252.80	67212.80	26960.00
32 3S1349	WASHER HARD	· No	185.00	18%	33.30	218.30	33.30	185.00	64.00	11840.00	2131.20	13971.20	11840.00
7T1243	BOLT	No	1419.00	18%	255.42	1674.42	255.42	1419.00	64.00	90816.00	16346.88	107162.88	90816.00
34 KSNDEO	Engine Oil Barrel	ON	64047.00	18%	11528.46	75575.46	11528.46	64047.00	8.00	512376.00	92227.68	604603.68	512376.00
KSNTDTO30	Powertrain Oil Barrel	ON						The state of the s	00.5			FREE OF COST	: COST
36 KSNHYDO10	Hydraulic Oil Barrel	oN.	- 28						2.00			FREE OF COST	COST
KSNFDAO60	Final drive oil Barrel	ON:							1.00			FREE OF COST	- COSI
38 KSNIDIO50	Recoil frame oil Barrel	oN :							1.00			FREE OF COST	COST
39 KSNGKEASE	Grease Barrel	No							3.00	00 4 400 400	4470040 50	FREE OF COS	COSI
										8212314.00 14/8210.32	1478216 52		

A. Serves

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

(Gevra Project -SECL for 3 Machines With Ripper under NCD)

	11	Total Charges	(5x6)+(9x10)			Rs.	0052	12500	0	0092	0009	27500	00009
	10		Rate per	Man per	Week	Rs.	2500	2500	2500	2500	2500	2500	
	6	At Site	Period Total Man Rate per	Weeks	(7x8)		1	1	0	3	. 2	11	
	8	A	Period	(Week)			1	1	0 .	1	1	1	
	7		No.				1	1	0	3	2	11.	18
A STATE OF THE STA	9	Facility	Rate per	Man per	Week	Rs.	2000	2000	2000	2000	2000	2000	
	2	At Manufacturer's Training Facility	Period Total Man	Weeks	(3x4)		1	2	0	0	0	0	
	4	inufactur	Period	(Week)			1	1	0	0	0	0	1 19 14 - 5
	3	At Ma	No.				1	2	0	0	0	0	3
	.2	Sl. No. Type of Personnel				15	Mech Engineer	2 Mech Supervisor	3 Elec Supervisor	Mech Fitter	5 Electrician	6 Operator	
THE STREET	1	SI. No.					1	2	3	4	5	9	

James James

Part	Comparison Com				Unit Values (in Rs.)			Unit Values (in Rs.))	The state of the s					
Part No.	Part No. Part No.	-S. S.	Item Description with part no.(if any)	Unit of Measurem ent (UOM)	FOR Destination Price	Rate	пош	Landed Price	Input Tax credit Amount		Quantity of Consumable Spares & Consumables Quoted per equipment of the Project	Total FOR Destination Price per equipment	Total GST Amount per equipment	Total Landed Price for Consumables Spares & Consumables for first 12 months of warranty period per per equipment without deducting input Tax credit (in Rs.)	Total Net Landed Price for Consumables Spares & Consumables for first 12 months of warranty period per equipment after deducting input Tax credit (in Rs.)
Property	Part No. Filter-Engine Off		2	63	4	5	6=4*5	7=4+6	8=6	9=7-8	10	11=4*10	12=6*10	13=7*10	14=0*10
Perfect Perf	Part No. Feller Engine Oil No. 6115.00 18% 1100.71 1	Consumable	es Spares (Per Equipment)	The land of the land							2		0.0-3		2 2
Filter-Empire 24	Filler Fuel - Secondary No 6115.00 18% 1100,77 1100,77 1232.00 18% 1232.00 18% 1232.00 18% 1232.00 18% 1232.00 18% 1232.00 18% 1232.00 18% 1232.00 1266.	Description	Part No.												
File Eneman K-Sk-Marchand No 12202 of 18% 2340 of	Filter Flear Secondary	1 1R1808	Filter-Engine Oil	No	6115.00		1100.70				22.00	134530.00	See and		134530.00
File Emeral Chief Chief No. 1975 1140 20 1127 20 1124 20	Filter Element AS-Air (Benordary)	2 4227587	Filter-Fuel - Secondary	No	13292.00		2392.56			V	22.00	292424.00			292424.00
The Element Cocket Christon No. 1955-50 1745-20 1745-20 1244-20 1355-10 1255-10	Filter Element AS-Hydraulic Oil No	3 4385385	Fifter AS-Water Sep & Fuel	oN :	8705.00	1	1566.90	10271.90	1566.90	8705.00	11.00	95755.00		1 1 2000 1	95755.00
Filtre Element No. Hydralisco M. No. 1149.00 1987, 2014.01 107.00 107.00 2010 107.00	Filter Element AS-Hydraulic)	4 1063973 5 1327168	Filter Element AS-Air (Secondary)	0 Z	6335.00		1140.30	7475.30		ľ	22.00	139370.00			139370.00
Sead-O-Ching No 677.00 750.20 1143.08	Seal-O-Ring No 1418.00 18% 183.24 1673.24 256.24 1418.00 143.24 1418.00 1418.00 1418.36 1710.24 1713.26 17	6 2492337	Filter Element AS-Hydraulic Oil	200	11340.00	1	2041.20	13381 20			22.00	2447140.00			249/140.0
Seal-O-Ring No 657,10 1985, 213.46 1398.46 1398.40 1395.00 2.00 1395.40 2.00 1395.40 1997.72 1592.12 1395.40	Seal-O-Ring No	7 5F6222	Seal-O-Ring	No	1418.00		255.24	1673.24	255.24		11.00	15598.00			15598.00
Seal-O-Ring No 1956 to 1854 1852 134.44 1185.00 550.00 550.00 1174.54 1174.54 1174.54 1174.54 1174.44 1174	Seal-O-Ring No 1365.00 18% 213.48 1186.00 18% 213.49 1186.00 18% 213.49 1186.00 18% 213.49 1186.00 18% 213.49 1186.00 18% 213.49 1186.00 18% 213.49 1186.00 18% 213.49 1193.4 1186.00 18% 213.49 1193.4 1186.00 18% 213.49 1193.4 1183.4 11	8 1704822	Seal-O-Ring	ON	6577.00		1183.86	7760.86	•		2.00	13154.00			13154.00
Filter Element Act Ordered No. 1985-00 1875-187-18 1752-19 1956-00 1950 1950-00	Filter Element AS-Oil (Hydraule)	9 5H6733	Seal-O-Ring	o _N	1186.00		213.48	1399.48			2.00	5930.00			2930.00
Filter Element Cab Art Prince Prince Prince Prince Prince Prince P	Filter Element-Coli (Power Train) Prince 15331.00 18% 113.24 115.25 115.24 115.25 115.	10 2Hb124	Filter Flement AS-Oil (Hydraulic)	o N	1305.00		1732 32	11356 22			5.00	6525.00			6525.0
Filter Element Clark Art (Preferency) No. 1015-00 18% 120-02 11961 5.3 1771.38 1155-01 10 10 10 10 10 10 10	Filter Element-Oil (Power Train Primary) No 15391.00 18% 2770.38 18161.38 2770.38 15391.00	12 0951671	Seal-O-Ring	No.	663.00		119.34	782.34			2.00	1326.00			1326 (
Diver AS-Refigned (Primary) No 12831.00 18%, 2200-58 1514.058 10.0 2002 2.00	High Efficiency No 12831.00 18% 182.66.2 14987.62 1452.86.2 10159.00 18% 15140.58 2309.58 12831.00 12831.00 12831.00 18% 2309.58 15140.58 2309.58 12831.00 12831.00 12831.00 18% 2309.58 15140.58 2309.58 12831.00 12831.00 18% 2309.58 15140.58 2309.58 12831.00 12831.00 18% 2399.40 15074.00 2398.00 15074.00 2398.00 15074.00 2398.00 15074.00 2398.00 23780 237	13 3440004	Filter Element-Oil (Power Train Primary)	o _N	15391.00		2770.38	18161.38	2770.38		5.00	76955.00	13	6	76955.00
File Element Ask Affingment (II-Lule) No 71831 00 1878 902.16 5012.00 5.00 256600.0 4510.00 2570	Filter Element AS-Air (Primary) No 1581,00 18% 2390,58 1514,016 902.16 610.200	14 1261815	High Efficiency)	oN.	10159.00		1828.62	11987.62			2.00	20318.00			20318.00
Filer Emericación (1987) 1982 1987 1	Files Element-Call Trining No	15 3200562	Dryer AS-Retrigerant (In-Line)	ON S	12831.00		2309.58	15140.58		12831.00	1.00	12831.00			12831.00
Edge_Cutting No 138800 00 18% 24884 00 163726 00 4.00 555200 00 0	Edge-Cutting No 138800.00 18% 24984.00 163784.00 24984.00 153880.00 Balt-End No 148182.00 18% 25862.76 244129.02 226882.76 148182.00 Balt-End No 206889.00 18% 37240.02 244129.02 37240.02 206889.00 Balt-End No 206889.00 18% 37240.02 244129.02 37240.02 206889.00 Balt-End No 206889.00 18% 37240.02 244129.02 37240.02 206889.00 Mutt-Full No 206889.00 18% 377.10 2472.0 377.40 206889.00 Mutt-Full No 20689.00 18% 175.08 105.08 105.08 266.00 Mutt-Full No 266.00 18% 149.16 368.00 105.08 105.08 105.08 105.08 105.08 105.08 105.08 105.00 105.00 105.08 105.08 105.08 105.00 105.00 105.00 1	17 3468243	Filter Element-Cab Air	2 2	5210.00	12	937.80	6147.80			5.00	25050.00			25050.0
Elecuting No 149182, 00 19% 27240, 02 244129, 02 27240, 02 272	Edge-Cutting	18 9W4494	Edge-Cutting	No	138800.00		24984.00	163784.00	24984.00	13	4.00	555200.00			555200.00
Bill-End No 208880 18% 37240,02 37	Bill-End No 206889.00 18% 37240.02 37740.02 206889.00 21	19 9W4495	Edge-Cutting	ON.	149182.00		26852.76	176034.76	26852.76		4.00	596728.00			596728.00
Bell-Find No 2095-01 18% 175-10 377-10 2485-02 216.00 4525-00 8145-01 2205-01 18% 185-01 377-10 2485-01 216.00 4525-00 8145-01 2598-01 4122-044-10 18% 185-01 195-01 216.00 216.00 216.00 216.00 2205-01	Boil-Plow No 2006889	20 8E4545	Bit-End	oN :	206889.00		37240.02	244129.02	37240.02	206889.00	2.00	1034445.00			1034445.00
Nut-Full No 1035.00 18% 186.30 175.08 166.30 276.00 225560.00 240240.00 25560.00 25561.28 25560.00 25560.00 25561.28 25560.00 25560.00 25561.28 25560.00 25561.28 25560.00 25561.28	Nut-Full No 1035.00 18% 186.30 1221.30 186.30 1055.00 1055	22 5P8823	Bolt-Plow	o Z	2095 00		377 10	244129.02	3/	206889.00	5.00	1034445.00			1034445.0
Washer-Hard No 666_00 18% 199.08 715.09 199.08 660_0 216_00 3756_128 15546_128 15	Tig GF4 Ripper No 79517_00 18% 109.08 715.08 109.08 606.00 109.08	23 3K9770	Nut-Full	No.	1035.00	\perp	186.30	1221.30			216.00	223560.00	40240.80		223560 (
HID GA-RIBERT No 79517.00 18% 14313.06 1883.00 14313.06 78517.00 18% 14313.06 78517.00 18% 14313.06 78517.00 18% 14313.06 78517.00 18% 14313.06 78517.00 18% 1439.76 983.10 1 60 78517.00 18 78517.00 18% 1499.76 983.76 1 60 78517.00 18 7852.00 18% 1819.44 1109.74 1 60 18 1819.44 1 1927.44 1 1927.44 1 1092.74 1 100	Tip GP-Ripper	24 4K0684	Washer-Hard	N _O	00.909		109.08	715.08	109.08		216.00	130896.00	23561.28		130896.00
Maintain Comparing Maintai	No	25 3572712	Tip GP-Ripper	oN :	79517.00		14313.06	93830.06	14313.06	7	8.00	636136.00	-		636136.00
SEGMENT-SPROCKET No	SEGMENT-SPROCKET No 1708.00 18% 1815.44 11927.44 11018.00 1708.00 18% 1815.44 11927.44 11018.00 1708.00 18% 1815.44 11018.00 1708.00 18% 1815.44 11018.00 1708.00 18% 1815.44 11018.00 1708.00 18% 1815.44 11018.00 1708.00 18% 1815.60 1708.20 11018.00 1708.00 18% 1815.60 1708.00 18% 1815.60 1708.00 18% 1815.60 1708.00 18% 1815.60 1708.00 1708.00 1708.00 1708.00 1708.00 1708.00 1708.00 1708.00 1708.00 1709.00 1	26 3532546	Kit-Pin(Ripper Tip)	ON S	8332.00		1499.76	9831.76	1499.76	8332.00	16.00	133312.00			133312.0
SEGMENT-SPROCKET No 110424.00 18% 19876.32 130300.32 19876.32 110424.00 2.00 220848.00 3975.24 260600.64 2 NUT-FULL No 13256.00 18% 2386.00 166.20 1366.00 64.00 756.56 10 756.76 10 756.76 10 756.76 10 756.76 10 10 10	SEGMENT-SPROCKET No 110424_00 18% 19876_32 130300_32 19876_32 110424_00 SEGMENT-SPROCKET No 132560_00 18% 23860_80 156420_80 23860_80 132560_00 NUT-FULL No 180_00 18% 160_20	28 3532600	Pin	S S	10108 00		1819 44	11927 44	1819 44	10108 00	1,00	10108 00			335070.
6020406 SEGMENT-SPROCKET No 132560.00 18% 23860.80 156420.80 23860.80 6.00 735360.00 143164.80 938524.30 7 351346 NUL-PULL No 186.00 18% 160.20 160.20 860.00 64.00 5660.00 143164.80 7371.20 351346 WABHER HARD No 1865.00 18% 165.20 165.30 186.00 187.20 187.20 187.00 187.00 187.20 187.20 187.00 187.00 187.20 187.00 187.00 187.20 187.00 187.00 187.20 187.00 187	SEGMENT-SPROCKET No 132560.00 18% 23860.80 156420.80 23860.80 132560.00 132560	29 6020405	SEGMENT-SPROCKET	- Q	110424.00		19876.32	130300.32	19876.32	110424.00	2.00	220848,00	39752.64		220848.0
351356 NUT-FULL No 890.00 18% 160.20 160.20 160.20 64.00 64.00 65960.00 10252.80 67212.80 333349 WASHER HARD No 168.00 18% 33.30 18.00 18.00 1731.20 13971.20 71743 BOLT No 64047.00 18% 75575.46 1528.42 64.00 90816.00 13346.88 107162.88 KSNDDCO Engine Oil Barrel No 64047.00 18% 15575.46 1528.46 64047.00 90816.00 13246.88 107162.88 FREE OF COST KSNHDOO Pydraulic Oil Barrel No A 1528.46 75575.46 1528.46 64047.00 512376.00 92227.88 64063.38 EREE OF COST KSNHDOOL Hydraulic Oil Barrel No A <td>3831356 NUT-FULL No 890.00 18% 160.20 160.20 160.20 890.00 381349 WASHER HARD No 185.00 18% 33.00 218.30 33.30 165.00 71743 BOLT No 149.00 18% 255.42 167.42 255.42 1419.00 KSNIDEO Engine Oil Barrel No 64047.00 18% 11528.46 75575.46 11528.46 64047.00 Hydralic Oil Barrel No Hydralic Oil Barrel No 10 140.00 14 140.00</td> <td>30 6020406</td> <td>SEGMENT-SPROCKET</td> <td>No</td> <td>132560.00</td> <td></td> <td>23860.80</td> <td>156420.80</td> <td>23860.80</td> <td>132560.00</td> <td>00'9</td> <td>795360.00</td> <td>Ĺ</td> <td></td> <td>795360.00</td>	3831356 NUT-FULL No 890.00 18% 160.20 160.20 160.20 890.00 381349 WASHER HARD No 185.00 18% 33.00 218.30 33.30 165.00 71743 BOLT No 149.00 18% 255.42 167.42 255.42 1419.00 KSNIDEO Engine Oil Barrel No 64047.00 18% 11528.46 75575.46 11528.46 64047.00 Hydralic Oil Barrel No Hydralic Oil Barrel No 10 140.00 14 140.00	30 6020406	SEGMENT-SPROCKET	No	132560.00		23860.80	156420.80	23860.80	132560.00	00'9	795360.00	Ĺ		795360.00
MASHER PARD No 188,00 18% 255.42 1674.42 255.42 1419.00 1419.00 1419.00 1837.120 11397	351349 WAGHER HARD No 188.00 188.8 33.30 218.30 38.30 188.00 T11243 BOLT No 1419.00 18% 255.42 167.42 255.42 1419.00 KSNDEO Engine Oil Barrel No 64047.00 18% 11528.46 75575.46 11528.46 64047.00 Hydralic Oil Barrel No 64047.00 18% 15575.46 11528.46 64047.00	31 3S1356	NUT - FULL	No	890.00		160.20	1050.20			64.00	56960.00	10252.80		26960.00
Compared No	Engine Oil Barrel No 64047.00 18% 255.42 1674.42 255.42 1419.00 Powertrain Oil Barrel No 64047.00 18% 11528.46 11528.46 64047.00 Hydraulic Oil Barrel No 64047.00 Powertrain Oil Barrel No 64047.00 Powe	32 381349	WASHER HARD	2:	185.00		33.30	218.30			64.00	11840.00	2131.20		11840.00
Powertrain Oil Barrel No FREE OF COST Hydraulic Oil Barrel No 2.00 FREE OF COST Final drive oil Barrel No FREE OF COST Recoil fame oil Barrel No FREE OF COST Grease Barrel No FREE OF COST	Powertrain Oil Barrel No Hydraulic Oil Barrel No	33 / 11243 34 KSNDEO	Engine Oil Barrel	S S	64047 00		11528 46	75575 46	-	9	8 00	512376.00			90816.0
Hydraulic Oil Barrel No 7.00 1.00	Hydraulic Oil Barrel No	35 KSNTDTO30		- SV		1					5.00	200			_
Final drive oil Barrel No		36 KSNHYDO10		No				THE STREET			2.00			FREE	F COST
Recoil frame oil Barrel No 1.00	Final drive oil Barrel No Final drive oil Barrel No	37 KSNFDAO60		ON							1.00			FREE O	F COST
Grease Barrel No 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Recoil frame oil Barrel No	38 KSNTDTO50		oN :							1.00			FREE	FCOST
	Grease Barrel No 3.00	39 KSNGKEAS		ON							3.00			FREE	FCOST

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A. Sasters

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

Details of Training Charges (Dipka Project -SECL for 6 Machines With Ripper under NCD)

11	Total Charges	(5x6)+(9x10)		And the second second	Rs.	7500	12500	0	15000	7500	52500	92000
10	60	Rate per	Man per	Week	Rs.	2500	2500	2500	2500	2500	2500	
6	At Site	Period Total Man Rate per	Weeks	(7x8)		-	,	0	9	3	21	
8	A	Period	(Week)			-	1	0	1	-	1	
7		No.				-	-	0	9	က	21	32
9	Facility	Rate per	Man per	Week	Rs.	2000	2000	2000	2000	2000	2000	
2	At Manufacturer's Training Facility	Period Total Man Rate per	Weeks	(3x4)		1	2	0	0	0	0	
4	nufacture	Period	(Week)			1	1	0	0	0	0	
3	At Ma	No.				-	2	0	0	0	0	3
2	Sl. No. Type of Personnel					Mech Engineer	2 Mech Supervisor	3 Elec Supervisor	4 Mech Fitter	5 Electrician	6 Operator	
-	SI. No.			ile III		-	2	3	4	5	9	

Special Community Communit						Unit values (in Ks.	S (IN KS.)							
Sparse Part Part No. Filter Carlo Liber Carlo Li	No.	ltem Description with part no.(if any)	Unit of Measurem ent (UOM)	FOR Destination Price		Amount	Landed	Input Tax credit Amount	Net Landed Price after deducting Input Tax credit	Quantity of Consumable e Spares & Consumables Quoted per equipment of the Project	Total FOR Destination Price per equipment	Total GST Amount per equipment	Total Landed Price for Consumables Spares & Consumables for first 12 months of warranty period per equipment without deducting input Tax credit (in Rs.)	Total Consult &
Spanes Part Education No. 6115.00 1975. 100.00 1015.00		2	3	4	5	6=4*5	7=4+6	9=8	8-7-6	10	11=4*10	12=6*10	13=7*10	14=9*10
Filter Element AS-byte Characteristics No. 1, 12, 12, 12, 11, 12, 11, 12, 13, 13, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	Consumables Sp	ares (Per Equipment)												
Filter Education of Activities of Activities (Activities of Activities (Activities (Acti	Describition				,000	000	1,01	01 0011		0000	00000			
Filter Lab. Standard School From May 1, 2000 01 1976 11, 12, 12, 12, 12, 12, 12, 12, 12, 12,	1R1808	Filter-Engine Oil	oN :	6115.00	18%	1100.70	7215.70	1100.70	6115.00	20.00	122300.00	22014.00		
Filter Element ASA Where Sept (2017) Filter Element A	2 4227587	Filter-Fuel - Secondary	No	13292.00	18%	2392,56	15684.56	2392.56	13292.00	20.00	265840.00	47851.20		
Filter Element ASAM (Firmary) No 6, 5474,500 19% 1475,500 144,000 2747,400 20, 2747,	4385385	Filter AS-Water Sep & Fuel	oN :	8705.00	18%	1566.90	10271.90	1566.90	8705.00	10.00	87050.00	15669.00		
Filter Element AS-Artifrantic OI 18% 4488.21 281.62.54 4418.61 0.100 2267.41 0.100 226	4 1063973	Filter Element AS-Air (Secondary)	ON	6335.00	18%	1140.30	7475.30	1140.30	6335.00	20.00	126700.00	22806.00		
Filter Element AG-Oli Hydraule OI	1327168	Filter Element AS-Air (Primary)	ON :	24714.00	18%	4448.52	29162.52	4448.52	24714.00	10.00	247140.00	44485.20		
Seau-C-Reng No 617120 818, 226.24 418.00 10.0 1314.00 2267.24 14572.40 14572.	2492337	Filter Element AS-Hydraulic Oil	ON :	11340.00	18%	2041.20	13381.20	2041.20	11340.00	20.00	226800.00	40824.00		
Seal-O-Ring No 1186 00 18% 2134 8 1185 00 234,3 1 1186 00 250 0 234,5 1 234 8 234 9 234,5 1 234 8 234,5 1 234 8 234,5 1	5F6222	Seal-O-Ring	No	1418.00	18%	255.24	1673.24	255.24	1418.00	10.00	14180.00	2552.40	THE NAME OF THE PARTY OF	
Seal-C-Ring	1704822	Seal-O-Ring	oN :	6577.00	18%	1183.86	7760.86	1183.86	6577.00	2.00	13154.00	2367.72		
Filter Element AS-Mr (Parchaelle)	5H6733	Seal-O-Ring	ON	1186.00	18%	213.48	1399.48	213.48	1186.00	2.00	5930.00	1067.40		
Filler Element A.Soli (Hydraulic) No 965.00 18% 119.34 782.34 782.34 7	10 2H6124	Seal-O-Ring	oN :	1305.00	18%	234.90	1539.90	234.90	1305.00	2.00	6525.00	1174.50		
Filter Element Schröding	3891079	Filter Element AS-Oil (Hydraulic)	oN :	9624.00	18%	1732.32	11356.32	1732.32	9624.00	2.00	19248.00	3464.64		
Filter California Ca	0951671	Seal-O-Ring	ON :	663.00	18%	119.34	782.34	119.34	663.00	2.00	1326.00	238.68		
Filter Element As-Ard (Pinnary) No 17850,00 18% 2005,00 2010	3440004	Filter Element-Uil (Power Irain Primary)	ON S	15391.00	18%	2770.38	18161.38	2770.38	15391.00	5.00	76955.00	13851.90		
Filter Edenomic Activities and No. 557100 18% 208216 59444 690.18 571200 5.00 25050 0 4510 80 23570 0 1378300 235704 0 120500 25050 25050 0 1378300 235704 0 138800.00 18% 24894.00 18740.00 5.00 25050 0 1890 235704 0 1378300 24894.00 24894.00 24894.00 24890.00 24990.00	2200562	Filter-Oil - Italismission secondary (Oilda	ON	10159.00	10%	7200.02	11967.62	1828.62	10159.00	2.00	20318.00	3057.24		
Filter Element Call Armany No 138000 18% 297.00 187.00 207.00 6.00 265000 488000 307793 307790 307793 307793 307793 307770 307793 3	2200302	Filter Flement AS-Air (Primany)	O Z	5012 00	18%	902.90	5014 16	903.30	5012 00	200	25060.00	4510 80		
Edge-Cutting	3468243	Filter Element-Cab Air	No.	5210.00	18%	937.80	6147.80	937.80	5210.00	5.00	26050.00	4689.00		
Edge-Cutting No	9W4494	Edge-Cutting	No	138800.00	18%	24984.00	163784.00	24984.00	138800.00	00.9	832800.00	149904.00	65	
Bill-End No 206889 00 18% 37240 02 244129 02 37240 02 244129 03 37240 02 244129 03 37240 02 244129 03 37240 02 244129 03 37240 02 244129 03 37240 02 244129 03 37240 02 244129 03 37240 02 244129 03 37240 03 24620 03 24620 03 846350 03 84630 03 846350	9W4495	Edge-Cutting	No	149182.00	18%	26852.76	176034.76	26852.76	149182.00	00.9	895092.00	161116.56		895092.00
Bill-End No 200889 00 18% 37240,02 244729,02 37740 200869 00 6.00 1241334,00 223440,12 1464774,12 146714 14677	8E4545	Bit-End	No	206889.00	18%	37240.02	244129.02	37240.02	206889.00	00'9	1241334.00	223440.12	100	
Boilt-Plow No 2095.00 18% 377.10 2272.01 272.130 1035.00 215.00 22556.00 2255	8E4546	Bit-End	No	206889.00	18%		244129.02	37240.02	206889.00	00.9	1241334.00	223440.12		
Washle-full No 1055.00 18% 186.30 125.30 216.00 216.00 223560.00 42242.00 25560.00 24360.00 2600.00 18% 199.00 715.13 186.30 215.00 216.00 216.00 216.00 216.00 216.00 216.00 216.00 216.00 216.00 216.00 223560.128 1554457.28 155467.28 15560.00 1500.00	5P8823	Bolt-Plow	No	2095.00	18%	377.10	2472.10	377.10	2095.00	216.00	452520.00	81453.60		
Washer-Hand No 796,170 18% 175,08 606,00 130,86,00 2366,28 656,128 155,68,128 155,08 606,00 130,88 175,08 606,00 130,88 175,08 16 796,170 796,170 796,170 18% 1493,16 7832,20 16,00 13331,20 23966,16 757,08,17 757,08,16 757,08,17 757,00 757,	3K9770	Nut-Full	ON	1035.00	18%	186.30	1221.30	186.30	1035.00	216.00	223560.00	40240.80		
Kit-Pin GP-Kipper No 79517.00 18% 14313.06 39517.00 8.00 636136.00 114504.48 750640.48 Kit-Pin GRAPETIP No 79517.00 18% 1499.76 38317.00 16.00 233996.16 157308.16 Protector GP-Shank No 10108.00 18% 1891.74 11927.44 10108.00 100 11934.4 11927.44 SEGMENT-SPROCKET No 10108.00 18% 1895.22 1930.00 6.00 220848.00 1819.44 11927.44 NUT - FULL No 110424.00 18% 1896.20 13256.00 14316.80 14316.40 3955.24 NUT - FULL No 11022.00 18% 186.20 13266.00 6.00 13316.4 13971.20 WASHER HARD No 1419.00 18% 158.00 166.20 890.00 64.00 13316.2 1331.20 1752.80 BOLT No 1419.00 18% 158.00 166.20 890.00 1419.00 170	4K0684	Washer-Hard	ON.	00.909	18%	109.08	715.08	109.08	00.909	216.00	130896.00	23561.28		
March Marc	3572712	Tip GP-Ripper	ON	79517.00	18%	14313.06	93830.06	14313.06	79517.00	8.00	636136.00	114504.48		
Projector Circ. Shark No	3532546	Kit-Pin(Ripper Tip)	ON 2	8332.00	18%	1499.76	9831.76	1499.76	8332.00	16.00	133312.00	23996.16		
SEGMENT-SPROCKET	3513560	Protector GP-Shank	ON NO	335070.00	100/	1010.44	11027 44	1010 44	335070.00	1.00	335070.00	90312.60		
SEGMENT SPROCKET No 1975-50.00 18% 23860.80 1560.20 160.	5052000	SEGMENT-SPROCKET	O N	110424 00	18%		130300 32	10876 32	110424 00	00.0	220848 00	20752 64		6
NUT. FULL No 890.00 18% 160.20 160.20 160.20 160.20 160.20 160.20 160.20 160.20 160.20 160.20 160.20 160.00 64.00 10252.80 6721.280 67212.80 MASHER HARD No 185.00 18% 33.30 218.30 33.30 185.00 64.00 1149.00 2131.20 13971.20 BOLT No 1449.00 18% 255.42 1674.42 255.42 1419.00 64.00 18346.88 107182.88 Powertrain Oil Barrel No 64047.00 18% 1528.46 1528.46 64047.00 6409.22 529028.22 529028.22 Hydraulic Oil Barrel No No 1528.46 1528.46 1528.46 150 483229 80699.22 529028.22 Final dive oil Barrel No No 10 10 483229 10 10 10 10 10 10 10 10 10 10 10 10 10<	6020406	SEGMENT-SPROCKET	CN	132560 00	18%		156420.80	23860 80	132560 00	6.00	795360 00	143164 80		
WASHER HARD No 185,00 18% 33.30 218.30 185.00 64.00 11840.00 2131.20 13971.20 BOLT No 1419.00 18% 255.42 1674.42 255.42 1419.00 64.00 16346.88 107162.88	3S1356	NUT - FULL	No	890.00	18%	160.20	1050.20	160.20	890.00	64 00	56960 00	10252 80		
BOLT No	3S1349	WASHER HARD	No	185.00	18%	33.30	218.30	33.30	185.00	64.00	11840.00	2131.20		
Engine Oil Barrel No 64047.00 18% 11528.46 75575.46 11528.46 64047.00 7.00 448329.00 80699.22 529028.22 A Powertrain Oil Barrel No FREE OF COST FREE OF COST FREE OF COST FREE OF COST Recoil frame oil Barrel No No FREE OF COST FREE OF COST Grease Barrel No FREE OF COST FREE OF COST Grease Barrel No FREE OF COST	711243	BOLT	No	1419.00	18%	255.42	1674.42	255.42	1419.00	64.00	90816.00	16346.88		
Powertrain Oil Barrel No 5.00	34 KSNDEO	Engine Oil Barrel	No	64047.00	18%	11528.46	75575.46	11528.46	64047.00	7.00	448329.00	80699.22		4
Hydraulic Oil Barrel No 2.00	KSNTDTO30	Powertrain Oil Barrel	No		10.7			100		2.00			FREE OI	F COST
Final drive oil Barrel No	36 KSNHYDO10	Hydraulic Oil Barrel	No		108		A THE PERSON NAMED IN			2.00			FREE OI	F COST
Recoil frame oil Barrel No	KSNFDA060	Final drive oil Barrel	No							1.00			FREE O	F COST
Grease Barrel No No 1629689.96	KSNTDTO50	Recoil frame oil Barrel	No	A A Second						1.00			FREE OI	F COST
-	KSNGREASE	Grease Barrel	No							3.00			FREE OI	F COST
							Section 2				9053722.00	1629669.96		

J. M.

Dudhichua Project -NCL for 1 Machine With Ripper under NCD)

	S									18		
11	Total Charges	(2x6)+(9x10)			Rs.	7500	12500	0	7500	0009	27500	00009
10		Rate per	Man per	Week	Rs.	2500	2500	2500	2500	2500	2500	
6	At Site	Period Total Man Rate per	Weeks	(7x8)		1	1	0	3	2	11	
8	A	Period	(Week)			1	1	0	1	1	1	
7		No.				1	1	0	3	2	11	18
9	Facility	Rate per	Man per	Week	Rs.	2000	2000	2000	2000	2000	2000	
5	At Manufacturer's Training Facility	Period Total Man	Weeks	(3x4)		1	2	0	0	0	0	
4	ınufacture	Period	(Week)			1	1	0	0	0	0	
3	At Ma	No.				-	2	0	0	0	0	3
2	Sl. No. Type of Personnel					Mech Engineer	2 Mech Supervisor	3 Elec Supervisor	Mech Fitter	5 Electrician	6 Operator	
-	SI. No.					1	2	3	4	2	9	

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					1		OIIII Values (III Rs.)	00 200						
S. S.	Item Descripi	Item Description with part no.(if any)	Unit of Measurem ent (UOM)	FOR Destination Price	Rate	Amount	Landed Price	Input Tax credit Amount	Net Landed Price after deducting Input Tax credit	Quantity of Consumable Spares & Consumable s Quoted per equipment of	Total FOR Destination Price per equipment	Total GST Amount per equipment	Total Landed Price for Consumables Spares & Consumables for first 12 months of warranty period per equipment without	Total Net Landed Price for Consumables Spares & Consumables for first 12 months of warranty period per equipment after
	3									the Project			deducting Input Tax credit (in Rs.)	deducting Input Tax credit (in Rs.)
2	Continuation Space (Box Equipment)	2	8	4	5	6=4*5	7=4+6	9=8	8-2-8	10	11=4*10	12=6*10	13=7*10	14=9*10
Description	tion	nent) Dart No												
1 1R1808	1000	Filter-Engine Oil	ON.	6115 00	18%	1100 70	7215 70	1100 70	6115 00	20.00	122300.00	22014 00	444244 00	42220000
2 4227587	7	Filter-Fuel - Secondary	N.	13292.00	18%	2392.56	15684.56	2392.56	13292.00	20.00	265840 00	47851 20	313691 20	265840.00
3 4385385	5	Filter AS-Water Sep & Fuel	No	8705.00	18%	1566.90	10271.90	1566.90	8705.00	10.00	87050.00	15669.00	102719.00	87050.00
4 1063973	20	Filter Element AS-Air (Secondary)	No	6335.00	18%	1140.30	7475.30	1140.30	6335.00	20.00	126700.00	22806.00	149506.00	126700.00
5 1327168	1 000	Filter Element AS-Air (Primary)	oN :	24714.00	18%	4448.52	29162.52	4448.52	24714.00	10.00	247140.00	44485.20	291625.20	247140.00
7 555000		Filter Element AS-Hydraulic Oil	ON 2	11340.00	18%	2041.20	13381.20	2041.20	11340.00	20.00	226800.00	40824.00	267624.00	226800.00
8 1704822	2	Seal-O-Ring	ON N	6577 00	18%	1183 86	7760 86	1183 86	1418.00	70.00	14180.00	2552.40	16732.40	14180.00
9 5H6733	1	Seal-O-Ring	No	1186.00	18%	213.48	1399 48	213 48	1186 00	2.00	5030 00	1067 40	21.1261	13134.00
10 2H6124		Seal-O-Ring	No	1305.00	18%	234.90	1539.90	234.90	1305.00	5.00	6525.00	1174.50	7699 50	6525.00
11 3891079	6	(Hydraulic)	ON	9624.00	18%	1732.32	11356.32	1732.32	9624.00	2.00	19248.00	3464.64	22712.64	19248.00
12 095167		Seal-O-Ring	oN.	663.00	18%	119.34	782.34	119.34	663.00	2.00	1326.00	238.68	1564.68	1326.00
13 3440004	4	(Power Train Primary)	oN.	15391.00	18%	2770.38	18161.38	2770.38	15391.00	5.00	76955.00	13851.90	90806.90	76955.00
14 1261815	2	High Efficiency)	oN :	10159.00	18%	1828.62	11987.62	1828.62	10159.00	2.00	20318.00	3657.24	23975.24	20318.00
15 3200562	7,	Dryer AS-Refrigerant (In-Line)	ON	12831.00	18%	2309.58	15140.58	2309.58	12831.00	1.00	12831.00	2309.58	15140.58	12831.00
17 3468243	3	Filter Element AS-Air (Primary) Filter Flement-Cab Air	ON N	5012.00	18%	902.16	5914.16	902.16	5012.00	5.00	25060.00	4510.80	29570.80	25060.00
18 9W4494	t	Edge-Cutting	ON.	138800 00	18%	24984 00	163784 00	24984 00	138800 00	9.00	832800.00	140904 00	30739,00	200000000
19 9W4495	5	Edge-Cutting	No	149182.00	18%	26852.76	176034.76	26852.76	149182.00	00.9	895092.00	161116 56	1056208 56	89509200
20 8E4545		Bit-End	No	206889.00	18%	37240.02	244129.02	37240.02	206889.00	00:9	1241334.00	223440.12	1464774.12	1241334.00
21 8E4546		Bit-End	No	206889.00	18%	37240.02	244129.02	37240.02	206889.00	00.9	1241334.00	223440.12	1464774.12	1241334.00
22 5P8823		Bolt-Plow	No	2095.00	18%	377.10	2472.10	377.10	2095.00	216.00	452520.00	81453.60	533973.60	452520.00
23 3K9770		Nut-Full	oN :	1035.00	18%	186.30	1221.30	186.30	1035.00	216.00	223560.00	40240.80	263800.80	223560.00
25 2572712	2	Washer-Hard	0 2	606.00	18%	109.08	715.08	109.08	606.00	216.00	130896.00	23561.28	154457.28	130896.00
26 3532546	2	Kit-Pin(Ripper Tip)	S Z	8332 00	18%	1499 76	93030.00	14313.00	8332 00	8.00	122212.00	72006 16	750640.48	636136.00
27 3313560	0	Protector GP-Shank	No.	335070 00	18%	60312 60	395382 60	60312 60	335070.00	100	335070.00	60312 60	305382.60	335070.00
28 3532600	0	Pin	No	10108.00	18%	1819.44	11927.44	1819.44	10108.00	1.00	10108.00	1819.44	11927.44	10108 00
29 6020405	5	SEGMENT-SPROCKET	No	110424.00	18%	19876.32	130300.32	19876.32	110424.00	2.00	220848.00	39752.64	260600.64	220848.00
30 6020406	9	SEGMENT-SPROCKET	No	132560.00	18%	23860.80	156420.80	23860.80	132560.00	6.00	795360.00	143164.80	938524.80	795360.00
31 381356		NUT - FULL	No.	890.00	18%	160.20	1050.20	160.20	890.00	64.00	26960.00	10252.80	67212.80	56960.00
33 7T1243		WASHER HARD	0 2	1419.00	18%	33.30	218.30	33.30	185.00	64.00	11840.00	2131.20	13971.20	11840.00
34 KSNDEO	0	Engine Oil Barrel	o N	64047 00	18%	11528 46	75575 46	11528 46	64047 00	7.00	448329.00	80699 22	520028 22	448330.00
35 KSNTDTO30	TO30	Powertrain Oil Barrel	^o Z					2000	20.110	5.00	2000000	00000.22	FREE OF COST	F COST
36 KSNHYDO10	DO10	Hydraulic Oil Barrel	N _o							2.00			FREE OF COST	FCOST
37 KSNFDAO60	AO60	Final drive oil Barrel	No		9					1.00			FREE OF COST	F COST
38 KSNTDTO50	1050	Recoil frame oil Barrel	2							1.00			FREE OF COST	F COST
39 KSNGKEASE	LASE	Caron Coccas												

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(Bina KhakriAmalgamation Project -NCL for 1 Machine With Ripper under NCD)

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11	Total Charges	(5x6)+(9x10)			Rs.	7500	7500	0	2000	2500	17500	40000
10		Rate per	Man per	Week	Rs.	2500	2500	2500	2500	2500	2500	
6	At Site	Period Total Man Rate per	Weeks	(7x8)		1	1	0	2	1	7	
8	A	Period	(Week)			1	-	0	1	1	1	
7		No.				1	1	0	2	-	7	12
9	y Facility	Rate per	Man per	Week	Rs.	2000	2000	2000	2000	2000	2000	
5	At Manufacturer's Training Facility	Period Total Man Rate per	Weeks	(3x4)		1	1	0	0	0	0	
4	inufacture	Period	(Week)			- 1	1	0	0	0	0	14
3	At Ma	No.				1	1	0	0	0	0	2
2	Sl. No. Type of Personnel					Mech Engineer	Mech Supervisor	3 Elec Supervisor	Mech Fitter	5 Electrician	6 Operator	
1	SI. No.					1	2	3	4	5	9	

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Net						Unit Values (in Rs.)	s (in Rs.)							
Figure Part Engine Color Figure		tem Description with part no.(if any)	Unit of Measurem ent (UOM)	FOR Destination Price		Amount	Landed	Input Tax credit Amount	Net Landed Price after deducting Input Tax credit	Quantity of Consumabl e Spares & Consumabl es Quoted per equipment of the Project	Total FOR Destination Price per equipment	Total GST Amount per equipment	Total Landed Price for Consumables Spares & Consumables for first 12 months of warranty period per equipment without deducting Input Tax credit (in Rs.)	
Part No.		2	3	4	5	6=4*5	7=4+6	9=8	8-7-8	10	11=4*10	12=6*10	13=7*10	14=9*10
Filter Element Ask of Percentant Ask of Percen	nables Spares	(Per Equipment)												
Filler Flace A Secondary No		Filter-Engine Oil	No	6115.00		1100.70	7215.70	18	6115.00	20.00	122300.00			
Filter Element-Cal-Park Filter No. 625550 19% 1465 50 1027 140 105	7	Filter-Fuel - Secondary	No	13292.00		2392.56			13292.00	20.00	265840.00			
Filter Element AS-M Filters Filter Element AS-M Filter Element	2	Filter AS-Water Sep & Fuel	No	8705.00		1566.90	,		8705.00	10.00	87050.00			
Figure Element A.S.A.M. Carrier B. No. 125.00 1875 2015.20 11940.00 10	0 03	Filter Element AS-Air (Secondary)	2 2	6335.00		1140.30	7475.30		6335.00	20.00	126700.00			
Seal-O-Parameter No. 1476 00 1879, 1875 00 1871 00 1875 00 1871 00 1875 00 1	7	Filter Element AS-Burgardis Oil	2 2	11340 00		20448.52	13381 20	20448.52	11340 00	10.00	24/140.00			
Seal-ORING Seal-ORING No. 611700 170		Cool O Disc	ON ON	4440.00	1	2041.20		2041.20	11340.00	40.00	44400.00	7	,	7
Continue		Seal-O-King	ON ON	1418.00		470000		4700 00	1418.00	10.00	14180.00			
Seal-Chefred Chefred Line Chef	7 8	Seal-O-Ring	ON ON	1196.00		713.80	1300.40	7183.86	1106.00	2.00	13154.00			
Filter Element-Oil Cover Train Primary No 1962.00 1978 1723 28 11356.25 1723.02 9624.00 2.00 1924.00 246		Sear-O-Ning	2 2	1305.00		234 00	1530.00	224 00	1205.00	3.00	2930.00			
Filler Element-Cit Power Train Primary No 1539 10 18% 1193 41 782 41 1153 41 655.00 2.00 1526.00 2.0	6	(Hydraulic)	S Z	9624 00		1732 32		1732 32	9624 00	2,00	10248 00			
Filter Element-Oil (Power Train Primary) No 15391 00 18% 1870 23 15381 100 5.00 76965.00 769	1	Seal-O-Ring	No	663.00	13	119.34		119,34	663.00	2.00	1326.00			
Filter-Chi Tristmission secondary Ultra High No 101590 18% 12305 56 11987 62 11987 62 12831 00 130 100 12031 00 1487 62 11987 62 11987 62 11987 62 1100 12031 00 14510 80 1100 12031 00 14510 80 130738 00 14510 80 14510 80 130738 00 14510 80 130738 00 14510 80 130738 00 14510 80 130738 00 14510 80 130738 00 14510 80 130738 00 14510 80 14510 80 130738 00 14510 80 130738 00 14510 80 14510 80 130738 00 14510 80 14510 80 130738 00 14510 80 145	4	Filter Element-Oil (Power Train Primary)	9	15391 00		2770.38	18161.38	2770.38	15391.00	5.00	76955.00	13	1	
Children	L.	Filter-Oil - Transmission secondary (Ultra High	o _N	10159.00	N. A	1828.62	11987.62	1828.62	10159.00	2.00	20318.00			3
Filter Element-Cab Air No \$5012.00 18% 992.0 5012.00 5000 55060.00 46510.80 259570.80	2	(In-Line)	No	12831.00	1	2309.58	15140.58	2309.58	12831.00	1.00	12831.00			
Filter Element-Cab Air No \$22100 19% \$43780 \$614780 \$6100 \$6100 \$6100 \$6100 \$6100 \$6100 \$6100 \$610 \$61000 \$61000 \$6100 \$61000 \$6100 \$61000 \$	7	(Primary)	oN.	5012.00	18%	902.16	5914.16	902.16	5012.00	5.00	25060.00			
Edge-Cutting No 1388000 18% 24984.0 13880010 6.00 852800.0 161166 1611	3	Filter Element-Cab Air	No	5210.00		937.80	6147.80		5210.00	5.00	26050.00			
Edge-Cuting No 1481782 18622		Edge-Cutting	o _N	138800.00	18%	24984.00	163784.00		138800.00	6.00	832800.00			
Bile-End No 206889 00 18% 37740 12 244730 02 246883 00 6.00 1241334,00 223440.12 1444774.12 1.4		Edge-Cutting	2	149182.00		26852,76			149182.00	00.9	895092.00			
Bolis-Plane		Bit-End	ON ON	206889.00	7				206889.00	6.00	1241334.00			
Washer-Hard No 1035.00 186.30 1271.30 186.30 275.00 275.		Bolt-Dlow	N ON	209500			244 129.02	2		216.00	1241334.00			
Washer-Hard No 606.00 18% 4109.08 715.08 109.08 606.00 216.00 130896.00 23561.28 154457.28 156.00 130896.00 23561.28 154457.28 156.00 130896.00 23561.28 154457.28 156.00 130896.00 23561.28 156.00 156.00 13331.20 2396.16 156.00 13331.20 2396.16 156.00 13331.20 2396.16 156.00 13331.20 2396.16 156.00 13331.20 156.00		Nut-Full	No	1035,00	2	186.30	1221.30			216.00	223560.00			
Tip GP-Ripper		Washer-Hard	No	00.909	18%	109.08			00.909	216.00	130896.00			
Matchin Ripper Tip No 8332.00 18% 1499.76 8983.16 8332.00 160 333372.00 60312.60 335372.40 1973.44 1492.70 1492.70 1	2	Tip GP-Ripper	No	79517.00		14313.06	93830.06		79517.00	8.00	636136.00	-		
Protector GP-Shark	(0)	Kit-Pin(Ripper Tip)	9	8332.00		1499.76	9831.76		8332.00	16.00	133312.00			
SEGMENT-SPROCKET No 10424.00 18% at 185.44 1182.74 at 1819.44 10108.00 1519.44 11927.44 11927.44 SEGMENT-SPROCKET No 10424.00 18% at 18676.32 13676.30 23086.00 130.22 10424.00 200 2208480.0 39752.64 2606006.4 SEGMENT-SPROCKET No 132560.00 18% at 186.00 18% at 186.00 160.20 160.	0	Protector GP-Shank	oN :	335070.00		60312.60	395382.60		335070.00	1.00	335070.00			
SEGMENT-SPROCKET No 110424.0 18% 1987 19424.0 2.00 2.20846.0 3.915.264 2.60600.64 SEGMENT-SPROCKET No 182560.00 18% 19860.80 156420.80 13860.00 13860.80 13860.00 13860.80 13860.80 13860.00 13860.80 13860.00 13860.80 13860	0 4	FINOCOGO TIMENOTO	No	10108.00	18%	1819.44	11927.44	1819.44	10108.00	1.00	10108.00	ľ		
Machementary Mach	2	SEGMENI-SPROCKET	ON ON	110424.00	18%	19876.32	130300.32		110424.00	2.00	220848.00			
WASHER HARD No 185,00 18% 33.30 218.30 33.30 18.50 4.40 0.00 1.00		SEGMENT-STROCKE	N ON	890.00		160.20	2	Ý	990.00	64.00	7.95360.00		,	
BOLT No 1419.00 18% 255.42 1674.42 255.42 1419.00 64.00 90816.00 16346.88 107162.88 107162.88 Powertrain Oil Barrel No 64047.00 18% 11528.46 11528.46 64047.00 7.00 448329.00 80699.22 529028.22 4 Powertrain Oil Barrel No No 1528.46 11528.46 64047.00 7.00 448329.00 80699.22 529028.22 7 4 Hydraulic Oil Barrel No No 1.00	1.87	WASHER HARD	No.	185.00	7	33.30				64.00	11840.00			
Engine Oil Barrel No 64047.00 18% 11528.46 1528.46 1528.46 64047.00 7.00 448329.00 80699.22 529028.22 A Powertrain Oil Barrel No REE. OF COST PREE. OF COST FREE. OF COST FREE. OF COST Recoil frame oil Barrel No 1.00 ROST FREE. OF COST Grease Barrel No REE. OF COST FREE. OF COST Grease Barrel No REE. OF COST FREE. OF COST		BOLT	No	1419.00	18%	255.42	-	255.42	-	64.00	90816.00			
Powertrain Oil Barrel No 5.00 Cases Barrel No	0	Engine Oil Barrel	No	64047.00	18%	11528.46	75575.46		64047.00	7.00	448329.00		529	4
Hydraulic Oil Barrel No	T030	Powertrain Oil Barrel	oN.				1 M 1 M			5.00			FREE	OF COST
Recoil Barrel No Clease Barrel No 9053722.00 1629669.96	DC10	Hydraulic Oil Barrel	0 N							2.00			FREE	OF COST
Grease Barrel No 8963722.00 1629669.96	TO50	Recoil frame oil Barrel	N N							00.1			CDEE	OF COST
9053722.00 1629669.96	EASE	Grease Barrel	No							3.00			FREE	OF COST
						6.	*				9053722.00	\perp		

Details of Training Charges (Jayant Project -NCL for 2 Machine With Ripper under NCD)

- 0	3	4	5	9	7	8	6	10	11
₹	Ma	nufacture	At Manufacturer's Training Facility	y Facility		f	At Site		Total Charges
No.	kar i	Period	Period Total Man Rate per	Rate per	No.	Period	Period Total Man Rate per	Rate per	(5x6)+(9x10)
		(Week)	Weeks	Man per		(Week)	Weeks	Man per	
			(3x4)	Week			(7x8)	Week	
				Rs.				Rs.	Rs.
-		1	1	0009	1	1	1	2500	7500
2		1	2	0009	1		1	2500	12500
0		0	0	2000	0	0	0	2500	0
0		0	0	2000	9	-	9	2500	15000
0		0	0	0009	3	1	3	2500	7500
0		0	0	2000	21	1	21	2500	52500
3					32				00026

Notification Of Award

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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कोल इंडिया लिमिटेंड

(एक महारत्न कंपनी) (भारत सरकार उपक्रम) सामग्री प्रबंधन विभाग 'कोल भवन', प्रीमिसेस नं.04- मार प्लाट सं-.ए.एफ-३, एक्शन एरिया-१ए न्यू टाउन, राजरहाट, कोलकाता -७००१५६ वेबसाइट :www.coalindia.in इमेल: gmmm.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

Date: 30.06.2025

Website: www.coalindia.in E mail: gmmm.cil@coalindia.in

Ref: CIL/C2D/850HP Crawler Dozer/R-153/ 202

To: M/s GMMCO Ltd. 11th Floor, Birla Building, 9/1, R.N. Mukherjee Road, Kolkata - 700001

e-mail: vikaskumar@gmmcoindia.com

PCC: Speed Post

Notification of Award

Subject: Supply, Installation and Commissioning of 16 nos. 850HP Crawler Dozers with Ripper 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 for various projects of SECL & NCL.

Reference:

- 1. Our Global e-Tender no. CIL/C2D/850HP Dozers/R-153/2024-25/395 dated 12.06.2024 Cover-I opened on 13.08.2024 and Cover-II (Price Bid) opened on & Reverse Auction on 21.11.2024
- 2. Your e-offer no. GMMCO/CIL/850HP/24-25 dated 22.07.2024 having BID ID 1065113 and subsequent correspondences and subsequent correspondences on CIL's e-procurement portal
- 3. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/472 dated 18.09,2024
- Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/621 dated 04.12.2024
- Your letter no. GMMCO/CIL/850HP/24-25 dated 05.12.2024
- 6. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/780 dated 06.02.2025
- 7. Your letter no. GMMCO/CIL/850HP/24-25 dated 30.01,2025
- 8. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/828 dated 26.02.2025
- 9. Your letter no. GMMCO/CIL/850HP/24-25 dated 26.02.2025
- 10. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/906 dated 28.03.2025
- 11. Your letter no. GMMCO/CIL/850HP/24-25 dated 31.03.2025
- 12. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/50 dated 25.04.2025
- 13. Your letter no. GMMCO/CIL/850HP/24-25 dated 28.04.2025
- 14. Our email dated 30.05.2025
- 15. Your email dated 30.05.2025

Dear Sir.

With reference to the above and in terms of the Clause-32 of Section-II – Instructions to Bidders (ITB) of the Tender Document, Notification of Award is hereby issued to you confirming acceptance of your offer for Supply, Installation and Commissioning of 16 no. of 850HP Crawler Dozer with

Page 1 of 7

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Ripper 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 on CIP (Final Place of Destination) basis for the following projects:

Item no.	Project	Qty
1	Gevra OCP, SECL under PCD	3
2	Gevra OCP, SECL under NCD	3
3	Dipka OCP, SECL under NCD	6
4	Dudhichua OCP, NCL under NCD	1
5	Bina Khakri Amalgamation OCP, NCL NCD	1
6	Jayant OCP, NCL under NCD	2

The terms and conditions shall be as per Tender Document. The salient terms are as mentioned hereunder:

- 1. A tripartite contract shall be concluded by CIL with you and your principal, M/s Caterpillar Inc., USA, after receipt of Security Deposit as detailed in Clause 7 below.
- 2. The contract shall be issued on CIP (Final Place of Destination) basis.

3. Currency:

- a) The equipment will be supplied by M/s Caterpillar Inc., USA in US Dollar (\$).
- b) INR components of equipment Port Handling, Clearing & Forwarding, Inland Transportation, Inland Insurance and Erection & Commissioning will be carried out by you for which payment will be made to you in INR. The indigenously sourced 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).
- Payment in USD and INR shall be made as per relevant clauses of SCC Section IV of the Tender Document.

4. The Prices shall be as under:

a. Equipment (For all projects):

SI no.	Description	Currency	Breakup Value
1	FOB Price (per equipment) inclusive of Indian agency commision	USD	13,12,118.00
2	Indian Agency Commission @ 4% inclusive. in FOB Price		4%
3	Indian Agency Commission incl. in FOB Price	USD	50,466.08
4	Marine Freight Charges upto Port of Entry in India	USD	35,000.00
5	Marine Insurance Charges	USD	2,500.00
6	CIF Price at Port of Entry in India	USD	13,49,618.00
7	Assessable Value	USD	13,49,618.00
8	Basic Customs Duty (BCD) on Assessable CIF Value @ 7.5%	USD	1,01,221.35

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Page 2 of 7

A. Sarkar

GIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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9	Social Welfare Surcharge (SWS) on BCD @ 10%	USD	10,122.14
10.	IGST @ 18%	USD	2,62,973.07
11	Total Customs Duty	USD	3,74,316.55
12	GST on marine freight @ 5%	USD	1,750.00
13	GST on Indian Agency Commission @ 18%	USD	9,083.89
14	Total CIF Value incl. GST on Marine Freight + Ind. Agency Commission (Exchange Rate USD 1 = Rs 85.03)	Rs.	11,56,79,224.53
15	Total Customs Duty (Exchange Rate USD 1 = Rs 85.03)	Rs.	3,18,28,136.44
16	Port charges, clearing forwarding charges and other incidental charges.	Rs.	18,77,364.00
17	GST on Port charges, clearing forwarding charges and other incidental charges @ 18%	Rs.	3,37,925.52
18	Inland Transportation for delivery upto Final Place of Destination	Rs.	18,50,000.00
19	GST on Inland Transportation for delivery upto Final Place of Destination @ 18%	Rs.	3,33,000.00
20	Inland Insurance for delivery upto Final Place of Destination	Rs.	•
21	GST on Inland Insurance upto Final Place of Destination @ 18%	Rs.	100000000000000000000000000000000000000
22	Errection & Commissioning Charges	Rs.	47,75,000.00
23	GST on Errection & Commissioning @ 18%	Rs.	8,59,500.00
24	Total Price of all Items sourced in INR required for fitting in the equipment during commissioning of the equipment	Rs.	18,03,063.00
25	Total GST applicable of all Items sourced in INR required for fitting in the equipment during commissioning of the equipment	Rs.	3,24,551.34
26	CIP Price per Equipment with GST	Rs.	15,96,67,764.84

b. Project wise details of Total package of Equipment (fleet) along with Consumable Spares and Consumables for warranty period of one year and Spares & Consumables for post warranty period of 5 years under Spares Cost Cap are as under:

i. For Item 1 - 850HP Crawler Dozers with ripper for Gevra OCP, SECL under PCD (3 nos) & Item 2 - 850HP Crawler Dozers with ripper for Gevra OCP, SECL under NCD (3 nos)

Description	Currency	Value
CIP Price of Fleet with GST	Rs.	47,90,03,294.51
Total 1st yr Spares and consumables including GST for fleet	Rs	2,90,71,591.56
Total 2nd yr Spares and consumables including GST for fleet	Rs	12,86,74,313.00
Total 3rd yr Spares and consumables including GST for fleet	Rs	13,49,14,871.00
Total 4th yr Spares and consumables including GST for fleet	Rs	22,77,46,074.00
Total 5th yr Spares and consumables including GST for fleet	Rs	21,42,35,077.00
Total 6th yr Spares and consumables including GST for fleet	Rs	12,40,46,848.00
Grand Total for spares and consumables for 6 years with GST for fleet	Rs	85,86,88,774.56
Grand Total for equipment and Spares and Consumables for 6 years incl. GST per fleet	Rs	1,33,76,92,069.07

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ii. For Item 3 - 850HP Crawler Dozers with ripper for Dipka OCP, SECL under NCD (6 nos)

Description	Currency	Value
CIP Price of Fleet with GST	Rs.	95,80,06,589.01
Total 1st yr Spares and consumables including GST for fleet	Rs	5,81,43,183.12
Total 2nd yr Spares and consumables including GST for fleet	Rs	25,73,48,624.00
Total 3rd yr Spares and consumables including GST for fleet	Rs	27,28,66,551.00
Total 4th yr Spares and consumables including GST for fleet	Rs	45,37,23,408.00
Total 5th yr Spares and consumables including GST for fleet	Rs	42,84,70,153.00
Total 6th yr Spares and consumables including GST for fleet	Rs	24,80,93,696.00
Grand Total for spares and consumables for 6 years with GST for fleet	Rs	1,71,86,45,615.12
Grand Total for equipment and Spares and Consumables for 6 years incl. GST per fleet	Rs	2,67,66,52,204.13

iii. For Item 4 - 850HP Crawler Dozers with ripper for Dudhichua OCP, NCL under NCD (1 no) & Item 5 - 850HP Crawler Dozers with ripper for Bina Kakri Amalgamation, NCL under NCD (1 no)

Description	Currency	Value
CIP Price of Fleet with GST	Rs.	15,96,67,764.84
Total 1st yr Spares and consumables including GST for fleet	Rs	1,06,83,391.96
Total 2nd yr Spares and consumables including GST for fleet	Rs	4,32,92,379.00
Total 3rd yr Spares and consumables including GST for fleet	Rs	4,52,57,547.00
Total 4th yr Spares and consumables including GST for fleet	Rs	7,46,42,741.00
Total 5th yr Spares and consumables including GST for fleet	Rs	6,87,88,017.00
Total 6th yr Spares and consumables including GST for fleet	Rs	3,94,52,388.00
Grand Total for spares and consumables for 6 years with GST for fleet	Rs	28,21,16,463.96
Grand Total for equipment and Spares and Consumables for 6 years incl. GST per fleet	Rs	44,17,84,228.80

iv. Item 6 - 850HP Crawler Dozers with ripper for Jayant OCP, NCL under NCD (2 nos)

Description	Currency	Value
CIP Price of Fleet with GST	Rs.	31,93,35,529.67
Total 1st yr Spares and consumables including GST for fleet	Rs	2,13,66,783.92
Total 2nd yr Spares and consumables including GST for fleet	Rs	8,65,84,758.00
Total 3rd yr Spares and consumables including GST for fleet	Rs	9,05,15,092.00
Total 4th yr Spares and consumables including GST for fleet	Rs	14,92,85,484.00
Total 5th yr Spares and consumables including GST for fleet	Rs .	13,75,76,033.00
Total 6th yr Spares and consumables including GST for fleet	Rs	7,89,04,776.00
Grand Total for spares and consumables for 6 years with GST for fleet	Rs	56,42,32,926.92
Grand Total for equipment and Spares and Consumables for 6 years incl. GST per fleet	Rs	88,35,68,456.59

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The Total Value for award of the Contract including GST for all the six projects shall be Rs.7,11,91,73,256.46 (Rupees Seven Hundred and Eleven Crore Ninety-One Lakh Seventy-Three Thousand Two hundred and Fifty-Six and Paisa Forty-six only).

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

- 5. Letter of Credit for the foreign currency component of the equipment will be opened in the name of M/s Caterpillar S.A.R.L, Singapore for CIF value less Agency Commission.
- 6. Indian Agency Commission @ 4% (four percent) of FOB value of the Equipment is included in the FOB Price indicated above. It shall be payable to you in INR only as per clause-8.5, SCC, Section–IV of Tender Document.

7. Security Deposit:

You are requested to arrange to furnish the following Security Deposit as per Clause-34 of ITB, Section-II and Clause-1 of SCC, Section-IV of the NIT, within 30 days from the date of Notification of Award:

- A. Security Deposit for Equipment quoted in US\$: For US\$ 15,02,226.00 (Fifteen Lakhs Two Thousand Two hundred and twenty-Six only) in the form of RTGS/NEFT/IMPS/e-BG or in the form of a Bank Guarantee as per format enclosed as Annexure-10, Sample Forms, Section-VII of the tender document, from a RBI Scheduled Bank in India (on a non-judicial stamp paper). The Security Deposit Bank Guarantee should be valid upto 3 months after the supply and commissioning of all the equipment covered in the contract.
- B. Security Deposit 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 05 years under Spares Cost cap quoted in INR: For Rs.6,03,89,327.00 (Rupees Six Crores Three Lakhs Eighty Nine Thousand Three Hundred and Twenty Seven only) in the form of in the form of RTGS/NEFT/IMPS/e-BG or in the form of a Bank Guarantee as per format enclosed as Annexure-10, Sample Forms, Sec.-VII of the tender document, from a RBI Scheduled Bank in India (on a non-judicial stamp paper). The Security Deposit Bank Guarantee should be valid upto 3 months after the supply and commissioning of all the equipment covered in the contract.

In case the SDBGs are not submitted within 30 days from the date of NoA, a penalty equivalent to 0.5% (half percent) of SD amount for delay of each week or part thereof (period of delay is to be calculated from the 31st day from the date of NoA to the date of receipt of full SD shall be levied and paid by you along with the SDBG.

Subject to force majeure conditions, failure to comply above requirement of Security Deposit and requirement of ITB clause-33 and 34.1 within a reasonable time (not exceeding 90 days from date of NoA) shall constitute sufficient ground for the annulment of the award and forfeiture of EMD.

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8. Signing of Contract:

As per Clause–33, ITB, Section-II, the agreement shall be signed within 15 days of receipt of draft copy of agreement. 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 Komatsu Ltd., Japan 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 as per Clause-32.2 of ITB, Section-II of the Tender Document.

You are requested to confirm receipt of this Notification of Award within 7 days of its issue and arrange to furnish the above Security Deposit(s).

Yours faithfully, For & on Behalf of Coal India Limited

(P.Kuldeep) Sr.Manager(MM) (Avinash Kumar) General Manager (MM)

Copy to:

- M/s Caterpillar Inc., 5205 N.O'Connor Blvd., Irving, TX 75039 (By Airmail) This has reference to their Manufacturer's Authorization letter no. nil dated 22.07.2024 authorizing their Indian Agent, M/s GMMCO Ltd. to submit the bid and sign the contract against the above referred tender.
- Dir(Tech), CIL / ED(E&E), CIL / GM(E&E), CIL / GM(Fin) I/c, CIL
- Dir(Tech) P&P, SECL, GM(Excv)-HOD, SECL, GM(Fin), SECL, GM(MM)-HOD, SECL
- Dir(Tech) P&P, NCL, GM(Excv)-HOD, NCL, GM(Fin), NCL, GM(MM)-HOD, NCL

BC details:

SECL:

BC under capital head

No.	Unit Area	Head	Year	Amount (Rs)
318	GM Office (Gevra)	P&E HEMM	2025-26	99,96,48,572.00
26.06.2025	GM Office (Gevra)		2025-27	16,66,08,095.00
	GM Office (Dipka)		2025-26	66,64,32,381.00
	GM Office (Dipka)		2025-27	33,32,16,191.00
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	SECL8851			/

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	SECL8851	
Commitment Item	4100	216,59,05,239.70

BC under revenue head

SECL/GM(F)/CONS.HEMM SPARE/ BC/AREAS OF SECL/2026-27 to 2031-32/50/03 for Rs.36027.12 lakhs dated 27.06.2025

NCL:

Capital budget:

Capital Budget/BC of Rs.81,33,17,387.24 (Rupees Eighty-One Crore Thirty-Three Lakh(s) Seventeen Thousand Three Hundred Eighty-Seven and Paise Twenty-Four Only) vide ref. no. NCL/HQ/C&B/Capital/ HEMM/2025-26/02 dt 28.06.2025.

FC for total value of Rs.81,33,17,387.24 (Rupees Eighty-One Crore Thirty-Three Lakh(s) Seventeen Thousand Three Hundred Eighty-Seven and Paise Twenty-Four Only) is given vide ref. no. NCL/HQ/FC/2025-26/ Capital/HEMM/02 dt. 28.06.2025.

Revenue Budget:

Budget/BC of Rs.11,29,32,023.88 (Rupees Eleven Crore Twenty-Nine Lakh(s) Thirty-Two Thousand Twenty-Three and Paise Eighty-Eight Only) from Centralised HEMM Spares budget is kept at HQ, vide ref. no. NCL/HQ/BC/2025-26/Centralised HEMM Spares/86 dt 28.06.2025.

FC for Rs.11,29,32,023.88 (Rupees Eleven Crore Twenty-Nine Lakh(s) Thirty-Two Thousand Twenty-Three and Paise Eighty-Eight Only) is given vide ref. no. NCL/HQ/FC/2025-26/Centralised HEMM Spares/78 dt 28.06.2025.

The budget for the subsequent years will be provided by NCL after the communication of the Revenue Budget for the respective years by GM(Excv)-HOD, NCL

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(एक महारत्न कंपनी) (भारत सरकार उपक्रम) सामग्री प्रबंधन विभाग 'कोल भवन', प्रीमिसेस नं.04- मार प्लाट सं-.ए.एफ-३, एक्शन एरिया-१ए न्यू टाउन, राजरहाट, कोलकाता -७००१५६

वेबसाइट :www.coalindia.in ईमेल: gmmm.cil@coalindia.in



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

Date: 26.08.2025

Website: www.coalindia.in E mail: gmmm.cil@coalindia.in

Ref: CIL/C2D/850HP Crawler Dozer/R-153/A - 1060

To: M/s GMMCO Ltd. 11th Floor, Birla Building, 9/1, R.N. Mukherjee Road, Kolkata – 700001

e-mail: vikaskumar@gmmcoindia.com

Notification of Award - Amendment

Subject: Supply, Installation and Commissioning of 16 nos. 850HP Crawler Dozers with Ripper 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 for various projects of SECL & NCL.

Reference:

- Our Global e-Tender no. CIL/C2D/850HP Dozers/R-153/2024-25/395 dated 12.06.2024 Cover-I opened on 13.08.2024 and Cover-II (Price Bid) opened on & Reverse Auction on 21.11.2024
- 2. Your e-offer no. GMMCO/CIL/850HP/24-25 dated 22.07.2024 having BID ID 1065113 and subsequent correspondences and subsequent correspondences on CIL's e-procurement portal
- 3. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/472 dated 18.09.2024
- 4. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/621 dated 04.12.2024
- 5. Your letter no. GMMCO/CIL/850HP/24-25 dated 05.12.2024
- 6. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/780 dated 06.02.2025
- 7. Your letter no. GMMCO/CIL/850HP/24-25 dated 30.01.2025
- 8. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/828 dated 26.02.2025
- 9. Your letter no. GMMCO/CIL/850HP/24-25 dated 26.02.2025
- 10. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/906 dated 28.03.2025
- 11. Your letter no. GMMCO/CIL/850HP/24-25 dated 31.03.2025
- 12. Our letter no. CIL/C2D/850HP Dozers/R-153/2024-25/50 dated 25.04.2025
- 13. Your letter no. GMMCO/CIL/850HP/24-25 dated 28.04.2025
- 14. Our email dated 30.05.2025
- 15. Your email dated 30.05.2025
- 16. NoA issued vide CIL/C2D/850HP Crawler Dozer/R-153/202 dated 30.06.2025

Dear Sir,

With reference to the above Clause -8 - "Signing of Contract" may be read as under in place of existing entry:

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As per Clause–33, ITB, Section-II, the agreement shall be signed within 15 days of receipt of draft copy of agreement. 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 Caterpillar Inc., USA 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 as per Clause-32.2 of ITB, Section-II of the Tender Document.

Yours faithfully, For & on Behalf of Coal India Limited

(P.Kuldeep) Sr.Manager(MM)

(Avinash Kumar) General Manager (MM)

Copy to:

M/s Caterpillar Inc., 5205 N.O'Connor Blvd., Irving, TX 75039 (By Airmail) – This has reference to their Manufacturer's Authorization letter no. nil dated 22.07.2024 authorizing their Indian Agent, M/s GMMCO Ltd. to submit the bid and sign the contract against the above referred tender.

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INTEGRITY PACT

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INTEGRITY PACT

General

This Agreement (hereinafter called the Integrity Pact) is made on 1st day of the month of September, 2025, between, on one hand, Coal India Limited/Subsidiary Cos. acting through Shri S.M.Alli, Executive Director (MM)-HOD, (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. GMMCO Ltd., Kolkata represented by Shri Vikas Kumar, General Manager and M/s Caterpillar Inc., USA represented by Shri Arup Kumar Das, Commercial Mining Manager (hereinafter called the "BIDDER/Seller/Contractor" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure 850 HP Crawler Dozers with Ripper 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 private company/public company/Government undertaking/partnership/registered export agency, 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:-

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Integrity Pact

- No employee of the Principal, personally or through family members, will in connection 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.
- 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.
- 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.
- 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.
- The Bidder(s) / Contractor(s) will not enter with other Bidders info 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.
- 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.
- 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.

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Integrity Pact

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 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."

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Section 4 - Compensation for Damages

- (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.

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(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 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.

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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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 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/Crawler Dozer/R-153/301 dated 01.09.2025

Page 105 of 227

The parties hereby sign this Integrity Pact at Kolkata on 01.09.2025.

For the Buyer/Purchaser

S M Alli

Witnesses

Avmash Kumar

P.Kuldeep

Sr. Manager (MM)

Coal India Ltd., Kolkata

General Manager (MM) Coal India Ltd., Kolkata

Executive Director (MM)

For the Manufacturer/Supplier

Arup Kumar Das

Commercial Mining Manager

Caterpillar Inc

Vikas Kumar General Manager GMMCO Ltd

Witnesses

Chinmoy Adak Sales Representative Caterpillar Inc,

Amaresh Sarker

Amaresh Sarkar Manager (Marketing)

GMMCO Ltd, Kolkata

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Annexure(s)

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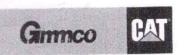
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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Gmmco Limited

CK Birla Group 11" Floor, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal.

GMMCO/CIL/850 DOZER/SDBG

General Manager (MM)
Coal India Limited, Coal Bhavan
Materials Management Division
Level 1 (1st Floor)
Premises No. 04, Plot No. AF-III
Action Area 1A, New Town
Rajarhat, Kolkata-700156

Kind Attn: Mr. Avinash Kumar

c 20/205

DATE 25/07/2028

RECEIVED

July 23, 2025.

25/9/7/

Sub: Submission of Security Deposit in INR Portion.

Ref: Notification of Award No. CIL/C2D/850 HP Crawler Dozer/R-153/202 dated 30.06.2025 in favour of GMMCO Limited for Supply, Installation and Commissioning of 16 nos. of 850 HP Crawler Dozer with Ripper 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.

With reference to the Notification of Award as mentioned above and as per Clause - 34 of "ITB", Section – II, We are submitting herewith SDBG in original in INR Portion as details given below:-

 Security Deposit Bank Guarantee for Consumable Spares and Consumables Portion in INR issued by Sate Bank of India under Reference No 0999925BG0Y01799 dated 16.7.2025 in original:-

SI No	Bank Guarantee No.	Date of Issue of SDBG	Applicant	Amount (In INR)	Expiry Date	Claim Within	Issued Bank
1.	0999925BG0Y01799	16.7.2025	GMMCO Limited	60389327.00	31.3.2027	31.03.2027	SBI

With reference to SDBG in USD Portion is in process and we expect the same to reach at our end shortly. Accordingly we will arrange onward submission.

Thanking you

Yours faithfully

For GMMCO Limited

Vikash Kumar General Manager

CC : Mr. P. Kuldeep Sr. Manager (MM) CIL, Kolkata. A. Larkor

Encl: - ABG in original / midnet

Phone: (033) 3918 1700 To 12 Fax: (033) 3918 1706 E mail: contactus@gmmcoindia.com Website: www.gmmco.in

(Registered office: 9/1, R.N Mukherjee Road, Kolkata 700 001)

CIN U35202W81966PLC026980

CIL/C2D/Crawler Dozer/R-153/3014dated 01.09.2025

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Eximbills Enterprise SWIFT

View RAW

Main Reference NO: 0999925BG0Y01799 Transaction Reference NO: 0999925BG0Y01799

Unit Code:

09999

Operator:

VDE0064

Module Name:

BGIF 16-07-2025 Function Name:

Issue_After_RegBG

Transaction Date: Event Time:

4

Transaction Time: Release by

15:29:13 7458053

Release Date

16-07-2025

Release Time:

15:32:29

31:	Outgoing SWIFT Header 1
	F01SBIN000999950000000000
B2:	Receiver's BIC Code
	17601C1C0000006N
7020:	Transaction Referance Number (Issuing Bank Guarantee Number)
	0999925BG0Y01799
7022:	Guarantee Form Number
	OTH DOMST BANKS
7024:	Type of Bank Guarantee : Performance, Financial, Others
	PERFORMANCE
7025:	Amount of Guarantee Currency Code Amount
	INR60389327,00
7026:	Guarantee Validity Guarantee From Date Guarantee To Date
	2025071620270331
7027:	Guarantee Effective Date
	20250716
7029:	End date for lodgement of claim
	20270331 *
7030:	Place of lodgement of claim
	C A G BRANCH CHENNAI
7031:	Issuing Branch IFSC
	SBIN0009999
7032:	Issuing branch name and address
	C A G BRANCH CHENNAI SIGAPI ACHI BUILDING,18/3,R.L.ROAD EGMORE,CHENNAI 600008 CHENNAI,TAMIL NADU,INDIA
7033:	Name of applicant and his details
	GMMCO LIMITED NO. 6, GST ROAD ST THOMAS MOUNT CHENNAI

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7034:

COAL INDIA LIMITED
MATERIALS MANAGEMENT DIVISION
PREMISES NO. 04, ACTION AREA 1A
NEW TOWN, RAJARHAT KOLKATA 700156

Name of Counter party and his details

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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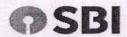
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7035:	Counter party IFSC
	ICIC0000006
7036:	Counter party branch name and address
	ICICI BANK LTD KOLKATA - R N MUKHERJEE (RETAI 22, R N MUKHERJEE ROAD, KOLKAT
7037:	Sender to Receiver Information
	UNDERLYING CONTRACT NO 850HP CRAWLER DOZER R 153 202 BG AMOUNT INR 60389327.00 EXPIRY DATE 31-03-2027 CLAIM DATE 31-03-2027
7039:	Reference/Description of the underlined contract
	850HP CRAWLER DOZER R 153 202
7040:	Stamp Duty Electronically Paid (Y/N)
	N
7048:	e-Bank Guarantee to be held in Demat Form(Y/N)
	N
20Z:	Transaction Reference Number
	NON-REGULAR

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Security Deposit Bank Guarantee

Beneficiary:

Coal India Limited Materials Management Division Premises No. 04, Action Area - 1A New Town, Rajarhat Kolkata - 700 156.

Applicant:

Gmmco Limited Birla Building 9/1, R. N. Mukherjee Road Kolkata - 700 001.



Re: Bank Guarantee in respect of Notification of Award No. CIL/C2D/850 HP Crawler Dozer/R-153/202 Dated 30.06.2025 between Coal India Limited, Materials Management Division, Premises No. - 04, Action Area - 1A, New Town, Rajarhat, Kolkata - 700 156 and GMMCO Limited, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001.

Messers Gmmco Limited a Company having its office at Birla Building, 9/1, R. N. Mukherjee Road, Kolkata – 700 001 hereinafter called the Contractor has received the Notification of Award No. CIL/C2D/850 HP Crawler Dozer/R-153/202 Dated 30.06.2025 hereinafter called the said Agreement with Coal India Limited, Materials Management Division, Premises No. - 04, Action Area - 1A, New Town, Rajarhat, Kolkata - 700 156 (Name of the Purchaser Company) (hereinafter called 'the Company') to supply, Installation and Commissioning of 16 Nos. 850 HP Crawler Dozers with Ripper alongwith 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 (Final Place of destination basis) amounting to Rs. 7,11,91,73,256.46 (Rupees Seven Hundred and Eleven Crore Ninety One Lakh Seventy Three Thousand Two Hundred and Fifty Six and Paisa Forty Six Only) on the terms and conditions contained in the said Notification of Award..

The State Bank of India a Banking Corporation constituted under the State Bank of India Act 1955, and having its Central Office at State Bank Bhavan, Madame Cama Road, Nariman Point, Mumbai 400021 and a Branch Office amongst other places at Corporate Accounts Group Branch, 3rd Floor, Sigappi Achi Building, Rukmini Lakshmipathy Road, Egmore, Chennai – 600008. has at the request of the Contractor agreed to give the guarantee as hereinafter contained.

We State Bank of India, CAG Chennai Branch, 18/3 Rukmini Lakshmipathi Road, 3rd Floor, Sigapi Achi Building, Egmore, Chennai - 600 008 and having its Corporate Centre at Nariman Point, Mumbai 400021 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. 6,03,89,327 (Rupees Six Crores Three Lakhs Eighty Nine Thousand Three Hundred and Twenty Seven Only) 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 31st day of March 2027 but if the period of Agreement is

0999925BG0Y01799

2025-07-16

OF STATE BANK OF INDIA

ces Division Chennai

OF STATE BANK OF INC

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Manager Client Services CAG Branch, Chennai - 600 008.

K. ANITHA, SS No: K14895

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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extended either pursuant to the provisions in the said Agreement or by mutual agreement between the Contractor and the Company, the Bank may renew the period of the guarantee failing which it shall pay to the Company the said sum of Rs. 6,03,89,327 (Rupees Six Crores Three Lakhs Eighty Nine Thousand Three Hundred and Twenty Seven Only), or such lesser amount out of the said sum of Rs. 6,03,89,327 (Rupees Six Crores Three Lakhs Eighty Nine Thousand Three Hundred and Twenty Seven Only) as may be 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. 6,03,89,327 (Rupees Six Crores Three Lakhs Eighty Nine Thousand Three Hundred and Twenty Seven Only) 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 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. 6,03,89,327 (Rupees Six Crores Three Lakhs Eighty Nine Thousand Three Hundred and Twenty Seven Only) or such lesser sum as may then be due to the Company and as the Company may require.

Notwithstanding anything contained herein above:

(i) Our liability under this Bank Guarantee shall not exceed INR. 6,03,89,327 (Rupees Six Crores Three Lakhs Eighty Nine Thousand Three Hundred and Twenty Seven Only)

(ii) This Bank Guarantee shall be valid up to 31st day of March 2027 and

(iii) We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only & only if we receive a written claim or demand on or before 31st day of March 2027.

The Bank has under its constitution power to give this guarantee and Chief Manager, Inland Trade and Manager Inland Trade, who have signed it on behalf of the Bank has authority to do so.

FOR STATE BANK OF INDIA

Manager - Client Services CAG Branch, Chenna, - 600 008, KANITHA, SOLOT KI-1895 FOR STATE BANK OF INDIA

Chief Vanager
Client Services Division
CAG Branch, Chennai
S. VEERANJANEYULU
SS No.8643

0999925BG0Y01799

2025-07-16

A. Sarkas

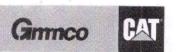
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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Gmmco Limited

CK Birla Group 11th Floor, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal.

GMMCO/CIL/850 DOZER/SDBG

July 29, 2025.

General Manager (MM)
Coal India Limited, Coal Bhavan
Materials Management Division
Level 1 (1st Floor)
Premises No. 04, Plot No. AF-III
Action Area 1A, New Town
Rajarhat, Kolkata-700156

C201214
कोल इंग्डिया लिजिटेड
COAL INDIA LIMITED
DATE 29 107 12026
RECEIVED

Kind Attn: Mr. Avinash Kumar

Sub: Submission of Security Deposit in USD Portion.

Ref: Notification of Award No. CIL/C2D/850 HP Crawler Dozer/R-153/202 dated 30.06.2025 in favour of GMMCO Limited for Supply, Installation and Commissioning of 16 nos. of 850 HP Crawler Dozer with Ripper 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.

With reference to the Notification of Award as mentioned above and as per Clause - 34 of "ITB", Section - II, We are submitting herewith SDBG in original in USD Portion as details given below:-

 Security Deposit Bank Guarantee in USD issued by IndusInd Bank under Reference No OGT0015250007868 Dated 28.7.2025 in original:-

SI No	Bank Guarantee No.	Date of Issue of SDBG	Applicant	Amount (In USD)	Expiry Date	Claim Within	Issued Bank
1.	OGT0015250007868	28.7.2025	Caterpillar Inc	1502226.00	31,3,2027	31.03.2027	Indusind

Thanking you

Yours faithfully For GMMCO Limited

Vikash Kumar General Manager

CC: Mr. P. Kuldeep Sr. Manager (MM) CIL, Kolkata. Greenm) Fingh,

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Phone: (033) 3918 1700 To 12 Fax: (033) 3918 1706 E mail: contactus@gmmcoindia.com Website: www.gmmco.in

(Registered office: 9/1, R.N Mukherjee Road, Kolkata 700 001)

CIN U35202WB1966PLC026980

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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WOOD STREET BRANCH, SAVITRI TOWERS, 3A, UPPER WOOD STREET **KOLKATA 700017**

Kolkata

SWIFT Code: INDBINBBCAP/INDB0000015

To

COAL INDIA LIMITED MATERIALS MANAGEMENT DIVISION, PREMISES NO.4, ACTION AREA 1A, NEW TOWN, RAJARHAT, Kolkata. West Bengal. 700156 INDIA

Date: Jul 28, 2025

Dear Sir/Madam,

At the request of WACHOVIA BANK/WELLS FARGO .We have issued guarantee as per following details.

Bank Guarantee No. & Date of Issue	OGT0015250007868 Jul 28, 2025
Amount	USD 1502226.00
Expiry Date	Mar 31, 2027
Claim Date	Mar 31, 2027

We confirm that the officials who have signed the above bank guarantee are authorized to sign the same on behalf of IndusInd Bank Ltd. You may verify the genuineness of issuance of said Bank Guarantee by writing to Head, Bank Guarantee Operations, at the following address

IndusInd Bank Limited **CGMO Central Processing Centre** PNA House, 3rd Floor, Plot No.57 & 57/1, Street No.17, Near ESI Hospital, MIDC, Andheri (East), Mumbai - 400 093. Mail ID: opsquarantee@indusind.com Tel No 022 61098390 / 022 61098478

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My egam Claims, if any under this Guarantee to be lodged only with the Issuing Branch as per the terms of the Bank Guarantee.

THIS IS A COMPUTER GENERATED ADVICE, NO SIGNATURE REQUIRED.

Please note that this advice provides details of the transaction handled by us on your behalf including details of charges / GST deducted (if applicable). In case you have registered your GSTIN details with us, you will receive a separate GST invoice (if applicable) on your registered mail id. We request you to exsure that your GSTIN details have been submitted to us and that your email id is registered with us to receive the GST invoice.

In case you wish to register your GSTIN details with us please send an email to GSTC@industed.com from your registered in CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025 Industrial Ba Page 114 of 227

A. 500 1204

पुरु सो रुपये Rs. 100 ONE HUNDRED RUPEES

পশ্চিমবঙ্গ पश्चिम बंगाल WEST BENGAL

AU 908093

BG NUMBER: OGT0015250007868 DATE:-28/07/2025

SECURITY DEPOSIT BANK GUARANTEE

TO

COAL INDIA LIMITED

MATERIALS MANAGEMENT DIVISION PREMISES NO.- 4, ACTION AREA - 1A,

NEW TOWN, RAJARHAT, KOLKATA - 700156.

For IndusInd Bank Limited

Palash Majumder, AVP Corp & Global Mkt. Ops SS No. 8153

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For Industrid Bank Limited

Antanii Ghosh CM Corp & Global Mkt. Ops SS NO. 22280

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Page 115 of 227

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

Den

0 6 MAY 2025

SL No. 1303, Date.

Zonal Office

Name...../

Address.

Jendor Sig.

TAPAN KUMAR DAS Alipore Police Court Kolkata-700027

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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IndusInd Bank

SR No. GTEE/ 0176405

BG NUMBER: OGT0015250007868 DATE:-28/07/2025

APPLICANT (COMPANY)
CATERPILLAR INC. 5205 N. O'CONNOR BLVD.,
SUITE 100 IRVING. TX 75039 DEERFIELD. ILLINOIS 60015.

RE: BANK GUARANTEE IN RESPECT OF NOTIFICATION AWARD NO. CIL/C2D/850 HP CRAWLER DOZER/R- 153/202 DATED 30.06.2025 BETWEEN COAL INDIA LIMITED, MATERIALS MANAGEMENT DIVISION, PREMISES NO. - 04, ACTION AREA - 1A, NEW TOWN, RAJARHAT, KOLKATA - 700 156 AND GMMCO LIMITED BIRLA BUILDING, 9/1, R.N. MUKHERJEE ROAD, KOLKATA - 700 001, AUTHORIZED INDIAN DEALER / AGENT OF M/S. CATERPILLAR INC., 5205 N. O'CONNOR BLVD, IRVING, TX 75039.

MESSERS CATERPILLAR INC. A COMPANY / FIRM HAVING ITS OFFICE AT 5205 N. O'CONNOR BLVD., IRVING, TX 75039 HEREINAFTER CALLED THE CONTRACTOR HAS RECEIVED THE NOTIFICATION OF AWARD NO. CIL/C2D/850 HP CRAWLER DOZER/R-153/202 DATED 30.06.2025 HEREINAFTER CALLED THE SAID AGREEMENT WITH COAL INDIA LIMITED, MATERIALS MANAGEMENT DIVISION, PREMISES NO. - 04, ACTION AREA - 1A, NEW TOWN, RAJARHAT, KOLKATA - 700 156 (NAME OF THE PURCHASER COMPANY) (HEREINAFTER CALLED 'THE COMPANY') TO SUPPLY, INSTALLATION AND COMMISSIONING OF 16 NOS. 850 HP CRAWLER DOZERS WITH RIPPER 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 (FINAL PLACE OF DESTINATION BASIS) AMOUNTING TO RS. 7,11,91,73,256.46 (RUPEES SEVEN HUNDRED AND ELEVEN CRORE NINETY ONE LAKH SEVENTY THREE THOUSAND TWO HUNDRED AND FIFTY SIX AND PAISA FORTY SIX ONLY) ON THE TERMS AND CONDITIONS CONTAINED IN THE SAID NOTIFICATION OF AWARD.

WE INDUSIND BANK LIMITED, A BANKING COMPANY INCORPORATED AND REGISTERED UNDER COMPANIES ACT 1956 AND HAVING LICENSE TO CARRY ON BANKING BUSINESS UNDER THE BANKING REGULATION ACT, 1949 HAVING ITS REGISTERED OFFICE AT 2401, GENERAL THIMMAYYA ROAD, CANTONMENT, PUNE- 411001 AND ITS CORPORATE OFFICE AT 8TH FLOOR, TOWER-1, ONE INDIA BULLS CENTRE, 841, S.B.MARG, ELPHISTONE ROAD, MUMBAI - 400 013 AND ITS ONE OF BRANCH OFFICE AT SAVITRI TOWERS, 3A, UPPER WOOD STREET, KOLKATA - 700 017 HAS AT THE REQUEST OF THE CONTRACTOR AGREED TO GIVE THE GUARANTEE AS HEREINAFTER CONTAINED.

WE INDUSIND BANK LIMITED 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 RECEIPT OF A WRITTEN DEMAND MADE ON OR BEFORE 31/03/2027 (THE "CLAIM DATE") AND WITHOUT ANY OBJECTION OR DEMUR PAY TO THE COMPANY, THE SAID SUM OF USD 15,02,226 (USD FIFTEEN LAKHS TWO THOUSAND TWO HUNDRED AND TWENTY SIX ONLY) OR ANY PORTION THEREOF WITHOUT REQUIRING THE

For IndusInd Bank Limited

Palash Majumder, AVP Corp & Global Mkt. Ops

SS No. 8153

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For Industrid Bank Limited

Antanil Ghosh CM Corp & Global Mkt. Ops

SS NO. 22280

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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IndusInd Bank

SR No. GTEE/ 0176406

BG NUMBER: OGT0015250007868 DATE:-28/07/2025

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 31ST DAY OF MARCH 2027 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 USD 15,02,226 (USD FIFTEEN LAKHS TWO THOUSAND TWO HUNDRED AND TWENTY SIX ONLY) OR SUCH LESSER AMOUNT OUT OF THE SAID SUM OF USD 15,02,226 (USD FIFTEEN LAKHS TWO THOUSAND TWO HUNDRED AND TWENTY SIX ONLY) AS MAY BE 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 USD 15,02,226 (USD FIFTEEN LAKHS TWO THOUSAND TWO HUNDRED AND TWENTY SIX ONLY) ARE FULLY SATISFIED AND THE COMPANY CERTIFIES THAT THE AGREEMENT HAS BEEN FULLY CARRIED OUT BY THE CONTRACTOR AND DISCHARGES THE GUARANTEE. OR UNTIL 31ST DAY OF MARCH 2027 (THE "EXPIRY DATE"), WHICHEVER IS EARLIER.

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 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.

For Industrid Bank Limited

Palash Majumder, AVP Corp & Global Mkt. Ops SS No. 8153 For Indusing Bank Limited

Antanil Ghosh CM
Corp & Global Mkt. Ops
SS NO. 22280

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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IndusInd Bank

SR No. GTEE/ 0176407

BG NUMBER: OGT0015250007868 DATE:-28/07/2025

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 USD 15,02,226 (USD FIFTEEN LAKHS TWO THOUSAND TWO HUNDRED AND TWENTY SIX ONLY)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 USD 15,02,226 (USD FIFTEEN LAKHS TWO THOUSAND TWO HUNDRED AND TWENTY SIX ONLY). THE GUARANTEE SHALL REMAIN IN FORCE TILL THE 31ST DAY OF MARCH 2027 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.

C LOURAND TO SAME

THE BANK HAS UNDER ITS CONSTITUTION POWER TO GIVE THIS GUARANTEE AND Palash Majumder & Antanil Ghosh (NAME OF THE PERSON(S) WHO HAVE SIGNED IT ON BEHALF OF THE BANK HAS AUTHORITY TO DO SO.

DATED THIS 28TH DAY OF JULY 2025.

DATE: 28/07/2025 PLACE: WOOD STREET AUTHORIZED SIGNATORIES:

SIGNATURE:

NAME:

SIGNATURE CODE:

SIGNATURE:

NIABATA.

SIGNATURE CODE:

For Indusind Bank Limited

Palash Majumder, AVP Corp & Global Mkt. Ops SS No. 8153 For Industrid Bank Limited

Antanil Ghosh CM
Corp & Global Mkt. Ops
SS NO. 22280

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Annexure-
Performance Bank Guarantee Format
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}
Messers
The
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.

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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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 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.

		give this guarantee and	
of the person(s)] who have	signed it on behalf of	of the Bank has authority to do so	
Dated this	.day of20		
Place		Signature of the authori	zed person(s)
		For and on behalf of	the Bank

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Annexure-3

Pro-forma of Commissioning Certificate to be issued by the Purchaser after Successful <u>Commissioning of Equipment</u>

No.		Date:	
M/s:			
Sub	Certificate of Commissioning of Equipment		
1.		ed below has been received in good condition along and a set of spares in accordance with the Contract / commissioned as detailed below:.	
	(a) Contact No Date	The second secon	
	(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)		
	(f) R/R Consignment Note/ Challan No	Date	
	(g) Date of receipt of last consignment of equ	lipment	
	(h) Name of the Project/ Consignee		
2.	Details of Accessories / Spares & Consums recoveries to be made on that account :	ables for warranty period not yet supplied and	
	Sl. No. Description	Amount to be recovered	
	The proving test has been done to our entire sathe equipment.	tisfaction and operators have been trained to operate	
		Van 2007	a South
	mel	.5/	
	Many mych / mount	Van	

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Asserta-

4.	The supplier has	fulfilled his	contractual	obligations	for successful	commissioning	satisfactorily
	The buppiner mus	I GIIIII CG IIIO	Communicaci	Comparions	TOT DOLOGODDICAL	001111111111111111111111111111111111111	barrara corrigi

Or

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 counter-signed 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.

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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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)

Place:

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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ANNEXURE - 5

Hindrance Register Format

	Equipment	:	Model: _		S	upplier:	
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)
	N-10						
			1 1 1 3 4 5	Section 1	2		
							S V av vi
			1 2 2 2 2 2 2 2	V-V-14			

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Annexure to Technical Specifications

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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SMMCO LTD		SEC-VI,PART-D,CLAU	SE-D.9.1.b
	Tender No:Tender No. CIL/C2D	/850HP Dozers/R-153/24-25/395 Dated 12.0	6,2024
SI No	Part No	Description	Required Quantity
1 1	D11 TOOL K/T	COMPREHENSIVE TOOCL KIT	1

		Clause D.9.1 General (
	Tender No.	
Details Of	Standard Tool included in Tool Kit with Part- N	No D11TOOLKIT are follows
SI. No.	Description	au a
1	Slide Wrench	1
2	Cutting Plier	1
3	Double End Spanner	4137 -4
4	Extension Rad 8" LangX1" Drive	1
5	Feeler Guage	1
6	Hammer (0.6 Kg)	1
7	RATCHET	3
8	RING SPANNER	12
9	Screw Driver	3
10	Socket 1* SQ	1
11	Socket 1/2" SQ	14
12	Socket 3/4" SQ	3
13	Socket 1" SQ - Heavy Duty 7/8"	1
14	Filter Wrench	1
15	Tool Box With Lock	1

Thanking You,

Yours faithfully For GMMCO Limited

Vikash Kumar General Manager

A. Sarrer

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		Sec-VI, Tech Specs, Part D. Claus D.9.1 General (t	Part D, Claus D.9.1 General (t
Tender No. CILIC:	Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12,06,2024	Jated 12.06,2024	
à	D11 TOOL KIT WITH EACH MACHINE		
Si. No. Part No.	Description	Required Quantity	***************************************
1 D11 T00L KIT	ISIVE TOOL KIT		-

		TOTAL CONTRACTOR OF THE PARTY O	
Si. No.	Part No.	Description	reduired Quantity
•	1516320	WIRE REMOVAL TOOL	
2	1957970	WIRE REMOVAL TOOL	
000	879208	PROBE ASSEMBLY	
খ	W4776	LAPTOP	
LD.	5385051	ADAPTOR GP	**

1 no. laptop for a fleet upto 5 equipment or part the for each project will be provided.

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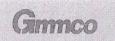
For GMMCO LTD,

Vikash Kumar General Manager K.sorte

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Gmmco Limited

CK Birla Group 11th Floor, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal.

> Clause-D.9.2 (x), Technical Details, Section VI Date: 19-09-2024

GMMCO/CIL/850HP Dozer/24-25/Shortfalls

The General Manager (MM)
Coal India Limited
Coal Bhawan
Premises No. 4, Action Area 1A,
New Town, Rajarhat,
Kolkata – 700156

Dear Sir,

SUB- Details of major bought-out assemblies and sub-assemblies

REF: Tender Number: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

We confirm following towards major bought-out assemblies and sub-assemblies – same is in line with clause no: 14.2 (iii) - & Annexure-6 submitted along with BID

Major Bought-out Items		
Assembly/Sub-assembly	Type	BOI make details
Alternator	CKD Component	CAT/C.E Niehof & Co.
AFDSS	Dry Chemical Powder	SOUTHERN ELECTRONICS/ AUTOMATION CONTROLS / MACO/RIZITEK
Fire Extinguisher	Dry Chemical Powder	KANEX/GUNEBO/SOUTHERN ELECTRONICS/ AUTOMATION CONTROLS / MACO/RIZITEK
Rear Vision System	BS 8000	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT/SIXTH SENSE
Proximity Warning Device	VBV 700	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT
Reversing Audio Visual	Audio Visual	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT
Driver Fatigue Monitoring system	Camera Based Sensing	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT/SIXTH SENSE
Seat Belt reminder	DGMS Complied	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ ELTRON/ MYPORT
Hand Tools	Hand Tools	EVEREST / TAPARIA/ JHALANI/STANLEY/SNAPON/ROBUST/HONEYTON/IMPACT
Auto Dipper	150MT Range	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ MACO/ MYPORT
Blind Spot Mirror	Heavy Duty	DAVESMEN/ AUTOMATION CONTROLS / SOUTHERN ELECTRONICS / RIZITEK/ MACO/ MYPORT

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Phone: (033) 3918 1700 To 12 Fax: (033) 3918 1706 E mail: contactus@gmmcoindia.com Website: www.gmmco.in

(Registered office: 9/1, R.N Mukherjee Road, Kolkata 700 001)

CIN U35202WB1966PLC026980

CIL/C2D/Crawler Dozer/R-1153/3016dated 01.09.2025

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fanufacturer	Address			
Southern Electronics	16-A, Peenya Industrial Area, Phase-1, Peenya, Bengaluru - 560 058			
Automation Control	K 10/2, Near PIX Transmission, MIDC Hingna, Nagpur – 440 016			
anex	A-110, Kanada Business Center, B/h Everest Garden Apt. Laxmi Nagar Ghatkopar (East), Mumbai – 400 075			
Sunnebo	Unit No. 102, 1st Floor, Akruti SMC, LBS Marg, Khopat, Thane (W) - 400 601			
AG Electronics	208, Bhivapurkar Chambers, Dhantoli, Nagpur 440 012			
Davesmen	Room No. 206, IInd Floor 12-A, Annapurna Bldg., Lord Sinha Road, Kolkata - 700071			
Everest	Dohil Chamber,46, Nehru Place, New Delhi-110019			
Taparia	423/424 A-2, Shah & Nahar, Lower Parel(w), Mumbai 400 013			
Jinalani	51-52 Gedore House, Nehru Place, New Delhi-110019.			
Stanley	1 81 MAYA NAGARCIVIL LINES, LUDHIANA ,Punjab - 000000			
Snap-on	6/2, Begumpur Khatola, Behind Toyota Showroom, NH-8, Delhi-Jaipur Highway, Gurgaon 122004 HR, India			
Ansul (Maco)	7th Floor Suite, 2/5, Sarat Bose Road, Sukh Sagar, No. 7A, Ballygunge Circular Rd, Kolkata, West Bengal 700020			
C.E Niehof & Co.	2004 Los St Evancton II 60202 USA			
MyPort	509/510/511 Atlantic Commercial Tower, Above Vodafone gallery, Patel chowk, opposite kotak mahindra bank, Ghatkopar E. Mumbai, Maharashtra 400077			
Rizitek	201, Park View Enclave Kanke Road, Ranchi Jharkhand – 834 008 IN			
Eltron	235 A/1, S K Deb Road, Sree Bhumi, Kolkata - 700048			
Sixth sense	A 909, The Capital, Bandra Kurla Complex, Bandra East, Mumbai, 400051, India.			
Honiton	Omni Iraney, Jorasanko, Kolkata, West Bengal.			
Robust	No 85, Vilaskon House, Nr. Prince Hotel Street, Hill Garden Cross Road, Mirzadar Road, Bhuj, Gujarat, 370001, India.			
Impact	Pune, Maharastra, India			

For GMMCO LTD,

Vikash Kumar, General Manager

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Sec-VI, Tech Specs, Part C, Clause - C.5.4

D11 LUBE RECOMMENDATION

Tender Number: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06,2024

COMPARTMENT	INETRANATIONAL STANDARD NUMBER/ COMMERCIAL OIL SPEC	APPROX, REFILL CAPACITY REQUIRED PER MAINTENANCE (LITERS)	CHANGING INTERVAL (HOURS)	ESTIMATED ANNUAL CONSUMPTION (LITERS)
ENGINE	SAE 15W40 CI4 WITH ECF2 CERTIFICATION	8	38	284
POWER TRAIN	SAE 30 TRANSMISSION OIL WITH TOA CERTIFICATION	\$	2000	=
HYDRAULIC TANK	SAE 10W HYDRAULIC OIL	2	2000	3
FINAL DRIVES	SAE 60 FINAL DRIVE OIL WITH FD1 CERTIFICATION	5.	0001	215
RECOIL SPRING & PIVOT SHAFT	SAE 50 TRANSMISSION OIL WITH TOA CERTIFICATION	\$\$\$	9000	138
GREASE SYSTEM	NLGIZ WITH MOLYBDENUM DI SULFIDE		AS & WHEN RECO	UPS

Note : 1. The above indicated quantities are required for regular maintenance change. Top up quantity for any system leakage is not included.

2. The Commercial Oil Specification (Grade) Indicated is the International Standard Number of lubricants. These are generic specifications and Oil manufacturers(Indian Equivalents) complying to these requirements offer their brand names.



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PATERDIII AR®			Quality Assurance Plan	Plan		
Caterpillar East Peoria - EP		٥	Quality Assurance Department - EP	rtment - EP		
Customer:		Machine No: D11		Quality	Quality Assurance Department	
Component: Standard Parts	Test	1. Chemical; 2. Mech. Prop	perties; 3, Hardness; 4, Ultrason	1. Chemical; 2. Mech. Properties; 3. Hardness; 4. Ultrasonic; 5. Heat Treatment; 6. Dimensional; 7. Function; 8. Visual; 9. Surface Crack	unction; 8. Visual; 9. Surface C	ack
Description	Test	Verification	Method	Acc. Std	Stage	Approved Department
Steel Castings	1,2,6,8,9	Conformance to Cat 1E Specification	Conformance to Cat 1E Specification	Conformance to Cat 1E Specification	At the Manufacturer	At Supplier
Frame	4,6,8,9	Conformance to Cat 1E Specification	Conformance to Cat 1E Specification	Conformance to Cat 1E Specification	After Welding	Interplant Supplier (LL)
Engine	7,8	100%	Test Run	Conformance to Cat 1E Specification	Before Shipping to EP	Interplant Supplier (Griffin)
Transmission	7,8	100%	Functional and Leak Test	Conformance to Cat 1E Specification	Before Shipping to EP	Interplant Supplier (KK)
Final Drives	7,8	100%	Functional and Leak Test	Conformar ce to Cat 1E. Specification	Before Shipping to EP	Interplant Supplier (KK)
Chassis System	7,8	700%	1. Test Run 2. Visual Check	Conformance to Cat 1E Specification and Test Drawing	After Assembly	1. Test Booth 2. Quality Gate & PDI/PDA
Engine & Powertrain System	7,8	100%	1. Test Run 2. Visual Check	Conformance to Cat 1E Specification and Test Drawing	After Assembly	1. Test Booth 2. Quality Gate & PDI/PDA
Hydraulic System	7,8	100%	1. Test Run 2. Visual Check	Conformance to Cat 1E Specification and Test Drawing	After Assembly	1. Test Booth 2. Quality Gate & PDI/PDA
Electrical System	7,8	100%	1. Test Run 2. Visual Check	Conformance to Cat 1E Specification and Test Drawing	After Assembly	1. Test Booth 2. Quality Gate & PDI/PDA.
Cooling System	7,8	100%	1. Test Run 2. Vísual Check	Conformance to Cat 1E Specification and Test Drawing	After Assembly	1. Test Booth 2. Quality Gate & PDI/PDA
Steering System	2,8	100%	1. Test Run 2. Visual Check	Conformance to Cat 1E Specification and Test Drawing	After Assembly	1 Test Booth 2. Quality Gate & PDI/PDA

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Caterpilar: Confidentia

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A. Jarkar

Caterpillar Inc.

100 NE Adams Street Peoria, Illinois 61629-7150

CATERPILLAR®

June 2.2021

To Whom It May Concern:

Subject: Certification details for D11 Track Type Tractor

Caterpillar D11 Track Type Tractors are equipped with Caterpillar C32 engines. The engines are capable of meeting EPA Tier 2 emissions standards for engine greater than 560 kW for criteria pollutants shown below:

ISO 8178 C1 cycle	Tier 2 Standards (g/kW-hr)
NOx + HC	6.4
Carbon Monoxide (CO)	3.5
Particulate Matter (PM)	0.20

Exhaust gas emissions levels of the tested engine were measured using instrumentation and procedures detailed in US Code of Federal Regulations. All test facilities, instrumentation and technical personnel are acceptable for certification of Caterpillar products by the United States Environmental Protection Agency.

/ CTV

Sincerely,

Gregory D. Hoenert

Manager, Global Emissions Certification

Large Power Systems Division (AC 6146)

Lieges D. Hoenes

Caterpillar Inc.

Telephone: (309) 578-4868 Hoenert Gregory D@Cat.com

Vivash Lemas

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Gmmco Limited

Sec-VI , Tech Specs Part D, Clause - D.4.2

Date: 22-07-2024

CK Birla Group

GMMCO/850HJP, Dozer /24-25//1, R. N. Mukherjse Road;

Kalkata - 700 001 West Bennal.

To General Manager(MM) Coal India Limited Coal Bhawan Premises No. 4, Action Area 1A, New Town, Rajarhat, Kolkata - 700156

Dear Sirs

Sub Proposed Method of Drive System

Ref Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

The Proposed method of offered Drive System is Conventional Drive System. The followings are provided in the equipment-

Transmission:

Equipment is fitted with Torque-flow (Planetary Power shift) transmission consisting of single stage torque Converter (Static Clutch Divider), planetary gear drives and hydraulically operated multiple disc type clutches equipped with suitable valves for developing a minimum of 3 forward speed and 3 reverse speed.

Heavy-duty removable belly guard, designed such that it does not allow accumulation of dirt.

Differential:

Equipment is fitted with Heavy-duty differential with high quality spiral bevel gear and pinions.

Final Drive:

Equipment is fitted with Heavy-duty spur and / or planetary gear system from differential to drive axle.

Thanking You.

Yours Sincerely.

Vikash Kumar

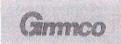
General Manager

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Phone: (033) 3918 1700 To 12 Fax: (033) 3918 1706 E-mail: contactus@gmm.cuindia.com - Website: www.gmm.co.in

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Gmmco Limited

CK Birla Group 11" Floor, Biria Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal.

Sec- VI, Tech Specs, Part- D, Clause- 4.18 of NIT

GMMCO/CIL/850HP Dozer/24-25

Date: 22-07-2024

The General Manager (MM) Coal India Limited Coal Bhawan Premises No. 4, Action Area 1A, New Town, Rajarhat, Kolkata - 700156

Dear Sir,

SUB- Undertaking For AFDSS

Name Of the Manufacturers- Southern Electronics / Automation Control / Ansul(Maco)

REF:Tender no. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

This is to certify that the A suitable automatic fire detection and suppression system of above referred Manufacturers (indigenous), shall be provided on the equipment complying DGMS (Tech) Circular No. 06 of 2020 dated 27.02.2020.

We also confirm 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: 1. Periodical refilling shall be done by us.

2. Details of AFDSS also indicated in Major Bought Out items list & Technical details are enclosed as Annexure.

33) 3918 1700 To 12 Fax: [033] 3918 1706 E mail: contactus@gmmcoindia.com Website; www.gmmco.in

[Registered office: 9/1, 8.N Mukhanee Road, Kolkata 700 001]

CIN U35202WB1966PLC026980

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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adams



We also confirm that, the AFDSS system will comply to the following provisions:

Automatic fire detection and suppression system suitable for fire class A, B & C will be provided in the fire prone zone of the dozer.

- · Schematic drawing is submitted indicating Plan of the system with relative position of items to be protected from fire.
- Fire detection and suppression of fire will 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 will be clean and shall not damage electrical / electronic component.
- · Fire suppression system will 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 will 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 later stage.
- · The system will be capable for efficient operation in the extreme mining conditions with dust, dirt, water & vibrations.

Thanking You,

Yours Sincerely,

For GMMCO LIMITED

Vikash Kumar General Manager A. Loska

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A-101 Fire Suppression System Models 10, 20, 30 and Models 50, 125, 250

Features

- FM Approved
- Manual and/or automatic detection and actuation
- Extreme temperature option
- Low profile tank option
- Rugged construction
- Approved for use in under ground mines for either manual or automatic agent release (automatic detection System incorporating MSHA approved ANSUL® CHECKFIRE MP-N detection systemi
- CE Marked

Applications

The ANSUL A-101 Fire Suppression System is an automatic or manual fire suppression system using FORAY (monoammonium phosphate base) dry chemical agent for Class A, B, and C fires, The fire suppression system is designed for use on large, offroad type construction and mining equipment (such as large excavators/shovels, draglines, hauf trucks, wheeled loaders), underground mining equipment, and specialty vehicles (such as slag, pot and/or slab carriers, tunnel boring machines, solid waste handling equipment, and forestry vehicles). These types of equipment have large volumes of oils and hydraulic fluids under pressure.

The fire system described is a suppression system only and is not designed or intended to suppress all fires. It is extremely important that alternative firefighting equipment be available in case the system does not totally suppress a fire.

If an automatic fire detection and actuation system has not been supplied or has been disconnected, system actuation and discharge will not occur unless the fire suppression system is manually actuated.

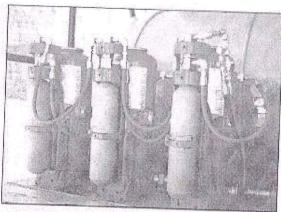
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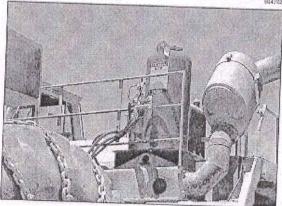
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The ANSUL A-101 Fire Suppression System is a pre-engineered, cartridge-operated dry chemical system with a fixed nozzle distribution network. It is approved by Factory Mutual (FM).

The system is capable of automatic detection and actuation and/ or remote manual actuation. When a fire is detected, the A-101 system is actuated either manually or automatically, operating the pneumatic actuator. The pneumatic actuator ruptures a seal disc in the expellant gas cartridge. This, in turn, pressurizes and fluidizes the dry chemical suppressing agent in the tank, ruptures the burst disc when the required pressure is reached, and propels the dry chemical through the network of distribution hose. The dry chemical is discharged through fixed nozzles into the protected areas, suppressing the fire.

The automatic detection portion of the fire suppression system incorporates electric detection, either linear detection wire or spot thermal detection.





In addition, Triple IR flame detectors added to the linear or thermal detection circuit can be utilized for quick fire detection

The fire suppression system is capable of providing local application hazard protection for mobile equipment and industrial hazards. In certain industrial hazards, total flooding can be used.

The basic system consists of: Dry Chemical Agent Storage Tankis), Expellant Gas Cartridge, Distribution Hose and Nozzles, Manual/Automatic Actuator, Automatic Detection System, and Accessories

Agent Storage Tank - The agent storage tank(s) consists of a welded steel tank, gas tube, brass or aluminum fill cap, agent outlet sealed bursting disc assembly, and instruction nameplate. Tanks for temperature ranges of +32 °F to +120 °F (0 °C to +49 °C) and the LT-A-101-10, have a cartridge receiver and an expellant gas cartridge located on the side of the tank. Low profile and extreme temperature model tanks, (-65 °F to +210 °F (-54 °C to +99 °C)), have a separate cartridge/pneumatic actuator assembly which is connected to the tank by a high pressure 1/4 in. hose. The tank is painted with a red enamel paint. Agent storage tanks are available in six sizes (10 lb, 20 lb, 30 lb, 50 lb, 125 lb and 250 lb).

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Specification Chart

Model	Part No.	Capacity	Shipping Weight
A-101-10 Basic unit consists of: • Agent tank with CO ₂ cartridge • Tank mounting bracket • Owners manual	16559 (431450) CE (423767) TC	8 1/2 lb (3.9 kg) FORAY multi-purpose dry chemical	31 lb (14 kg) (with bracket)
A-101-20 Basic unit consists of: Agent tank with CO ₂ cartridge Tank mounting bracket Owners manual	16430 (431458) CE (423770) TC	17 lb (7.7 kg) FORAY multi-purpose dry chemical	43 lb (19.5 kg) (with bracket)
P-A-101-20-B lasic unit consists of: Agent tank • CO ₂ cartridge Tank mounting bracket Cartridge bracket • Owners manual	31344 (431474) CE (423784) TC	17 lb (7.7 kg) FORAY multi-purpose dry chemical	54 ib (24.4 kg) (with bracket)
v-101-30 Sasic unit consists of: Agent tank with CO ₂ cartridge Tank mounting bracket Owners manual	16131 (431466) CE (423773) TC	25 lb (11.3 kg) FORAY multi-purpose dry chemical	61 lb (27.6 kg) (with bracket)
T-A-101-10 Basic unit consists of; Agent tank with CO ₂ cartridge Tank mounting bracket Owners manual	31581 (431451) CE (423776) TC	8 1/2 lb (3.9 kg) FORAY multi-purpose dry chemical	31 lb (14 kg) (with bracket)
T-LP-A-101-20-B Basic unit consists of: Agent tank • N ₂ cartridge Tank mounting bracket Cartridge bracket Owners manual	24307 [431475] CE [423787] TC	17 lb (7.7 kg) FORAY multi-purpose dry chemical	54 lb (24.4 kg) (with bracket)
T-A-101-20 Basic unit consists of: Agent tank • N ₂ cartridge Tank mounting bracket Cartridge bracket • Pneumatic actuator Owners manual	24306 [431459] CE [423779] TC	17 lb (7.7 kg) FORAY multi-purpose dry chemical	43 lb (19:5 kg (with bracket)
T-A-101-30 Basic unit consists of: Agent tank * N ₂ cartridge* Tank mounting bracket Owners manual Cartridge bracket* • Pneumatic actuator*	53003 (431467) CE (423780) TC plus 24883	25 lb (11.3 kg) FORAY multi-purpose dry chemical	66 lb {29.9 kg} {with bracket}
T-A-101-50 lasic unit consists of: Agent tank • N ₂ cartridge* Tank mounting bracket Cartridge bracket* • Pneumatic actuator* Owners manual	433788 (DOT/TC/CE) plus 24883	45 lb (20.4 kg) FORAY multi-purpose dry chemical	105 lb (47.6 kg)
T-A-101-125 Jasic unit consists of: Agent tank • N ₂ cartridge Cartridge bracket • Pneumatic actuator Owners manual	427745 (DOT/TC) (434378) CE	112 lb (50.8 kg) FORAY multi-purpose dry chemical	247 lb (112 kg)
T-A-101-250 lasis unit consists of: Agent tank • N ₂ cartridge Cartridge bracket • Pneumatic actuator Owners manual	427746 (DOT/TC) (434379) CE	225 lb (102.1 kg) FORAY multi-purpose dry chemical	525 lb (238 kg)
INCLUDED IN PART NO. 24883 SHIPPING ASSEMBLY			1 mor (2/m)

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	Dimensions	Actuation	Nozzles	Cartridges	Temperature
	H: 16 3/4 in. (425.5 mm) (with bracket) 16 1/2 in. (419.1 mm) (without bracket) W: 8 1/4 in. (209.5 mm) (with bracket) D: 5 1/4 in. (133.4 mm) (with bracket)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V-1/2, 2 per tank maximum	Dry chemical propellant (CO ₂) 840 psi (57.2 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C)	+32 °F to +120 °F 10 °C to +49 °C)
	H: 19 7/8 in. (504.8 mm) (with bracket) 19 7/8 in. (504.8 mm) (without bracket) W: 11 1/2 in. (292.1 mm) (with bracket) D: 8 in. (203.2 mm) (with bracket)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V-1/2, 4 per tank maximum	Dry chemical propellant (CO ₂) 840 psi (57.2 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C)	+32 °F to +120 °F (0 °C to +49 °C)
	H: 15 1/4 in. (387.3 mm) (with bracket) 14 7/8 in. (377.8 mm) (without bracket) W: 9 3/4 in. (247.6 mm) (with bracket) D: 8 1/2 in. (215.9 mm) (with bracket)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V-1/2, 4 per tank maximum	Dry chemical propellant (CO ₂) 840 psi (57.2 bar) at 70 °F (21 °C) Remote actuators (N ₂ I 1800 psi (122.5 bar) at 70 °F (21 °C)	+32 °F to +120 °F (0 °C to +49 °C)
	H: 23 in. (584.2 mm) (with bracket) 22 in. (558.8 mm) (without bracket) W: 12 in. (304.8 mm) (with bracket) D: 9 1/2 in. (241.3 mm) (with bracket)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V-1/2, 6 per tank maximum	Dry chemical propellant (CO ₂) 840 psi (57.2 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C)	+32 °F to +120 °F (0 °C to +49 °C)
	H: 16 3/4 in. (425.4 mm) (with bracket) 16 1/2 in. (419.1 mm) (without bracket) W: 8 1/4 in. (209.5 mm) (with bracket) D: 5 1/4 in. (133,3 mm) (with bracket)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V 1/2, 2 per tank maximum	Dry chemical propellant (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C)	-65 °F to +210 °F (-54 °C to +99 °C
	H: 15 1/4 in. (387.3 mm) (with bracket) 14 7/8 in. (377.8 mm) (without bracket) W: 9 3/4 in. (247.6 mm) (with bracket) D: 8 1/2 in. (215.9 mm) (with bracket)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V-1/2, 4 per tank maximum	Dry chemical propellant (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C)	-65 °F to +210 °F I-54 °C to +99 °C
	H: 22 3/8 in. (568.3 mm) (with bracket) 21 3/8 in. (542.9 mm) (without bracket) W: 12 in. (304.8 mm) (with bracket) D: 9 1/2 in. (241.3 mm) (with bracket)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V-1/2, 4 per tank maximum	Dry chemical propellant (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C)	-65 °F to +210 °F -54 °C to +99 °C
	H: 22 5/8 in. (574.6 mm) (with bracket) 22 3/8 in. (568.3 mm) (without bracket) W: 9 7/8 in. (258.8 mm) (with bracket) D: 7 3/4 in. (196.8 mm) (with bracket)	Electric detection with pneumatic actuation; manual remote pneumatic push button	F-1/2, C-1/2 or V-1/2, 6 per tank maximum	Dry chemical propellant (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C)	-65 °F to +210 °F {-54 °C to +99 °C
	H: 21 1/2 in. (550 mm) W: 11 3/8 in. (290 mm) D: 12 1/2 in. (320 mm)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V-1/2, 4, 6, or 8 per tank maximum	Dry chemical propellant {N ₂ } 1800 psi (122.5 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 bar) at 70 °F (21 °C)	-65 °F to +130 °F (-54 °C to +54 °C
	H: 31 in. (787 mm) W: 18 in. (457 mm) D: 22 in. (559 mm)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or with V-1/2, 8, 12 or 16 per tank maximum	Dry chemical propellant (N ₂) 1800 psi (122.5 ber) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi (122.5 ber) at 70 °F (21 °C)	-65 °F to +130 °F (-54 °C to +54 °C
sikkunggulainenskiiking kent age	H: 44 in. (1118 mm) W: 22 in. (559 mm) D: 28 in. (711 mm)	Electric detection with pneumatic actuation; manual remote pneumatic, push button	F-1/2, C-1/2 or V-1/2, 8, 12, 16, or 24 per tank maximum	Dry chemical propellant (N ₂) 1800 psi 122.5 bar) at 70 °F (21 °C) Remote actuators (N ₂) 1800 psi 122.5 bar) at 70 °F (21 °C)	-65 °F to +130 °F (-54 °C to +54 °C

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Description (Continued)

Mounting Bracket (10, 20, 30, 50) – Tank mounting bracket consists of a rugged, welded steel back plate and clamp arm assembly. The bracket is designed to retain and protect the agent storage tank in the normal hostile environment that these systems are installed in. The bracket is painted red enamel and can be mounted by bolting or welding.

Mounting Ring (125, 250) – The mounting ring for the 125, 250 tanks is fabricated of 1/2 in, steel. The ring conforms to the outline of the tank assembly bottom. The ring can be welded to the mounting surface and the tank can then be bolted to the ring, using the pre-threaded holes in the ring.

Expellant Gas Cartridge – The expellant gas cartridge is a spun high pressure cartridge containing either carbon dioxide for temperature ranges of +32 °F to +120 °F (0 °C to +49 °C), or nitrogen for extreme temperature ranges of -65 °F to +210 °F (-54 °C to +99 °C).

Distribution Hose and Nozzles – The distribution piping (hose) network is designed to properly distribute the dry chemical to the nozzles. To survive the vibration found on mobile equipment, hose is used to distribute the dry chemical. In the A-101 pre-engineered system; hose sizes, maximum and minimum hose lengths, and number of nozzles are predetermined. There are three types of nozzles available for the A-101 system. Each type of nozzle has been designed and tested for various applications and area of coverage. Nozzle blow-off caps are available to keep the nozzles free of dirt and grease.

Manual/Automatic Actuator(s) – The manual actuator consists of an actuator body, a nitrogen cartridge, and a mounting bracket. Two types of manual actuators are available: Remote type and Dashboard type. The Remote type uses either the "S" style bracket or the cartridge guard style enclosure. The Dashboard type uses the "L" or "S" style mounting bracket. When the manual actuator is operated by hand, gas supplied from the nitrogen cartridge is released into 1/4 in. actuation hose. This nitrogen pressure then operates the pneumatic actuator that punctures a larger expellant gas cartridge (either carbon dioxide or nitrogen) and this fluidizes and propels the dry chemical from the agent storage tank.

Automatic actuators (a component of the automatic detection system) operate the same way, except they can be operated automatically by the detection system.

Automatic Detection System – Three automatic detection systems are available for use with the ANSUL A-101 fire suppression systems: CHECKFIRE Series I, CHECKFIRE SC-N, or the CHECKFIRE MP-N.

Mounting location temperatures for the control modules for the detection systems are as follows:

CHECKFIRE systems utilize either an electrical, mechanical, or pneumatic principle. Four types of detector options can be used: A temperature-sensitive linear wire, a spot-type heat detector, or a gas filled stainless steel tubing, or a combined linear/spot type with Triple IR (IR3) flame detectors.

- Temperature-sensitive linear wire When fire breaks out, the wire's insulation melts, completing an electrical circuit and causes the detection system to actuate the fire suppression system.
- Spot-type heat detectors Internal contacts will close when the temperature of the surrounding air reaches the set point temperature of the detector. This action completes an electrical circuit and causes the detection system to actuate the fire suppression system.

- Gas filled stainless steel tubing When the gas in the tubing heats up, the increase in pressure operates a responder, thus completing an electrical circuit and causes the detection system to actuate the fire suppression system.
- The Triple IR (IR3) Flame Detector is a high performance and high reliability self-contained triple spectrum flame detector. This detector, packaged in a small, convenient sized housing for easy installation in tight areas, is specially designed as a general-purpose flame detector for off-road (mining) and industrial applications with the highest immunity to false alarms. The patented Triple IR design offers two to three times the detection distance of any conventional IR or UV/IR detector, scanning for oscillating IR radiation (1 to 10 Hz) in three special bands. Each sensor band pass has been selected to help ensure the greatest degree of spectral matching to the radiant energy emissions of fire, and the lowest degree of matching to non-fire stimuli.

Specifications

The fire suppression system shall be the dry chemical pre-engineered fixed nozzle cartridge-operated type, incorporating automatic detection with engine shutdown capabilities. It shall be approved by Factory Mutual (FM) for the hazards to be protected based on actual fire tests by the manufacturer and confirmed by the nationally recognized testing laboratory. The design of the system (specific hose sizes, maximum and minimum lengths, hose specifications, number of fittings, number and type of nozzles, and quantity of dry chemical) shall provide protection for the hazard as prescribed by the national testing laboratory. Installation shall be in accordance with the approved Design, Installation, Maintenance Manual and conform to NFPA Standard 17, "Dry Chemical Extinguishing System," and NFPA Standard 121, "Mobile Surface Mining Equipment."

Approval

The ANSUL A-101 System is Factory Mutual (FM) Approved, Transport Canada (TC) Approved, and CE Marked.

Twin-Agent Concept

The LVS Liquid Agent Fire Suppression System is designed to be installed with an ANSUL A-101 Dry Chemical system to create a twin-agent system concept that is capable of quick fire knock-down, coupled with the cooling application of the LVS liquid agent. The system consists of both dry chemical and wet chemical. The dry chemical side of the system is the ANSUL LT-A-101 type system and the liquid agent side of the system consists of wet chemical tank(s) containing a premixed solution of LVS agent.

Ordering Information

Order all system components through Customer Services, One Stanton Street, Marinette, WI 54143-2542 (715) 735-7411.

Safety Data Sheets (SDS) are available at www.ansul.com

Note: The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

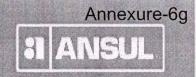
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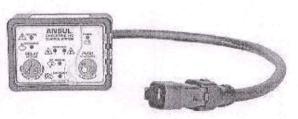
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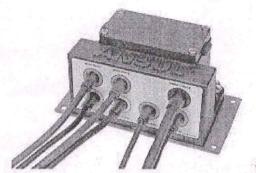
CHECKFIRE 210-D Detection and Actuation System

Features

- FM 5970 Approved, 2022 Edition Tested to meet or exceed vehicle equipment manufacturer's specifications for environment, vibration and EMC profiles
- Supervised power, detection, release, and communication eircuits
- System can be independently powered by utilizing either the primary power input or secondary power input. NOTE: Both primary and secondary power supplies must be utilized to maintain FM 5970 approval.
- Two time delays programmable to 0, 5, 10 or 15 seconds
- "DELAY / Reset / Silence" button
- PUSH To Activate / Alarm When Lit" electric manual activation button and LEO
- Minimum 75 dB internal sounder
- Dust and water tight connectors (IP68 rated)
- Manual programming button
- Computer programmable via mini USB port
- Two analog detection circuits, detection circuit #2 may be programmed for pressure switch feedback
- Detection circuits are programmable for independent detection and release, cross-zone detection and release or detection only
- Auxiliary Power output available when external power is connected
- Two internal programmable SPDT Form "C" relays (6A ® 30 VDC resistive, 3A ® 30 VDC Inductive)
- Isolate function via Display Module
- Downloadable 4000+ Event History Log



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Application

The CHECKFIRE 210-D Detection and Actuation System is typically used with an ANSUL® A-101 or LVS Vehicle Fire Suppression System for 24-hour protection of equipment. The system is designed for vehicles and equipment in extreme environmental and physical conditions.

Industries where vehicles use CHECKFIRE 210-D Systems:

- Forestry
- Agriculture
- Construction
- Public transportation
- Public utilities
- Land fills
- Waste disposal
- Mining

Description

The CHECKFIRE 210-D Automatic Detection and Actuation System provides supervised input/output circuits to activate an ANSUL® fire suppression system. Upon detecting a fire condition, the interface control module activates the release circuit, resulting in the discharge of an expellant gas cartridge, initiating fire suppression system operation.

Green, amber, and/or red pulsing LEDs, and the internal sounder notify operator of system status. The sounder only activates for faults, isolate mode, and system release.

Operating components include the display module, interface control module, linear detectors, electric manual actuators, protracting actuation devices (PAD), electric-pneumatic actuators, and cables for power, detection, and release circuits. The entire system is electronics based for supervision, communication, and control of system components.

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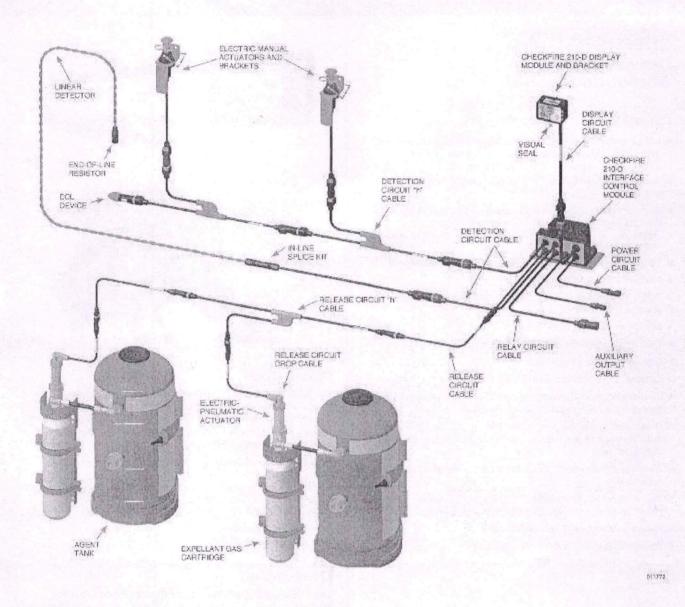
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CHECKFIRE 210-D SYSTEM - SAMPLE CONNECTIONS



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Typical System Connections

The CHECKFIRE 210-D Display Module communicates with the CHECKFIRE 210-D Interface Control Module (ICM) through the display cable. The ICM is the central connection point for all system cables.

System Cabling:

- Enables communication and control of components
- IP68 connectors
- Integral connectors on each end of cable
- Offered in factory set lengths or can be custom fabricated on
- Temperature rating: 221 °F (105 °C).

Detection Circuits #1 and #2: Permits multiple-detection options using detection circuit cable and detection circuit "h" cables for the main detection trunk and branch lines.

- Electric manual actuators
- Linear detectors
- Pressure switch (detection circuit #2 only)

Release Circuit: Connects to a maximum of 8 electric-pneumatic actuators installed on agent tank expellant gas cartridges using release circuit cables, "h" cables, and release circuit drop cables.

External Power Circuit: Provides a direct connection to the vehicle power source using power circuit cables and a single fused power circuit cable, when external power is required.

Auxiliary Output Circuit: Connects to external notification devices.

Display Circuit: Connects display module with ICM.

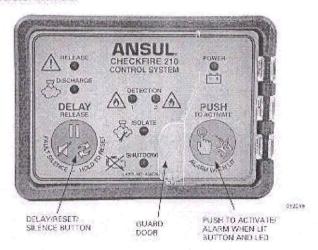
Relay Circuit: Provides connection for two independent internal relay contacts for connection by others.

Detection

A Linear Detector with a predetermined temperature rating provides fire detection in the protected area. Color coded temperature ratings offer quick identification of linear cable selection. 356 °F (180 °C) cables are red, while 220 °F (105 °C) cables are white.

Display Module

The CHECKFIRE 210-D Display Module communicates with the Interface Control Module (ICM) to indicate system status. Installation within reach of the operator provides easy access to operator controls.



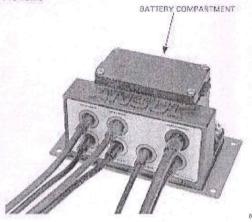
- Durable high-strength glass-filled nylon material
- Surface or bracket mounted
- Two index pins on back for secure mounting
- Ambient temperature range: -40 °F to 185 °F (-40 °C to 85 °C).
- LED indicators provide notification of system status (internal sounder matches LED pulse rate)
- PUSH To Activate / Alarm When Lit manual-activation button and LED
 - Provides manual actuation (immediate release)
 - Indicates alarm condition.
- Guard door with visual seal to protect manual-activation button
- DELAY/Reset/Silence Button
 - Restarts Time Delay #1 (TD1) before TD1 sequence expires
 - Resets system (during non-alarm status)
 - Silences internal sounder during fault conditions and isolate
 - Activates/deactivates Isolate Mode



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Interface Control Module (ICM)

The CHECKFIRE 210-D Interface Control Module (ICM) is the central connection point for input/output circuits. Through communication with the display module, operators receive continuous system status updates, and operator input commands go directly to the ICM.



The protective battery compartment cover is held in place with 4 captive screws. Besides the internal power supply, the compartment includes a mini USB connection port and the programming interface (button and LEDs). The system programming may be accomplished with the manual programming button or by using a computer with the ANSUL® CHECKFIRE 210 Programmer software communicating through the mini USB port.

The system can be put into Isolate mode at the display module to temporarily disable the automatic system release function. While disabled, manual system release is still available. An amber isolate LED on the display module continues to pulse until the switch is returned to normal.

- Dust and water tight (IP67 rated)
- Durable high-strength glass-filled hylon material
- UL94 Flame rating
- Ambient temperature range: -40 °F to 185 °F (-40 °C to 85 °C)
- Steel mounting plate



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Battery Module

A supervised 3.6 VDC lithium CHECKFIRE 210-D Battery Module provides internal power for the CHECKFIRE 210-D System.

Electric-Pneumatic Actuator

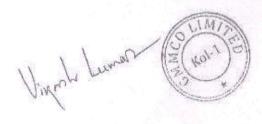
With a focus on ease of installation and safety, the Electric-Pneumatic Actuator reduces system complexity. The Protracting Actuation Device (PAD) directly actuates the electric-pneumatic actuator pin eliminating the need for pneumatic actuation.

The PAD with plug-in spade connectors is easy to install and replace without tools. After plugging the PAD into the re-designed release circuit drop cable, the cable is attached to the top of the electric-pneumatic actuator.



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If required, optional pneumatic actuation is available.



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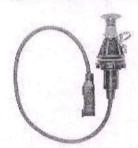
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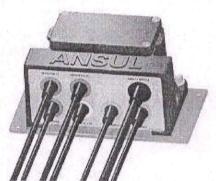
Electric Manual Actuator

The newly designed Electric Manual Actuator (EMA) provides electrical activation of the fire suppression system. Pulling the pin and striking the red button sends a signal to the interface control module for immediate actuation of the electric-pneumatic actuator. Upon actuation, the expellant gas cartridge initiates fire suppression system operation.



012010

EMAs are typically accessible from ground level and/ or in a path of egress. An index nub ensures the EMA remains at the proper angle for access to the pull pin.



012018

System Specifications

Interface Control

Module Power:

Internal power source

and/or: 12/24 VDC nominal external

power

(24 hour operation)

Operating

Temperature Range:

-40 °F to 185 °F

(-40 °C to 85 °C)

Shock

In accordance with UL1254

Vibration:

In accordance with UL1254

Electromagnetic

Compatibility:

Heavy Industrial EMC Directive Compliant (2004/108/EC)

Approvals

A severed

FM 5970 Approved and CE Marked

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Ordering Information

Part No. Description

System Components

A16381C9PK CHECKFIRE 210-D Display Module

439564 Mounting Bracket, CHECKFIRE

110/210

A16381C9PL Interface Control Module (ICM),

CHECKFIRE 210-D

439569 Electric Pneumatic Actuator

(EPA)

440352 CHECKFIRE 210 Battery

Display/Communication Circuit

A16381EW4C 100 ft (30.5 m) Bulk Display/

Communication Circuit Cable Box

A16381EW48 200 ft (61.0 m) Bulk Display/

Communication Circuit Cable Spool

A16381CBC1 2 ft (0.61 m) Display/Communication

Circuit Cable

A16381CBC2 3 ft (0.92 m) Display/Communication

Circuit Cable

A16381CBC3 5 ft (1.53 m) Display/Communication

Circuit Cable

A16381CBC4 10 ft (3.05 m) Display/

Communication Circuit Cable

A16381CD2V 20 ft (6.10 m) Display/

Communication Circuit Cable

A16381CD2W 30 ft (9.15 m) Displayi

Communication Circuit Cable
A16381CD30 50 ft. (15.24 m) Display/

50 ft. (15.24 m) Display/ Communication Circuit Cable

Detection Circuit

A16381EW49 100 ft (30.5 m) Bulk Detection/Relay

Circuit Cable

A16381EW45 500 ft (152.4 m) Bulk Detection/

Relay Circuit Cable Spool

A16381C9PN 2 ft (0.61 m) Detection Circuit Cable

A16381CB0F 3 ft (0.91 m) Detection Circuit Cable

A16381CB0G 5 ft (1.53 m) Detection Circuit Cable

A16381CB62 10 ft (3.05 m) Detection Circuit

C.L.

Cable

A16381CB63 20 ft (6.10 m) Detection Circuit

Cable

A16381CB64 30 ft (9.15 m) Detection Circuit

Cable

A16381CB65 50 ft (15.24 m) Detection Circuit

Cable

A16381CD32 "h" Cable, Detection Circuit

A16381C9PM Electric Manual Actuator (EMA)

440537 Electric Manual Actuator Bracket

426520 End-of-Line Resistor

426461 End-of-Line Resistor (10 Pack)

A16381CB66 EOL (End-of-Line) Device, Detection

Circuit

Device, Detection

Ordering Information (Continued)

Part No. Description Detection Circuit (Continued) A16381CB6Y Branch Terminator, Detection Circuit 428375 In-Line Splice Kit A16381TK26 Discharge Pressure Switch Linear Detectors (Red) 071230 100 ft (30.5 m) Red Bulk Linear Detection Wire 356 °F (180 °C) Linear Detectors (White) A16381ULBP 100 ft (30.5 m) White Bulk Linear Detection Wire 220 °F (105 °C) Relay Circuit A16381EW49 100 ft (30.5 m) Bulk Detection/Relay Circuit Cable A16381EW45 500 ft (152.4 m) Bulk Detection/ Relay Circuit Cable Spool A16381CB9R 2 ft (0.61 m) Relay Circuit Cable A16381CB9T 5 ft (1.53 m) Relay Circuit Cable A16381CB9U 10 ft (3.05 m) Relay Circuit Cable A16381CB9Y 20 ft (6.10 m) Relay Circuit Cable Release Circuit A16381EW4B 100 ft (30.5 m) Bulk Release/Power Circuit Cable A16381EW47 500 ft (152.4 m) Bulk Release/Power Circuit Cable Spool A16381CB70 2 ft (0.61 m) Release Circuit Cable A16381CB71 3 ft (0.91 m) Release Circuit Cable A16381CB72 5 ft (1.53 m) Release Circuit Cable A16381CB73 10 ft (3.05 m) Release Circuit Cable A16381CB74 20 ft (6.10 m) Release Circuit Cable A16381CB7D 30 ft (9.15 m) Release Circuit Cable A16381CB7E 50 ft (15.24 m) Release Circuit Cable A16381CD33 "h" Cable, Release Circuit 439436 Branch Terminator, Release Circuit A16381CB7H 38 in. (0.97 m) Release Circuit Drop Cable 439448 Protracting Actuation Device (PAD) **Power Circuit** A16381EW4B 100 ft (30.5 m) Bulk Release/Power Circuit Cable 500 ft (152.4 m) Bulk Release/Power A16381EW47 Circuit Cable Spool A16381CB7K 2 ft (0.61 m) Power Circuit Cable

Part No.	Description
Power Circuit	(Continued)
A16381C88M	50 ft (15.24 m) Power Circuit Cable
A16381CB9P	Fused Power Circuit Cable - 3 ft (0.91 m) (w/Fuse Holder)
Bulk Circuit Co	nnector Kits
A16381TK21	2-Pin Connector Kit, 1 pack Release/ Power Circuits
A16381TK20	2-Pin Connector Kit, 5 packs Release/Power Circuits
A16381TK1V	6-Pin Connector Kit, 1 pack Display/ Detection/Relay Circuits
A16381TK1Y	6-Pin Connector Kit, 5 packs Display/ Detection/ Relay Circuits
Cable Mountin	g Hardware
448174	Bulkhead Cord Grip, (Pkg. 50)
440737	Double Loop Cable Tie (Pkg. 50)
447931	2-Hole Grommet (25 Pack)
447928	3-Hole Grammet (25 Pack)
447321	Linear Detector Grommet (Pkg. 25)
Note: The converte	d values in this document are organized for dime

Note: The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

ANSULe, CHECKFIRE, and the product names listed in this material are marks and/or registered marks. Unauthorized use is strictly prohibited.

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mer fing

3 ft (0.92 m) Power Circuit Cable

5 ft (1.53 m) Power Circuit Cable

10 ft (3.05 m) Power Circuit Cable

20 ft (6.10 m) Power Circuit Cable

30 ft (9.15 m) Power Circuit Cable

A13681CB7L

A16381CB7M

A16381CB7P

A16381CB7T

A16381CB8K

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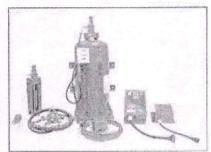
Automatic Fire Detection and Suppression System (AFDSS) with Two Zones



(As per DGMS (Tech) Circular No. 06 of 2020, Dhanbad, dated 27/02/2020)

Our Automatic Fire Detection & Suppression System (AFDSS) meets all requirements as per DGMS (Tech) Circular No. 06 of 2020, Dhanbad, dated 27/02/2020. We are happy to introduce "Multi Zone Automatic Fire Detection and Suppression system" which we have developed indigenously.

The major and critical inclusion as per DGMS (Tech) Circular No. 06 of 2020 is:



"The system, as far as practical, shall be designed in such a way to supply adequate quantity of fire suppressing agent to the zone where the fire is detected and to be suppressed on need basis for effective firefighting and to avoid re-ignition of fire instead of blind discharge through all discharge nozzles" (hereinafter referred as "Two Zone AFDSS"), where engineering innovation is required.

How we are providing "Two Zone AFDSS":

Zone 1 : Engine Area.

Zone 2 : Diesel Tank, Transmission, Exhaust Pipe and other hot zones having the potential to cause a fire. (or as specified by customer)

In case if we install two zone AFDSS with the cylinder capacity of 30 Kg DCP Powder. That is two cylinders of 15 Kg +15 Kg on the HEMM.

Condition 1 : If the fire is detected in Zone 1, then total DCP powder that is 30 Kg. will be sprayed in zone 1, and no DCP powder will be sprayed in Zone 2.

: In the same way, if the fire is detected in Zone 2, then total DCP powder that is 30 Kg. will be sprayed in Zone 2, and no DCP powder will be sprayed in Zone 1.

Other features which are mentioned in Circular No. 06 of 2020, the basic inclusion are as follows:

All other parameters available in our AFDSS System:

- Control Panel is with system healthy and system malfunction indicator.
- AFDSS is having with manual actuation, inside and outside operators' cabin (away from hot zones). If the system is manually operated, then DCP powder should spray through all the nozzles.
- No obstruction in Operator's line of sight, as size of display panel is very small 5 inch X 6 inch. Ш.
- IV. AFDSS will cover all fire susceptible areas having the potential to cause a fire.
- Our Automatic Fire Detection & Suppression System (AFDSS) meets all requirements of DGMS V. (Approval) Circular No. 2 dated 08/07/2013 as per DGMS (Tech) Circular No. 06 of 2020, Dhanbad, dated 27/02/2020.

Like 2 Zone AFDSS System we can make 3 Zone AFDSS System and 4 Zone AFDSS System as per customers need.

A. Lonem Vikrohluman

Manufacturer of Safety Equipments as per D.G.M.S. Circulars

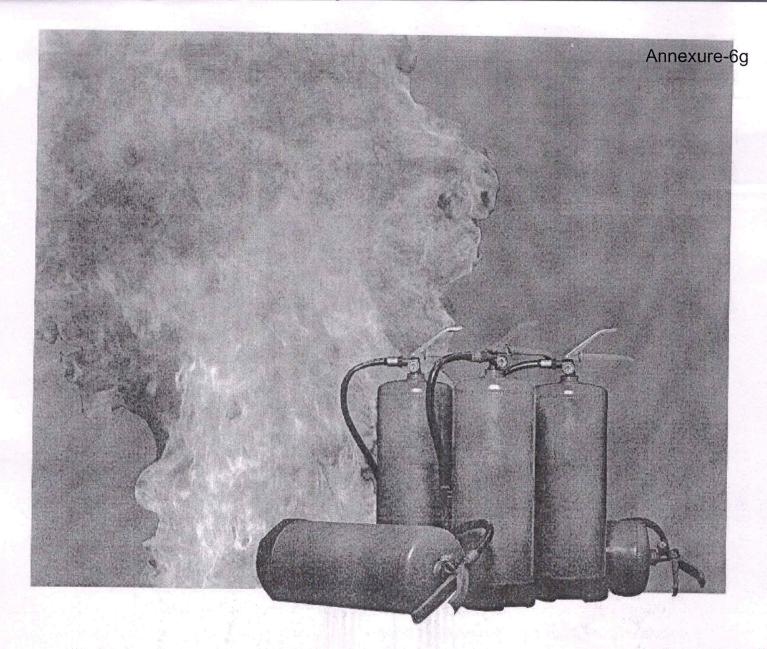
K 10/2, MIDC Hingna, Dist. - Nagpur - 440 016. Phone: +91 7104 - 237200 E-mail: info@automationcontrol.in, automat.ngp@gmail.com

Web: www.automationcontrol.in EM II No.: 270091101109 (MSME)

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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JE SEONICS

FIRE PROTECTION
AND SAFETY
SYSTEMS

Tel: +91-80-39280346/341 www.seonics.in / marketing@seonics.co.in

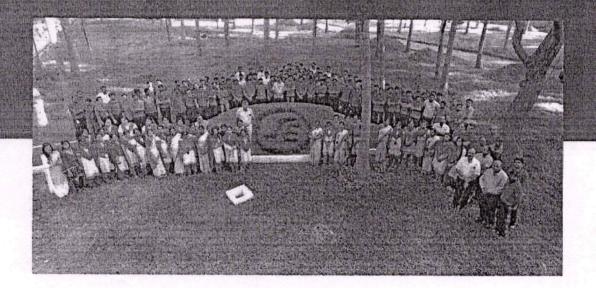
16-A,Phase -1,Peanya, Bengaluru, Karnataka 560058

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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INTRODUCTION

- Established in 1971
- Core Competence in Design, Development and manufacture of fire protection and equipment safety products
- AS 9100D IS014001, IS045001, IS027001 Certified Company
- CEMILAC Approved Design Orgranisation
- Govt. of India recognised R&D House



WHY CHOOSE US?



Willing to invest in strategic alliances.



🛱 On-time delivery.



High reliability products.



Wide service network across India

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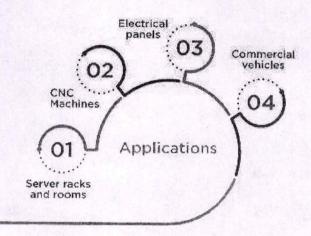
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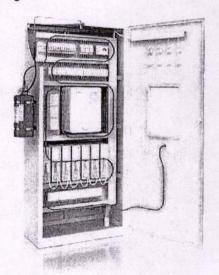
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TUBE BASED SYSTEMS

Features:

- Flexible, temperature sensitive Polymer tube making routing in tight corners easy.
- Ruptures at hottest spot and forms a nozzle shaped opening.
- Autonomous system works independent of electricity.
- Works as a Multi-Sensor.



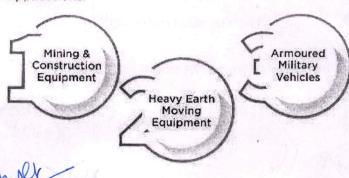


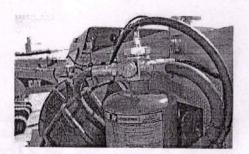
LINEAR HEAT DETECTION (LHD) TUBE BASED SYSTEMS

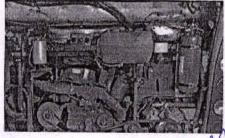
Features:

- LHD tube for detection.
- Dry Chemical Powder/Wet chemical for Suppression.
- Automatic Detection, Suppression and provision to manually activate the system.

Applications:







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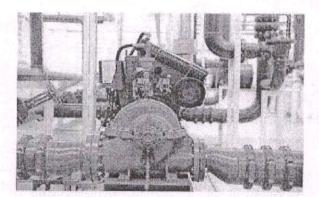
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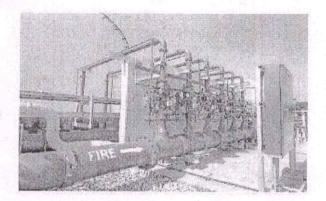
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HYDRANT SYSTEMS

- Hydrant systems are provided to protect the entire plant / building from risks.
- The system comprises of a combined network of underground & above ground pipes throughout the protected area and is provided with hydrant valves, hose reels and nozzles at strategic locations.
- The system is connected to a reliable source of water supply and is pressurized by using pump sets.





PORTABLE FIRE EXTINGUISHERS

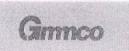
Portable fire extinguishers can be used for multiple purposes and are triggered manually on spoting fire. The following systems comply to IS specifications.

Type of Fire	Sticker Type	Capacity (in kgs)	Applications
A B C	-	1, 2, 3, 4, 6, 9	Home, Office, Warehouses
A B CP	6	1, 2, 4, 6	Server Racks, Lab Boat Engines
A	(vanu	6, 9, 25, 50, 75	Schools, Theaters Apartments
2A 25		6, 9, 50	Petrol Stations, Restaurants
\$B ⟨C (°)	A	2, 3, 4.5, 6.5, 9, 22.5	Chemical Plant, Oil Rigs, Garages
₩ G °	62	9, 22.5	
	ABC	ABC.	1, 2, 3, 4, 6, 9 1, 2, 3, 4, 6, 9 1, 2, 4, 6 6, 9, 25, 50, 75 6, 9, 50 2, 3, 4, 5, 6.5,

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Gmmco Limited

CK Birla Group 11" Floor, Birla Building, 9/1; R. N. Mukherjee Road, Kelkata 700 001 West Bengal.

Sec- VI, Tech Specs, Part- D, Clause- 4.19of NIT

Date: 22-07-2024

GMMCO/CIL/850HP Dozer/24-25

The General Manager (MM) Coal India Limited Coal Bhawan Premises No. 4, Action Area 1A, New Town, Rajarhat, Kolkata - 700156

Dear Sir.

SUB- Fire Extinguisher

Name Of the Manufacturers- Kanex / Gunnebo /Automation control/Southern Elctronics/Ansul(Maco)

REF: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

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This is to certify that, a fire extinguisher shall 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

We also confirm 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. 08th July 2013 with subsequent amendments. .

Note: Periodical refilling shall be done by us.

Thanking You,

Yours Sincerely,

For GMMCO LIMITED

Vikash Kumar General Manager

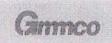
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Phone: [033] 3918-1700 To 12 Fax: (033) 3918-1706 E-mail: contactus@gmmcoindia.com Website; www.gmmco.in #

(Registered office: 9/1, R.N Mukherjee Road, Kolkata 700 001)





Gmmca Limited

CK-Birla Group 11* Boor, Birla Building, 9/1, R. N. Mukherjee Foad, Kolkata - 700 001 West Bengel.

Sec-VI, Tech Specs, Part D, Clause- D.4.20 of NIT

Date: 22-07-2024

GMMCO/CIL/850HP24-25

The General Manager (MM) Coal India Limited Coal Bhawan Premises No. 4, Action Area 1A, New Town, Rajarhat, Kolkata - 700156

Dear Sir.

SUB-SAFETY FEATURES

Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024 REF:

We hereby confirm that , 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.

We also confirm that all safety features and devices are incorporated in the equipment-

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.

Thanking You,

Yours Sincerely,

For GMMCO LIMITED

Vikash Kumar General Manager A. Janes

33] 3918 1700 To 12 Fax: (033) 3918 1706 E mail: contactus@gmmcoindia.com Website: www.gmmco.in

(Registered office: 9/1, R.N Mukherjee Road, Kolkata 700 001)

CIN U35202WB1966PLC026980

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Gmmco Limited

Clause- Section VI - Technical Specifications- D.4.21

CK Birls Group 11" Floor, Birls Building, 9/1, R. N. Mukherjee Road, Kolkata 700 001 West Bengal.

GMMCO/CIL/850HP/24-25

Date: 22-07-2024

The General Manager (MM)
Coal India Limited
Coal Bhawan
Premises No. 4, Action Area 1A,
New Town, Rajarhat,
Kolkata – 700156

Dear Sir.

SUB- Lubrication system

REF: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

A centralized micro control/PLC based electrically operated, automatic lubrication system as per design of the manufacturers provided to service at lubrication points on the machine.

The lubrication system is fully monitored to ensure adequate lubricant flow is maintained to all Points of major parts. The monitoring system is, wherever necessary, 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 are provided and is repeated in the OBD of operator's cab. All lubrication lines and injectors/Feed points are protected from damage. Location of all injectors are such that these can be conveniently inspected and repaired. The lubrication lines to the remote points are 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 terminates in steel junction blocks or rigidly mounted bulk head connectors to prevent disturbance to steel piping when flexible hoses are replaced.

Fire/heat resistant hydraulic hoses are provided in lubrication system. The vent valve, part of pump group can be removed. Lubricants recommended are of reputed make with Indian equivalent.

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.

Yours Sincerely

For GMMCO LIMITED

Vikash Kumar General Manager

A-saska

Phone: ID3313918 1703 To 12 Fax: I03313918 1705 E maio contactos@gmensoindia.com Website: www.gmmcn.in

(Registered office: 9/1, R.N Mukherjee Road, Kolkata 700 001)

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The lubrication system consists of the lubrication pump group, the injector banks, and the lubrication injectors.

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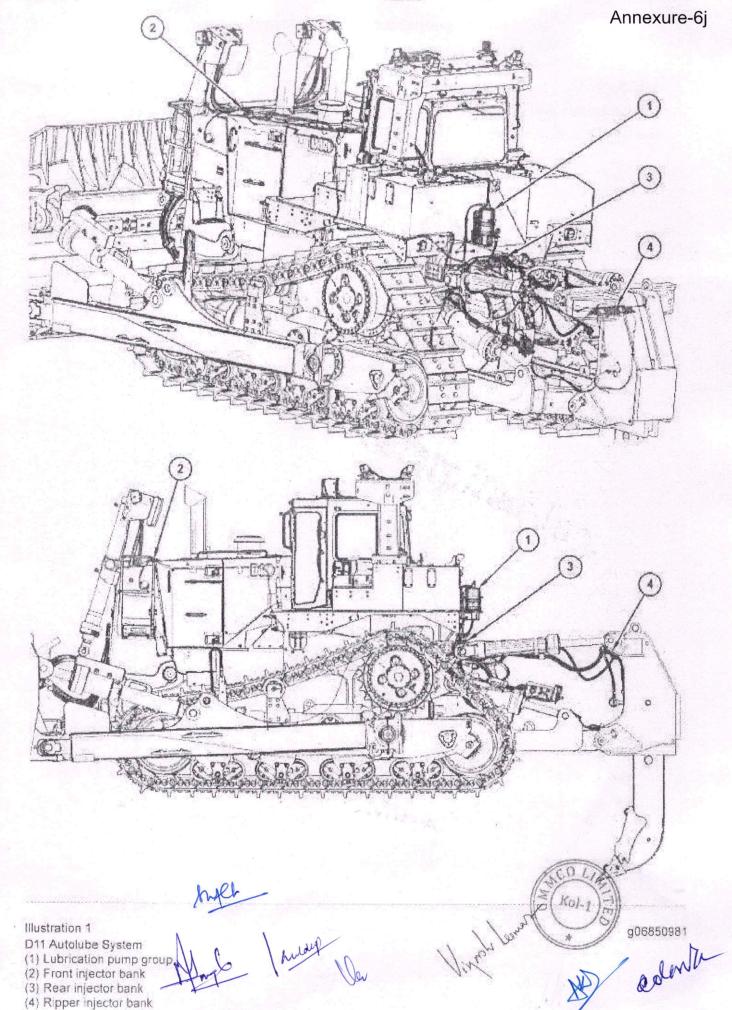
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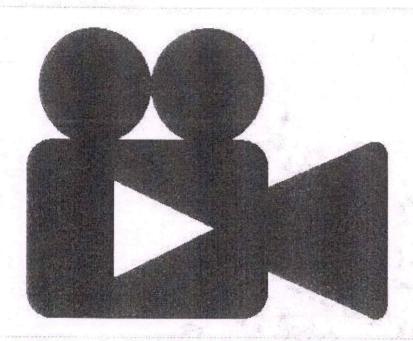


Illustration 2 g06471531

Reference: For more information, refer to supplemental video "D11 Track-Type Tractor Lubrication System Operation" on Caterpillar Channel1 (A CWS login is required to access Caterpillar Channel 1).

Note: Click or copy the following link into a web browser. (A CWS login is required to access Caterpillar Channel1) or scan the following QR code using a QR enabled device.

https://channel1.mediaspace.kaltura.com/media/1_u3k4hxgi



Illustration 3

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Grease General Schematic

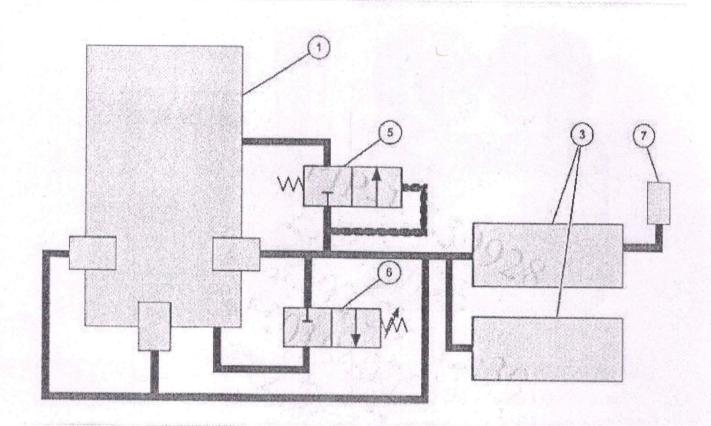


Illustration 4

- (1) Lubrication pump group
- (3) Injectors
- (5) Relief valve
- (6) Vent valve
- (7) Pressure sensor

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Automatic Lubrication System

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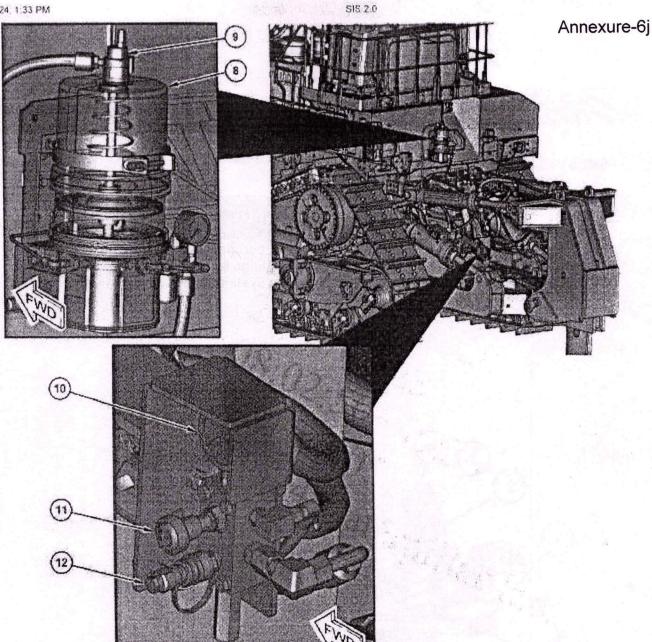


Illustration 5

(8) Grease reservoir

(9) Auto-fill shutoff valve

(10) Fill pressure gauge (11) Pressure relief valve

(12) Ground level grease fill port

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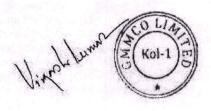
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SMCS - 7540

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WARNING

A pressure hazard is present. Severe personal injury or death can result from removing hoses or fittings that are under pressure. Relieve the pressure in the system before you remove hoses or fittings.

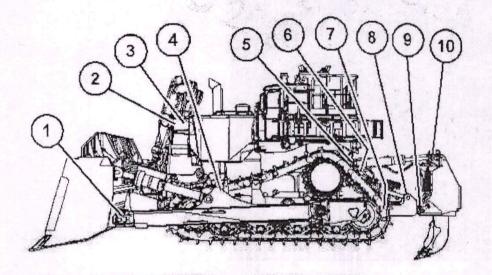


Illustration 1

(1) CarryDozer Pusharm

(2) (3) Lift cylinder yoke, left and right pivot bearings (two locations on each side)

(4) Equalizer bar end pins, left and right (fittings remote mounted on fender) (5) Ripper tilt cylinder, left and right frame pivot bearings (6) Ripper lift cylinder, left and right frame pivot bearings

(7) Ripper frame, left and right pivot bearings

(8) Ripper lift cylinder, left and right pivot bearings

(9) Beam/Carriage, left and right pivot bearings

(10) Ripper tilt cylinder, left and right pivot bearings

1. Remove any buildup of grease at the fitting locations.

2. Initiate a manual or automatic lubrication pumping cycle. While pumping, ensure that each injector pin is being retracted. If a pin is successfully retracted, fresh grease is being delivered to the joint. Check that each pin joint is receiving a fresh supply of grease. Note: It may take more than one manual pumping cycle to review all injector pins.

3. Check the grease level at the top vent port of the reservoir.

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

Reference: Refer to Operation and Maintenance Manual, "Automatic Lubrication GrAnnexure-6j Reservoir - Fill (If Equipped)" for information on filling the reservoir.

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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SMCS - 7540

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The automatic lubrication system is used to lubricate the following components automatically on the D11 Track-Type Tractor::

- · Lift cylinder yoke LH and RH pivot bearings (one on each side)
- · Ripper tilt cylinder, LH, and RH case pivot bearings
- · Ripper lift cylinder, LH, and RH case pivot bearings
- · Ripper frame LH and RH case pivot bearings
- Ripper lift cylinder LH and RH ripper frame pivot bearings
- Ripper frame LH and RH ripper carriage pivot bearings
- Ripper tilt cylinder LH and RH ripper carriage pivot bearings
- · Equalizer bar, LH, and RH end pin bearings

The automatic lubrication system consists of the following systems:

- Electrically driven pump with grease reservoir
- Electrical system consisting of power/control harness
- · Grease lines, distribution blocks, and injectors
- Pump control and fault code integration to Cat software

The electrical drive pump is used to pressurize the lubrication system. The control unit turns the system ON and OFF at periodic intervals.

The grease lines and injectors deliver a predetermined amount of grease to the grease points that is based on an adjustment sleeve at the injector. The pump timing can be adjusted to 30, 45, 60, 75, 90, 105, or 120 minutes.

Location of the Lubrication Points

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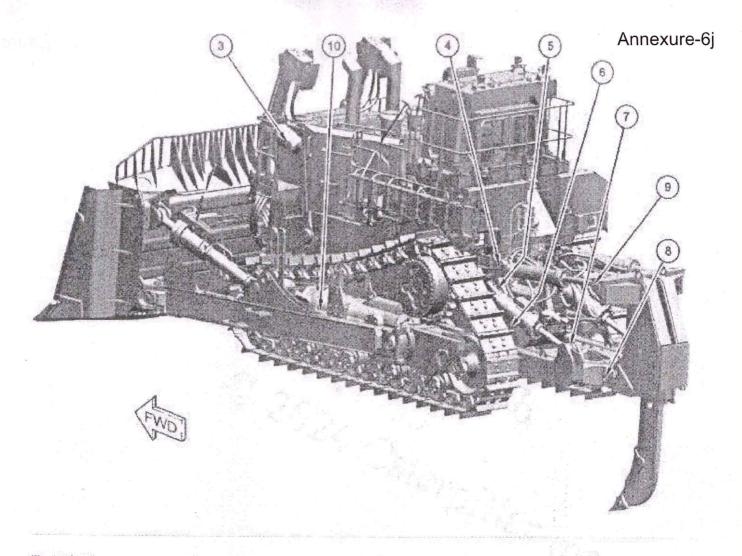


Illustration 1

(3) Lift cylinder yoke LH and RH pivot bearings (one location on each side)

(4) Ripper tilt cylinder LH and RH case pivot bearings

(5) Ripper lift cylinder LH and RH case pivot bearings

(6) Ripper frame LH and RH case pivot bearings

- (7) Ripper lift cylinder LH and RH ripper frame pivot bearings
- (8) Ripper frame LH and RH ripper carriage pivot bearings
- (9) Ripper tilt cylinder LH and RH ripper carriage pivot bearings

(10) Equalizer bar

Table 1

Recommended Lubrication	on for t	he Automatic Lubrication System(1)(2)(3)
Grease	NLGI	Temperature Range (Celsius/Fahrenheit)
Caterpillar Autolube	1	-18° C to 29° C (0° F to 84° F)
Caterpillar Autolube	2	-1° C to 41° C (30° F to 106° F)
Caterpillar Autolube	0	-29° C to 10° C (-20° F to 50° F)
Caterpillar Arctic Platinum	000	-59° C to 4° C (-74° F to 39° F)
Caterpillar Desert Gold	2	4° C to 66° C (39° F to 151° F)

(1) To use a non-Caterpillar lubricant, the supplier must certify that the lubricant is compatible with Caterpillar grease. Otherwise, each pin joint will require flushing with the new lubricant to remove the Caterpillar lubricant. Failure to meet this requirement may lead to failure of a pin joint due to premature breakdown of the lubricant.

(2) The grease that is used with the automatic lubrication system must not contain any graphite or PTFE.

(3) For additional information on the greases in this table, refer to Operation and Maintenance Manual, <u>SEBU6250</u> "Caterpillar Machine Fluids Recommendations".

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Sec-W, Tech Specs, Part D, Clause - D.6

S.No	io Tender Requirements	Comply Yes/No	Remarks
_	The equipment shall be provided with suitable licensed, on-line, real time, monitoring interface facility, compatible for CPS/GPRS-based transfer of equipment performance data (commonly known as HMS) to third party equipment management system.	Yes	
2	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:		
_	i. Working hour, idse hour, based on the duration of a shift for which the equipment is switched on for operation	Yes	To be captured through Mine GPS
-	li. Engine oil pressure & temperature	Yes	
	iii Engine RPM	Yes	
TO AND ADDRESS OF THE PARTY OF	iv. Coolant isvel and temperature	Yes	Available through Coolant Pressure
	v. Fuel level and fuel consumption rate	Yes	
	vi. Hyd. oil temperature & pressure	Yes	Measured through Brake Oil Temperature
	Vri. Engine electrical system - Battery voltage	Yes	alert indicator will be generated in acse of voltage drop
******	viii. Tyre pressure (only for tyre mounted machines)		Not applicable
	ix. Fault codes along with details	Yes	
	x. Transmission/Geer Box vital parameters	Yes	
-	xi. Air/Hydrausic system vital parameters	Yes	
	wii. All drive motors/ Transformer vital parameters	Yes	
	xiii. Other Health monitoring parameters as applicable	Yes	
E.S.	-	Yes	One Worth data can't be stored on Onboard device, a week data can be stored.
	suitable port to download these data to a laptop / data storage system.		
4	Alert audio messages to be given to Dozer Operators for the following events:		
110	a. In the case of operator exceeds pre-defined maximum speed.	NA	Machine will not exceed the one-defined maximum sneed
	b. in the ovent of any equipment traveling in opposite direction falls in line.	Yes	Proximity device will generate input
	c. Fire warning to operator and to control foom in case of catching fire	Yes	Part of AFDSS system
5	4. 4.		
	A. There has to be one integrated single online port for capturing all the viral data.	Yes	Available through telemetry port via third party interface.
	B. The equipment should have a suitable licensed, on line, real time, monitoring interface facility compatible for GPS based transfer of	Yes	NDA need to signed, equipment data as per OEM design will be available.
_	equipment date to third party equipment system. The read in order dependenced will be received in the maintained by the company of the compa	-	
	C. The feat time trace telementy port will be provided in the equapment	Yes	Feenetry Port is available.
	D. All the data shall be available in the individual form through single port and its communication protocol must be as per global standards.	Yes	Available through Telemetry port
	E. There shall be no additional requirement of any data converter for data capturing like Analog to Digital and vice-verse etc.	Yes	No additional equipment needed for data conversion. However customer third party
	F. There shall be integrated on board data management system as explained at point no.3 as above.	Yes	AV8
_	G. The system should have an On Board Display Self-dragnostic & error alarm features	Yes	
_	H; Permission to third party for interfacing, data collection through online port.	Yes	Avail to customer once NDA is signed.
	1. Signing of Non-disclosure agreement to protect intellectual property right on either side.	Yes	NDA form need to be signed by customer and their third party integrator and submit
	 To provide full technical support to third party vendor for interpretation and defining parameters for individual alarm to nomics equipment virtal date. 	Yes	
	K. The HEMM equipment supplier should provide access to data as required by end user without any financial implication to third party	Yes	Based on machine configuration we can provide attached list of parmeters. Third part has to setup their system on machine to transmit data to office using mane network.
φ.	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.	Yes	Once access is enabled on machine telemetry, it will work till the working life of equipment. Parts and service will be on charge after contract duration
-	To ensure the satisfactory operation of above system, a tripartite agreement shall be signed by the user, supplier and the service provider?	Yes	NDA to be signed
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Monitoring System (M0082082-10)

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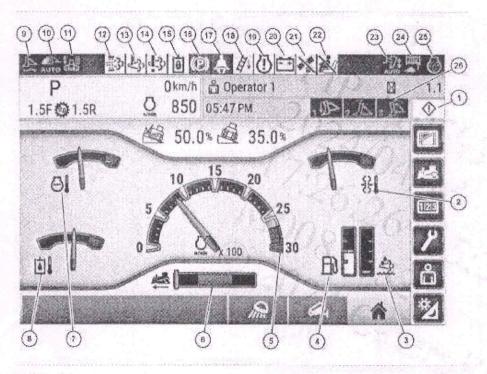


Illustration 1

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The Monitoring System is designed to alert the operator to an immediate problem with any of the machine systems that are monitored. The Monitoring System is also designed to alert the operator to an impending problem with any of the machine systems that are monitored. The monitoring system will also provide the operator with status information.

Action Lamp



Action Lamp (1) - Action lamp (1) is located on the right side of the indicator bar on the primary information display Touching the indicator will bring up a list of active fault codes.

Gauges

Torque Converter Temperature (2) - If the gauge needle reaches the red zone, the oil is 129° C (264° F), increased temperatures will sound the warning alarm. The monitoring system display will display a warning. Continued operation of the machine during sounding of the alarm or the gauge needle in the red zone may damage the power train. Reduce the load that is on the machine until the torque converter oil temperature decreases. The torque converter temperature gauge indicates the maximum temperature of the torque converter outlet and the calculated transmission lube temperature. The red area indicates excessive power train oil temperature.



Not Equipped



Fuel Level (4) - The fuel level gauge indicates the amount of fuel that remains in the fuel tank.

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NOTICE

Running out of fuel can cause engine damage. Do not continue to operate the machine when critically low on fuel.

Engine Speed

NOTICE

Do not exceed 2900 rpm in any situation. Overspeeding when downshifting, going downhill, etc., can result in serious damage to your engine.



Engine Speed (5)

Engine Speed (White zone) - 0 - 2500 RPM

Engine Speed (Yellow zone) - 2500 - 2700 RPM is only a visual caution. This visual indication is a warning that the engine is approaching the maximum recommended speed.

Engine Speed (Red zone) - At 2700 RPM a visual warning alerts the operator that the engine is overspeeding. Both the alert indicator and the action lamp flash.

NOTICE

Overspeeding when downshifting and going downhill can result in serious damage to your engine and power train.

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Work Monitor (6)

Machines that are equipped with either AutoCarry or Auto Ripper control will have a Performance Monitor display in the machine display home screen (bottom, center below the engine tachometer).

The performance monitor displays current machine operating information using a moving indicator. The performance monitor has a green zone that indicates optimum productivity for the machine. Operators can use the performance monitor as an indicator of operating technique to improve productivity.

If the indicator bar is outside the green zone to the right, that indicates the machine is attempting to carry too large a load.

If the indicator bar is outside the green zone to the left, that indicates the machine is attempting to carry too little load.

The performance monitor is only valid when the machine is carrying a load, not during the loading and spreading portions of a work cycle. Loading will typically show too heavy a load, spreading will typically show too light a load.

Engine Coolant Temperature (7) - The water temperature regulator controls the coolant temperatures. If the gauge needle just enters the red zone, the coolant I temperature is 109° C (228° F). Increased temperatures will sound the warning alarm. The monitoring system display will display a warning. Continued operation of the machine during the sounding of the warning alarm or the gauge needle in the red zone may damage the engine. Change operation and allow the engine to cool down in an idle condition before shutting off the engine. Stop the machine in a safe place and investigate the cause.

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Hydraulic Oil Temperature (8) - The gauge indicates the temperature of the hydraulic oil in the hydraulic oil sump for the steering and implement circuits. If the gauge needle enters the red zone, the hydraulic system oil is approaching 95° C (203° F). The monitoring system display will display a warning. If necessary, reduce the load that is on the machine until the hydraulic oil temperature decreases. the hydraulic oil temperature decreases.

Status Indicators



Blade Float (9) - This indicator is illuminated when the blade is



AutoCarry (10) - This status indicator is illuminated green when the AutoCarry function is active and controlling the blade, dark grey when armed, and light grey when active not controlling the blade.



Single Tilt (11) - This status indicator is illuminated when the single tilt system is activated.



Not Equipped (12)



Not Equipped (13) (if Equipped)

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Aftertreatment Regeneration Device Failure (14) (If Equipped) - This status indicator indicates that the aftertreatment regeneration device system filter has failed. If this indicator lights, stop machine operation immediately.



Implement Lockout (15) - This indicator is illuminated when the implement lockout is activated.



Parking Brake (16) - This status indicator indicates that the parking brake is engaged. If this indicator is illuminated, disengage the parking brake before attempting to move the machine.



Seat Belt (17) - This Indicator is illuminated when the seat belt is unbuckled at machine startup.



Ladder Down (18) - This indicator alerts the operator when the ladder is in the DOWN position.



Engine Failure (19) - This indicator is illuminated when the engine operation is malfunctioning severely or engine failure is imminent. Stop the machine immediately,

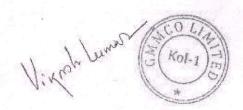


Charging System (20) - This status indicator is illuminated when the battery charging system is not OK.



Signal Lost (GPS) (21) - This indicator is illuminated when the (Global Positioning Satellite (GPS) signal to the machine is lost.

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Operator Not Present (22) - This status indicator is illuminated when the key is "ON" and the operator leaves the seat unoccupied.

When the sensor indicates that an operator is present in the seat, the Machine ECM will enable the operation of the travel system of the machine and the implement control system.

Note: When the machine is moving and the operator raises from the seat, the power train systems and the implement operation will not shutdown until the machine is stopped.

After the machine is stopped, the Machine ECM will again require the sensor to indicate that an operator is in the seat before the travel and implement systems will be enabled.

Note: The brakes will not disengage and the implements will not unlock unless the operator is seated or the brake pedal is depressed.



Auto Ripper Control (23) - This status indicator is illuminated green when the Auto Ripper Control function is active, grey when suspended, and dark grey when selected.



Winch Lock (24A) - This status indicator is illuminated yellow when the winch control lever is disabled.



Winch Low Speed (24B) - This indicator is illuminated green when the winch is locked at low speed.



Engine Prelube (25) - This indicator is illuminated when the engine prelube is active. A Warning banner will also appear in the upper right section of the display.



Auto Blade Assist (ABA) - Load (26A) - The ABA setting indicator will display and illuminate when the ABA setting is

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active. This indicator will illuminate when the Load function is engaged.



Auto Blade Assist (ABA) - Carry (26B) - The ABA setting indicator will display and illuminate when the ABA setting is active. This indicator will illuminate when the Carry function is engaged.



Auto Blade Assist (ABA) - Spread (26C) - The ABA setting indicator will display and illuminate when the ABA setting is active. This indicator will illuminate when the Spread function is engaged.

Primary Display

The Primary Display is a touch screen unit incorporating various machine information systems along with an integrated rear view camera. The screen displays the machine functions on the LCD screen of the primary display. The display receives information from many sources on the machine. The display is located on the front column of the cab.

When the ignition key switch is turned to the ON position, the Primary Display will initialize. The Cat Monitoring System will perform a powerup sequence self test during engine start-up. The powerup sequence will include a functional test of the system. The alert indicators will come on for 3 seconds in order to verify the system. The action alarm will sound until the end of the self test or until the engine is started.

After the primary display initialization is complete and before engine is started, the left side display banner will show the five major fluid compartments on the machine. This system will display the status for the transmission oil, hydraulic oil, engine cil, engine coolant, and pivot shaft oil. The banner provides a green "check mark" if the fluid level is "OK" to start operation and a yellow "exclamation mark" check fluid indicator if the fluid is "LOW". The check fluid indicator aligns with the "Add Fluid" mark in each compartment. If the check fluid indicator is present, verify the fluid level in that compartment using the dipstick or sight gauge and add fluid before starting the engine.

Note: Status is only available at key on and the check is disabled if the machine is immediately started.

At machine start-up, the primary display will show the main menu.

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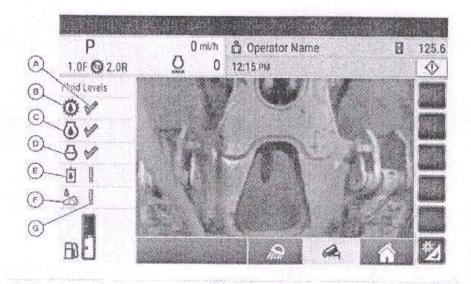


Illustration 2

- (A) Green check mark (B) Transmission Oil

- (C) Engine Citi (D) Engine Coolant (E) Hydraulic Oil (F) Pivot Shaft Oil (G) Yellow Exdanation mark

Green Check Mark (A) - Fluid Level is at an acceptable level to start operation.

Transmission Oil (B) - Transmission oil display icon.

Engine Oil (C) - Engine oil display con

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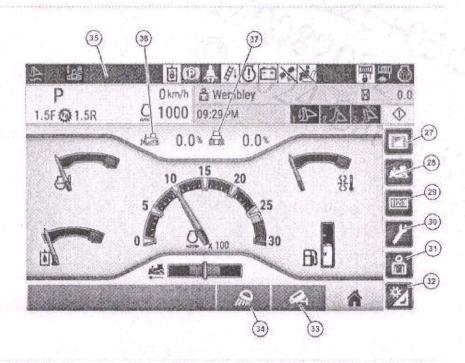
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Engine Coolant (D) - Engine coolant display icon.

Hydraulic Oil (E) - Hydraulic Oil display icon.

Pivot Shaft Oil (F) - Pivot shaft oil display icon.

Yellow Exclamation mark (G) - Check fluid indicator.



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Main Menu

The Main Menu will display the following items:

- (27) Display Press the "Display" button to view and adjust display settings, such as screen brightness and units. The software license information is also viewable.
- (28) Machine Setting Press the "Machine" button to view and adjust machine settings.
- (29) Totals Press the "Totals" button to view lifetime totals.
- (30) Service Press the "Service" button to view and adjust machine diagnostics and calibrations,
- (31) Operator Menu Press the button to view and adjust operator profiles and operator profile settings.
- (32) Display Day/Night Press the button to initiate daytime view, white background with black text, or nighttime view, black background with white text.
- (33) Camera (If Equipped) Press the "Camera" button to turn on the rear vision camera.
- (34) Work Light Menu Press the Work Light Menu Button to open and toggle active day and night work lights.
- (35) Information Banner Displays status indicators based on their current status.
- (36) Machine Mainfall Slope Shows the angle of the machine in upward or downward path.
- (37) Machine Side Slope Shows the side slope angle of the machine.

Scroll Bar - The scroll bar will appear within menu pages. Press the "UP" or "DOWN" button on the scroll bar to navigate up or down within the window.

The operator display and cab lights will change the backlight mode based on the external lighting status. When any of the headlights, marker lights, work lights, or long-distance lights are on, the display and cab lights will enter night mode. When all of these lights are off, the display https://esi2.cat.com/#iprint-previewiserycard9c7c46e-cc2e-49t/-b603-b747e/9ca3e9

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and cab lights will change to day mode.

Touch the screen buttons in order to select the desired option. Navigate through the menus and submenus.

Most screens following the main screen will display navigation buttons on the right side of the screen.



Illustration 4

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The Main Menu can be displayed from any screen by pressing the Home icon in the lower right corner.

Display Settings

The Display Settings screen allows the operator to view or modify various display settings.

- Language
- Brightness
- * Units
- · Clock Set
- Auto Night Mode
- · Software License Information

Machine Settings

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Machine Settings - The screen allows the operator to modify various machine operation settings.

- · Auto Down Shift
- · Speed Select
- · Custom Bi-Directional
- · Blade Float
- · Blade Response
- · Blade Tilt
- · Blade Quick Drop
- Auto Blade Assist
- · Auto Carry Load Factor
- Ripper Auto Stow
- Auto Ripper Load Factor
- · Auto Rip Shank In
- Automatic Ripper Control Floor Enable

Additional setting option menus may be available if certain features are installed on the machine.

Speed Select

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Speed Select - The Speed Select function allows for Partial Gears. This is a powertrain feature that will automatically control engine speed to provide partial gears for improved machine speed control. The number of gears can be selected in the Primary Display.

This menu can be seen by navigating to the following menu:

- · Machine Settings
- Speed Select

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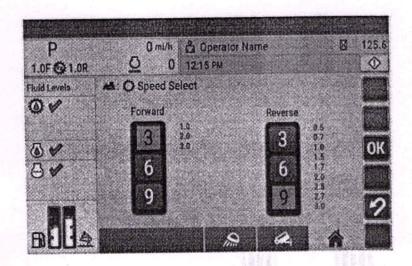


Illustration 5

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Speed select offers three seltings for both FORWARD and REVERSE, independently, Speed Select functions with both Manual and Enhanced Auto Shift modes.

Table 1

Option	Gears		
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6	.5, 1, 1.5, 2, 2.5, 3		

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Lifetime



Lifetime Totals - The lifetime totals display the total information over the life of the machine.

Service



Service Screen - The Service screen allows the operator or service technician to change more advanced machine configurations or perform various calibrations. Some screens in the Service Menu are password protected for the service technician.

Consult your Cat dealer for information about the service menu options,

The Service Menu is arranged in Seven different areas:

- Diagnostics
- Parameters
- Service Test
- ECM Summary
- · Service Mode

Diagnostics

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Diagnostics menu - The Diagnostics menu option provides the operator or technician a list of any active or logged diagnostic codes or events that have occurred on the machine.

To view additional details of a particular code, use the up or down arrows at the top of the screen to highlight the desired code then select "OK".

Parameters



Parameters Screen - The Parameters screen allows the operator or technician to perform the real-time monitoring of electrical components in the major systems. The menu organizes the systems into the following categories:

- · Machine
- Fluid Monitor
- Engine
- · Powertrain
- · Steering
- * Braking
- · Primary Implement
- Rear Implement
- · Temp (Temperature) Control
- Remote Control

Depending on what features have been installed, additional parameter menus may be available.

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Service Test



Service Test - The service test menu allows you to perform a dead engine steering calibration.

ECM Summary



ECM Summary - The ECM Summary menu allows the operator or technician to view the ECM information. Software and hardware information is provided for the various electronic control modules installed on the machine.

Service Mode



Service Mode - The service mode option allows the operator or technician to enable password protected calibrations.

Functional Test

WARNING

If the action alarm does not sound during this test or machine monitoring displays are not functioning, do not operate the machine until the cause has been corrected. Machine operation with faulty action alarms or displays could result in injury or death as any Warning Category 3 notifications will not be relayed to the operator.

To ensure the proper operation of the Caterpillar Monitoring System, check the system daily.

The battery disconnect switch must be in the ON position.

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When you turn the engine start switch from the OFF position to the ON position, the Caterpillar Monitoring System will perform an automatic self-diagnostic test.

The self-diagnostic test verifies that the outputs (gauges, afert indicators, and alarms) are operating correctly.

When you turn the engine start switch to the ON position, the following systems are tested for approximately one second: alert indicators, gauges and LCD display.

The gauges must go to the far right positions. All alert indicators must come on momentarily. All segments of the LCD display must come on momentarily. The action alarm must sound.

Warning Categories

The Monitoring System provides three warning categories. The first warning category requires only operator awareness. The second warning category requires a change to machine operation or the performance of maintenance to the system. The third warning category requires immediate shutdown of the machine

Warning Category 1

In this category, only the alert indicator comes on. This category alerts the operator that the machine system needs attention.

Warning Category 2

In this category, the alert indicator and the action light come on. This category requires a change in machine operation. The display will display a message. If action is required, an instruction will be listed.

Warning Category 2S

In this category, the alert indicator and the action light come on and the action alarm sounds at a steady rate. This category requires an immediate change in machine operation. The display will display a message. If action is required, the instruction will be listed.

Warning Category 3

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In this category, the alert indicator and the action light come on and the action alarm sounds at a pulse rate. This category requires immediate shutdown of the machine in order to prevent injury or death. This category requires immediate shutdown of the machine in order to prevent severe damage to the machine. The display will display a message. If action is required, the instruction will be listed,

Note: Do not operate the machine if the Monitoring System is not working or if the Monitoring System falls the self-diagnostic test at start-up. Stop the machine immediately if the following conditions occur:

- · The alert indicator turns on.
- · The action light indicator is flashing amber.
- . The action alarm sounds at a pulse rate.
- The LCD Display is blank.

Engage the parking brake and stop the engine. Investigate the cause of the problem,

Do not operate the machine until the cause of the problem has been corrected.

Run Time Information Window

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Page 185 of 227

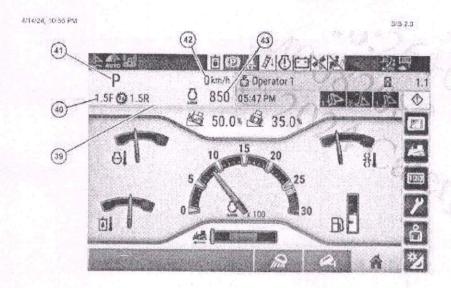


Illustration 6

(42) Run Time Information Window (40) Bi-Directional Shift Icon and Gear Settings (41) Actual Gear Setting and Directional Reading (42) Track Speed Reading

(43) Digital Engine Speed Tachometer

The Run Time Information Window shows the operator critical machine data in a digital format. These readings allow the operator to view real time machine health, displaying information for the following parameters.

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Bi-Directional Shift Icon and Gear Settings

The Bi-Directional Shift Icon shows the operator that the Bi-Directional Shift Mode is active. The gear settings are listed below.

First Gear Forward (1F)

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- Second Gear Forward (2F)
- Third Gear Forward (3F)
- First Gear Reverse (1R)
- Second Gear Reverse (2R)
- . Third Gear Reverse (3R)

Actual Gear Setting and Direction Reading

The Actual Gear Setting and Direction Reading shows the operator what gear the machine is currently set to. The gear settings are listed below/

- Park
- First Gear Forward (1F)
- Second Gear Forward (2F)
- Third Gear Forward (3F)
- Neutral (N)
- First Gear Reverse (1R)
- Second Gear Reverse (2R)
- Third Gear Reverse (3R)

Note: For more information, refer to the following section of this manual:

Machine > Transmission > Initial Gear

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Track Speed Reading

The Track Speed Reading shows the operator the track speed in the following units

- Kilometers per Hour (kph) (Metric)
- · Miles per Hour (mph) (English)

Note: The units of the Track Speed Reading can be changed between Metric and English. For more information refer to the following section in this manual.

· Display > Units

Digital Engine Speed Tachometer

The Digital Engine Speed Tachometer displays the engine rpm during machine operation. The reading coincides with the reading shown on the Analog Tachometer Gauge.

Note: For more information, refer to the following section in this manual

Analog Tachometer Gauge

Display Case Warning Indicators

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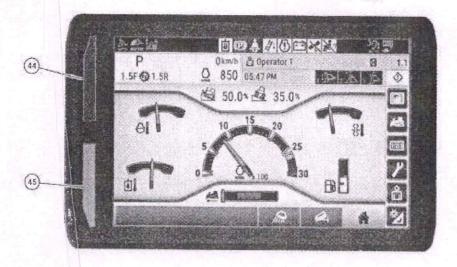


Illustration 7

(44) Top Werning Indicator (Level 3, Red)

(45) Boltom Warning Indicator (Level 2, Amber)

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The display case will feature two indicators on the left side of the display case. The Level 3 (Red) indicator is at the top, the Level 2 (Amber). indicator is at the bottom.

When a Level 2 warning appears in the message window, the bottom warning indicator will light up amber. The indicator will remain until the cause of the warning has been rectified.

When a Level 3 warning appears in the message window, the top warning indicator will light up red. The indicator will flash three (3) times as well as audibly beeping three (3) times. The indicator will remain until the cause of the warning has been rectified.

Note: For more information, refer to the following section in the manual: M0095377 Systems Operation, Testing and Adjusting.

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Page 189 of 227

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Message Window

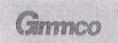
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Gmmco Limited

CK Birla Group 11" Floor, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal.

Sec-VI, Tech Specs, Part D, Clause - D.8

GMMCO/CIL/850HP Dozer/24-25

Date: 22-07-2024

The General Manager (MM)
Coal India Limited
Coal Bhawan
Premises No. 4, Action Area 1A,
New Town, Rajarhat,
Kolkata – 700156

Dear Sir.

SUB: Expected life of Major Assemblies

REF: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

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EQUIPMENT MAJOR ASSEMBLIES	MAJOR ASSEMBLIES	EXPECTED LIFE* (in Hours)
	Main Frame	20000-40000
	Engine	10000-25000
Caterpillar D11	Transmission/Torque Convertor	10000 - 25000
(850 HP Crawler Dozer)	Electrical system	6000-25000
	Final Drive (excluding sprocket) & steering system	6000-25000
	Under Carriage - Track chain, Roller, Idlers & sprocket Teeth	4500-8000

Expected Overall means Life before first overhaul. Minor repairs/components replacement will be carried out as applicable to achieve expected life as indicated above.

Thanking You. Yours Sincerely

For GMMCO LIMITED

Vikash Kumar General Manager

A. Server

: (43) 3918 1700 To 12 Fax: (033) 3918 1706 E mail: contactus@gmmcoindia.com Website: www.gmmco.in

(Registered office: 9/1, R.N Mukherjee Road, Kolksta 700 001)

CIN U35202WB1966PLC026980

CIL/C2D/Crawler Dozer/R-453/301 dated 01.09.2025

Page 191 of 227



MMCO LTD		SEC-VI,PART-D,CLAUSE-D.9.1.b			
Tender No: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024					
Si No	Part No	Description	Required Quantit		
1	D11 TOOL KIT	COMPREHENSIVE TOOCL KIT	1		

		Clause D.9.1 General (b
	Tender No.	
Details Of	Standard Tool included in Tool Kit with Part- N	No D11TOOLKIT are follows
SI, No.	Description	Qly
1	Slide Wrench	†
2	Cutting Plier	1
3	Double End Spanner	13
4	Extension Rod 8" LongX1" Drive	1
5	Feeler Guage	4
6	Hammer (0.6 Kg)	<u> </u>
7	RATCHET	3
8.	RING SPANNER	12
9	Screw Driver	3
10	Socket 1" SQ	1
311	Socket 1/2" SQ	14
12	Socket 3/4" SQ	3
13	Socket 1" SQ - Heavy Duty 7/8"	1
14	Filter Wrench	. 1
15	Tool Box With Lock	1

Thanking You,

Yours faithfully For GMMCC Limited

Vikash Kumar General Manager

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	e	GMMCOLTD	Sec-VI, Tech Specs, Part D, Clai	Part D, Clas
	Tender No.	Tender No. CIL/C2Di850HP Dozers/R-153/24-25/395 Dated 12.06,2024	35 Dated 12.06.2024	
		D11 TOOL KIT WITH EACH MACH		
Si. No.	Part No.	Description	Required Quantity	000000000000000000000000000000000000000
****	D1 T00L KT	COMPREHENSIVE TOOL KIT		-

SI. No.	Part No.	Description	With Charles
-	1516320	WIRE REMOVAL TOOL	
2	1957970	WIRE REMOVAL TOOL	
3	879208	PROBE ASSEMBLY	
4	W4776	LAPTOP	*
rD.	5385051	ADAPTORGP	*

1 no. laptop for a fleet upto 5 equipment or part thereof, for each project will be provided.

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For GMMCO LTD,

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Gmmco Limited

CK Birla Group 11" Floor, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal,

Sec-VI, Tech Specs, Part D, Clause - D.9.1 General (c)

GMMCO/CIL/850HP Dozer/24-25

Date: 22-07--2024

The General Manager (MM) Coal India Limited Coal Bhawan Premises No. 4, Action Area 1A, New Town, Rajarhat, Kolkata - 700156

Dear Sir,

SUB-

DETAILS OF ERECTION PROGRAM

REF:

Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

SI. No.	TASK	DAYS
1,	Assembling of Undercarriage	8
2.	Mounting of cab and connection installation	7
3.	Installation of Blade	7
4.	Installation of Ripper	4
5.	Installation of AFDSS, Reverse Alarm, Fire Extinguisher, Rear	
6.	Checking of torque, testing and Inspection and final handover.	2

Total Number Of days for Erection & commissioning of the equipment: 30 days.

For GMMCO Limited

Vikash Kumar General Manager

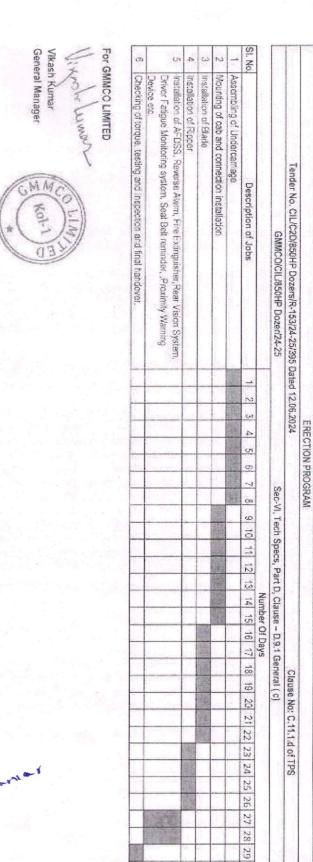
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Phote: (033) 3918 1700 To 12 Fax: (033) 3918 1706 E-mail: contactus@gmmcoindia.com Website: www.gmmco [Registered office: 9/1, R.N Mukhenee Road, Kalkata 700 001)

CIN U35202WB1968PLC026980

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025



Sec-VI, Tech Specs, Part D, Clause- 9.2.i of NIT

Ref: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

Detailed technical descriptions and specifications of the dozer.

1 Engine:

The dozer is powered by a direct injection 4-stroke turbo charged diesel engine of net power 634 kW measured at 1800 rpm according to IS/ISO 9249.

The engine is 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 has a water jacket cooling system, thermo-statically controlled, using an engine driven water pump, with the cooling water recirculated through a heavy-duty radiator. The system is capable of providing sufficient cooling to allow the dozer to continuously operate at full rated output at the maximum ambient temperature.

The radiator cap is fastened with body with the help of suitable chain/locking arrangement. The moving parts of the engine is lubricated by an engine driven oil pump with full flow oil filtration and cooling. The engine is provided with a heavy-duty pan guard as per manufacturer design.

The engine is fuel efficient having fully integrated electronically controlled monitoring system & real-time self-diagnostic features with built in protections. The Engine electronic control module is fully integrated with all systems of power train for all operating conditions and capable to monitor operator's and sensors inputs for optimum engine performance & reduced emissions level. All engine vital parameter data are integrated with On Board Display (OBD) system of operator's cabin. The engine is environment friendly and complies to EPA Tier–II certification standard. Self-Certificate

The engine is environment friendly and complies to EPA Tier–II certification standard. Self-Certificat from OEM/Engine Manufacturer for EPA Tire-II or equivalent is enclosed.

A suitable electronic tool (laptop) loaded with compatible software and all related accessories is provided project wise (1 no. laptop for a fleet of 5 nos. or part thereof) 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. Readable reports downloaded from each Equipment will be provided, Compatible Software loaded in electronic tool (Laptop) is warranted for entire contract period.

2 Drive System:

Power transmission from the engine to the crawler drive sprocket is through conventional means i.e. torque flow transmission, differential, final drive, steering and brakes. A dynamically balance propel shaft with universal joints at both ends is utilized for transmission of power. Adequate means are provided to prevent damage to other components in the event of failure of universal joints.

Conventional Drive System: Followings are provided in the offered equipment:

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3 Transmission:

Equipment is fitted with Torque-flow transmission consisting of single stage torque converter (Stator Clutch Torque Divider), planetary gear drives and hydraulically operated multiple disc type clutches equipped with suitable valves for developing

3 forward speed and 3 reverse speed.

Heavy-duty removable belly guard, is designed such that it does not allow accumulation of dirt.

4 Differential:

Equipment is fitted with Planetary Model, Heavy-duty differential with high quality spiral bevel gear and pinions.

5 Final Drive:

Equipment is fitted with Double reduction planetary gear system from differential to drive axle.

6 Steering:

Independent track steering by means of hydraulically actuated oil cooled multiple disc steering clutches and brakes are provided. These are held in engagement by springs and disengaged hydraulically.

7 Hoses:

The offered equipment is fitted with 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 are of fire resistant /fire retarder type.

8 Undercarriage:

The undercarriage is heavy duty rugged designed suitably, suspended with oscillating type equalizer bar and pivot shaft to reduce shock loads transmitted to the dozer. Track frames and load rollers are of sufficient strength to withstand the high loads, which may occur due to uneven ground conditions. They are welded construction and stress relived as required. The sprocket is segmented bolt-on type. Lifetime lubricated idler and rollers, and a reliable track tensioning arrangement are provided. Extreme service single grouser shoes of 710 mm width is provided.

9 Dozer Attachment:

The Dozer is fitted with hydraulically controlled Semi –U Tilt dozer attachment.

The dozer blade is heavy-duty type with steel wear plates and heavy-duty end bits. Heavy duty hardened steel wear resistant cutting edges, which comply with ISO 7129 is provided.

10 Fuel tank:

The fuel tank has sufficient capacity for 16 hours operation without refuelling, and is provided with a level indicator and a lockable-hinged cap. Construction of the tank is such that it provides for easy accumulation and drainage of water with minimum loss of fuel. Fuel Tank is provided with Fast Fill System also.

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11 Operator's Station:

A suitable Operator's Station is 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.

11.1 Operator's Cabin:

A fully insulated, high-visibility, rigidly mounted, sound-suppressed, vibration-suppressed, air conditioned, operator's cab with tinted safety glass is so positioned to facilitate a clear and unrestricted view of the travel & work areas of the machine necessary for its intended use. The performance criteria is in accordance with IS/ISO 5006. The sound level inside the cab is below 85 dB while the equipment is operating, and with the door closed. All operating controls, all monitoring, working signals and emergency switch to stop the engine is conveniently located in consoles within easy reach of the operator and shall 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 shall be 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 is 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 nammer, immediately accessible to the operator, is provided and stored in the cab. When the window panel is used as an emergency exit, it bears 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 is easily accessible. Pipes and hoses that contain fluids at pressures exceeding 5MPa or temperatures above 60°C located inside the cab is suitably guarded.

11.2 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 is in accordance with IS/ISO 3449.

11.3 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 are so designed to reduce vibration transmitted to the operator to the lowest level that can be reasonably achieved. 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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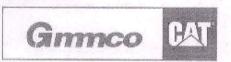
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11.4 Operator's Controls and Indicators:

The controls have 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 are laid out and designed to allow easy and safe operation based on the principle that a given direction m 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 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 areliether be self-acting or 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.

11.5 Starting and Stopping System:

Dozer is equipped with a starting and stopping device (e.g. key). The starting system has provision for protection against unauthorized use. The starting and Stopping system are designed such that movement of the machine, is not possible, while starting or stopping the engine, without activating the controls. (E.g. Transmission Neutral-Engine Start safety arrangement.)

12 Gauges and indicators/ Electronic Display:

The following are provided:

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

13 Warning Alarms / Lights/Indicator:

The following warning alarms are provided:

- a. Coolant level and temperature
- b. Engine oil pressure
- c. Converter oil temperature
- d. Front warning horn
- e. Reversing -DGMS complied Audio Visual Alarm.
- f. Warning alarms in case of failure of automatic lubrication system.

14 Engine Electrical System:

The dozer is provided with the following:

- a. 24V DC electrical system with suitable rated alternator of CAT make
- b. 24 V Electrical starter motor of CAT make
- c. High capacity maintenance free batteries of CAT make.
- d. Battery isolation switch / Relay

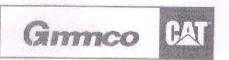
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15 Lighting:

Adequate lighting is provided for safe nightshift operation. The lighting system includes the following:

a, 4 nos. LED headlights

b. 2 nos. rear working LED lights

c. 4 nos. ROPS mounted working lights (2-front and 2-rear)

Kol-1

d. Cabin dome light

Headlights and rear working lights are identical in type and size and fitted in protective enclosures.

16 Guards and shields:

Adequate guards and shields, which comply with IS/ISO 3457, are provided throughout the dozer.

For GMMCO LIMITED

Vikash Kumar General Manager

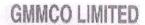
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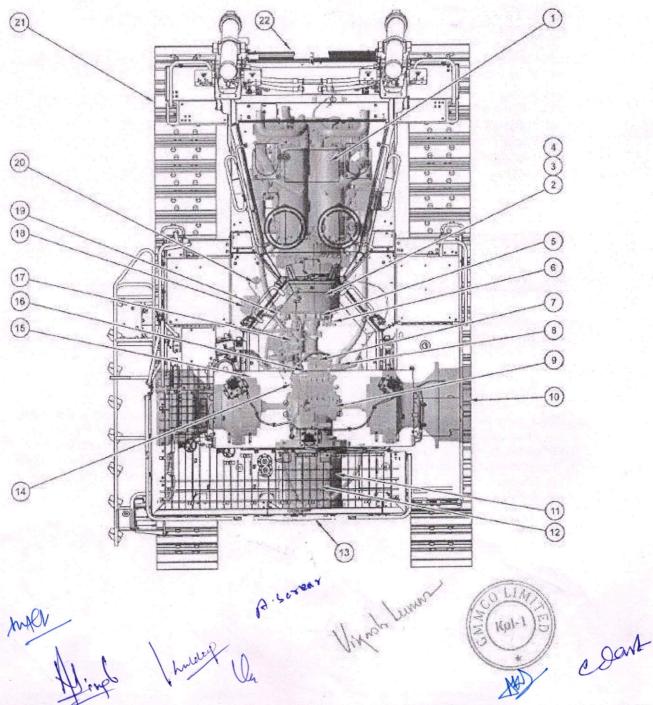


GMMCO/CIL/850HP Dozer/24-25

Clause No- D.9.2.ii of NIT

Ref: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

Layout drawings and detailed descriptions of all machinery including method of power transmission, mounting details and method of alignment of Caterpillar D11 Dozer



CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

Page 201 of 227

GMMCO LIMITED



- (1) Diesel engine
- (2) Service brake pedal
- (3) Decelerator pedal
- (4) Rotary speed sensor
- (5) Torque converter housing
- (6) Torque converter outlet relief valve
- (8) Inlet relief valve
- (9) Bevel gears (Differential)
- (10) Final drive (Steering and Brake are marked as "A")
- (11) Transmission
- (12) Transmission hydraulic control valve
- (13) Pin puller (if equipped)
- (14) Steering clutch and brake control valve
- (15) Service brake
- (16) Power train ECM
- (17) Power train oil pump
- (18) Power train oil filter
- (19) Torque converter outlet relief valve
- (20) Kidney loop filter
- (21) Tracks
- (22) Power train oil cooler

Method of power Transmission - Engine to Crawler Drive Sprocket

ENGINE TORQUE	CONVERTER DRIVE SHAFT TRANSMISSION
DIFFERENTIAL	STEERING & BRAKE FINAL DRIVEDRIVE SPROCKET
TRACK GROUP	

The Power Available at Engine Fly wheel is transferred to Track groups as follows:

The torque converter connects the engine to the planetary transmission through the main drive shaft. The torque converter uses oil to multiply the torque to the transmission. Power from the transmission cutput shaft goes to Differential (bevel & transfer gears). Power from the differential bevel gear goes to inner axle shafts. The power then goes to the steering clutches and brakes, The steering clutches and brakes are modules that transfer power from the bevel gear to the final drives. Drive sprockets are connected to the Final drives which in turn powers the Track Groups.

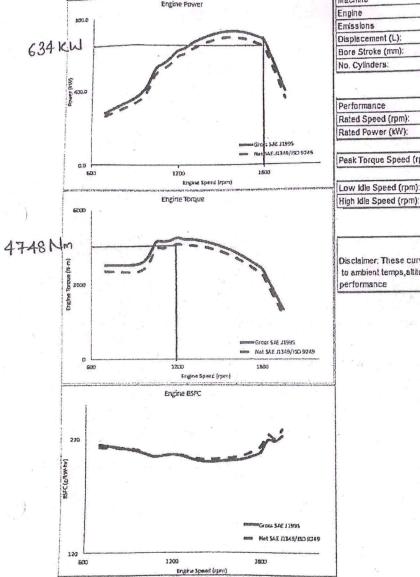
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CATERPILLAR



Machine	D11 Tier 2 Equivalent	
Engine	C32	
Emissions	US EPA Tier 2	
Displacement (L):	32.1	
Bore Stroke (mm):	162	
No. Cylinders:	12	

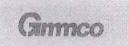
Rated Speed (rpm):	1800	1800
Rated Power (kW):	670	634
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Peak Torque Speed (rpm):	1200	1200
Low kile Speed (rpm):	700	700
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Disclaimer: These curves represent nominal values, under normal conditions. Changes to ambient temps, altitude, fuel quality and other conditions will affect engine performance







Gmmco Limited

CK Birle Group 11th Floor, Birle Building, 9/1, B. N. Mukhense Boad, Kolkera 700 001 West Bengal.

Sec- VI, Tech Specs, Part- D, Clause- D.9.2.iv of NIT

GMMCO/CIL/850HP Dozer/24-25

Date: 22-07-2024

The General Manager (MM)
Coal India Limited
Coal Bhawan
Premises No. 4, Action Area 1A,
New Town, Rajarhat,
Kolkata – 700156

Dear Sir,

SUB- Maximum Travel Speed

REF: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

Maximum Travel Speed according to ISO 6014 = 14.7 km/hr

Thanking You,

Yours Sincerely,

For GMMCO LIMITED

Vikash Kumar General Manager

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Phone: 1033/ 3918 1700 To 12 Fax: (033/ 3918 1706 E-mail: contactus@gmmcoindia.com Website: www.gmaco.in

(Registered office: 9/1, R.N. Mukherjee Road, Kolkata 700 001)

CIN U35202WB1966PLC026980

cont

GMMCOLTD

Sec-VI, Tech Specs, Part D, Clause- D.9.2 (v) of NIT

D11 SU Blade Volumetric Rating as per ISO 9246

Definitions:

Vu - Capacity of Semi-U Portion of the Blade

V₅ - Capacity of Straight Blade

H - Blade Height

W - Blade Width (without end bits)

Wing Length measure parallel to the blade width @ ground length of cutting edge

A - Wing Angle

Blade Height	8lade Width	Wing Length	Wing Angle	Projected Frontal Area (Rock Guard Excluded)
2.33 m	5.466 m	0.602 m	25 degree	12.736 m ²

 $V_{\lambda} = 0.8 \times W \times H^{\lambda}$

 $= 0.8 \times 5.466 \times 2.33^{2}$

 $= 23.74 \, \text{m}^2$

 $V_{u} = Z \times H \times (W-Z) \times \tan \alpha$

0.602 x 2.33 x (5.466 - 0.602) x tan 25

3.181 m³

 V_1 = 3.181 + 23.7 = 26.92 m³

The Capacity of SU Blade is the volume carried by a Straight Blade of the same dimensions plus the volume included in the Cups of the SU Blade. It is intended for relative comparison of Dozer sizes and not for predicting capacities or productivities in actual field conditions.

For GMMCO LTD.

Vikash Rumar General Manager ON THE PARTY OF TH

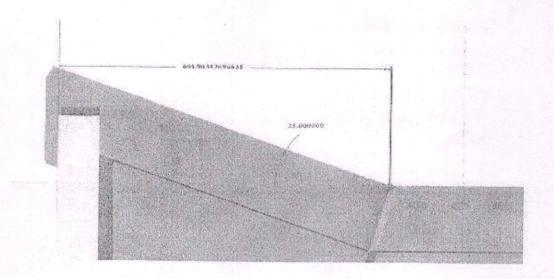
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Sec-VI, Tech Specs, Part D, Clause- D.9.2 (v) of NIT



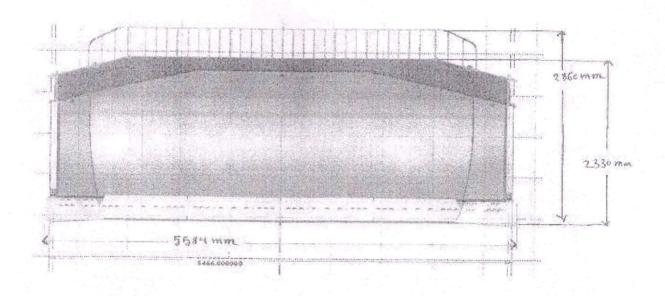
Wing Angle = 25 degree and Wing length = 601.98 mm

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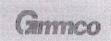


Blade Width

For GMMCO LTD,

Vikash Kumar General Manager

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Gmmco Limited

CK Birla Group 11th Floor, Birla Building, 9/1, R. N. Mukherjae Poad, Kolkata - 700 001 West Bengal,

Clause-D.9.2 (v), Technical Details, Section VI, Technical Specifications

GMMCO/CIL/850HP Dozer/24-25

Date: 22-07-2024

The General Manager (MM)
Coal India Limited
Coal Bhawan
Premises No. 4, Action Area 1A,
New Town, Rajarhat,
Kolkata – 700156

Dear Sir.

SUB- Volumetric rating of the blade

REF: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

We reconfirm that Volumetric Capacity of the Blade submitted along with bid is for offered equipment:

1a. Blade Width: Including End Bits - 5584 mm

1b. Blade width - Excluding End Bits- 5466 mm

2a. Blade Height - Including Guard Protection - 2866 mm

2b. Blade Height- Excluding Guard Protection - 2330 mm

Volumetric capacity calculation is enclosed with above referred dimensions indicated.

Yours Sincerely,

For GMMCO LIMITED

Vikash Kumar General Manager

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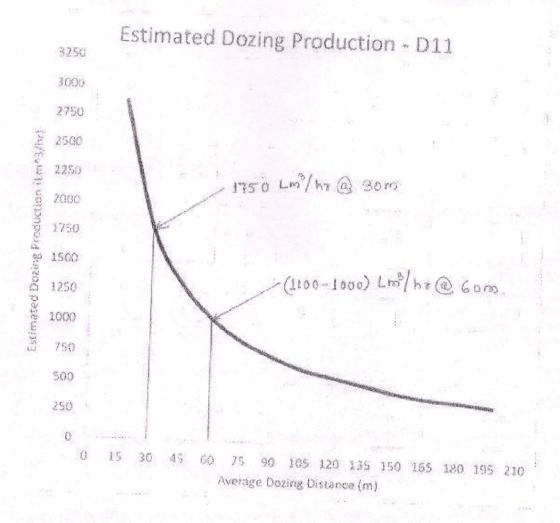
A. Serva.

Phone: (U33) 3918 1700 To 12 Fax: (033) 3918 1706 E mail: contactus@gmmcoindia.com Website; www.gmmco.in

(Registered office: 9/1, R.N. Mukherjee Road, Kolkata 700 001) CIN U35202W81966PLC026980

CIL/C2D/Crawler Dozer/R1153/301 dated 01.09.2025

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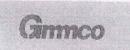


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Gmmco Limited

CK Birla Group 11⁶ Floor, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal.

Sec-VI, Tech Specs, Part D, Clause - 9.2.ix

Ref: GMMCO/850 HP Dozer/24-25

Date: 22-07-2024

To General Manager(MM) Coal India Limited Coal Bhawan Premises No. 4, Action Area 1A, New Town, Rajarhat, Kolkata -- 700156

Dear Sir,

Sub: Comprehensive commercial literature compliance

Ref: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

We hereby certify that the Comprehensive commercial literature specifications submitted by us is compliant with IS/ISO 6747.

Thanking You

Yours faithfully For GMMCO Limited

Vikash Kumar General Manager Kol-1 S

B.36-186-7

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Phone: (033) 3918 1700 To 12 Fax: (033) 3918 1706 E-mail: contactus@gromcuindia.com Website: www.gromco.in

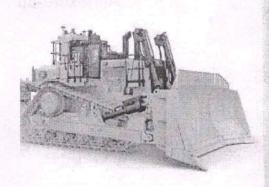
(Registered office: 9/1, P.N Mukherjee Fload, Kolkata 700 001)

SIN 1/35202WB1966PLC026980

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Page 210 of 227



D11 Dozer

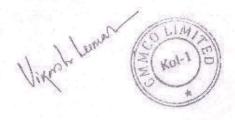
Technical Specifications

Engine Model	Cat* C32	
Bore	145 mm	5.7 in
Stroke	162 mm	6,4 in
Displacement	32.1 L	1,959 in
Engine Power		
Gross SAE J1995*		
Forward	670 kW	899 hp
Reverse	757 kW	1015 hp
ISO 14396		
Forward	657.kW	- 882 hp
Reverse	744 kW	998 hp
Net SAE J1349/ISO 9249		
Forward	634 kW	850 hp
Reverse	714 kW	957 hp

		V
Engine Model	Cat C32	
Bore	145 mm	5.7 in
Stroke	162 mm	6.4 in
Displacement	32.1 L	1,959 in ¹
Engine Power		
Gross SAE J1995*		
Forward	670 kW	899 hp
Reverse	757 kW	1015 hp
ISO 14396		
Forward	658 kW	882 hp
Reverse	745 kW	999 hp
Net SAE J1349/ISO 9249		
Forward	634 kW	850 hp
Reverse	712 kW	955 hp

Engine ratings apply at 1,800 rpm.

[·] Net power advertised is the power available at the flywheel when the engine is equipped with air cleaner, muffler, alternator, fan, and engine emissions controls as required.



^{*} Excludes all fan losses.

Fluid Capacities		
Fuel Tank Total Volume	1895 1.	500 gal
Fuel Tank Usable Volume	1800 L	475 gal
Cooling System Refdl – Tier 4 Final Engine	177 L	46.8 gal
Cooling System Refill – Tier 2 Equivalent Engine	158 L	41.7 gal
Engine Crankcase Sump	133 L	35.1 gal
Power Train - Total Volume	454 L	120 gal
Power Train - Refill Volume	391 L	103,3 gal
Final Drives (each)	47 L	12.4 gal
Track Roller Frames (each)	94 L	24.8 gal
Pivot Shaft Oil	104 L	27.5 gal
Hydraulie System Tank Only	160 L	42.2 gal
Hydraulie System Tank and Chassis	245 L	64.7 gal
Hydraulic System Chassis + Blade and Ripper (Standard)	445 L	117.6 gal
Hydraulic System Chassis + Blade and Ripper (Carrydozer)	540 L	143.4 gal

Weights		222 222 1
Operating Weight	104 236 kg	229,800 15
Shipping Weight	39 100 kg	86,2001b
Operating Weight - CD	113 700 kg	250,665 lb
Shipping Weight - CD	39 200 kg	86,420 lb

- D11 Operating Weight: Includes blade tilt cylinders, coolant, lubricants, full fuel tank, ROPS, FOPS cab, 11U ABR buildozet, single-shank ripper with pin-puller, fast fuel, 710 mm (28 in) ES shoes and operator.
- D1) Shipping Weight: Base machine chassis with cab and pivot shaft. Doesn't include ROPS, ripper, blade, track or roller frames.
- D11 CD Operating Weight: Includes lubricant, coolant, full fuel tank, 915 mm (36 in) extreme service shoes, D11 Carrydozer, single-shank ripper and operator.
- D11 CD Shipping Weight: Base machine chassis with cab and pivot shaft. Doesn't include ROPS, ripper, blade, track or roller frames.

Hydraulic Controls		
Ритр Туре	Variable disp piston pump	
Combined Pump Output (Implement)	670 L/min	177 gaVmin
Tilt Flow	260 L/min	68 gal/min
Dozer Relief Valve Setting	28 500 kPa	4,130 psi
Tilt Cylinder Relief Valve Setting	26 700 kPa	3,870 psi
Ripper (Lift) Relief Valve Setting	28 500 kPa	4,130 psi
Ripper (Pitch) Relief Valve Setting	28 500 kPa	4,130 psi
Cylinder Sizing	Bore	
Blade Lift	170 mm	6.7 in
Blade Tilt (Standard)	254 mm	10 in
Blade Tilt (Extended Pitch) Left	279.6 mm	11 in
Blade Tilt (Extended Pitch) Right	254 mm	10 în
Blade Tilt (Carrydozer) Left	279.6 mm	11 in
Blade Tilt (Carrydozer) Right	254 mm	10 in
Ripper Shank Lift	235 mm	9.3 in
Ripper Shank Angle	180 mm	7.1 in
Cylinder Sizing	Stroke	
Blade Lift	1760 mm	69.3 in
Blade Tilt (Standard)	285.5 mm	11.2 in
Blade Tilt (Extended Pitch) Left	400 mm	15.7 in
Blade Tilt (Extended Pitch) Right	400 mm	15.7 in:
Blade Tilt (Carrydozer) Leit	1200 mm	47.2 in
Blade Tilt (Carrydozer) Right	1152 mm	45.4 in
Ripper Shank Lift	615 mm	24.2 in
Ripper Shank Angle	830 mm	32.7 in

- Pump output measured at 1,800 engine rpm and 6895 kPa
 (1,000 psi)
- Electro-hydraulic pilot valves assist operations of ripper and dozer controls.



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Undercarriage		
Shoc Type	Extreme Sc	rvice
Width of Shoe	710 mm	28 in
Width of Shoe - CD	915 mm	36 in
Shoes/Side	41	
Grouser Height	102 mm	4 in
Pitch	318 mm	12.5 in
Ground Clearance*	777 mm	30.6 in
Track Gauge	2896 mm	114 in
Length of Track on Ground	4444 mm	175 in
Ground Contact Area	6.3 m ²	9,781 ln ²
Ground Contact Area - CD	8.1 m ²	12,605 in ²
Track Rollers/Side	3.8	
Number of Carrier Rollers	1 per side (optional)

- * Includes grouser height for total dimensions on hard surface.
- Sleeve Bearing Track with Positive Pin Retention.

Track Roller Frame		
Oscillation	351 mm	13.8 in
Steering and Brakes		
Steering Controls	Fingertip (Controls
Steering Clutch Type	Pressure A	pplied Wet Disc
Steering Clutch Disc Diameter	440 mm	17.3 in
Steering Clutch Disc Count	10	
Brake Type	Spring App	slied Wet Disc
Brake Disc Diameter	612 mm	24.1 in
Brake Disc Count	7	

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warning Potential = 1430). The system contains 2.1 kg of refrigerant which has a CO_2 equivalent of 3.003 metric tonnes.

Standards

ROPS/FOPS

- Rollover Protective Structure (ROPS) meets the following criteria: ISO 3471:2008.
- Falling Objects Protective Structure (FOPS) meets the following criteria: ISO 3449:2005 LEVEL II.

Sound

- The average dynamic spectator sound power level when "ISO 6395:2008" is used to measure the value for a machine is 116 dB(A). The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. NOTE: The dynamic sound power level uncertainty is ±2 dB(A).
- The average dynamic operator sound pressure level when "ISO 6396:2008" is used to measure the value for an enclosed cab is 78 dB(A). The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurement was conducted with the cab doors and the cab windows closed. NOTE: The dynamic operator sound pressure level uncertainty is ±2 dB(A).
- Hearing protection may be needed when the machine is operated with an open operator station for extended periods, in a noisy environment, or with a cab that is not properly maintained.



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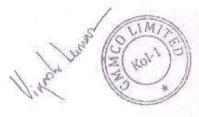
D11 Dozer

Tag link dozer coupling brings blade closer for better balance and control.

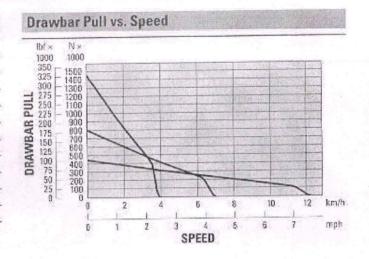
And the second s		Standard Pitch	Extended Pitch	Standard Pitch	Extended Pitch	Carrydozer
Blade	***************************************	11SU ABR	11SU ABR	11U ABR	11U ABR	11CD
Blade Capacity (SAE J1265)	m²	27.2	27.2	34.4	34,4	43.6
	(yd')	(35.6)	(35.6)	(45.0)	(45,0)	(57.0)
Width with Blade (over end bits)	min	5584	5585	6340	6341	6704
	(in)	(219.8)	(219.9)	(249,6)	(249.6)	(263.9)
Blade Height	mm	2866	2867	2875	2876	3236
	(in)	(112.8)	(112.9)	(113.2)	(113.2)	(127.4)
Digging Depth						
Blade Pitch - Full Racked Back (Carry)	mm	566	438	566	438	708
	(in)	(22.3)	(17.2)	(22.3)	(17.3)	(27,9)
Blade Pitch Nominal	min	660	660	661	661	1394
	(in)	(26.0)	(26.0)	(26,0)	(26.0)	(54.9)
Blade Pitch - Full Pitched Forward (Spread)	mm	\$58	860	859	860	1756
	(in)	(33.8)	(33.8)	(33.8)	(33.9)	(69.1)
Ground Clearance						
Blade Pitch - Full Racked Back (Carry)	mm	1778	1921	1777	1920	1839
	(in)	(70.0)	(75.6)	(70.0)	(75.6)	(72.4)
Blade Pitch Nominal	mm	1669	1669	1668	1668	990
	(în)	(65.7)	(65.7)	(65.7)	(65.7)	(39.0)
Blade Pitch - Full Pitched Forward (Spread)	nim	1424	1423	1423	1422	255
	(in)	(56.1)	(56.0)	(56.0)	(56.0)	(10.0)
Maximum Tilt LH	mm	1700	1587	1932	1806	1174
	(in)	(66.9)	(62.5)	(76.1)	(71.1)	(46,2)
	Degrees	18.3	17.1	18.3	17.1	10,0
Maximum Tilt RH	mm	1697	1607	1930	1829	1162
	(in)	(66.8)	(63.3)	(76.0)	(72,0)	(45.7)
	Degrees	18.3	17.3	18.3	17.3	9.9
Cutting Edge Angle						
Blade Pitch - Full Racked Back (Carry)	Degrees	46.6	42.0	46.6	42.0	35.5
Blade Pitch Nominal	Degrees	50.2	50,2	50,2	50.2	55.5
Blade Pitch - Full Pitched Forward (Spread)	Degrees	58,9	59.0	58.9	59.0	84.0
Blade Weight (Moldboard Only)	kg (lb)		210 ,509)		960 ,572)	17 401 (38,363)
Blade Weight*	kg	17.126	17 251	19 875	20 000	24 990
	(16)	(37,756)	(38,032)	(43,817)	(44,092)	(55,093)
Total Operating Weight** (with blade and single-shank ripper)	kg	101 487	101 612	104 236	104 361	113 700
	(lb)	(223,740)	(224,016)	(229,801)	(230,076)	(250,665)

* Does not include hydraulic controls but includes blade cylinders, pusharms.

^{**}D11 includes blade and single-shank ripper, hydraulic controls, blade cylinders, coolant, lubricants, full fuel tank, 710 mm (28 in) shoes, ROPS, FOPS cab, and operator, D11 CD includes blade and single-shank ripper, hydraulic controls, blade cylinders, coolant, lubricants, full fuel tank, 915 mm (36 in) shoes, ROPS, FOPS cab, and operator.



Transmission		
L.0 Forward	4,0 km/h	2.5 mpli
LS Forward	5,2 km/h	3.2 mph
2.0 Forward	7.0 km/h	4.4 mph
2.5 Forward	9.0 km/h	5,6 mph
3.0 Forward	12.2 km/h	7.6 mph
1.0 Reverse	4,8 km/h	3.0 mph
1.5 Reverse	6.2 km/h	3.9 mph
2.0 Reverse	8.5 km/h	5,3 mph
2.5 Reverse	10.9 km/h	6.8 mph
3.0 Reverse	14.7 km/b	9.1 mph
Туре	Planetary p	owershift
Transmission Clutch Diameter	533 mm	21 in



Ripper					and the state of t	
			D11		011	CO
		Single Shank	Single Shank	Multi Shank	Single Shank	Multi Shank
			Deep Ripping			
Overall Beam Width	mm (in)			3330 (131.1)	white the same of	3330 (131.1)
Maximum Penetration Force* (shank vertical)	kN	294	294	344	343	369
	(1b)	(66,000)	(66,110)	(77,350)	(77,130)	(82,875)
Maximum Penetration Depth (standard tip)	mm	1612	2172	1100	1612	1100
	(in)	(63.5)	(85.5)	(43,3)	(63.5)	(43.3)
Pryout Force (multi-shank ripper	kN	661	661	648	604	605
with one tooth)	(lb)	(148,510)	(148,510)	(145,640)	(135,760)	(136,080)
Maximum Clearance Raised	men	1111	873	1090	1111	1090
(under tip, pinned in bottom hole)	(in)	(43.7)	(34,4)	(42.9)	(43.7)	(42.9)
Number of Shank Holes	X-7-7	4	3	2	4 -	2
Ripper Weight (no shank)	kg	8625	8625	9007	12 467	12 267
	(lb)	(19,015)	(19,015)	(19,857)	(27,485)	(27,044)
(includes trans guard)	kg	1193	1403	697	1193	697
Tooth Gp Weight (each)	(lb)	(2,630)	(3,093)	(1,537)	(2,630)	(1,537)
	(~~)		ITU ABR blade an		With 11CD bl	ade and ripper
Total Operating Weight**	kg	104 236	104 446	105 516	113 700	114 398
	(lb)	(229,801)	(230,264)	(232,623)	(250,665)	(252,204)

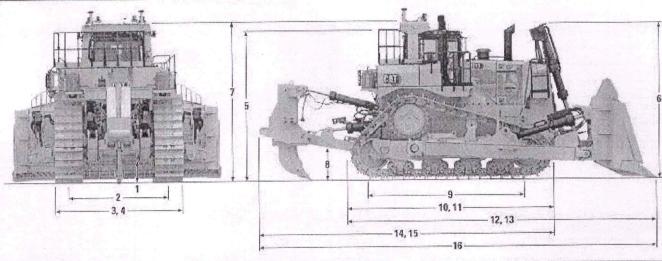
*Shank pinned in deepest ripping position.

** D11 weight includes Abrasion U Blade and specified ripper with shank(s) installed, full fuel tank, 710 mm (28 in) shoes.
D11 CD weight includes Abrasion CD Blade and specified ripper with shank(s) installed, full fuel tank, 915 mm (36 in) shoes.

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Dimensions

All dimensions are approximate.



D11	I	D11	CD
8 mm	31.4 in	798 mm	31.4 in
6 mm	114 in	2896 mm	114 in
(2 mm	148.9 in	3806 mm	149.8 in
9 mm	172.4 in	4379 mm	172,4 in
)5 mm	173,4 in	4405 mm	173,4 in
9 mm	179,1 in	4549 mm	179,1 in
23 mm	185.9 in	4723 mm	185.9 in
2 mm	37.1 in	942 mm	37.1 in
44 mm	175 in	4444 mm	175 in
50 mm	242.5 in	6160 mm	242.5 in
50 mm	242,5 in	6160 mm	242,5 in
79 mm	337.8 in	8765 mm	345.1 in
41 mm	340.2 in		
)7 mm	319.2 in	8107 mm	319.2 in
27 mm	331.8 in	8427 mm	331,8 in
25 mm	414.4 in	10 712 mm	421.7 in

^{*}Includes grouser height for total dimensions on hard surfaces.

Note: D11 shown equipped with 710 mm (28 in) shoes.

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^{**}CD Blade on D11 CD.

D11 Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT		1.30
ROPS/FOPS, Sound-Suppressed Cab	*	
High-Definition Primary Touchscreen Display	4	
MineStar TM Terrain Display		
Visibility - Rearview Mirrors	V	
Visibility - Dual Camera		- Y-
Visibility – Four Cameras – 360-Degree View		
Visibility - Camera - Ripper Tip View		1
Air Conditioner and Heater with Automatic Climate Control	*	
Seat Belt, 76 mm (3 in) Retractable with Switch	· ·	
Seat - Cloth with Air Suspension	1	
Seat Heated, Cooled, Adjustable Lumbar and Bolsters		*
Window Wipers with Wash Low, High, Intermittent	V	
Adjustable Fingertip Steering Controls	Y	
Entertainment Radio Ready (12V Power, Harness, Speakers)	· ·	
Entertainment Radio - AM/FM, Aux Input and Bluetooth		1
Cab Glass - Single-Pane Tinted Safety	∀	
Cab Glass – Dual-Pane Laminated Impact Safety		1
Cab Glass - High-Pressure Safety (40 psi/275 kPa)		1
Window Sunscreen		V
Small Operator 5th Percentile Mounting Group		1
Cab Door - Right-Hand Swing	-	
Cab Door - Left-Hand Swing		V
Access/Egross Lighting with Shutdown Timer	*	

	Standard	Optional
Armrest Adjustable	· /	***************************************
Interior LED Courtesy Lights	/	
Interior Backlighting – Dimmable	/	
Air Conditioning Condenser – Cab Mounted	Y 1 = 1	
Decelerator Pedal	1	
Controls - Blade - Electronic	/	
Controls - Ripper - Electronic	V	
Park Brake - Electronic	1	
Engine Speed Control Dial	/	
Cab Access – Blade Pusharm Steps and Grab Handle	· · · · · · · · · · · · · · · · · · ·	
Cab Access Powered Ladder		/
Fender Platform Guardrails	1	
Rear Cab Platform and Guardrails		· · · · · ·
Site Communication Radio Mount	· ·	
Cab Filter Precleaner		/
"OK to Start" Fluid Level Monitoring – Five Fluids	4	
Machine Overspeed Protection	-	
Fluid Level Monitoring Strategy	1	
Slope and Side Slope Monitor	*	
AT TECHNOLOGY PRODUCTS		
VIMS	-	
Automated Blade Assist (ABA)	· /	
AutoCarry TM		
Auto Ripper Control		
Cat Terrain with 3D Blade Control		1
Cat Terrain Ready		1
Cat Product Link Elite (Cellular)		*
Cat Product Link Elite Dual Mode (Cellular + Satellite)		Y
Cat Command for Dozing Ready		/

(continued on next page)

D11 Standard and Optional Equipment

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
CAT POWER TRAIN		and the second state of
Cat C32 Engine - U.S. EPA Tier 4 Final or Tier 2 Equivalent	1	
Air to Air Aftercooler	Ý	
Air Filters - With Electronic Service Indicator		
High-Performance Single-Plane Cooling Module		120000000000000000000000000000000000000
Stator Clutch Torque Divider – Electronic Control	<u> </u>	
Powershift Transmission - Three-Speed Electronic Shift	<u> </u>	
Enhanced Auto Shifting (EAS)	<u> </u>	
Clutch/Brake Steering – Electronic Control	*	
Auto Engine Idle Shutdown	7	
Hydraulic Cooling Fan – Automatic Reversing		
Controlled Throttle Shifting with Shift Management	7	
Precleaner - Strata ^{am} Tube Dust Ejector	· ·	
Precleaner – Turbine		~
Thermal Manifold and Turbo Shields	1	
Starting Aid - Engine Heater Group (120V or 240V)		*
Starting Aid - Automatic Ether		1
Fuel Heater		/
Fuel Priming Pump - Automatic	1	
Fuel Water Separator	*	
Fuel Tank - 1895 liter (500 U.S. gal)	1	
Final Drive Seal Guard - Open Labyrinth	· ·	
Final Drive Scal Guard - Clamshell		· /
Radiator - High-Performance Copper Grommeted Tube	1	
Radiator - Aluminum Bar Plate (standard for Tier 2 Equivalent)		*
Engine Oil Prelubrication System		· /
FLUIDS		
Coolant – Extended Life, Standard (-37° C/-25° F)	*	
Coolant - Extended Life, Arctic (-51° Cl-60° F)		✓.

	Standard	Optional
INDERCARRIAGE		
Suspension Type Undercarriage	V	
Track Guide	V	
Two-Piece Master Link	· /	
Sleeve Bearing Track	✓	
Lifetime-Lubricated Rollers and Idlers	1	
Hydraulic Track Adjusters	4	
Carrier Roller Ready	- /	
Equalizer Bar - Greased End Pin Bearings		2000
Track Shoe (ES): 710/810/915 mm (28/32/36 inch) Width	1	
Track Links - High Abrasion - Tall Link		
Track Links - Heavy Duty XL - Duralink		<i>'</i>
Track Shoe - Abrasion Resistant		V
Track Shoe - Anti-Packing Round Hole		· ·
Abrasion Rollers and Idlers		<u> </u>
Cold Weather Rollers and Idlers		/
Sound-Suppression Undercarriage		· ·
Carrier Roller		
Carrier Roller Cold Weather		/
HYDRAULICS		
Hectronically Controlled, Load-Sensing Dozer Lift and Tilt	V	
Electronically Controlled, Load-Sensing Ripper Lift and Pitch	/	
Carrydozer Hydraulics		*
Dozer Blade Dual Tilt	✓	
Dozer Extended Blade Pitch		· /
Electronically Enabled Blade, Quick Drop	4	
Ripper Pin Puller		4
Hydraulic Tank Return Screen	1	

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D11 Standard and Optional Equipment

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
ELECTRICAL		
24V Electric Start, Dual Starters	- 1	
Alternator – 150-Amp	10	
Batteries 4 × 4,200-Amp Hour I2V	- V	
12V, 15-Amp Converter	· · · · · · ·	
Battery Isolation	- V	
Battery Isolation Dual Pole		· /
Starter Control Isolation	1	
Starter Power Isolation		
Backup Alarm		
Lights, Engine Compartment	/	
Lights - Halogen - 13 Positions		-
Lights - LED - 13 Positions	V	
Lights - Premium LED - 13 Positions		V
Light - Warning Strobe		· ·
SERVICE AND MAINTENANCE		
Ecology Fluid Drains – All Compartments	· ·	
Hinged Bottom Guards	· · · · · · · · · · · · · · · · · · ·	
Sound Reduction Sealed Bottom Guards		
High-Speed Oil Change - Engine and Transmission		
Ground-Level Fast Fuel Fill	1	
Ground-Level Fluid Fill and Drain		√.
Ground-Level Electrical Service Station	-/	
S-O-S sM Fluid Sampling Ports	1	
Diagnostic Connector	· ·	
Quick-Opening Cab Mounting Group		<u> </u>
Sound Enclosure		1
Ripper Lubrication – Autolube with Ground-Level Fill		
Ripper Lubrication - Grouped		<u> </u>
CapSure™ Hammerless Ripper Tip and Shank Protectors	- / *	
	1	

Anchorage Points

	Standard	Optional		
REAR ATTACHMENTS				
Ripper - Single Shank - with Pin Puller		· ·		
Ripper – Single Shank – Pushblock with Pin Puller		<i></i>		
Ripper - Single Shank - with Pin Puller - Heavy				
Ripper - Multi Shank (three shank)		*		
Ripper - Multi Shank - Heavy (three shank)		1		
Ripper - Multi Shank - Leach Pad with Pin Puller		1		
Ripper - Multi Shank - Coal (five shank)				
Counterweight Rear	1.			
Drawbar with Counterweight				
BLADES		ansanana sa		
Semi-Universal (27.2 m ¹ /35.6 yd ³)				
Universal (34.4 m'/45.0 yd')				
Carrydozer (43,6 m ³ /57 yd ³)				
Reclamation Universal (42 m ¹ /55 yd ³)				
Reclamation Universal (53.5 m ³ /70 yd ³)		_ <		
Coal Universal (75 m³/98.0 yd³)				
Coal Universal (65 m ¹ /85.5 yd³)	· /			
Black Blade Paint	_ /			
Abrasion Liners and Guards				
OTHER				
Fire Suppression Ready				
Fire Suppression Installed	1			

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For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

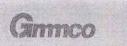
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AEXQ2475 (12-2018) Build Number: 07A (Global)

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Gmmco Limited

CK Birla Group 11⁶ Roor, Birla Beilding, 9/1, A. N. Mukberjee Road, Kolkata · 700 001 West Bengal.

Sec-VI, Tech Specs, Part D, Clause 9.2 (x) of NIT

GMMCO/CIL/850HP Dozer/24-25

Date: 22-07-2023

The General Manager (MM)
Coal India Limited
Coal Bhawan
Premises No. 4, Action Area 1A,
New Town, Rajarhat,
Kolkata – 700156

Dear Sir.

SUB- OPERATION AND MAINTENANCE MANUAL

REF: Tender No. CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

The Operation and Maintenance Manual will be provided at the time of commissioning of the Machine

For GMMCO Limited

Vikash Kumar General Manager

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Phone: (033) 3918 1700 To 12 Fax: (333) 3918 1706 E.mail: contactus@gmmcoindia.com Website: www.gmmco.in

(Registered office: 9.0, R.N. Mukherjee Road, Kolkata 700 001)

CIN U35202WB1966PLC026980

CSOM





Gmmco Limited

CK Birla Group 11th Floor, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal.

Clause-D.9.3.2 (a), Machine Weight, Section VI, Technical Specifications

Date: 19-09-2024

GMMCO/CIL/850HP/24-25/SHORTFALL

The General Manager (MM)
Coal India Limited
Coal Bhawan
Premises No. 4, Action Area 1A,
New Town, Rajarhat,
Kolkata – 700156

Dear Sir.

SUB:

Shipping Weight

REF:

Tender Number: CIL/C2D/850HP Dozers/R-153/24-25/395 Dated 12.06.2024

Considering shipment of units, we submit shipping weight of individual components as follows:

Component	Weight (Kg)		
D11 Tractor Cab / Rops Off (RORO Unit)	73400		
ROPS	798		
Cab Box	1016		
Operator Station Box	272		
Ripper Frame (For Machines with Ripper)	2314		
Ripper Beam (For Machines with Ripper)	3333		
Ripper Tilt Carriage (For Machines with Ripper)	1034		
Ripper Lift Frame (For Machines with Ripper)	1098		
Ripper Shank (For Machines with Ripper)	1161		
Blade (Excl pins)	9946		
Blade Install Box 1	1851		
Blade Install Box 2	835		
Push arm	3227		
Lift Cylinder front (Box)	1234		
Tag link	363		
Guard Rail Box	345		
Pre-Cleaner	110		
Box Misc	798		
SKID Counterweight (For Machines W/o Ripper)	8980		

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Phone: (033) 3918 1700 To 12 Fax: (033) 3918 1706 E mail: contactus@gmmcoindia.com Website: www.gmmco.in

(Registered office: 9/1, R.N Mukherjee Road, Kolkata 700 001) CIN U35202WB1966PLC026980

CIL/C2D/Crawler Dozer/R-1153/30116dated 01.09.2025

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Shipping weight excludes the Onsite attachments such as AFDSS, Fire extinguisher, Proximity warning device etc however it includes packing weight.

Box will contain small items which are required during installation of complete system.

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For Gmmco Limited

Vikash Kumar

General Manager

/ cook

Annexure - 17

Format For Bank Details For Electronic Payment

To Coal India Ltd., 1st Floor, Premises No. 04 Plot No. AF-III, Action Area 1A New Town, Kolkata - 700 156.

Dear Sir

Tender Ref No.: CIL/C2D/850 HP Dozers/R-153/24-25/395 Dated 12.06.2024

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



1	Name of the Beneficiary, Address with	Name – GMMCO Limited
	Telephone No.	Address – 6, G. S. T. Road, St. Thomas Mount,
		Chennai.
•••••		Telephone No. – 044 2267 6469.
2.	Bank Name. Address with Telephone No.	Name - HDFC Bank Limited
		Address - No.115, R.K. SALAI,
		OPP Kalyani Hospital
		Chennai - 600 004
3	Branch Name & Code	Branch Name - R. K. Salai, Chennai
		Branch Code – Annexure Attached.
4	Bank Account Number with style of account	Annexure Attached.
	(Savings Current)	
5	IFSC Code No. / Swift Code of the Bank	Annexure Attached.
6	PAN No. of the Beneficiary	AABCG0949C
7	E-Mail No. and Mobile No, of the Beneficiary	E-Mail No godwyn@gmmcoindia.com
	for intimation of release of payment	Mobile No 9823030668

I/We hereby declare that particulars given above are correct and complete and if the transaction is delayed or credit is not effected due to incorrect information, I/we will not hold Coal India Ltd. Responsible.

M.M'S. Cour

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Authorised Signatory

Name: R.SANKARANARAYANAN Official Stamp with Date

2 4 JUL 2021

Bank Certification

It is certified that above mentioned beneficiary holds a Bank Account with our Branch and the Bank particulars mentioned above are correct. There's vening in another reference the CIL/CLD/850 HP DOXOS/ R-185/11

Authorised

No.6, GST Road, St. Thomas Mount, Chennal 600016 +91 44 2267 6000 Faxofficial 5 2367 6000 Date

contactus@gmmcoindia.com www.gmmco.in Regd. Office: 9/1, RN Mukherjee Road, Kolkata 700001

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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GMMCO Limited

Annexure-7 (CK BIRLA GROUP



Tender Ref No.: CIL/C2D/850 HP Dozers/R-153/24-25/395 Dated 12.06.2024

Name of Bank & Branch	Custom er	Project	Branch Name & Code	Bank Account Number with Code	Style of Account (Savings / Current)	IFSC Code No. / Swift Code of the Bank
HDFC Bank Ltd., R. K. Salai, Chennai	SECL	GEVRA OCP	1097	GMMCO LTD 4020	CASH CREDIT	HDFC0001097
HDFC Bank Ltd., R. K. Salai, Chennai	SECL	DIPKA OCP	1097	GMMCO LTD 3575	CASH CREDIT	HDFC0001097
HDFC Bank Ltd., R. K. Salai, Chennai	NCL	DUDHICHUA OCP	1097	GMMCO LTD 4174	CASH CREDIT	HDF60002097
HDFC Bank Ltd., R. K. Salai, Chennai	NCL	BINA-KAKRI AMALGAMATI ON OCP	1097	GMMCO LTD 4170	CASH CREDO	HDEC0001027
HDFC Bank Ltd., R. K. Salal, Chennai	NCL.	TAAYAL	1097	GMMCO LTD 4224	CASH CREDIT	HOLLDOB1031
HDFC Bank Ltd., R. K. Salai, Chennai	NCL	NIGAHI	1097	GMMCO LTD 4173	CASH CREDIT	HDFC0001097
HDFC Bank Ltd., R. K. Salai, Chennai	NCL	AMLOHRI OCP	1097	GMMCO LTD 4169	CASH CREDIT	HDFC0001097
HDFC Bank Ltd., R. K. Salai, Chennai	NCL	KRISHNASHIL A OCP	1097	GMMCO LTD 4271	CASH CREDIT	HDEC0003097

I/We hereby declare that particulars given above are correct and complete and if the transaction is delayed or credit is not effected due to incorrect information, I/we will not hold Coal India Ltd. Responsible.

FOR GMMCO MANDED

Authorised Signatory Name: R.SANKARANARAYANAN

Official Stamp with Date

Bank Certification

It is certified that above mentioned beneficiary holds a Bank Account with our Branch and the Bank particulars mentioned above are correct.

Authorised-Si

Name: OTHICCAKSHH VEN CATESH

Official Stamp with Date

Regn. No.-10288/13 C.M.M'S. Court Kolkata-700 001

M.M.'S Court

contactus@gmmcoindia.com www.gmmco.in

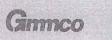
Regd. Office: 9/1, RN Mukherjee Road, Kolkata 700001

CIN.: U35202WB196GPLC026980

CIL/C2D/Crawler Dozer/R-153/301 dated 01.09.2025

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Annexure-7





Gmmco Limited

CK Birla Group 11th Floor, Birla Building, 9/1, R. N. Mukherjee Road, Kolkata - 700 001 West Bengal.

Ref: GMMCO/CIL/850HP/24-25

Dated: 22.7.2024.

To Coal India Limited Coal Bhawan Premises No. 4 Action Area 1A New Town, Rajarhat Kolkata – 700 156 India.

Dear Sirs

Sub: CAT Bank Details

Ref: Tender No. CIL/C2D/850 HP Dozers/R-153/24-25/395 dated 12.06.2024

Please find attached herewith J P Morgan Bank Details of CAT.

Thanking you

Yours faithfully For GMMCO Limited

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Vikash Kumar General Manager

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Phone: (033) 3918 1700 To 12 Fax: (033) 3918 1706 E mail: contactus@gmmcoindia.com Website: www.gmmco.in

(Registered office: 9/1, R.N Mukherjee Road, Kolkata 700 001)

CIN U35202WB1966PLC026980

CIL/C2D/Crawler Dozer/R+153/301 dated 01.09.2025

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CATERPILLAR®

CATERPILLAR SARL SINGAPORE BRANCH

REGISTRATION NO S99FC5744H

7 Tructor Road Singapore 627968 Tel: (65) 6828 7333

6 August 2024

Coal India Limited 1ª Floor, Premises No. 04 Plot No AF - III, Action Area 1A, New Town, Kolkata - 700 156.

Dear Sir,

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

We hereby authorize Coal India Limited to disburse all our payments through Electronic Fund Transfer system/RTGS/NEFT/LC. The details for facilitating the payment are given below:

١,	Name of the Beneficiary, address	Caterpillar SARL Singapore Branch, 7 Tractor Road, Singapore - 627968
2	Bank name, address	Citibank N.A., Singapore Branch, 8, Marina View # 16-00 Asia Square Tower, Singapore - 018960
3	Branch name & code	Citibank N.A., Singapore Branch 7214-001
4.	Bank account number with style of account (Savings / Current)	USD Current Account 0709113038
5	IFSC Code No /Swift Code of the Bank	Swift Code : CITISGSG
6	PAN No. of the Beneficiary	NIL
7.	E-Mail No. and Mobile No. of the Beneficiary for intimation of release of payment.	Vivia Cao cao yue@cat.com +65 68287236

I/We hereby declare that particulars given above are correct and complete and if the transaction is delayed or credit is not effected due to incorrect information, I/we will not hold Cont India Limited responsible.

> Authorized Signatory Official Stamp with date 8/13/2024

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Bank Certification

It is certified that above mentioned beneficiary holds a Bank Account No. 0709113038 with our branch and the Bank particulars mentioned above are correct

. Drup Kimare Das

Authorized Signatory

Official Stamp with date

aterpillar Confidential Green

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/C2D/Crawler Dozer/R-153/301 dated 01.09.2025