



WESTERN COALFIELDS LIMITED
(A SUBSIDIARY OF Coal India Limited)
CIN U10100MH1975GOI018626

MATERIALS MANAGEMENT WING, COAL ESTATE, CIVIL LINES,
NAGPUR - 440 001.

PHONE : PBX : 0712-2611381, 2510691 Extn : 5606, 5861, Fax : 0712-2510284

Supply Order no:11000112218200

Dated: 22.02.2019

SUPPLY ORDER

To

M/s Simplex Engineering & Foundry Works Pvt Ltd
65, Industrial Estate, Bhilai,
Chattisgarh 490026

Vendor Code :515040

Vendor Category : Manufacturer

email : marketing@simplexengg.in

Dear Sir,

Sub : **Formal Order for supply of Standard Height Load Haul Dumps (LHDs)**

- Ref: 1. WCL Tender Enquiry no: WCL-hq-Pur-yvr-ra-e050-2018-19 opened on 10.10.2018, (tender ID: 2018_WCL_113748_1), Price bid opened / reverse Auction held on 05.12.2018
2. Your offer / Bid ID: 336145 and subsequent submission of shortfall / confirmatory documents on portal
3. Your letter no SE/MKTG/18-19/DJS dt 17.12.2018
4. WCL's letter no NGP/WCL/MM/Admn/1783 dt 31.12.2018
5. Your letter no SES/DJS/0918/C-2353/1350 dt 09.01.2019
6. Your letter no SES/DJS/0918/C-2353/1352 dt 10.01.2019

With reference to above, we are pleased to place FORMAL ORDER on you for the supply of Load Haul Dumps (LHDs), at the rates and as per terms and conditions stipulated below and general terms and conditions enclosed:-

NIT item sl no	Description	Quantity (nos)	Unit price Rs.	Extended value Rs.
2	Standard Height LHD, Electro-hydraulically powered machine with Push Plate Bucket / Arrangement. Scope of supply & detailed Technical specifications as per Annexure "A" enclosed	10	43,50,000.00	4,35,00,000.00
	Freight charges for 10 LHDs @ Rs.40,000.00 per LHD			4,00,000.00
	GST extra @ 18% on equipment and Freight charges			79,02,000.00
	Sub-Total value before availing ITC for item no 2 of NIT			5,18,02,000.00
3	Standard Height LHD, Electro-hydraulically powered machine with Chain Conveyor Bucket / Arrangement. Scope of supply & detailed Technical specifications as per Annexure "A" enclosed	1	44,40,000.00	44,40,000.00
	Freight charges @ Rs.40,000.00 per LHD			40,000.00
	GST extra @ 18% on equipment and freight charges			8,06,400.00
	Sub-Total value before availing ITC for item no 3 of NIT			52,86,400.00
	Grand Total value of order before availing ITC (item 1,2)			5,70,88,400.00

Total Value: Rs.5,70,88,400.00 (Rupees Five crores seventy lakhs eighty eight thousand & four hundred only).

Other Terms and conditions :

Increase in Order quantity: WCL reserves the right to increase the ordered quantity of NIT item no 2 above, i.e. 10 nos of Standard Height LHD to the tendered quantity of 11 nos for which a separate communication shall be given to you.

- Prices:** The above prices are FIRM and on F.O.R. destination basis inclusive of Packing, forwarding and insurance charges upto destination. For FOR Supply, Freight charges will be paid extra at actuals to a maximum ceiling of Rs. 40,000.00 (Rupees forty thousand) per equipment against documentary evidence. Safe arrival of the consignment shall be your responsibility.
- GST:** GST shall be paid at actual against documentary evidence as applicable at the time of Dispatch within the stipulated delivery period. The current rate of GST on equipment is 18%. Input Tax Credit on GST shall be availed by the consignee, for which you shall submit GST compliant Invoice along with the supplies.

Signature

Signature

1/29

Supply Order no 11000112218200 Dt 22.02.2019; M/s Simplex Engg & Foundry works Ltd

3. Delivery: Delivery to be completed within 4 (four) months, which shall be reckoned from 7th day of order date. Early supplies are acceptable.
4. Final Inspection: Final inspection shall be carried out by the authorised representative of WCL, at the consignee stores.

5. Consignee & Allocation:-

NIT sl no.	Qty	Project Allocation	Area	POSTAL ADDRESS OF THE CONSIGNEE
2	4 nos	Ghorawari- 2 nos; Maori - 2 nos	Kanhan	The Depot Officer, Regional Stores, Western Coalfields Limited, Kanhan Area, PO : Dungaria, Distt: Chindwara (M.P) Pin: - 480 553
3	1 no	BC 3 & 4 (chain conveyor bucket)	Ballarpur	The Depot Officer, Regional Stores, Western Coalfields Limited, Ballarpur Area, PO : Sasti, Distt:-Chandrapur (M.S) Pin: - 442 701
2	6 nos	Saoner1- 2 nos; Saoner2- 3nos; Saoner3 - 1 no;	Nagpur	The Depot Officer, Regional Stores, Western Coalfields Limited, Nagpur area, PO : Silewara Colliery, Distt:-Nagpur (M.S) 441 109

6. Payment terms : 80% value of equipment and initial spares (if any) and 100% taxes and duties and other charges shall be made within 21 days after receipt and acceptance of material at site by the consignee or submission of bills and acceptance of Performance Bank Guarantee & Security BG, whichever is later. Balance 20% payment shall be made after successful completion of erection, testing, commissioning and final acceptance of the equipment (along with the accessories) upon presentation of certificates from Area GM/SO(E&M) of concerned area to the effect that the equipment has been erected and commissioned to their entire satisfaction and performance testing is done at the allocated location.

7. Paying Authority: General Manager (Fin.), Western Coalfields Limited, Coal Estate, Civil Lines, Nagpur- 1

8. EFT Details :-

Name of the Bank, Branch & Location	State Bank of India, SME Bhilai, Sector-1, Bhilai
Account Number, Nature of Account	10184627594, Cash Credit
IFSC Code	SBIN0012277

9. Mode of dispatch: All the stores securely packed are to be dispatched by road transport to the consignee on Freight paid basis.
10. Security Deposit : You shall furnish the security deposit amount in the form of Demand Draft or Bank Guarantee of any scheduled bank for 10% (ten percent) value of the awarded contract i.e. for Rs.57,08,840.00.00 (Rupees Fifty seven lakhs eight thousand eight hundred and forty only), within 15 days time from the date of supply order to this office. The Bank Guarantee issued by the banker of the firm shall be operational for all purposes at Nagpur branch (Maharashtra). The banker of the firm shall issue Bank Guarantee on SFMS (Structured Finance Message Service) platform. The security deposit may be converted into performance bank guarantee as per NIT provisions.
11. Performance Bank Guarantee: You have to furnish a Performance Bank Guarantee for 10% (ten percent) value of the awarded contract i.e. for Rs.57,08,840.00.00 (Rupees Fifty seven lakhs eight thousand eight hundred and forty only), satisfactory operation and performance valid for 18 months from the date of supply and acceptance of equipment, equivalent to 10% value of the contract including GST to the FOR Destination price of the equipment on order. The Bank Guarantee shall be released after successful completion of the Guarantee / Warranty period after confirmation from GM(E&M) HOD, WCL Hq. Any short fall of performance availability, deduction shall be made as per clause no 12.0 of TPS (i.e. Availability clause). The PBG must be submitted within 15 days from the date of receipt and acceptance of the equipment. No payment shall be made without submission of Performance Bank Guarantee. PBG may be submitted equipment-wise also.

The Bank Guarantee issued by the issuing bank on behalf of the supplier in the favour of Western Coalfields Ltd shall be in paper form as well as issued under "Structured financial messaging system". The details of beneficiary for issue of BG under SFMS platform is furnished below:

Name of beneficiary and details	
Name	Western Coalfields Ltd.
Area	Head Quarter
Bank A/c No: / Cust ID	Current Account No: 005905018053 Customer Id : 556096497 ICICI Bank Ltd., Vishnu Vaibhav, 222, Palm Road, Civil Lines, Nagpur
IFSC code	ICIC0000059
Bank Manager Name & Ph. No.	Hrushikesh Sakalkale, Ph. No. +91-9923202096

Handwritten signature

22/02/19

2/29

Supply Order no 11000112218200 Dt 22.02.2019; M/s Simplex Engg & Foundry works Ltd

(vii). Any other document indicated elsewhere in the order

b. For Claiming 20% payment, the following documents are to be submitted

(i) Pre-receipted and stamped bill for 20% payment.


(ii) Commissioning Certificate from the respective Area GM / SO(E&M) of concerned area

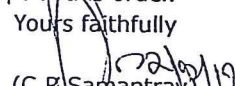
(iii) Any other document indicated elsewhere in the order

16. **Force Majeure Clause:** If the execution of the contract / supply order is delayed beyond the period stipulated in the contract / supply order as a result of outbreak of hostilities, declaration of an embargo or blockade, or fire, floods, acts of nature or other contingency beyond the supplier's control, due to act of God then Western Coalfields Limited may allow such additional time by extending the delivery period as it consider to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by Western Coalfields Limited, the contract / supply order shall be read and understood as if it had contained from its inception the delivery date as extended.
17. **Manufacturing certificate:** As the order is being placed on the basis of consideration that you are a manufacturer of the ordered material, you will have to provide a certificate to the following effect on the body of each bill.
"Certified that the items supplied and included in this bill/ invoice are our own make and have been actually manufactured in our works situated at _____ (address of the factory)
18. **Price Certificate:** As undertaken by you in your offer that you have not supplied / are not supplying similar product, systems or sub systems at a price lower than that ordered price in respect of any other ministry/department of the Govt. of India or a PSU and if it is found at any stage that similar product / Systems/ Sub -systems was supplied by you to any other Ministry / Department of the Government of India or a PSU at a lower Price, then that very price with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by you to WCL, if the contract has already been concluded. You will furnish the certificate to this effect to the Consignee / Paying Authority along with bills. Failure in submission of aforesaid certificate by you, may result in with holding of the payment of your bills against supply.
19. **Integrity Pact :** Integrity Pact as per format (Annexure E of the NIT) signed and furnished by you along with the offer shall remain valid and applicable for this contract. IEMs against the tender / Order are:
Shri A.K.BAJAJ, Ex-Chairman, CWC, A-167, Defence Colony, New Delhi 110024 &
Shri A.K.Mohapatra, Qrs no B-5/9, Unit - 9, Bhoi Nagar, Bhubaneswar 751022

Unless otherwise specified above, the purchase order shall also be governed by the terms and conditions given in the General terms and conditions enclosed.

This order is issued with this acceptance. Kindly acknowledge the receipt of this order.


(Y. Venkata Ramana)
Sr. Manager (MM)

Yours faithfully

(C.R. Samantray)
Chief Manager (MM)

Enclosures: -

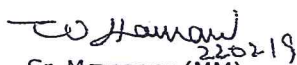
- Annexure-A** : Detailed Technical specifications
Annexure-B : Tool Kit
Annexure-c : General Terms & Conditions
Annexure-D : PBG format

Copy to :

- GM(E&M) HOD / GM(P&P) / GM(Fin.)WCL(HQ), Nagpur
- AGM / SO(E&M)/SO(MM)/AFM/Depot Officer, WCL, Ballarpur, Kanhan & Nagpur.
- AF (MM), MM Wing, WCL Hq., Nagpur
- GM(MM), SECL, MCL, CCL, BCCL, ECL, NCL, CIL
- RD, CMPDIL, RI IV, Nagpur
- TS to DT(P&P), WCL, Nagpur
- Sr. Manager (MM/Admn.), WCL(HQ) - The Landed value of the order is Rs.5,70,88,400.00
- IEM, Shri A.K.BAJAJ, Ex-Chairman, CWC, A-167, Defence Colony, New Delhi 110024
- IEM, Shri A.K.Mohapatra, Qrs no B-5/9, Unit - 9, Bhoi Nagar, Bhubaneswar 751022

Indent details: i. Ind/18-19/3460/00029 dt 01.08.2018 for 4 nos Std height LHD with PP bucket of Kanhan
ii. Ind/18-19/3660/00462 dt 23.09.2018 for 1 no Std height LHD with Chain conveyor bucket of Ballarpur
iii. Ind/18-19/3260/00325 dt 04.08.2018 for 6 nos Standard height LHD with PP bucket of Nagpur area
BC Reference: Capital Budget : FA/CAP/BC/HEMM/299 dated 03.01.2018 for Rs. 79,77,40,282.66

This issues with the approval of WCL's Board of Directors in their 308th meeting held on 02.02.2019, minutes of which are circulated vide Company Secretary's ref no: WCL/BD/Sectt/BM-308/2019/174 dt 13.02.2019


Sr. Manager (MM)


Chief Manager (MM)

Supply Order no 11000112218200 Dt 22.02.2019; M/s Simplex Engg & Foundry works Ltd

BG advising message - 760COV / 767 COV via SFMS

Field number	Particulars
7035	ICICI0000059
7037	WCL556096497

The original bank guarantee issued by the issuing bank shall be sent by the issuing bank to "General Manager (MM) I/c, Materials Management Wing, Western coalfields Ltd HQ, Coal Estate, Civil lines, Nagpur - 440001, Maha rashtra" by **Registered post /AD**.

Any extension / amendments to the BG shall be done following the same procedure as above.

12. **Guarantee - Warranty:** The equipment should be guaranteed for satisfactory operation and performance for a period 12 months from the date of installation / Commissioning or 18 months from the date of receipt and acceptance of equipment, whichever is earlier. In the event of any defect in material, design, workmanship, operation and performance during the aforesaid period, defective materials, spares, sub-assembly components shall be replaced and the equipment rectified and brought back to satisfactory performance free of cost. A Certificate to this effect shall be submitted by you alongwith supplies.
13. **Performance Guarantee Clause for guaranteed availability:** You shall ensure that availability of the machine over a period of 12 months does not fall below 75%. For every 1% fall in the % availability below 75%, 1% of the value of the machine will be deducted. In case the fall in availability below 75% exceeds 10%, the equipment will be rejected out right and the supplier will have to refund the full amount.

The availability will be calculated as per the following formula.

$$\% \text{ Availability} = \frac{8760 - \text{Down Time}}{8760} \times 100$$

Where, Down Time = Maintenance hours + Breakdown hours

14. **Liquidated Damages clause :-** In the event of failure to deliver or dispatch the stores within the stipulated date / period in accordance with the specification mentioned in the supply order, and in event of breach of any terms and conditions mentioned in the supply order, WCL shall have the right,
- To recover from the successful bidder as agreed liquidated damages, a sum not less than 0.5% (half percent) of the price of any stores which successful bidder 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% can be increased to 15% at the discretion of Head of MM division.
 - To purchase elsewhere, after due notice to the successful bidder on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without canceling the supply order in respect of the consignment not yet due for supply, or
 - To cancel the supply order or a portion thereof, and if so desired to purchase the stores at the risk and cost of the defaulting supplier and also-
 - 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.
 - To forfeit the security deposit full or in part.
 - Whenever under this contract a sum of money is recoverable from any payable by the supplier, Coal India Limited and its subsidiary companies shall be entitled to recover such sum by appropriating, in part or in whole by deducting any sum from any other contract should this sum be not sufficient to cover the full amount recoverable. The successful bidder shall pay Coal India Limited and its subsidiary companies on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.
15. **SUBMISSION OF BILLS:**
- For claiming 80% payment,** following documents are to be submitted along with original bills as per terms of the supply order to the consignee.
 - Pre-receipted and stamped GST compliant Invoice as per GST rules and Act indicating HSN code
 - Packing list in original list giving details of bill of materials (Invoice should be strictly as per GST rule 2017)
 - Consignment note / RR/ LR in original.
 - Warranty / Guarantee certificate, if applicable.
 - Manufacturer's test certificate, if applicable.
 - DGMS / BIS / Pre dispatch inspection certificates / any other document, if required as per the contract.

e/hawar

29/2/19

3/29

TECHNICAL SPECIFICATION**Specification Parameter**

2. Standard Height L H D , Electro-hydraulically powered machine (Hydro-statically power Transmission arrangement is not acceptable). It should be of articulated construction to enable negotiation of sharp right angle turns in galleries without repeated maneuvering, and to operate in a mucky floor condition with a maximum gradient of 1 in 6 and cross gradient of 1 in 10. The machine should have only flame proof electricals and shall be fitted with automatic coiling type cable reeling attachment : 10 nos	
A-PARAMETERS	
1-Make of the LHD	Simplex
2-Model of the LHD	D 142/1500
3-Make of the TRANSMISSION of LHD	Dana Spicer
4-Model of the TRANSMISSION of LHD	T20000
B-Electric Motor Details :	
1-K.W. rating of Electric Motor	37 KW
2-Make of the Motor (As indicated in DGMS approval of LHD)	Crompton / LHP / Kirloskar
C-Details of Hydraulic Pump :	
1-Make of the hydraulic pump	Parker - Commercial
2-Type of the hydraulic pump	Gear Type
3-Model No. of the hydraulic pump	PGP 330
4-Rated pressure of the pump in Kg/sq.cm (For , HFDU-68)	241 Bar
5-Make and type of Hydraulic Fluid	DGMS Approved HFDU 68; Hardcastle/Powerlink/Sun Oil/Fuchs
3. Standard Height L H D , Electro-hydraulically powered machine (Hydro-statically power Transmission arrangement is not acceptable). It should be of articulated construction to enable negotiation of sharp right angle turns in galleries without repeated maneuvering, and to operate in a mucky floor condition with a maximum gradient of 1 in 6 and cross gradient of 1 in 10. The machine should have only flame proof electricals and shall be fitted with automatic coiling type cable reeling attachment. Quantity - 1no. With chain conveyor bucket	
A-PARAMETERS	
1-Make of the LHD	Simplex
2-Model of the LHD	D 142/1500
3-Make of the TRANSMISSION of LHD	Dana Spicer
4-Model of the TRANSMISSION of LHD	T20000
B-Electric Motor Details :	
1-K.W. rating of Electric Motor	37 KW
2-Make of the Motor (As indicated in DGMS approval of LHD)	Crompton / LHP / Kirloskar
C-Details of Hydraulic Pump :	
1-Make of the hydraulic pump	Parker - Commercial
2-Type of the hydraulic pump	Gear Type
3-Model No. of the hydraulic pump	PGP 330
4-Rated pressure of the pump in Kg/sq.cm (For , HFDU-68)	241 Bar
5-Make and type of Hydraulic Fluid	DGMS Approved HFDU 68; Hardcastle / Powerlink / Sun Oil / Fuchs
3.0-SCOPE OF SUPPLY :	

Signature

Signature

Supply Order no 11000112218200 Dt 22.02.2019; M/s Simplex Engg & Foundry works Ltd

Item no 2. Number of standard height LOAD HAUL DUMP machines complete : 10 nos.
Item no 3. Number of standard height LOAD HAUL DUMP machines complete : 1 nos.
2-Tool Kit: 1 Set (with each LHD) As per annexure "B" enclosed
3-Operation & Maintenance manual :4 sets (with each LHD)
4-Spare parts catalog : 4 sets (with each LHD)
5-First fill of hydraulic oil, FRHF, grade HFDU-68, DGMS approved or as per DGMS CIRCULAR NO.DGMS/MECH/ TECH.CIR.(APPROVAL) NO.02 DHANBAD, dtd 13.02.2015 and other Lubricants. : Full quantity (with each LHD)
6-Set of filter elements for 1st schedule oil replacement/ maint. Period.
(I) Pressure line filter (10 micron) : 1 Set (with each LHD)
(ii) Return line filter (25 microns, 650 LPM) : 1 no (with each LHD)
4.0-TECHNICAL PARAMETERS :
4.2. - Standard Height LHD (Item No. 2 & 3)
1-Height of machine: standard height
2-Overall height with canopy: 2000 mm - 2200mm
3-Bucket arrangement: Item no 2: Push plate, front discharge bucket - 11 nos.; Item no 3: Chain conveyer - 1no
4-Bucket capacity: Not less than 1.5 Cu. Mtr
5-Overall length shall not be more than
(a) carry position : 6550 mm
(b) bucket down (digging position) : 6900 mm
6-Width : 1800 mm approx.
7-Ground clearance shall not be less than : 170 mm
8-Turning radius not to exceed
(a) Inner : 2400 mm
(b) Outer : 4500 mm
9-No. of wheels (Wheel includes Rim, Lock Ring, Tyre, Tube & Flap complete in all respect): 5 Nos. (4 Nos. fitted with equipment & 1 No. spare wheel)
10-Type and size of tyres: Tube type, Hard Rock lug pattern/other pattern having better grip and life, Heat and cut resistant rubber compound, 9.00 x 20 - 16 PR
11-Travel speed at level : Not less than 8 KMPH
5-Motor: The machine shall be powered by an FLP induction motor of rating (continuous) not less than 37 KW, suitable for 525 V \pm 6%, 3 Ph, 50 Hz systems and provided with suitable arrangement/ mechanism to receive trailing cable, and shall be approved by DGMS for use in machine.
6.0-SERVICE CONDITIONS
1-Ambient temperature: 45 deg. Cent.
2-Humidity: 98%
3-Operating time/Duty: Continuous
4-Type of cable reeler: Hydraulically driven. Length of cable to be accommodated in reeling drum to be furnished. However, the cable reeler shall accommodate not less than 100 meter trailing cable.
7.0-Make of
1-Axles : Clark

Signature

Signature
22/2/19

6/29

2-Transmission : Dana Spicer

8.0-OTHER TECHNICAL CONDITIONS :

1-Distance (Horizontal length) between front wheel center to Tip of the bucket at rest position (on ground) - Not less than 2550 mm.(The mechanism/arrangement of front wheel, connecting arm and the bucket shall be designed and fabricated in view of maintaining sufficient gap between front wheel & bucket, so that safe and centralized loading on 1000 mm conveyor belt is also possible without damaging the conveyor structure).

2-The front and rear frames shall be made of heavy duty, having suitable metallurgical composition and it is to be designed and fabricated for life time under specified conditions.

9.0-SALIENT FEATURES :

1-This specification covers design, manufacture, supply, erection and commissioning requirements of loaders for use in coal faces for the purposes of loading coal. The machines will be required to work in underground coal faces to scoop and load run of mine coal.

2-The equipment should have approval of Directorate General of Mines Safety, Dhanbad, India.

10.0-SAFETY FEATURES :

1-The machine shall be fitted with effective service brake and parking brake (one of them fail safe), which will allow the machine to stand in a gradient of 1 in 6 and cross gradient of 1 in 10 (without rolling down).

2-The machine can be started by operator from machine keeping gate end box at far end.

3- Hose fail check valves on lift ram and roll back rams.

4- Pilot operation (Hydraulically operated pilot circuit operation to be used in rear end operated machines.) for Low Height LHD

5- All the hydraulic loop/loops shall be provided with high pressure line filters of suitable capacity and 10 microns (constant) equipped with suitable color indicators to indicate the cleanliness of the filter element as given below :-

(i) Filter element in good condition

(ii) Filter element dirty and needs replacements.

(iii) Filter element too dirty and the filter by passed.

6- Suction strainers of 40 mesh shall be provided. The capacity should not be less than two times of pump discharge. The strainers shall be easily accessible with minimum handling of hydraulic fluid to facilitate regular cleaning of the strainers.

7- In addition to the above, a tank mounted replaceable filter of 25 micron, 650 LPM shall be provided on the return line with by pass arrangement.

8-Low fluid level cut off and high fluid temperature cut off switch, having adjustable limit between 65 to 75 deg. Cent, should be provided and fitted. The design of equipment and cooling system shall be such that fluid temperature does not exceed permissible limits under continuous operation at full load on above mentioned environment.

9-The machine should be fitted with suitable light at the front and back to ensure good visibility for operator during operation of machine. The lighting arrangement should be suitable to work at 12 volt/24 volt and all fittings used should be FLP duly approved by DGMS.

10-The machine shall be fitted with suitable audio-visual alarm operative when the machine is put to travel in forward/reverse direction. AVA shall be duly approved by DGMS.

11-The hydraulic hoses and hose assemblies used on the machine shall be in accordance with DGMS circular No.1 of 1996 dated 31.1.1996 and shall be approved by DGMS for use in underground coal mines. Or comply with DGMS circular NO.DGMS/MECH/TECH.CIR.(APPROVAL)NO.02 DHANBAD, Dtd 13.02.2015

12-The hydraulic fluid used for the machine shall be non toxic, Fire Resistant, invert emulsions type, HFDU-68 grade. However, the machine shall also be suitable for use with HFB-68 grade fluid.

13-Driver seat-It should be comfortable for operator & adjustable in height

14-Machine must have canopy for operator.

15-Self Sealing hydraulic oil filling arrangement to prevent ingress of dirt should be provided.

16-Limit switch for cable reel-er

Signature

Signature

7/29

17-Indicators for
(a) Pressure gauge with selector,
(b) Temperature indicator,
(c) Fluid level indicators.
11.0-LIFE TIME SPARE PARTS :
1- As undertaken by you, you shall undertake and guarantee to produce and maintain stock 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 plant/equipment through-out its life minimum 06 years or stipulated 21500 working hours whichever is later.
12.0-AVAILABILITY :
1- You shall ensure that availability of the machine over a period of 12 months does not fall below 75%. For every 1% fall in the % availability below 75%, 1% of the value of the machine will be deducted. In case the fall in availability below 75% exceeds 10% the equipment will be rejected out right and the supplier will have to refund the full amount.
2-The availability will be calculated as per the following formula.
$\% \text{ Availability} = \frac{8760 - \text{Down Time}}{8760} \times 100$
Where, Down Time = Maintenance hours + Breakdown hours
13. Guarantee / Warranty: The equipment should be guaranteed for satisfactory operation and performance for a period 12 months from the date of installation / Commissioning or 18 months from the date of receipt and acceptance of equipment, whichever is earlier. In the event of any defect in material, design, workmanship, operation and performance during the aforesaid period, defective materials, spares, sub-assembly components shall be replaced and the equipment rectified and brought back to satisfactory performance free of cost. A Certificate to this effect shall be submitted by you alongwith supplies. (Please refer clause no 12 of supply order)
14. Performance Bank Guarantee: You have to furnish a Performance Bank Guarantee for satisfactory operation and performance valid for 18 months from the date of supply of equipment, equivalent to 10% value of the contract including GST to the FOR Destination price of the equipment on order. The Bank Guarantee shall be released after successful completion of the Guarantee / Warranty period after confirmation from GM(E&M) HOD, WCL Hq. Any short fall of performance availability, deduction shall be made as pr clause no 12.0 (i.e. Availability clause) above. The PBG must be submitted within 15 days from the date of receipt and acceptance of the equipment. No payment shall be made without submission of Performance Bank Guarantee. PBG may be submitted equipment-wise also. (Please refer clause no 11 of supply order).
15. Inspection: Final Inspection of the consignment shall be carried out at the destination stores, which will be arranged by the Consignee on receipt of stores.

W. Hanuman
22/02/19
Sr. Manager (MM)

[Signature]
22/02/19
Chief Manager (MM)

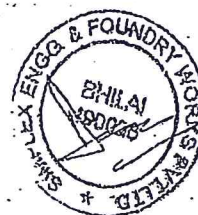
SALIENT FEATURES OF D142/1500 LHD

We had indigenously developed the Load Haul Dumper specifically for Indian Mining condition after in-depth survey at various LHD users mines of WCL, SECL, MCL, ECL and SCCL to precisely learn and understand the problems, difficulties and shortcomings being experienced by them in use of the LHDs. Findings from different users were summarized, analyzed and were specifically addressed in the design, selection of components and manufacturing of the machine. The following salient features of LHD Model D142/1500 offered by us are answering most the questions of actual end users and maintenance crews.

- Choice of bucket from PP type front discharge or Bi-direction Conveyor type side discharge while buying and easy change over at later date with minimum changes in the machine.
- Choice of hydraulic oil in hydraulic system of the machine from ISO VG-46 mineral oil, HFB-68 invert emulsion oil and HFDU-68 organic Ester oil while buying and easy change over at later date without any change in the machine.
- Heavy Duty CLARK axles with no-spin differential for rigidity and reliability.
- Axles and Transmission from one world leading & most preferred manufacturer, CLARK, for optimum performance of the power train. No compromise in power train performance due to miss-match among axles and transmission.
- Rear axle supported from both front & rear sides for reliability, rigidity for lower maintenance cost and down time.
- Wider wheelbase for stability while negotiating steep gradient and also while turning.
- Extra large Mech-6 size drive lines (drive shafts) for reduced maintenance, trouble free operation and longer life.
- Robust and reliable design of Liquid Cooled Brakes (Service and Park) including Spring Applied Hydraulically Released Fail-Safe function from CLARK, world's most preferred manufacturer for reliability and trouble free operation. Liquid Cooled Brakes (Service and Park) are totally enclosed in axle housing & built with minimum number of parts for reduced sensitivity to maintenance and free from external injuries.
- Simultaneous actuation of brake and acceleration prone to cause serious injuries to transmission clutches and can burn the clutch plates, damage the drive lines and axle differentials is prevented by "DEFAULT" in system design. This feature is to eliminate any possible abuse to these components due to ignorant/operating error.
- Operator's friendly controls. Only two numbers of foot paddles for fatigue less driving as compared to conventional three paddles system.

W. J. Hama

W. J. Hama

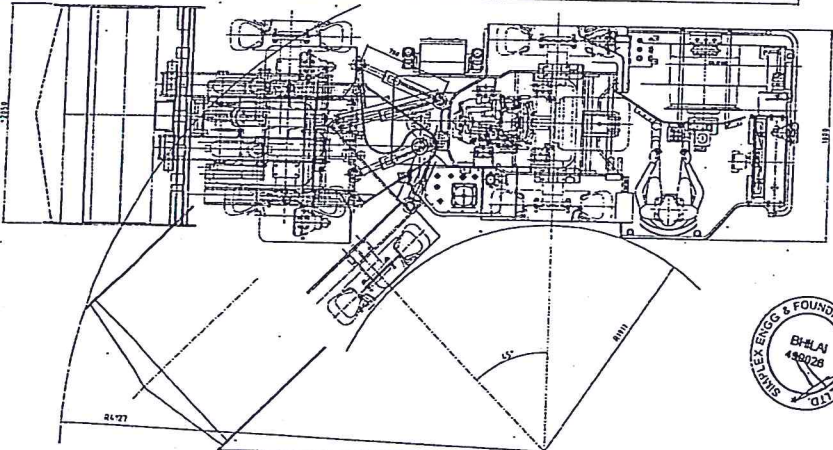
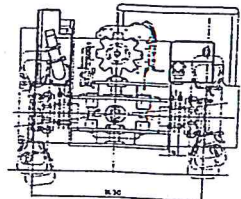
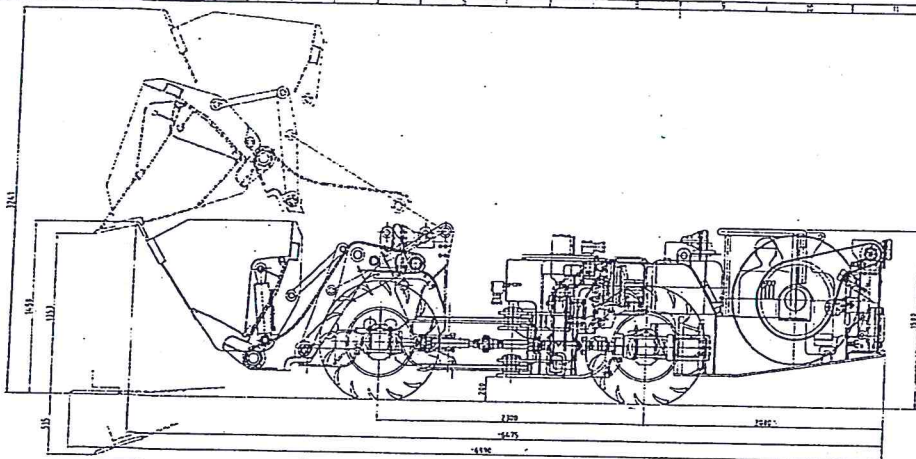


9/29

- Two symmetrically positioned steering cylinders for equal even steering force on both sides with low operating pressure.
- Extra large cable reel diameter of 1100 mm to accommodate 120 meter cable leaving sufficient space in drum to minimize risk of cable damage due to falling of cable out of Drum flanges.
- 37 kW motor in 225 Frame for better winding/winding overhang space and cooling to minimize risk of motor failure due to higher operating temperature of the winding when built in 200 frame. Design of LHD with motor in 225 frame also provides option of higher KW rating, if required for arduous duty just by changing the motor without any other change in the machine.
- Extra large TWIN-COOLER with large fan of 510mm diameter for low operating temperature of HFB-68 oil.
- Choice of alternative position of operator for height over canopy of about 1550 mm for application in lower seam thickness.

Corfawa





TECH. PARAMETERS: MODEL D142/1500

- 1 MACHINE WEIGHT : 8500 kg (APPROX. PAY LOAD : 1.5 TON COAL)
- 2 SPEED : 4 FORWARD SPEEDS
 - 21 FIRST GEAR : 0 TO 3 kph
 - 22 SECOND GEAR : 3 TO 6 kph
 - 23 THIRD GEAR : 6 TO 12 kph
- 31 TRANSMISSION : DANA SPICER T30202 FULL POWER SHFT.
- 41 FRONT AXLE : DANA-SPICER
- 51 REAR AXLE : DANA-SPICER
- 61 AXLE RATIO FRONT/REAR : 26.25 : 1
- 71 ELECTRIC MOTOR 37 KW / FRAME SIZE E235 HD, UP TO 575 HRC VOLTS A.C., 3 PHASE 50 Hz, 1475 rpm.
- 81 CABLE : EQUIPPED WITH AUTOMATIC CROD SUSPENSION FOR TRAILING CABLE 16 SQMM TYPE FT/151 OR FT/151 TO 15-16.5%.
- 91 TYRES : PNEUMATIC 9.00 x 20H - HXL - 3A, RIM 7.00T
- 101 GROUND PRESSURE : UP TO 5 kg/cm² (LOADED).
- 10 BRAKES :
 - PARKING : FAIL-SAFE, SPRING APPLIED HYDRAULICALLY RELEASED FULLY ENCLOSED WET DISC BRAKES ON FRONT WHEELS.
 - SERVICE : FULLY ENCLOSED, WET DISC BRAKE ON ALL FOUR WHEELS.
 - 121 BRAKE CIRCUIT : HYDRAULIC DUAL CIRCUIT ON FRONT & REAR AXLES INDEPENDENT BACKED UP BY ACCUMULATOR RESERVE.
- 131 HYDRAULIC FLUID : FRM HFB-68 / CONDAT D18 (HFOL)
- 141 HYDRAULIC OIL CAP. : 250 LIT.
- 151 OIL COOLER : TWO SECTION FOR HYD. TRANSMISSION OIL.
- 161 STEERING : BY CYLINDER @ 45° BOTH LH & RH SIDES.
- 171 HYD. HOSES : APPROVED BY DGMS



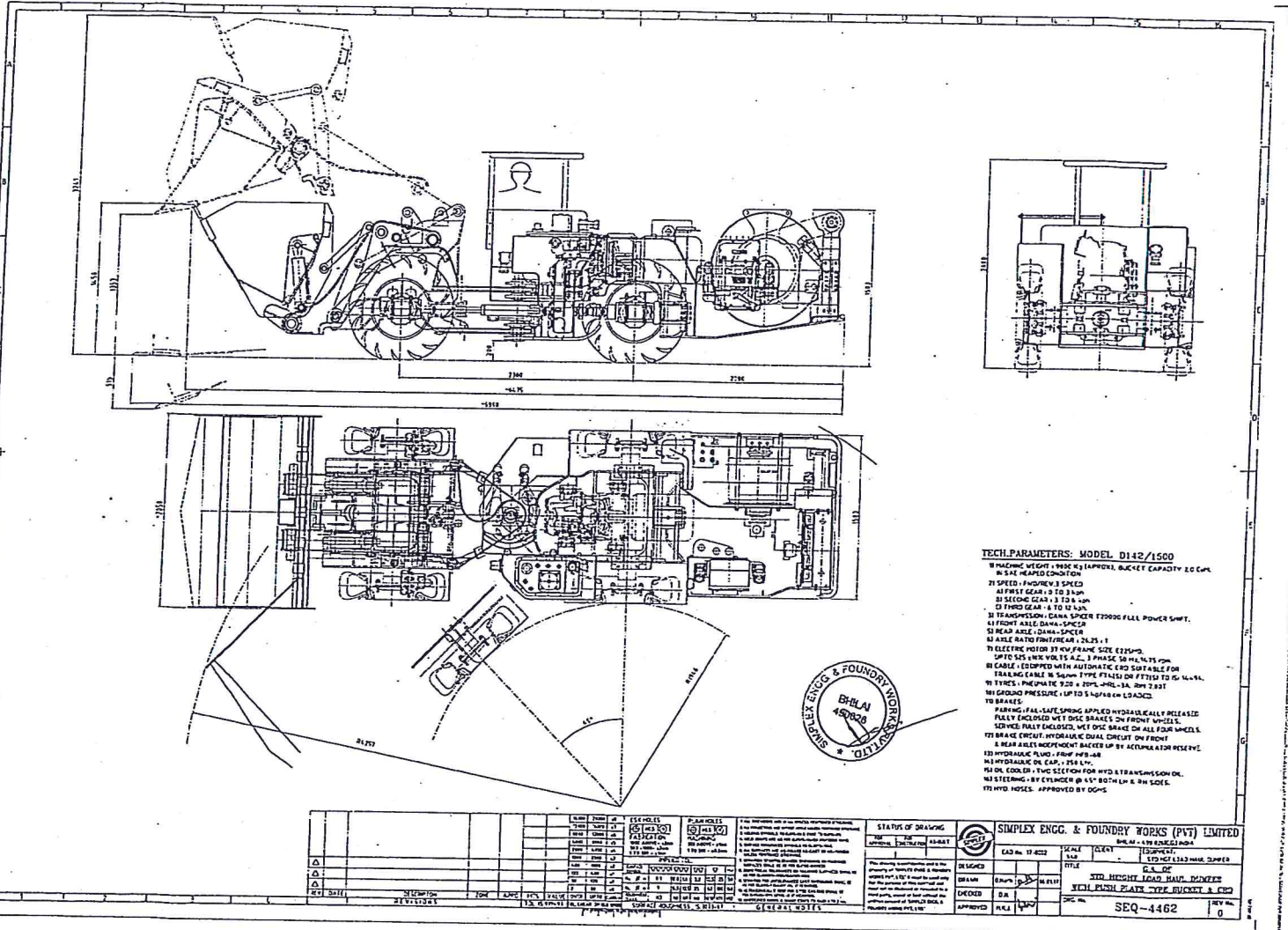
REV. NO.	DATE	DESCRIPTION	BY	CHECKED	APPROVED
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

STATUS OF DRAWING		SIMPLEX ENGG. & FOUNDRY WORKS (PVT) LIMITED	
DESIGNED	DATE	SCALE	TITLE
DRAWN			LOW HEIGHT LIQUID PAUL DUMPER
CHECKED			MILKISH PLATE TYPE SUCKER & CRD
APPROVED			SEQ-4385

W. J. Jagan

11/29

11/29



TECH. PARAMETERS: MODEL D142/1500

- 1) MACHINE WEIGHT - 17000 KG (EMPTY), BUCKET CAPACITY 2.0 CU. M IN SAE REAPED CONDITION
- 2) SPEED - 1.0 (MAX) / 3.0 (REV) / 3.0 (REV)
- 3) FIRST GEAR - 2.5 TO 3.0 KM
- 4) SECOND GEAR - 3.0 TO 4.0 KM
- 5) THIRD GEAR - 4.0 TO 5.0 KM
- 6) TRANSMISSION - CANA SPICER EP2000 FULL POWER SHIFT
- 7) FRONT AXLE - CANA SPICER
- 8) REAR AXLE - CANA SPICER
- 9) AXLE RATIO FRONT AXLE - 26.25:1
- 10) REAR AXLE RATIO - 33.00:1
- 11) ELECTRICAL MOTOR 33 KW FRAME SIZE 1325W
- 12) UPTO 225 VOLT 3 PHASE 50 HZ 1.75 KW
- 13) CABLE - EQUIPPED WITH AUTOMATIC END STOP TABLE FOR TRAILING CABLE IN 50mm TYPE FITTED ON FT150 TO 200 MM
- 14) TIRES - PNEUMATIC 9.00 x 20" - 14R - 1A, ROPS 7.25T
- 15) GROUND PRESSURE - UPTO 5.5 kg/cm² LOAD

TO BRAKES

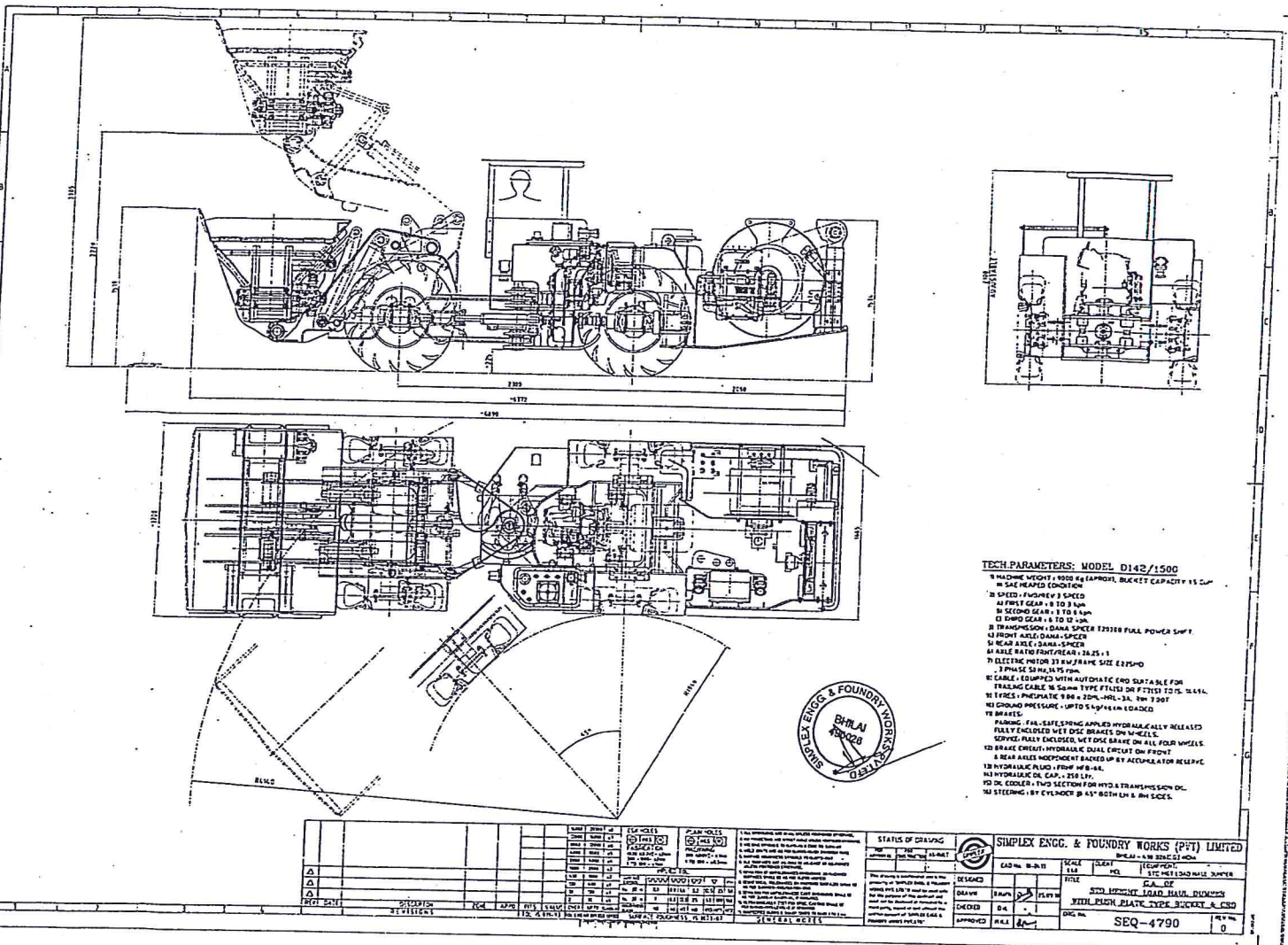
- 1) PARKING BRAKE - SPRING APPLIED HYDRAULICALLY RELEASED
- 2) FULLY ENCLOSED WET DISC BRAKES ON FRONT WHEELS
- 3) SERVICE FULLY ENCLOSED, WET DISC BRAKE ON ALL FOUR WHEELS
- 4) BRAKE CIRCUIT - HYDRAULIC DUAL CIRCUIT ON FRONT & REAR AXLES
- 5) REAR AXLES MOUNTED BACKED UP BY ACTUATOR ARM RELEASE
- 6) HYDRAULIC FLUID - FMF# 468-48
- 7) HYDRAULIC OIL CAP. - 150 LTR
- 8) ON EOOD IN THIS SECTION FOR HYD. TRANSMISSION OIL
- 9) 100 LITERS - 80 LITERS IN 800 LTR & 80 LTR
- 10) HYD HOSES - APPROVED BY CODE

REVISION		MATERIAL		STATUS OF DRAWING		SIMPLEX ENGG. & FOUNDRY WORKS (PVT) LIMITED	
NO.	DATE	BY	CHKD	DATE	BY	DATE	BY
1							
2							
3							
4							
5							

W. H. Kumar

D
22/01/19

12/29



TECH PARAMETERS: MODEL D142/1500

- 1 MACHINE WEIGHT: 1500 KG (APPROX), BUCKET CAPACITY 1/5 CUM
- 2 SAE REAR END OPTION
- 3 SPEED: FOURGEAR 3 SPEED
- 4 1ST GEAR: 0 TO 3 km/h
- 5 2ND GEAR: 3 TO 6 km/h
- 6 3RD GEAR: 6 TO 12 km/h
- 7 TRANSMISSION: DANA SPETER 123118 FULL POWER SHFT
- 8 FRONT AXLE: DANA-SPICER
- 9 REAR AXLE: DANA-SPICER
- 10 AXLE RATIO FRONT/REAR: 24.25:1
- 11 ELECTRIC MOTOR 37 KW FRAME SIZE 4375/40
- 12 PHASE 50 Hz, 3/45 rpm
- 13 CABLE: EQUIPPED WITH AUTOMATIC CCO STOP TABLE FOR TRAILING CABLE IN SAME TYPE F1413 OR F1718 10/15 3/45/4
- 14 TYRES: PNEUMATIC 9.00 x 20" - 14L - 3A, 100% T 202
- 15 CHONDING PRESSURE: 10 PSI/4 kg/cm² ROAD
- 16 BRAKES:
 - 16.1 FRONT: FULL SAFE SPRING APPLIED HYDRAULICALLY RELEASED FULLY ENCLOSED WET DISC BRAKES ON WHEELS
 - 16.2 REAR: FULLY ENCLOSED WET DISC BRAKE ON ALL FOUR WHEELS
 - 16.3 BRAKE CREDIT: HYDRAULIC DUAL CIRCUIT ON FRONT & REAR AXLES INDEPENDENT BACKED UP BY ACCUMULATOR RESERVE
- 17 HYDRAULIC FLUID: F100W 46-48
- 18 HYDRAULIC OIL CAP.: 25 LITR
- 19 DC COOLER: TWO SECTION FOR HYD & TRANSMISSION OIL
- 20 STEERING: BY EYEGLASS Ø 65x80 IN LH & RH SIDES

NO.	REV.	DESCRIPTION	DATE	BY	CHECKED
1	1	ISSUED FOR APPROVAL			
2	2	ISSUED FOR MANUFACTURE			
3	3	ISSUED FOR MODIFICATION			
4	4	ISSUED FOR REVISION			

STATUS OF DRAWING DESIGNED: [] DRAWN: [] CHECKED: [] APPROVED: []		SIMPLEX ENGG. & FOUNDRY WORKS (PVT) LIMITED BHILAI - 490028 TEL: 031-2511111 FAX: 031-2511111	
DRAWN: [] CHECKED: [] APPROVED: []	SCALE: [] DATE: []	SHEET NO: [] TOTAL SHEETS: []	PROJECT NO: [] DRAWING NO: []

collamar

[Signature]
27/11/19

13/29

भारत सरकार
श्रम एवं रोजगार मंत्रालय
खान सुरक्षा महानिदेशालय
विद्युत मुख्यालय : धनबाद

संख्या 443/1515 /वि० मु०, धनबाद, दिनांक 11-08-2015
प्रेषक :

खान सुरक्षा उपमहानिदेशक (विद्युत)
खान सुरक्षा महानिदेशालय : त्रिकारु, भवन
धनबाद-826 016.

सेवा में

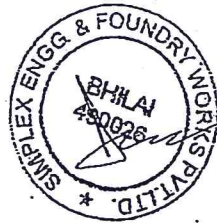
स्पीडपोस्ट

श्री दीपक जैन, जनरल मैनेजर (मार्केटिंग)
मेसर्स सिमप्लेक्स इंजीनियरिंग एण्ड फाउंड्री वर्क्स,
65, इंडस्ट्रियल इस्टेट
भिलाई - 490 026 (छत्तीसगढ़) ।

विषय : लोड हॉल डम्पर मशीन, मॉडल संख्या-D142/1500 का कोयला खान में प्रयोग हेतु अनुमोदन संख्या 538/2005 का अनुमेय विभिन्नता के संबंध में - निर्माता मेसर्स सिमप्लेक्स इंजीनियरिंग एण्ड फाउंड्री वर्क्स, भिलाई ।

महोदय,

उपरोक्त विषय से संबंधित पत्र अग्रेषित किया जाता है ।

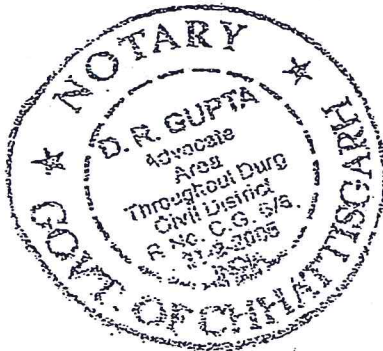


भवदीय,

31/8

10/8
(राहुल गुहा)

खान सुरक्षा महानिदेशक



True Copy/Photo Copy/Attested
D. R. GUPTA NOTARY DURG

28 SEP 2015

[Handwritten signature]

14/29



S-29020/38/181(3)/R/2006/EHQ
 भारत सरकार/Government of India
 श्रम एवं रोजगार मंत्रालय
 Ministry of Labour & Employment
 खान सुरक्षा महाविशालय/
 Directorate General of Mines Safety

Speed Post



No.

443/1515

/EHQ, dated the

11-08-2015

From:

The Director General of Mines Safety
 Directorate General of Mines Safety
 P.O & Distt: Dhanbad - 826 016.

To

Shri Deepak Jain General Manager (Mk14.)
 M/s. Simplex Engineering & Foundry Works Pvt. Ltd.
 65, Industrial Estate
 Bhilai - 490 026 (Chhattisgarh).

Sub:- Renewal of DGMS approval no. 538 of 2005 under Regulation 181(3) of the Coal Mines Regulations, 1957 for flameproof and intrinsically safe electricals and other mechanical equipments to be associated with Load Haul Dumper (LHD) machine, model no. D142/1500 (as mentioned in Annexure-B) manufactured by M/S Simplex Engineering & Foundry Works Pvt. Ltd., Bhilai-490 026 (Chhattisgarh) for use in belowground Coal Mines.

Manufacturer's declaration as to Standard with which the machine complies in respect of:

(a)	General design, rating & performance	:	as per drawing submitted
(b)	Intrinsically safe electricals	:	IS/IEC 60079-11:2006
(c)	The flameproof construction of electricals	:	IS/IEC 60079-1:2007

IDENTIFICATION MARK
 DGMS APPROVAL No. 538 of 2005

Dear Sirs,

Please refer to your letter no. SE/MKTG/DGMS/LHD dated 10.06.2015 on the above mentioned subject.

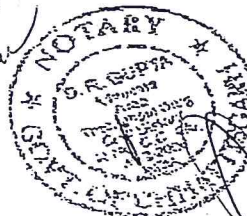
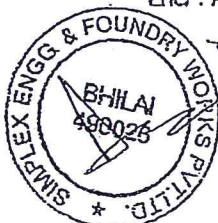
Based on DGMS approval no. 538 of 2005 issued by this Directorate's letter no. 443/905/EHQ dated 18.07.2005 for Load Haul Dumper (LHD) machine, model no. D142/1500 manufactured by M/s. Simplex Engineering & Foundry Works Pvt. Ltd., Bhilai-490 026 (Chhattisgarh), I hereby renew the approval upto 18.07.2020 from the date of expiry i.e. from 18.07.2015 for use in belowground Coal Mines, subject to compliance with conditions mentioned in the Annexure-A.

The application for renewal should be made at least three (03) months before the date of expiry of the approval.

Yours faithfully,

(Rahul Gaha)
 Director General of Mines Safety

End : Annexure-A&B



True Copy/Photo Copy/Attested
 D. R. GUPTA NOTARY DURG

28 SEP 2015

15/28

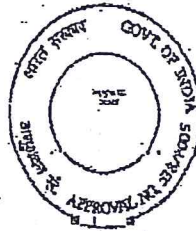
Annexure-A

DGMS approval no. 538 of 2005 renewed by Directorate's letter no. 443/1515 /EHQ dated 11-08-2015

Conditions for renewal of DGMS approval no. 538 of 2005 under Regulation 181(3) of the Coal Mines Regulations, 1957 for flameproof and intrinsically safe electricals and other mechanical equipments to be associated with Load Haul Dumper (LHD) machine, model no. D142/1500 (as mentioned in Annexure-B) manufactured by M/S Simplex Engineering & Foundry Works Pvt. Ltd., Bhilai-490 026 (Chhattisgarh) for use in belowground Coal Mines.

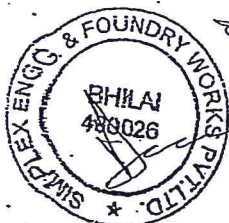
1. (i) Every Load Haul Dumper (LHD) machine, model no. D142/1500 shall carry conspicuously in a permanent manner the aforesaid identification mark, i.e. "DGMS APPROVAL NO. 538 of 2005 renewed by Directorate's letter no. 443/1515 /EHQ dated 11-08-2015"

In addition, every machine shall also carry permanently this Directorate's approval mark given below :



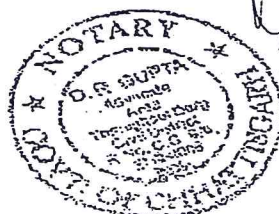
(ii) In the nameplate marking shall be in accordance with the applicable requirements of the relevant standards.

2. The relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 shall be complied with in all matter relating to the installation, operation and maintenance of the equipment.
3. The electric supply to the machine shall be controlled and protected by DGMS approved flameproof Gate-end-Box of suitable rating and provided with sensitive earth leakage protection.
4. All covers, doors/access covers of the electrical equipment mounted on the machine, the opening removal of which may expose live internal conductors thereon shall have warning instructions either raised lettering or by other suitable means against such opening/removal or covers, doors and access covers without isolating supply of energy to the equipment from its source.
5. The plug and socket assembly affixed to the motor/panel, if provided, will be so interlocked as to prevent withdraw of plug from the socket while alive.
6. Any replacement part required for maintenance of the equipment which is directly or indirectly connected to the flameproof features thereof shall be supplied by the manufacturer as and when required.



Handwritten signature

Handwritten text: श्री. र. सुब्बा 07-08-15



True Copy/Photo Copy Attested :
Handwritten initials
D. R. GUPTA NOTARY DURG

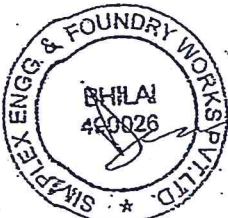
Contd.P-2

28 SEP 2015

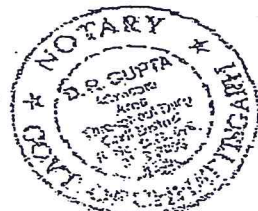
16/29

-2-

7. The electrical equipment and cables associated with the machine shall be checked by the Electrical Supervisor of the mine for their respective flameproofness of the equipment and condition of cables in the beginning of each working shift and the findings thereof enter into a bound-paged book maintained for that purpose which shall be duly signed by the Electrical Supervisor with the date.
8. The user shall furnish the performance report of the equipment directly to this Directorate after one (01) year of actual use.
9. Every customer shall be provided at the time of delivery of each of the equipments with following documents :
- A copy of the factory test report of the particular equipment with serial number.
 - An instruction manual on the maintenance, handling, installation & spare parts catalogue of the equipment.
 - A copy of this renewal approval letter and original approval letter.
10. The personnel who may be entrusted with the responsibility for the use, maintenance and operation of the machine shall be given adequate training for so much of the work may be enjoined on them.
11. The actual users in consultation with the manufacturer shall frame a code of practice for the control and guidance of persons employed for the installation, operation and maintenance of Load Haul Dumper (LHD) machine, model no. D142/1500 and associated equipments as well as for prevention of accident and to provide safety, health, convenience and discipline of persons so employed. The code of practice duly approved by the concerned Deputy Director General of Mines Safety shall be strictly complied with.
12. All technical assistance shall be rendered by the supplier at the time of initial installation of the machine underground. The supplier shall also maintain contact with the user to get themselves fully apprised of any difficulty that may be faced by the user in the matter of use, maintenance and operation of the machine.
13. The manufacturer shall arrange for first time filling with approved type fire resistant hydraulic fluid HSB-68 or its equivalent in hydraulic system in the machine.
14. The high pressure hydraulic hoses supplied with the machine shall be confirmed to British Coal Specification 174 of 1992
15. The cables in the LHD shall fulfil the requirement of provisions of the DGMS Tech. Circular (Electrical) No. 12 dated 25.05.2015
16. The approval is renewed upto 18.07.2020 from the date of expiry i.e. from 18.07.2015.
17. At the time of applying for renewal, details of supply with name of mines, purchase order and date shall be furnished with the application.
18. Any modification/alteration to the machine that might be considered necessary at a later date in the interest of safety or/and efficient handling, operation, maintenance and manoeuvrability of the machine shall be carried out upon being so directed



Signature
 श्री. स. लक्ष्मी
 04-08-15



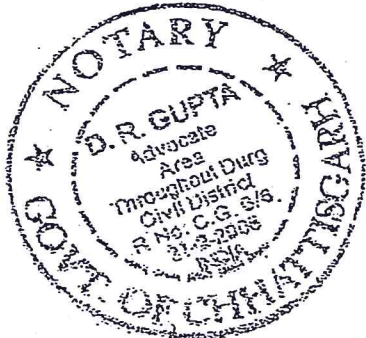
True Copy/Photo Copy/Attested Contd.P-3
 D. R. GUPTA NOTARY DURG

28 SEP 2010

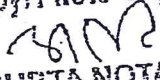
Signature
 29/9/29

- 19. If at any time any of the conditions subject to which this approval has been granted, is violated or not complied with, this approval shall be deemed to have been revoked with immediate effect.
- 20. The above approval may be amended or withdrawn at any time, if considered so necessary in the interest of safety and is being issued without prejudice to any other provisions of law which may be or may become applicable at any time.


(Rahul Guha)
Director General of Mines Safety

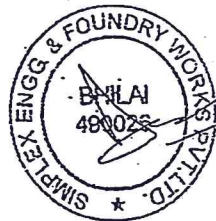


True Copy/Photo Copy/Attested


D. R. GUPTA NOTARY DURG

28 SEP 2019

Signature



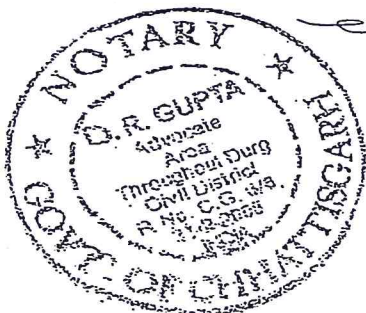

11/19

18/29

ANNEXURE-B

List of flameproof and intrinsically safe electricals and other mechanical equipments to be associated with Load Haul Dumper (LHD) machine, model no. D142/1500 manufactured by M/S Simplex Engineering & Foundry Works Pvt. Ltd., Bhilai-490 026 vide DGMS approval no. 538 of 2005 renewed by Directorate's letter no. 443/1515 /HQ dated 11.08.2015.

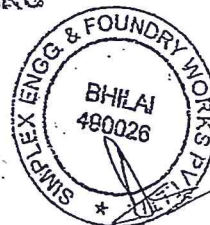
Sl. No.	Details of FLP, IS electricals & mechanical components	Name of Manufacturers (M/S)	DGMS approval no.
1.	FLP fan cooled squirrel cage induction motor in frame size-E225M rated at 60 HP, 550 V, 3 phase, 50 Hz	Crompton Greaves Ltd., Ahmednagar	80 Group-I of 1974
	FLP fan cooled squirrel cage induction motor in frame size-LE225M rated at 60 HP, 550 V, 3 phase, 50 Hz	Kirloskar Electric Co. Ltd., Hubli	226 of 1982
2.	FLP/WP cable reeling drum with plug & socket model no.KRD-1 rated at 300 A, 1100 V, flameproof drum compartment of 5 band slip-ring	Kaysons Techno Equipment Pvt. Ltd., Gujarat	525 of 2005
3.	FLP Isolator & Control Box Type KIB-1 manufactured by Kaysons Techno Equipment Pvt. Ltd.	Kaysons Techno Equipment Pvt. Ltd.	548 of 2006
4.	Float/Level Switch Type KSW-E & KSW-B	Kaysons Techno Equipment Pvt. Ltd., Gujarat	505 of 2004 529 of 2005
5.	Temperatura switch type-KSW-1A Type KSW-A	Kaysons Techno Equipment Pvt. Ltd., Gujarat	505 of 2004 529 of 2005
6.	FLP limit switch type KSL-A	Kaysons Techno Equipment Pvt. Ltd., Gujarat	547 of 2006
7.	ON-OFF Switch type KPB2-A	Kaysons Techno Equipment Pvt. Ltd., Gujarat	505 of 2004
8.	Start/stop (on/off) push button station type-KPBI-A	Kaysons Techno Equipment Pvt. Ltd., Gujarat	505 of 2004
9.	FLP/WP head light type KHL-A & B	Kaysons Techno Equipment Pvt. Ltd., Gujarat	471 of 2000
10.	Junction box type KJB1-A	Kaysons Techno Equipment Pvt. Ltd., Gujarat	505 of 2004
11.	Audio visual alarm with power unit 24 VAC/12 VDC for AVA	Electrical Equipment Corporation, Gurgaon	47 of 1990



True Copy/Photo Copy/Attested

D. R. GUPTA NOTARY DURG

28 SEP 2018



(Rahul Guha)
Director General of Mines Safety

19/29

LIST OF TOOLS IN TOOL KIT

Sl. No.	Item Description	Quantity
1.	Ball Point Hammer 1 & 0.5 lbs.	01 No. each
2.	Electric Line Tester	01 No.
3.	Allen Key Set	01 Set.
4.	Set of Bi-hexagonal Ring spanners of sizes 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm, 24 x 27 mm etc.	01 Set
5.	Set of DE open jaw spanner of sizes 10x11 mm, 12x13 mm, 14x15 mm, 16x17 mm, 17x19 mm, 22x25 mm, 24x26 mm, 20x22 mm etc.	01 Set
6.	SE open jaw Spanner 55 mm	01 No.
7.	Screw Drivers of 6", 12" & 18"	01 no. each
8.	Set of Double ended hexagon socket 1/2" sq. Driver 24mm, 30 mm, 19 mm, 17 mm, 15 mm, 14 mm, 13 mm etc.	01 Set
9.	Tool Box for keeping Tools	01 Nos.
10.	Sliding Wrench of max. Opening 43 mm	01 No.
11.	Cutting Pliers 8" size	01 No.
12.	D-Open Spanner 36 x 41 mm	01 No.
13.	Emery Stone piece	01 No.
14.	Wheel Nut spanner	01 No.
15.	Grease Gun with adaptor and pipe 5 kg	01 Set

for SIMPLEX ENGINEERING & FOUNDRY WORKS PVT. LTD.

(DEEPAK JAIN)
GENERAL MANAGER - MARKETING



[Signature]
20/1/19

20/29

