



Bharat Coking Coal Limited (A Subsidiary of Coal India Limited) (A GOVT. OF INDIA UNDERTAKING) Koyla Bhawan, Koyla Nagar, Post- B.C.C.L. Township, DHANBAD-826005 (Jharkhand) OFFICE OF THE GENERAL MANAGER (MM) Phone No. 0326-2230181 Fax No. 0326-2230183

Purchase Order

Ref No. BCCL/PUR/412128(12-13)/2.7-3.2 Cum HDBH, 3.2-3.8 Cum HDFS with MARC/13-14/90 Dated: 27.07.2013

To, M/s L&T CONSTRUCTION EQUIPMENT LIMITED BELLARY ROAD, BYATARAYANAPURA, BANGALORE-560092

> VENDOR CODE-1/20/M/T/025 Vendor Type- OEM FAX NO-080-23636065

Sub: Supply of 16 nos 2.7 - 3.2 Cum HDBH Shovel with 07 Years MARC and 02 nos. 3.2-3.8 Cum

HDFS shovel with 07 Years MARC.

Ref: Your offer No CEB/DHN/BCCL/13-14/1110 dated 20.05.13 read with subsequent clarifications last being CEB/DHN/NIT02/OFFLINE/05 dated 20.06.13 against this office Domestic open/advertised E-Tender Ref No. BCCL/PUR/412128(12-13)/2.7-3.2 Cum HDBH, 3.2-3.8 Cum HDFS with MARC/13-14/02 Dated: 04.04.2013, Due date OFF-LINE 20-05-2013/ ON-LINE 21-05-2013 read with subsequent letters Last being PUR/ PUR/412128(12-13)/2.7-3.2 Cum HDBH, 3.2-3.8 Cum HDFS with MARC/13-14/Dated:10.06.2013

Dear Sirs.

Your above referred offer for supply of 16 nos 2.7 - 3.2 Cum HDBH Shovel with 07 Years MARC and 02 nos. 3.2-3.8 Cum HDFS shovel with 07 Years MARC has been accepted to the extent as indicated hereunder:-

1. SCOPE OF SUPPLY

A. Equipment: Diesel Powered Hydraulic Excavator with 2.7-3.2 Cu.M. Back-Hoe Bucket (NCD)

SI.No	Particulars	Qty (Set)	Unit Rate (Rs) (Ex works Bangalore)	Extended Value (Rs)
1.	Equipment (Ex Works Bangalore) as per Annexure A	16 Nos	00.000,00,80,1	17,28,00,000.00
2.	ED @ 12.36%			2,13,58,080.00
3.	CST @ 2%			38,83,161.60
4.	Freight Charges		5,20,623.00	83,29,968.00
5.	Transit Insurance		6885.00	1,10,160.00
	Total (Equipment)			20,64,81,369.60
6.	Spares for 1st Year(Ex Depot Dhanbad) As per			
	Annexure-B- I (a)	16 Sets	5,08,027.38	81,28,438.08
7.	ED @ 12.36%			Inclusive
8.	VAT @ 14%			11,37,981.33
	Total (Spares 1st Year)			92,66,419.41
9.	Consumables for Ist Year (Ex Depot Dhanbad) As			
	per Annexure-B-I (b)	16Sets	40,856.30	6,53,700.80
10.	ED @12.36%			Inclusive
11.	VAT @ 14%			91,518.11
	Total (Consumables 1 st Year)			7,45,218.91
	nent, Spares (1 st Year) & Consumables (1 st Year)			
1	Purchase Value			21,64,93,007.92
	Marc Price for 7 years		3,19,02,554.00	51,04,40,864.00
	anded Price of Equipment with Spare & Consumable tranty Period and MARC Price for 7 years			72,69,33,871.92

24 4 13

July 2

Supply Point:

Equipment:

Supply and billing will be from M/s L&T CONSTRUCTION EQUIPMENT LIMITED BELLARY ROAD, BYATARAYANAPURA, BANGALORE-560092

Spares & Consumables:

Supply and billing will be from Larsen & Toubro Limited, Dhansar, Dhanbad 828106 as per ANNEXURE B-I (a) & B-I (b)

B. Equipment: Diesel Powered Hydraulic (F/S) Excavator with 3.2-3.8 Cu.M.(NCD)

Sl.No	Particulars	Quantity	Unit Rate (Rs) (Ex works Bangalore)	Extended Value (Rs)
1.	Equipment (Ex Works Bangalore) as per Annexure	02 Nos		
	A		1,10,50,000.00	2,21,00,000.00
2.	ED @ 12.36%			27,31,560.00
3.	CST @ 2%			4,96,631,20
4.	Freight Charges		5,20,623.00	10,41,246.00
5.	Transit Insurance		6885.00	13,770.00
	Total (Equipment)			2,63,83,207.20
6.	Spares for 1st Year(Ex Depot Dhanbad) As per			
	Annexure-B II (a)	02 Sets	5,08,027.38	10,16,054.76
7.	ED @ 12.36%			Inclusive
8.	VAT @ 14%			1,42,247.67
	Total (Spares 1st Year)			11,58,302.43
9.	Consumables for 1st Year (Ex Depot Dhanbad) As	ζ.		
<u>'</u>	per Annexure-BII (b)	02 Sets	40,856.30	81,712.60
10.	ED (@12.36%			Inclusive
11.	VAT @ 14%			11,439.76
	Total (Consumables 1st Year)			93,152.36
Equipn	nent, Spares (1st Year) & Consumables (1st Year)			
landed	Purchase Value			2,76,34,661.99
Total N	Marc Price for 7 years		3,19,02,554.00	6,38,05,108.00
Total L	anded Price of Equipment with Spare & Consumable			
for Wa	rranty Period and MARC Price for 7 years			9,14,39,769.99

Supply Point:

Equipment:

Supply and billing will be from M/s L&T CONSTRUCTION EQUIPMENT LIMITED BELLARY ROAD, BYATARAYANAPURA, BANGALORE-560092

Spares & Consumables:

Supply and billing will be from Larsen & Toubro Limited, Dhansar, Dhanbad 828106 as per ANNEXURE B-II (a) & B-II (b)

24/4/12

15/02/12

C. MARC:

MARC agreement for a period of Seven years (including one year warranty) is to be signed separately by the Purchaser and MARC holder (M/s L&T LIMITED, Dhansar Dhanbad) and documented as per NIT and as agreed by you (Draft copy enclosed). The MARC agreement will be an integral part of this supply order.

Year wise hourly Spares and Supervision & Overhead Charges for MARC indicated below for expected annual working hours of 5000 Hrs.

Year	Total Spares and consumables charges per working hour of equipment including all taxes & duties (in Rs.)	Supervision and overhead charges per available hour of equipment excluding service tax. (in Rs.)
1	Nil	325.00
2	500.00	138.00
3	812.00	138.00
4	679.00	138.00
5	1020.00	138.00
6	1026.00	138.00
7	1048.00	138.00

NOTE: Present applicable rate of service tax on supervision and overhead charges is 12.36%.

TOTAL PURCHASE VALUE (Equipment with Spares & Consumables for Warranty period): Rs 24,41,27,669.91 (Rupees Twenty Four Crore Forty One lakhs Twenty Seven Thousand Six Hundred Sixty Nine Paisa Ninety One) only. The above price is on Ex-works – Bangalore for equipment & Ex- Depot Dhanbad for spares and consumables for warranty period & firm till completion of order; however the contract is concluded on F.O.R. destination basis. Duties & taxes and other charges are payable extra as indicated in the scope of supply above.

EXCISE DUTY WITH EDUCATION CESS: Shall be paid extra at legally applicable rates at
the time of delivery, subject to production of documentary evidence. Present rate is @ 12.36% on
basic price of equipment, spares & Consumables for warranty period @12.36%.

Refund/Credit, if any, obtained shall be passed on to the buyer which shall be certified by your auditor and to be submitted along with your bill.

BCCL is entitled to avail CENVAT credit on account of Excise duty for Indigenous products and Countervailing Duty and Special additional duty for imported products. The invoice issued by the supplier should contain the following element as per Central excise rule:-

- Name and address of assessee
- · Serial No. of Invoice (should not be hand written)
- · Central excise duty Registration No.(assessee & consignee)
- Address of the concerned Central Excise Division
- Range and commissionerate.(assessee& consignee)
- Name and address of the consignee
- · Description and Classification of the goods
- Time and date of removal
- Mode of Transport and vehicle registration number
- · Rate of duty
- · Quantity and value of goods and the Duty payable thereon.
- Education Cess and Higher Education Cess to be shown separately for complying with CENVAT Credit rules.
- Five copies of invoice are to be submitted among those original copies being marked as the "original for buyer", duplicate as "duplicate for transporter".
 - Invoice issued by input service providers should contain the Following information:
- · Serial No. of invoice(should not be hand written)
- Name, address and registration no. of person providing taxable service.
- Name and address of the person receiving taxable service.
- Description, classification and value of taxable service provided or to be provided
- Service tax payable thereon
- Education Cess and Higher Education Cess to be shown separately for complying with CENVAT Credit rules.

Consignor/Service providers should show excise/service tax element separately in their offer and invoice should be raised as per Cenvat credit rules as stated earlier.

 SALES TAX: CST shall be paid extra @2% against form "C" on price of equipment and VAT @14% on Spares & Consumables for warranty period.

NB: Any increase in duties & taxes after expiry of delivery period shall be to your account.

Road permit, if required, shall be obtained from the consignees.

- 5. PACKING & FORWARDING CHARGES: NIL.
- FREIGHT/TRANSPORTATION CHARGES INCLUSIVE OF SERVICE TAX: To be paid extra at actual subject to a maximum of Rs.5,20,623.00 (Rupees Five lakh Twenty Thousand Six

24/4/13 X

2/07/13

Hundred Twenty Three) only per equipment subject to production of documentary evidence. The transport charge is inclusive of service tax at legally applicable rate. Freight/Transportation Charges are not applicable for spares & consumable for $\mathfrak{f}^{\mathfrak{q}}$ year.

7. TRANSIT INSURANCE INCLUSIVE OF SERVICE TAX: To be paid extra at actual subject to a maximum of Rs. 6.885.00 (Rupees Six Thousand Eight Hundred Eighty Five) only per Equipment subject to production of documentary evidence. The transit insurance charge is inclusive of service tax at legally applicable rate. Transit Insurance Charges are not applicable for spares & consumable for 1st year.

8. TERMS OF PAYMENT:

€.

FOR EQUIPMENT:

- (a) 80%value of each equipment and the accessories and 100% Excise duty and full concessional ST/CST along with 100% transportation & Insurance charges will be paid within 21 days after delivery of the equipment and receipt and acceptance of performance bank guarantee. The equipment should be accompanied with relevant dispatch documents like Challan, Maker's Test Cum Inspection Certificate Warranty Certificate, Pre dispatch inspection certificate wherever applicable etc.
- (b) Balance 20% payment shall be made within 21 days of successful completion of erection testing, commissioning and final acceptance of the equipment (along with accessories) at site upon presentation of a certificate from the project Officer the effect that the equipment has been erected and commissioned to their entire satisfaction.

FOR MARC

- i. Billing Schedule
- ii. On the first working day of each month, BCCL shall notify in writing to the MARC Holder the readings of the Service Hours Meter recorded in the previous month in respect of each equipment. The Available Hours and the Working Hours will be calculated based on the above readings of Service Hours Meter and the equipment Log-Book to be maintained jointly by BCCL and MARC holder as per Clause-7 (i), Part-F, Sec-VI.
- iii. The MARC Holder may within 5 days of the succeeding month provide to BCCL an invoice, along with the following documents, for monthly price payable to it for the preceding month:
 - a). Certified copy of the relevant pages of the Equipment Log-Book applicable for the particular month;
 - Certified copy of the notification of readings of Service Hour Meter applicable for the particular month.
- iv. If BCCL agrees with the amount of the invoice after audit and verification, it shall make the payment of the invoice to the MARC Holder within 21 (twenty one) days from the date of receipt and acceptance of the invoice.

BCCL is making payment of supplier's bills through Electronic Fund Transfer (EFT). Bidders are therefore, advised to indicate their Bank Account number and other Bank Details in their Invoice. Name of the Bank.

Name of the Branch with complete address.

Party's Account Style.

Party's nature of Account.

Party's Account Number...

Your E-Payment mandate is enclosed as ANNEXURE-S

9. DELIVERY:

A. Diesel Powered Hydraulic Excavator with 2.7-3.2 Cu.M. Back-Hoe Bucket 09(Nine) to be supplied within 6 months from the date of receipt of purchase order and rest at the rate of 02 (Two) shovels per month thereafter. Delivery schedule shall be reckoned from the 10TH day from the date of order and the date of receipt of materials at our stores shall be treated as the date of delivery.

After supply of the first 11 Nos, the remaining 05 Nos will be supplied on confirmation from this office and above delivery period will be reckoned from the date of issue of confirmation.

B. Diesel Powered Hydraulic (F/S) Excavator with 3.2-3.8 Cu.M.
02 (Two) nos shovel to be supplied within 06 months from the date of receipt of supply order. Delivery schedule shall be reckoned from the IOTH day from the date of order and the date of receipt of materials at our stores shall be treated as the date of delivery.



10. LIQUIDATED DAMAGES CLAUSE: The bidders will confirm their acceptance of the following:

In the event of failure to deliver/dispatch the equipment/stores within the stipulated date/period to effect—supply 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, Bharat Coking Coal Ltd., shall be entitled at its option either to enforce the following:

- 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 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) and where felt necessary by BCCL, it may be increased up to 15%.
- To cancel the supply order or a portion thereof, and if so desired to purchase the stores at the risk and expenses of the defaulting supplier and also/or
- c. To purchase elsewhere after 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
- d. To extend the period of delivery with or without liquidated damages as may be considered fit and proper. The liquidated damages if imposed, shall not be more than the agreed liquidated damages referred to in CLAUSE 9 (a) above except in case of force majeure condition
- e. Whenever under this contract any sum of money is recoverable from and payable by the supplier, Bharat Coking Coal Limited, 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, should this sum be not sufficient to recover the full amount recoverable, the successful tenderer shall pay. Bharat Coking Coal Limited, the balance amount on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase. To forfeit the security deposit fully or in part.

11. CONSIGNEE:

The 2.7-3.2 m3 Hyd (B/H) shovel allocated to the mine projects are as follows which is subject to change as per the requirement of purchaser:

SI No.	Area/Project	Total Requirement
		Under NCD
1.	Block-II Area	02 nos
2.	Barora Area	01 no
3.	Govindpur Area	02 nos
4.	Katras Area	02 nos
5.	Sijua Area	02 nos
6.	Kusunda Area	02 nos
7.	Bastacolla Area	01 no
8.	Lodna Area	02 nos
9.	CV Area	02 nos
	Total.	16 nos

The 3.2-3.8 m3 Hyd (F/S) shovel allocated to the mine projects are as follows which is subject to change as per the requirement of purchaser:

Si No.	Area/Project	Total Requirement
		Under NCD
1.	Barora Area	OI no
2.	Katras Area	01 no
	Total	02 nos

- 12. PAYING AUTHORITY: The General Manager (Finance)/MM, Koyla Bhawan : Koyla Nagar, Dhanbad
- SECURITY DEPOSIT: Equipment with Spares & Consumables for Warranty period
 Diesel Powered Hydraulic Excavator with 2.7-3.2 Cu.M. Back-Hoe Bucket: 2,16,49,300.00 or 13,53,081.00 / equipment

Diesel Powered Hydraulic (F/S) Excavator with 3.2-3.8 Cu.M: 27,63,466.00 or 13,81,733.00/ equipment

For MARC: You will be required to deposit as security money 10% of the value of the Maintenance & Repair Contract (including Taxes, duties, and other charges to the FOR Destination prices) without having any ceiling in the form of Cash/ Bank Draft / Bank Guarantee within 15 days from the date of order. If the successful tenderer fails to deposit the security deposit

024/4/13

6

within 15(fifteen) days from the date of order, the same shall be recorded as unsatisfactory performance for future dealings apart from taking any other penal action as may be deemed fit by BCCL. For successful tenderers, the Security Money shall be refunded within 30 days of satisfactory execution of contract. For unsatisfactory execution of contract and / or faiture of execution of contract, the security money shall be forfeited. The Bank Guarantee should be submitted on Rs.250/- non-judicial stamp paper as per the enclosed format at Annexure- C The value of SECURITY DEPOSIT for MARC is Rs 5,74,24,597.00 or Rs 31,90,255.00/Equipment

- 14. COMPOSITE GUARANTEE / WARRANTY: as indicated in Technical Specification (ANNEXURE-A)
- 15. PERFORMANCE GUARANTEE: In accordance with the provisions of clauses 7 & C7 of the Technical Specifications, you shall guarantee that the availability of the equipment shall be not less than 85% (eighty five per cent) for a period of 12 months from the accepted date of commissioning.

You shall furnish a Performance Guarantee equivalent to 10% of the total value of the supply order / contract (by adding Excise Duty and Sales Tax etc to the FOR destination price of the equipment ordered). The performance guarantee shall be submitted in the form of a Bank Guarantee issued by a scheduled bank in the format attached as ANNEXURE-C-I (on a non judicial stamp paper of value Rs.250.00 only). This Bank Guarantee shall be initially valid for a period of 18 months from the date of receipt and acceptance of equipment and the same shall either be released or extended depending upon the merit of the case. This Performance Guarantee shall be for the performance of the Contract / Supply Order.

Submission of Bank Guarantee: The original Bank Guarantee should be sent to the beneficiary directly by the issuing Bank under Registered Post (A.D.).

However, in exceptional cases, where the Bank Guarantee is handed over to the customer for any genuine reasons, the issuing branch should immediately send by Registered Post (A.D.) an unstamped duplicate copy of the guarantee directly to the beneficiary with a covering letter requesting them to compare with the original received from supplier and confirm that it is in order. The A.D. card should be kept with the loan papers of the relevant guarantee.

The value of PERFORMANCE BANK GUARANTEE for Equipment, Spares & consumable for 1st year for

Diesel Powered Hydraulic Excavator with 2.7-3.2 Cu.M. Back-Hoe Bucket: 2,16,49,300.00 or 13,53,081.00 / equipment

Diesel Powered Hydraulic (F/S) Excavator with 3.2-3.8 Cu.M: 27,63,466.00 or 13,81,733.00/ equipment

16. INTEGRITY PACT: The Integrity Pact document signed by you is at ANNEXURE- T.

This Integrity Pact is deemed to have been signed by BCCL Authorities Name of Independent External Monitor is:
Justice Ashok Kumar Chakra borty (Retd)
BB-69, Sector-1, Salt Lake
Kolkata-700064

17. PRICE FALL CLAUSE - The price charged for the Stores / Equipment supplied against the order, if placed, shall in no event exceed the lowest price at which the bidder shall sell or offer to sell the Stores / Equipment of identical description to its any customer during the pendency of the Contract / Supply Order. If the successful tenderer at any time during the pendency of the Contract / Supply Order sells or offers to sell such stores to any customer, at a price lower than the price stipulated in the Contract / Supply Order placed by BCCL, the successful tenderer shall forthwith notify to BCCL such reduction in sale price of stores / equipment supplied after such reduction coming into force shall stand correspondingly reduced.

18. INSPECTION AND TESTS:

- a) The purchaser or its authorized representative shall have the right to inspect and/or to test the goods to confirm their conformity to the contract. The purchaser shall notify the supplier in writing of the identity of any representative retained for these purposes.
- b) The inspections and tests may be conducted on the premises of the supplier or its subcontractors), at point of delivery and/or at the goods final destination when conducted on the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production date, shall be furnished to the inspectors at no charge to the purchaser.
- c) Should any inspected or tested Goods fail to conform to the specifications, the purchaser may reject them and the supplier shall either replace the rejected goods and make all alternatives necessary to meet specification requirements free of cost to the Purchaser.
- d) 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

24/3/13



- previously been inspected, tested and passed by the Purchaser or its representatives prior to the Goods shipment from the country of origin.
- e) Materials are subject to inspection by the purchaser before dispatch. The materials may also be subject to stage inspection by a third party nominated by BCCL for the purpose. Final inspection shall, however, be carried out at the consignee's end by GM(Excv);BCCL or his authorized representative
- f) Nothing in these documents shall in any way release the supplier from any warranty or other obligations under this contract.
- g) The purchaser shall, at its discretion, have the right to test the ordered material in a Government Test House or in a test house nominated by the purchaser. In case of failure of the material after testing, the cost of tests as well as of the material shall have to be borne by the supplier.
- Pre-dispatch inspection by CM (Excv), 40 Kempe Gowda Road, 4th Floor, Geetha Mansion, Coal India Ltd., Bangalore – 560 009
- 19. GENERAL TERMS AND CONDITIONS: Unless otherwise specified in the purchase order, the Purchase order shall be subject to the General Terms and Conditions of Supply of Stores given as ANNEXURE –D. In case there is a conflict in any particular term of the NIT with the General Terms, the terms of the NIT will prevail.
- JURISDICTION: Any dispute arising out of this enquiry shall come under the sole jurisdiction of the Dhanbad/Jharkhand High Court, (INDIA).

The contract is concluded with the issuance of this order. We are enclosing 2 copies of the Purchase Order, one of which should be returned to us duly stamped and signed.

Yours faithfully, For & on behalf of Bharat Coking Coal Limited

(A D Santhish) Chief Manager (MM)

Enclosures:

Enclos	sures:	
SL	ANNEXURE	DESCRIPTION
1	ANNEXURE - A	TECHNICAL SPECIFICATIONS comprising SECTION-V SCHEDULE OF REQUIREMENTS; PART I,II, SCHEDULE OF REQUIREMENTS OF SERVICES, SECTION VI - TECHNICAL SPECIFICATIONS PREFACE - INSTRUCTIONS TO BIDDERS A.SCOPE OF SUPPLY, B.SPECIFIC SITE REQUIREMENTS, PART C GENERAL REQUIREMENTS, PART E EQUIPMENT SPECIFICATIONS PART F MAINTENANCE AND REPAIR CONTRACT (MARC), TECHNICAL CONFIRMATION VIDE LETTER REF.
		CB/DHN/NIT 02/OFFLINE/02 Dated 05.06.2013
2	ANNEXURE – B –I (a)	List of Spares for 1st Year for Diesel Powered Hydraulic
<u></u>	ANTREMORE D T(a)	Excavator with 2.7-3.2 Cu.M. Back-Hoe Bucket.
	ANNEXURE – B –I (b)	List of Consumables for 1st Year for Diesel Powered Hydraulic
	ANTEXORE - B -1 (0)	Excavator with 2.7-3.2 Cu.M. Back-Hoe Bucket.
3	ANNEXURE – B –II (a)	List of Spares for 1 st Year for Diesel Powered Hydraulic (F/S) Excavator with 3.2-3.8 Cu.M.
	ANNEXURE - B -II (b)	List of Consumables for 1 st Year for Diesel Powered Hydraulic (F/S) Excavator with 3.2-3.8 Cu.M.
4	ANNEXURE - C	Performa of Security Deposit
5	ANNEXURE- C-I	Performa of Performance Bank Guarantee.
6	ANNEXURE - D	General Terms and Conditions of supply of stores.
7.	ANNEXURE - E	Performance of equipment under performance guarantee during warranty period
8	ANNEXURE - F	Hydraulic Excavator tool list
9	ANNEXURE - G	Quality Assurance Plan
10	ANNEXURE - H	Leaflet of L&T 300 Hydraulic Excavator.
11	ANNEXURE - I	Engine performance curves

24/H13

	() I I I I I I I I I I I I I I I I I I	
12	ANNEXURE - J	Hydraulic system & circuit diagram
13	ANNEXURE - K	Auto Lube System
14	ANNEXURE - L-I	L&T 300 Hydraulic Excavator Bucket volume calculation for
	THE E	Back-Hoe Shovel.
15	ANNEXURE - L-II	L&T 300 Hydraulic Excavator Bucket volume calculation for
	ANNEXORE - E-II	Face Shovel
16	ANNEXURE - M	List of major bought-out items for L&T 300 Hydraulic
10	ANNEXURE - W	Excavator
17	ANNEXURE - N	Description & layout of auto fire detection and suppression
1 /	ANNEXURE - N	system.
18	ANNEXURE - O	Lubricant Change Schedule of L&T 300 Hydraulic Excavator
19	ANNEXURE - P	Training schedule.
20	ANNEXURE - Q	Erection Program for L&T 300 Hydraulic Excavator
21	ANNEXURE - R	Maintenance schedule for L&T 300 Hydraulic Excavator
22	ANNEXURE - S	Authorization for E-Payment.
23	ANNEXURE - T	Integrity Pact.
24	ANNEXURE -U	Schematic Diagram for Lubrication System
25	ANNEXURE 1, 11 & 111	REPORTS FOR MARC

Copy to:

- GM(Excv)/GM(Excv)Cap, Koyla Bhawan : Koyla Nagar, Dhanbad
- The General Manager (Finance)/MM, Koyla Bhawan : Koyla Nagar, Dhanbad.
- The GM(Areas), Block II Area / Barora Area / Govindpur Area / Katras Area / Stjun Area / Kusunda Area / Bastacolla Area / Lodna Area / CV Area
- The Depot Officer, RS/ Block II Area / Barora Area / Govindpur Area / Katras Area / Sijua Area / Kusunda Area / Bastacolla Area / Lodna Area / CV Area; BCCL, Dhanbad
- GM(Company Secretary), BCCL, Koyla Bhawaa : Koyla Nagar, Dhanbad in ref. to BCCL:CS:F-1(A):468
- GM(MM/Stores), Koyla Bhawan : Koyla Nagar, Dhanbad; in ref. to Indent Registration No 412128 dtd 27.08.12

Indent No	IR No of MM Divn	Qty (No)	Project/Area
RS-BII-15-P&M/272/12-13 DTD 02.08.12		02	Madhuban Coal Washery (Replacement requirement-1.5m³ Hydraulic Shovel)
R/S-BII-15-P&M/273/12-13 DTD 02.08.12		01	Block II OCP (Replacement requirement-2.7m ³ Hyd Elect B/H Shovel)
R222R8010363 DTD 02.08.12		01	Block IV OCP (Replacement requirement-2.7m* Hyd Elect B/H Shovel)
S/L/Store /12-13/507 DTD 31,07.12		01	Tetulmari OCP (Replacement requirement-2.7m ³ Hyd Elect B/H Shovel)
BCCL/LA/R-S/12-13/66 DTD 31.07.12		01	S TISRA OCP (Replacement requirement-2.7m ³ Hyd Elect B/H Shovel)
04/1122/2012-2013/248 DTD 16.08.12	m.	01	Damodar OCP (Replacement requirement-2.7m ³ Hyd Elect B/H Shovel)
BCCL/BA/01/RS/Capital/12-13/02 DTD02.08.12		01	Shattabdi OCP (Replacement requirement-3.2- 3.8m* Hyd Elect F/S Shovel)
RSLD/12-13/170 DTD 03.08.12		01	Dahibari OCP (Replacement requirement-3.2-3.8m Hyd diesel F/S Shovel)
R/S-BII-15/P&m/110/12-13 DTD 21.05.12	412128 dtd	10	Jamunia OCP (Replacement requirement-1,2m' Hyd Shovel)
RS/BA01/CAP/AM(X)/12-13/01 DTD 18.05.12	27.08.12	02	Damoda OCP (Replacement requirement-1,2m ⁴ Hyd Shovel)
R.S.S/Cap/AR III/12-13/02 DTD 16.05.12]	10	Akashinaree OCP (Replacement requirement- 1.2m ³ Hyd Shovel)
BCCL/IV/Exev/2012/21 DTD 16,05.12		02	AKWMC (Replacement requirement-1.2m ³ Hyd Shovel)
GM/SA/Exevn/12/206 DTD 08.05.12		02	Nichitpur & Tetulmari OCP (Replacement requirement-1.2m ³ Hyd Shovel)
RS/VI/CAP/12-13/03 DTD 08.05.12		01	Ena OCP (Replacement requirement-1.2m' Hyd Shovel)
BCCL/Cap/R-S/IX/12-13/03 DTD 07.05.12		01	GOCP (Replacement requirement-1.2m Hyd Shovel)
BCCL/LA/IND/12-13/10 DTD 03.05.12		01	N. Tisra OCP (Replacement requirement-1.2m Hyd Shovel)
04/1122/2012-2013/075 DTD 12,05,12		02	Damaodar OCP (Replacement requirement-1.2m ³ Hyd Shovel)
R-S. LD/12-13/41 DTD 09.05.12		02	Dahibari OCP (Replacement requirement-1.2m* Hyd Shovel)

- GM(UMD), CMPDI Ltd, Gondwana Place, Kanke Road, Ranchi-8
- GM / GM (MM), ECL/ CCL/WCL/SECL/NCL/MCL
- CM (Excv), 40 Kempe Gowda Road, 4th Floor, Geetha Mansion, Coal India Ltd., Bangalore 560 009 M/s ITI Ltd.,Regional Office,F-29,Ground Floor,Doorvani nagar,Bangalore-560016
- AM, Tech Cell, MM Divn, Koyla Bhawan : Koyla Nagar, Dhanbad

- The Independent External Monitor for Integrity Pact:-Justice Ashok Kumar Chakra borty (Retd) BB-69, Sector-1, Salt Lake Kolkata-700064
- This issues with approval of agenda item No 298.4M of the 298th BCCL Board meeting by the Board of Directors of BCCL and minutes communicated by Co.Secy vide BCCL:CS:F-1(A):468 dated 02.07.13

For Equipment with Spares & Consumables for Warranty period

eBC no BCCL/C&B/CAP/REG/PN-126/SN-10/eBC No 250 dated 23,07,2013 (Cap 13-14) for Rs 24,41,27,669,91/-.

eFC No 67 Dated 23.07.2013for Rs 24,41,27,669.91/-

For MARC

Advance budget of Rs 25,16,38,272.48 by CM(F)C&B vide letter No BCCL/FIN(C&B)/12/D/195 dated 25/27.09.2012 for 2013-14 to 2019-2020

Additional Advance budget of Rs 32,26,07,699.52 by CM(F)C&B vide letter No BCCL/FIN(C&B)/13/D/106 dated 26/27.07.13 for 2013-14 to 2019-2020.

Year	Approved Budget (Rs.)	Budget Allotted (Rs.)	Additional / additional advance Bud. (Rs.)
2013-14	32865300.00	6277411.13	26587888.87
2014-15	58955112,00	25795301.33	33159810.67
2015-16	87035112.00	41810904.82	45224207.18
2016-17	75065112.00	39863919.66	35201192.34
2017-18	105755112.00	64152143.24	41602968.76
2018-19	106295112.00	36869296.15	69425815.85
2019-20	108275112.00	36869296.15	71405815.85
Overall	574245972.00	251638272.48	322607699.52

Chief Manager (MM)

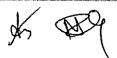
शमिति

2. Deserve forward (PS) Expressor with 12.50 ft Cush. 4. Arcitle y Equipment and other requirements or search plane 3 as produced to the requirement of being made are as follows: The quantities of equipment against which the procurement is being made are as follows: The 2.7-3.2 and Hot (BM) Shored allocated to the rate projects are as follows: The 2.7-3.2 and Hot (BM) Shored allocated to the rate projects are as follows: Total Roo. Answ Project Company Total Requisitions 1. MCW/ Book-II Area Bibook II Area 2. Bibook II Area Bibook II Area Government Area 0. Clarifor A	Ancillary Equipment and pitter requirements for poor of litter 12 to accordance with Debugger of the Common September on Indicated September 11. September 12 to accordance with Debugger of the Common September 12 to accordance with Debugger 12 to a	Duted Powered Hydrouis: Estabatic vetti 2.7-3.2 O.A.4. Back-long (97-00)-16 (97-00)-16	S. No Brief Description of Goods & Services Com-	PROVENIESS CRITERIA ROVENIESS WILL BE CONSIDERED AS PROVEN DRAF. PROVEN MEANS THOSE LANUFACTURERS WHO PAKE SUCCESSFULLY SUPPLIE EXCEPTIONS COMMISSIONED THE PRE AND MOBE, OF THE OFFERED BUTHANDER OF MAIN MADE, OF THE OFFERED BUTHANDER OF THE PAST TO THE MANDA BUTHANDER OF MAIN MADE, OF THE OFFERED OFFERED WILL BE SUPPLIED EQUIPMENTS IN THE CONCERNED OF MAIN MADE OF THE OFFERED OFFERED OFFERED OFFERED WILL BE SUPPLIED EQUIPMENTS IN THE CONCERNED OFFERED OFFERED WILL BE FROM WILL BE SUPPLIED FOR MASSIONARY OF THE CONCERNED OFFERED WILL BE SUPPLIED OFFERED WILL BE CONCERNED OFFERED WILL BE CONCERNED OFFERED OFFERED WILL BE CONCERNED WILL BE CONCERNED WILL BE CONCERNED OFFERED WILL BE CONCERNED OFFERED WILL BE CONCERNED OFFERED WILL BE CONCERNED WILL BE CONCERNED OFFERED WILL BE CONCERNED WITH WILL BE CONCERNED WILL BE CONCERNE	The second control of	NAME OF THE BIODER	Nelkoj (miols Hadali
Diseal Propertial Population (FPS) Expension with 1,23,8 CL Liu. Anothiny Equipment and other requirements for each of term 0 as properties of Technical Specifications included in Section VI. Dynamical spring with Specifications included in Section VI. Analytic plant which his procurement is being made are as follows: Dynamical spring with Specification of Company Total Regulations of Under POD MCNV Section Area SCCL. Continuo Under POD Distance With Section VI. Separation of Section Se	In accordance with term 1	Powered injuriable Eucayator, with 2.73.2 Cul. M. Bush-hoo		THE THE FOLLOWING CRITERIA OF PROVENESS WILL BE CONSIDER ON THE THE FOLLOWING CRITERIA OF PROVENESS WILL BE CONSIDER ON THE THE THE PROFESS WHO HAVE SUCCESSFULLY SUPPLIED EFFORT TO THE WIND MODERN AND THE	Description	MANE OF THE RIDDER	ивізмоз стпоня наців
as (PS) Expansion with 1,2-3,6 Cu.As. If the production of the pr	In accordance with term 1			SE CRITERIA OF PROVENCESS WILL BE COUSTIERS SEWO INVES WAS DESCRIPTIVE SEPTEMBLES FRECTI TO THE MINING MOSTRY MAD OR TO THE OTH OURS OR BLOSAL AGAINST REGULAR PRIMAJORIO COUS OR BLOSAL AGAINST REGULAR PRIMAJORIO COUS OR BLOSAL AGAINST REGULAR PRIMAJORIO COUS OR BLOSAL AGAINST REGULAR PRIMAJORIO COUSTIERS THAN OUR TO LE SATISFACTOR PRIMAJORIO COUSTIERS THAN OUR TO LE MAN DE COLORIOLED IN THE FIRM ON HOME HOUR MATE OF TENDER OPENING AGAINST SU SONTHE DATE OPENING SONTHE SU SONTHE DATE OPENING SONTHE SU SONTHE SONTHE SU SONTHE SONTHE SU SONTHE SONTHE SU SO	Description	маме от тне вірвей	RISTROS OTNOMS HADDIR
Data & COLIAN Life production of the production	In accordance with term 1			HANESS WILL BE CONSIDER HANESS WILL BE CONSIDER HAND ON IT THE OIL HAND ON IT THE OIL HAN	Description	HE BIDDER	ингиосомия
in according to the requirement of partitional limits and the partition of	500 300000	07-08-16	- Quar	ST SU	2 23		THEA
The machine and production of	22 20		Quantity	ED AS PROVE O COMMISSI HER MOUSTRIA THE SUPPLIA THE SUPPLIA EAR FROM THE EDATE OF THE EDATE OF THE			TECHNICAL S
	Delivery is be made along with the mischine	4 (Faur) - 5 (Freque Dig Stone) Mes brownin to be supplied within 56 martin form the state of two cot of martin form the state of two cot of stapph yours set used at his other stapph yours set used to the state of stapph yours set of the state of stapph yours are state of the state of the prior is amount survey of so spurpment.	Preferred (Expected Delivery) Schedule at Site	BE THE TYPE AND MADE OF THE TY			BIDDER SHOULD CONFIRM THE ACCEPTANCE) CONFIRM SUBMISSION OF REVELANT DOCUMENTS:
			nery			Beilary R	ANT DOCUMENTS:
AGREED	AGREED	AGREED		AGREED	Bid	L&T Construction Equip Betlary Road, Byaterryanapura, Benagak Fax - 060 2361	
hydraulic accavelor filted with 4 Com abovel backet. Will be supplied with the equipment Accapied Noted and accapied	Will be supplied with the equipment	We offer LAT 300 CK/sl desel powered bydraulic excavator fitted with 3.0 Cum backnos bucket.		Noted and agreed. The citized model meets the requirement of MT	Bidder to Agree	struction Equipment Limited NITA, Banagatore-560092, Tel : 080 -22165100, Fax - 080 23636065	

AND PROP

							Section VI - Technical Specifications	Section VI - Tec	
				AGREED	Upona rater Erymen tavary case, asserby or the equipment	Uraskii do sami-akiida tara taraa sami-akiida sami-aki	Heddidech Supervisor	Moch Fillers/Electricians/	
				AGREED	Craduate Express rusing pase wawaage of the equipment	Graduate magnastration	2001	MocivEled Engineer-	
				AGREED				-	19
27 27 man weeks	4 man weeks		4	Total					
1 Work				Operator		And the second of the second s	and an interpretation of the state of the st	The second second	
1 Week				Electriscian				The state of the state of	Ş
				Medi Filer					
Week	1 man weeks	1 weeks	-	Elac Supervisor			Mary Control of the C		33 43
Week	1 man weeks	1 weeks	=	Mach Supervisor			100 Commence (100 Commence (10		
Week	1 man waeks	1 weeks		Elec Ergraer			· 中国的主要保护。1886年	- ファザギを	٥,,,
Week	i man weeks	1 waaks	-	Mech Engineer			The total and was a few species of the		
	E IND		ß			The second secon			
	1			The contract of			AMERICAN SERVICE AND SERVICE SERVICES	Control of Control	
At Site		r's Works	At Manufacturer's Works	voe of Personnel					
			Noted and agreed	АGREED	Schedule of Regulaments of Services The Supplies access of the Contest will reduce its blavers I Type less on each purpose includes in the blavers I Type less on each purpose includes in the best-reduced specialized and placed in the bid. If notice years are considered by the best-reduced for the strategy contests of Supplies in an include and present placed by the proposed for the unique of the strategy of	schedule of Requirements of Services The Supplier is copye of the Contings will count be followed; Type lest on each appress include is the terror at questionation part offered in the bet. Fronting Services of Supplier is qualified explores to Equation part offered in the bet. Fronting Services of Supplier is qualified explores to the continue of continues of the continues	Esheciale of Requirements of Services The Supplies a copy of the Control will include the following. If the list on each exponent included in the theoretical specification (I. Provide) Services of Supplies a cualified only expositional for the unionated, or anapositions in case alongs as the analog. It is appointed to the storage to acception able familiation, reading and II. Taking all Purchasers a desirables of the minimum intending reconstruction. The Purchasers assimitated for eminimum intending reconstructs that in These satinguistics relate to the rocal number of teams of departments.	Schedule of Ru The Supplier's self. Type test on e. If Type test on e. If Providing Ser A. unboading tre B. transportation III. Training of P. The Furchase Interest each	
			Noted and agreed	AGREED	Note: 1. Piece No. 227-3.2 m3 Hyd IBH) Streed\$23-2.3.6 pt3 Hyd (FS) Stored Story with accessorate attoold be quested with Normal Custom Duty (ACD) for (6 nos. 800cm (responsibly) separately in two separately storic transfer storic and Project Currencessonal Duty (PCD) for (1 nos. applicable for the imported contents. 2. The broder has to quote for any model or both the models of altoys in 1.41 quantity as given above, otherwise their title well not be considered. Evaluation of both the models of above shored will be done separately.	I.8, nt3 Hyd (FS) Street along with accessories a spaniale shoets and Project Consessional Duly (PC th the models of showl in full quantity as given at will be done asparately.	3.2 m3 Hyd (B/H), Showel83.2-3 specinely) separately in two sea s. to quote for any model or both the models of above showel in	Note: 1. Pixos for 2.7-3 nos. 802nos (re. 2. The bidder ha Evaluation of bo	5.5
			Noted and agreed	AGREED	To be specified by the Bidder to comply with the Technical Specifications and the terms and Conditions of Contract.	Assembly and rescion of equipment at Sile in accordance with the Technical Specification and Conditions of Contract.	Assembly and erectors Technical Sportication		
			Noted and agreed	AGREED	Please reler to Schedule Of Requirements of Services later in this Section and to the Technical Specifications	s Passantel on Site	Training of Purchaser's Personnel on Site	2	
			Noted and agreed	AGREED	Please refer to Schoolsh of Requirements of Services, later in this Section and to the Technical Specifications.	Training of Purchaser's Personnel at the manufacture's works or insomer, outside high	Training of Punchaser's essewhere outside histo		
				AGREED	Period/Guantum	Brief Description of Services	Bi	S.No	
								Pent	
			Hoted and accepted	AGREED	<u>*</u>	DZ Nos	TOTAL	· 持一定接続	200
			Noted and accepted	AGREED		co os	CYADA	1 1 1 1 1 1 2 N	
		•	Noted and accepted	AGREED		BCCL 01 No	Bulosa Area		1.
					Linder PCD	Unde			
					Total Requirement	Company	Area/Project	SI 76,	
			Accepted	AGREED	The 1.1.1 for the programment of the Strategy of the programment is seen in the programment of the programment of the strategy of the programment of the strategy of the strat	ns or usy, severe stocked axim day o	i Hyd (F/S) Shovel allocated to	The 3.2-3.8 mg	

()



And internation and Deading: And with each equipment applied supplied that provide not less than And with each equipment applied supplied that provide not less than a) Sustain substantial oppose of Operating, Repair and Abstrateurous Mayusals in each type model of equipment and Accessories, within in the English anguage, automataly bound in book form. Three (3) person in each perget after, and One (1) copy along with actic copyty the General Manager(Ecox.), Bharact Cooking Coal Ltd. Loyal Bharact. Repair Describes. (5) Sustain Sustained expect of dealand Source, Party Manager (Ecox.), Bharact Cooking Coal Ltd. Loyal Bharact, Cooking Coal Ltd. Loyal	A.2 Supplementary items. The equipment shall be provided with a comprehensive look it when shall include any special took required for exection, commissioning First III of all other presents and intercents feeded (a) test and commissioning of equipment.	A Scope of Supply A 1 Equipment Pericage A 1 Equipment Pericage The Supplier is required to provide a prompter participal of continuents of 2732 CMA. Pyrimide (BM) Showes surring 2008 mill Hyd (FS) The Supplier is required to pold to the Equipment Pericage along with MAPC detailed in the Part F of Feder decompter including accessories. The supplier is required to pold to the Equipment Pericage along with MAPC detailed in the Part F of Feder decompter including accessories. The Scope and Pleasing of supply for the 27-2.2 CLM. Hydraulic (SH) Showes endot 2.2-3.8 milling (FS) Showes is given in Sec. V.	Estant Coking Cest Limited Koylistinamon Koylistapia Chaptatina 260005 Farc: 91(9) 586 220177 Tel: 91(9) 586 220177 Tel: 91(9) 586 220177 Allenton Genoral Manager (Escri)	Subsidiary Company Project	She Visits The Bloder prior in making any Bul chabations avol as gard of the preparation of its Bos, shall be givened in Javas visited and expected the Suses; made at sequence and calculate a card calculated information occumentary of otherwise including diminist conditions; as considered recessory by the Schole for the proper and cancelled preparation of its bid. A bloder may visit the Susesh by prior appointment with the purchases. The hundred of Bloder's representatives permitted for mater visit to the Susesh by the inner of the Susesh and the properties of the Susesh and the inner of the Susesh and the Susesh and the inner of the Susesh and the Susesh and the inner of the Susesh and the	Technical Response Inchance stail produce by Clause commensary demonstrating compliance with the Purchasers. Technical Specifications, identifying any desinators below to the specific stail produce by Clause commensary demonstrating compliance with the Purchasers. Inchance is produced the specific stail produced the property and class should be properly and class the specific stail produced the property and class the property and pro	Treso Technical Specifications are presented in in parts at Follows: A. Scarpe of Supply B. Specific Proposed in in parts at Follows: C. General Requiremental: C. General Requirem
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
	Noted and Agreed	Noted and Agreed	vence and Agree o		Vesica and Africa	Noted and Agreed	
			5 X 5 12 3 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

<u>(^)</u>

W.

de

\sim	(12/2	
--------	---	------	--

C.5 Suppliers Responsibility The Purchaser resulted that the Supplier and accord imprincibility for the provision of complete and compatible Engineers within this Scope of Supply. This secured templier all accord imprincibility for the provision of complete and compatible Engineers within this Scope of Supply. This secured templier and only the major imprincibility to the Engineers and the Supply constants received the International International Suppliers (International International I	C.4 Standards C.4 Standards C.4 Standards C.5 Standards C.6 Standards C.6 Standards C.7 Standards C.7 Standards C.8 Standards C.9 St	C.3 Services The supplier shall be responsible for the exection and commissioning of the equipment all site. The supplier shall depute goalfined and compense Engineeric) and spoosibilities injection to supervise the entire assembly, existing and equipment and compenses Engineeric (and spoosibilities) and property engineeric.	C2 Goods (Equipment and Machinery). Deside specifications of the Equipment to be supplied are given in Pan E of this section. Deside specifications of the Equipment to be supplied are given in Pan E of this section. In general, all tense that be: designed and conclusions in herefore without previous and expect to comprise it puts. designed to facilities ready posses, cleavery, historicom, markenance and report to comprise it puts. The component parts of all lenses that, wherever possible, be seeded from the attendant previous facilities ready and an expect of the first that the property of the facilities ready and a second service of the formation of the companies of the companies of the facilities and an expect of the facilities and the second second or the facilities and the second of the facilities and the facilities are part for the facilities and the second of the companies of the facilities of orall discount of second and the second and the facilities are parts of the facilities when the secondary and place and sufficient when are expected to conceause event or property. All parts and sufficient when are expected to conceause event oranged as all the sufficient to property and parts and sufficient when are expected to conceause event oranged.	Part C. General Requirements C.1 Geography and Climatic Conditions C.2 Geography and Climatic Conditions Develor— The statute surface from (00 is 1000 m above mean see larged. Climatic such topical to tropical deeply with a net and hand democratic. Mexicany rates occur in the period tripic base to October. The climate is such topical for tropical deeply with a net and hand democratice. Mexicany rates occur in the period tripic base to October. Anthonic Conditions. Reduke through, Maximum (50°. Temperature Minhum, 10° C. Local Conditions of the Conditions of the South to South Westings. Condition of the Conditions of the South Westings. Condition of the Conditions of the South Westings. Condition of the Anthrope Specia—— 8 Am part of maximum.	B Specific Site Requirements. All the projects of BCCL are focated within 30 KM grapp (approx) from Dhanbad Raiway Station.	A 5 Training The support in consultation was the project in-category HOD [Eccession] at the respective sits asked mates available experienced personnel to conduct framing of expenses, supplements and position personnel to entained period from the claim of sless of the equipment of the following. The training of Smutsic Models by the bidder at their explications is suitable locations is manufactury. I) Equipment operation in ord mechanics. Equipment operation and mechanics. II. Exprise a position and mechanics. II. Exprise a position of statel and their termidate covering. II. Herbrids and electronics. II. Herbrids and electronics. II. Herbrids of system A. Libration system etc. Proposition system etc. Comprehensive taking manuals with class state state of participant is Explicit language. The training operations of the conducted in one figurate and find language.	A.4 Enctlon/Assembly, Commissioning and Performance Testing The Supplier shall provide the Services of Specials, Testing-time Pay-Call and labour to undertake the installation encountries provides the plant, Engineers and accessories auspoined. And any performance sealing of the plant, Engineers and accessories auspoined.
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
Noted and Agree	Noted and A pree	Noted and Agreed	Noted and Agreed	Noted and Agree	Noted and Agreed	Noted and Agreed, except simulate the same if yet to develo	Noted and Agreed
1	, <u>r.</u>			i.	•	is develop.	

W X

AGREED AGREED Neted and Agreed AGREED Noted and Agreed AGREED AGREED AGREED AGREED AGREED AGREED AGREED AGREED Noted and Agreed AGREED

,**#** }

WHY M

			10000				**************************************				
 Scope of Specification Scope of Specification is exercised to cover the increased exputement; for the idesign, manufacture, testing, definery, on-site evention and commissioning of a set propoled crawler mounted desire inguise powered hydraulic occuration with 27/32 mg Back-Holp backet 	PART E:- EOUIPMENT SPECIFICATIONS EOUIPMENT SPECIFICATION OF DIESEL POWERED HYDRAULIG EXCANATOR WITH 2.7-1.2 M3 BLOX-NOE BUCKET	C.10.3 The Purposes of the agent, when he required by furt, shall also be provided with samples of thought out materials by the purposes of traderaling independent deats, which independent leafs shall be all the purposes of the Purphases.	C.10.2 The Suppler shall provide leadless to Parahaser of their authorized representatives for progress supercion sturng manufacture at the violes and turns that and test data variation in the inpart for quality control both by bought out items and its own manufactured forms.	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 comply with par manufacturing recognised quality assurance standard such as ISO 9000 or of equivalent ment accopatable to BCCL	C.9 Composite-warranthy guarantee. The supplier shall warrant that the exponent supplier protect this contract is. The supplier shall warrant that the exponent supplier protect this contract is. In a supplier shall warrant that the exponent supplier protect this contract is that has been contract shall be exponent on the contract protect protect of the composition of the contract protect protect protect protect that have no exponent protect p	C.B. Desmed Broakdown Hoter Clause 3.2 of MARC. (Section VI, Pent F.)	2. For MARC For the group MARC period compensation will be us per clause 10 of MARC, section VIT part TE.	C7.3.1 Compensation for red achieving Guaranteed Analoshity 1. For Engineers under warranty In the construct and achieving Guaranteed Analoshity In the construct in the construct of the construction of the cons	C7.3.2 The guarante stell emain effective por the entire MARC period as riputated in table Lof MARC, section W, part if from the date of accordance contribute interactive of lound worked during the puratities product.	C23. Effect and Burellon of George effective from the case of commissioning the equipment at sea. The issue of the purchaser's economics and features that are described from the case of commissioning the equipment at sea. The issue of the purchaser's economics and evidence commissioning.	Increase the Limitations of Gustantines Availability will be instructed in Clause 3.5 of MAP C (Part F). The Supplex shall provide a schedule of maintenance required to easy out (a) and (b) shows the MAP C period of presiden and shall some be intrinsed from required to easy out each maintenance back. The time pixed side with the approximation for the president of the measurement of the shall be the pixed of the state and they will be revised periodically by the Purplears and the Supplex, portly, constituting the president by the pixed of the state and they will be revised periodically by the Purplears and the Supplex, portly, constituting particularly of the state of the Purplear will be seen the Supplex of what is designed by the Purplear and the Supplex portly, constituting particularly of the state of the Purplear will be seen the Supplex of the Supplex of the Purplear and the Supplex of t
AGREED	AGREED		AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
L&T 300CK-II (Diesel Version) Hydraulic Excavator, Crawler monniel und filted with the following: Tunamies ladds absol operine MT 855 C like	Nuied and Agreed	Noted and Agreed	Noted and Agreed	Noted and Agrosed	Need and Agreed	Noted and Agreed	Noted and Agreed	Noted and Agreed	Noted and Agreed	Noted and Agreed	
			# 10								

. 🔄)

Why the second s

47.]#\`		194 1959 1959					
4.7 Machinery house. The charmon shall be provided with a dust prior machinery louze. The charmon shall be provided with a dust prior machinery louze. Non-six type will know you dust which hangails shall be provided in and around the machinery louse, the operator's cob and service platforms and shall comply with ISO 2567.	4.5 Undercarriage The indocratinage shall be invery duby and of authorist strength to withstand the high kipels which may occur due to inverti ground carefidors. It shall be a winder out stress indeed as required. The process should be a white press high in the shareded sproded bear and infers; and a reliable track remaining strangers with badd be proyeded. On white shores that he heavy duly and designed for each of replacement whenever measures. The weight of the undercarriage should pretently be 40 to 45% of the opportung weight of the matrix.	AS Propel and Steering Independent cowies university that proposedent believate booking system and properly and populary and populary trainers shall be provided.	A.4A Swing System A.4A Swing System An independent efficient indicatic system stoud to previded its for every motion. An independent efficient indicatic system stoud to previded its for every motion.	4.2 A hydraulic Drive System The standard hydraulic system should preferably be directly powered by its desset engine to additional president hydraulic system should preferably be directly powered by its desset engine to and tisse statute in hydraulic reproduce, moting and byfinders should be filed grown legic beavy duty type and tisse statute in build president from surply and an experiment. The hydraulic reproduce of trusts of a last to be an bahage or burst, on. As its as practicable repositions single make purpose motors, or indem and values, or it will be used in the machine. Attenuate figurant of hydraulic oil with provision at warning stem in case of because of their shall be provided. An adequate part of because hydraulic oil cooling system that also the provided. All house that the proposed as the as provision and artifactly elipsed to review during a impreciating. All house that the proposed as the associated and artifactly elipsed to review during a impreciating and provision of the provision of t	4.4 OPERATING WEIGHT Operating weight of the machine stell not be less than \$5,000 kg for the definite boom; aim; and backet combinating ethics in the bid.	4.2 ENGINE The company shall be powered by a direct injection 4-strate discost sequent of not last 2.17 KW jot; power measured between: 1700 and 2.100 jpm according to 160 2-940. The regime shall be powered with 54 with bright control of the 150 2-940. The regime shall be provided with 54 with bright control of the 150 2-940. The regime shall be provided with 54 with bright control of the 150 2-940. The regime shall be provided with 54 with bright control of the 150 2-940. The shall be a shall provide a power of the 150 2-940. The shall be provided by present a shall be provided by the control of the 150 2-940. The shall be provided by the control of the 150 2-940. The shall be provided by the control of the 150 2-940. The shall be provided by the control of the 150 2-940. The shall be provided by the control of the 150 2-940. The shall be provided by the control of the 150 2-940. The shall be provided by the control of the 150 2-940. The shall be provided by the control of the 150 2-940. The shall be provided by the control of the 150 2-940. The shall be provided with an over speed poweror.	4.2 Front End Equipment The boson and arm should be a hopped durable construction of high strength abod and lines from any attent appropriations. The design; must like cone of all locates to bending thesen, compression; oil, executative during portation of the endipment. Sealed bearings should be provided at print points. The bucket attachment connecting pint shall be applied end such caused.	A. Mechanical Specification A. Mechanical Specification A. Bustein is a supplied with a hard borrel, beavy dury back host rock bushed of 27 – 3.2, and separity rated accepting in (SCD 2/51). The specific weight of the nuclear material shall be not less from 7(90) option. The specific weight of the nuclear material shall be not less from 7(90) option. The specific weight of the nuclear material shall be not less from 3(90) option. The specific supplied with the bushed shall also be need back and should have purpor, chamble, easily removable and should bushed with the bushed.	3. Design orderia. The exameter shall be expected of continuous degree for postment periods on a system of 3 thirts seed of Exoura deraids periody films plant. The continuous degree of the shall of 1 150 fights. The continuous shall be not all how the ordering of real fungers with expectate ranging from 31 times to 46 times. 3. Maximum degree begin to design or continuous continuous. 3. Maximum degree begin to design 10.0 m. 4. Maximum degree degree of less than 10.0 m. 5. A Maximum degree of less than 10.0 m. 6. A Maximum degree of less than 10.0 m. 7. A Maximum degree of less than 10.0 m. 7. A Maximum degree of less than 10.0 m. 8. A Maximum degree of less than 10.0 m. 9. A Maximum degree of less than 10.0 m. 10. A Maximum degree of less than 10.0 m. 10. A Maximum degree of less than 10.0 m. 10. A Maximum degree of less than 10.0 m. 10. A Maximum degree of less than 10.0 m. 10. A Maximum degree of less than 10.0 m. 10. A Maximum degree of less than 10.0 m. 10. A Maximum degree of less than 10.0 m. 10. A Maximum degree of less than 10.0 m. 10. A Max	2. References The below as references The defended in the restricted standards by enterior to in, and form partial the appointment of the provide the inference protocol of Sondards bow as references. So 2657 Each moving machinery - Country and shelf-or Desiritors and specifications. So 2657 Each moving machinery - Country and shelf-or Desiritors and specifications. So 2657 Each moving machinery - Extensions of Journel Species So 2657 Each moving machinery - Pythole in country in the specification of Journel Species So 2658 Each moving machinery - Symbols for operator comitted and other displays, part 3. Specifications and machinery - Symbols for operator comitted and other displays, part 3. Specific symbols for machinery - Symbols for operator comitted and other displays on a 2. Specific symbols for machinery - Symbols for operator comitted and other displays on a 2. Specific symbols for machinery - Symbols for operator and machinery and committee and other displays on the symbols for machinery - Symbols for operators. So 2650 Each moving machinery - Operator and machinery - Termina bod decrease of machinery - Symbols for machinery - Symbols for machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators. So 2650 Each moving machinery - Symbols for operators and operators. So 2650 Each moving machinery - Symbols for operators and operators and part of the symbols. So 2650 Each moving machinery - Symbols for operators and operators.
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
The offered model will be provided with a dual proof machinery house. Honesto machinery house, the catwells with handralls will be provided in and around the machinery house, the operator's cab and	The undercarriage of the offered model will be of heavy duty and of sufficient elength to withstand the high loads which may occur due to uneven ground conditions, it will be of welded construction and sitess relieved as required. The souncide will be a shoole offere time.	independent crawler drive with high to return the product of the provided. Both side present motors will be provided. Both side track motors will be equipped with parking	An independent hydraulic system driven by high forque phisos motors will be pravided for 340 degree bi-directional stew motion of a continuation in manufacture is a continuation.	The offered model drive system for fraction, size and attachment operations will be and prevent design, hydraudic juystick aperated powered by heavy duty high pressure six head attail pition gamps. The pumps oil-pited will be regulated as per Load demand for maximum operating and power afficiency and maintail pition gamps. The pumps and maintail produced the provent heavy duty and chimber will be field powers heavy duty that. The Cantally Allytex will be aftered where		The offered model will be provided with NV- 855-C BiG CAM III theret injection estrates, thered region assuminationed by Chumahas thind-nethrologing 217 for © 1990 rpm in accretionate with 850 92-99. The empire will be lawling 249 Dic pleented Starter moders. Bry type 2-stage are denoted with date recursion, dust level indicator and 2-stage fuel filter with water separation. The motiple will have a water jacked cooling system, thermostatically controlled,	The offered model is with a Sam Boom with 3.25 m Arm rugged durable constructed with high strength sized and free from may atreas renemtration. The design will take care of all forces he bendinf, fortion, compression etc.		Mests the NIT requirement. The size offered model has the Alkaring working ranges: with Max. digging height 11.3M m. b) Max. digging reach: 12.00 m. c) Max. digging sheight 7.24 m. d) Max. demplog height 1.72 m. d) Max. demplog height 1.770 m. d) Max. demplog height 1.770 m. The bucket digging furrer measured in accordance with 15050415 is 12.2M.X kg permuter width of the bucket.	
	8 6 3 C P B			F 5 5 1 1 1 7 1 2 . 3						



AGREED Included Pressure type Controlled dutomatic Lancinesian System filled with several control and a state of the control and
Preditive Pressure type Centralised data Labelinstation System (Intil will be supple that Labelinstation System (Intil will be supple that the provided till be ministed and substituted and substituted and substituted that the provided till be provided with beautiful provided till be provided with beautiful provided till be provided with beautiful provided till be provided with the provided and substitute and
committee (glace) (glace) (limited)

(4)

the span

2.V					24) 24 X									30 A	
						b) Dotatis of nearest Dipper Workhouse and Service Facility available for the present offer								7.7 General De Nomber of shifter model supplied during the best ten years. The information should be given in the following Jurimat in the collect of most repent float.	In normation to be prevised by this subplier. The suppliers shall find that the bishop internation which will be used for the excessment of both and as grazarized technical particulars in any public shall be supplied that the bishop of the suppliers and the provision of the suppliers and the suppliers are suppliers and the suppliers and the suppliers and the suppliers are suppliers and the suppliers are suppliers.
				Location		AGREED		-					Company Mine	AGREED	AGREED
-				Contact Numbers	Major Depo/Warefouse	Uploaded with the offer.	-						Mine large	Uplanded with the uffer.	THE PROPERTY OF THE PROPERTY O
				Inventory Value Location (Aspense)						AL PRINCIPAL PRI	THE PARTY OF THE P		Mine Location Mine Type		
				Type of Facilities available	Service Facility								Number of reachines		
				No. of Engineers									Date of Contraduction		

- (B)

De H

و المراجع والراجع والمنطق والاستراجعوا مقسات المناهو المناش المناسطان الراساة المراجع والمراجع والمراجع

n ISO net power at(pm) (i) Maximum torque (j) Maximum to	7.3.5 Engine and model a) Manufacturer and model b) Number of principus c) Bords of Stroken	7.2.4. Performance details. a) Swing speed a) Towns speed b) Trowns speed c) Groute ability	7.2.2. Weights a) Singging weight of all se b) Bucket total weight c) Bucket specific weight c) Weight of undercarriage c) You'd working weight c) You'd working weight	7.3.2.2 Front end a) Bucket width b) Boom lungth wit c) Arm length with i	2020882577	SECRETE	PTADE CORDER DE CORDE	8.0
			7.2.1 Weights a Sincer or weight of all applaces components. b) Buches transl weight c) Buches transl weight d) Weight of undercentage d) Weight of undercentage e) Total weight e) Total weight	7.1.2.2. Front end all Bucter width b) Boom hingth with specified bucket c) Arm kergin with specified bucket	7.1.2. Dimensions 7.1.2. I Basic machine 1.1.2.1. Basic machine 1.1.2.2. I Basic machine 1.1.2.2. I Basic machine 1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	7.1 Unressions, weights and performance details 7.2.1 Working flanges 14 Maximum digating leasing 15 Maximum digating leasing 16 Maximum digating leasing	It is common and position and constrainty to 150,75%, ingeleter with restituction calculations and creatings. It is blancing and the target according to 150,75%, ingeleter with restituction calculations and creatings. It is blancing the development of pigging increa measured according in 150 dol.15. Bouset at maximum dispring force position with create properticular to the local set and of Robitson's from tropping line business at maximum dispring force position with create properticular to the local set and depending conclusion. It capies participates a transmit dispring force position with create properticular to the local set and constraints operating one of the can. It capies participates at reader appears to the properticular to the local set and cancer and operating one of the properticular to the local set and capacity over the maximum worker and consumption measured according to 150 sets. The local set business and capacity over the maximum worker attends to consumption measured according to 150 sets. Local set business and desired descriptions of the measurem worker and composed to 150. Justice force and the properticular to the local sets and capacity over the maximum worker according to 150. Justice force and the properticular to the local sets and capacity over the maximum worker and composed to 150. Justice force and the properticular and the p	Details of special topic to be provided with the equipment. Details of energing programmes for the bod.
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
g) Maximus terque - 1156 km @ 1500 ppas g) Maximber, floor raide and operating pressures of pamps - One number Sit head fixed floor from p. Floor raid: 746 filters per min @ 1900 ppm. Operating Pressure 3 220 has fa working nade & 400 har in heavy Hit mode.	a) Manufacturer and model - Commins India Limited, Model - FT-825-C, BiG CAM III b) Number of Cylinders - 6 (Sta) c) Bare - 140 mm d) Strake - 152 mm e) Bisplacement - 14 Hres b) Strake - 152 mm	b) Travel speed - Law 1.2 kmph, High : 2.6 kmph b) Cravel speed - Law : 1.3 kmph, High : 2.6 kmph c) Gradenhility - SW	a) Shipping weight of all reparate components - Turret & Undervaringe 25230 kg Counterweight 8709 kg Becklow house natembly 680 kg Backlow nitt kasembly 2180 kg Backlow it keep 1267 kg; b) Weight of Huckhow bucket 2578 kg; b) Weight of	a) Bucket width - 1,789 M b) Boom length with specified bucket - 6.880 M c) Arm length with specified bucket - 3.250 M	b) Upper structure overall ridds -3.310 mm b) Upper structure overall width, with a straids c) Upper structure read arting radius -32.30 mm c) Upper structure rear end arting radius -32.30 d) Heights to hop of P575 - 4.310 mm c) Charance moder upper structure - 1570 mm d) Charles overall reguls -5510 mm d) Charles overall reguls -5510 mm b) Charles overall reguls - 12.55 mm	a) Nactasum deging beight 11.40 M b) Nacimum deging cepht - 12.80 M c) Nacimum deging depht - 7.70 M d) Nacimum demping beight - 7.70 M e) Nesch ai maximum deging force - 8.4 M		Uploaded with the offer.

2.1 Front End Attachment The occavable shall have the believing working a) Mainman conting height not least hear 10.0 pr b) Mainman conting height not least hear 2.0 m b) Mainman conting death not least hear 2.0 m c) Mainman deployed death not least hear 2.0 m c) Mainman heaf crowding distances not least the d) Minimum heaf crowding distances not least the file bucket drighting locks reseasized in accordant files are annot of aim or behavior displaying locks to opposi-	Design Criteria The excavator shall be a nard, highly altrasive, b The excavator shall be	A. References The Uniformity Internation In 285f Earth-movin ISO 285f Earth-movin ISO 2457 Earth-movin ISO 2457 Earth-movin ISO 2614 Earth-movin ISO 2615 Ea		EQUIPMENT SPECIFIC		# 1		Equipment Acceptant The Equipment ordered that the equipment, or r provided by the Supplie	7.3.9 Lighting delails	7.3.8 Electrical system 1. Staner make and model 2. Staner control make and model 3. Attender make and model 4. Battery – Number and rating	7.2.7 Indemartings a) Consider within (Consider trainers, local function (Consider trainers)
1.1 Front End Allschment The orcavelor stell have the following wording ranges: a) Marmum cuting neight not least them 10.0 m: a) Marmum cuting neight not least them 10.0 m: b) Marmum disping reach not least them 2.0 m: b) Marmum disping death not least them 2.0 m: b) Marmum disping death not least them 2.0 m: b) Marmum disping death not least them 2.0 m: b) Marmum disping death not least them 2.0 m: b) Marmum disping death not least them 2.0 m: b) Marmum disping death not least them 2.0 m: b) Marmum disping death not least them 2.0 m: b) Marmum disping death not least them 3.0 m: c) Marmum disping death not least them 3.0 m: c) Marmum disping death not least them 3.0 m: d) Marmum disping death not lea	apable of continuous dig asted sandstonerock has urlande for "3" troated ko	nal Standards era referera paulinery - Gozes spy paulinery - Gozes spy paulinery - Gozes spy paulinery - Gozes spy paulinery - Gozes paulinery - Gozes gy machinery - Gozes gy machinery - Gozes gy machinery - Gozes gy machinery - Gozes grachinery - Hydraulic e machinery - Hydraulic e	iton. Inded to cover the technic Red, classis powered hydra	ATTON OF A DIESEL H		 1	6 0	will be lineary accepted as essembly or que-assembly t in excardance with the t		Currer program pres	7.2.7. Lindercarriage 3) Crander worth. 3) Crander stores, total number. c) Contine trones, otals replace. 6) Crander trones, otals replace. 6) Crander Continel area. 9) Crander Continel area. 1) Crander Continel area. 1) Crander Continel area. 1) Load collect, demonitor and number per crander. 1) Diving Sprock-as disament. 1) Diving Sprock-as disament.
india act proofs taken for act proofs 5.10 OSI time act proofs 5.10 OSI time	 Design Criteria Des	A Reference of the control of the control of the Specification: A Reference of the control of the Specification: By 150 Earth-moving machinery - Guards spiziting. By 150 Earth-moving machinery - Guards and sinches - Demicine and specifications. By 150 Earth-moving machinery - Captains a point. By 150 Earth-moving machinery - Execution - Operations control of Spiziting - Captains - Demicine - Demicin	 Scope of Specification. This specification is intended to cover the incrinical impairments for the drough manufacture, tealing, address, co-size speciens and commissioning of a set proposed, covers mounted, deep powered hydraulic securation with A2—3.5 and Editori Discovage Front Stored Loader. 	EQUIPMENT SPECIFICATION OF A DIESEL MIDNAULUS EXCAVATOR WITH 12—12 mat Front Shovel Bulgaet	Digging Forces	Hourly, Fuel Consumption	Cycle Toron 190 dec mind	Equipment Acceptance The Equipment ordered will be theirly accepted script to the Supplier depressation to the Purchaser or the subracted representative (may be first party). The Equipment content will be their acceptance of the secondary or sub-assembly featured as fundous by the Purchaser) when period as inclinated below, incess the Performance Cara-provided by the Supplied to acceptance with the experience of clears I. A destinated to the supplier to acceptance with the experience.	A Barrera Agencia A Company of the C		
To come the see in the	on a system of 3 shifts ex of 1 800 kg/m3 to to coal capacities langing from 3	Description: De	gn, manufacture; testing 6 m3 Bostom Discharge F	ИПН 3.2.—3.8 m3 FROK	Mars	Supplement of the control of the con	To be considered to the constant of the cons	ratialing to the Purchases e Purchaser) when tested destingenal deviation of t			
o lucius signi.	ah of 8 hours duration per having 8 descrip, after bi 1 lannes to 48 tomes.	man symbols die symbols for machine die symbols for machine design. Paggingmotts is	delvery, or site enacion rant Shovel buckel.	T SHOVEL BUCKET	demutecturer & less certificate in the luminitad	If on beind a sin effer on 20 (thing) operating shar war age immediately effer commissioning brider special controller as a said of the Turket Res experience of personal as a said to the Turket Res experience of personal effects are used to expend to fairly supplier's personal effects are to expend only for a per controll of the Turket Res special effects to be authorized by the Supplier	to be tested at site utile; commu- conditions as stated in the Tested operating at the Supplier's discre- tion of the Supplier's discre- supplier's personnel (who are to as per comitation or by the Pulyste is ber authorised by the Supplier is ber authorised by the Supplier	or is authorised represe as indicated below, meat p to 2 vins will be accepting			
	day throughout the year in sting of 1150 kg/m3	equipment and	and commissioning of a se		o be lumished	To on besind as size either oil 30 (thing) operating days average immediately either commissioning under operating condition are stated in a Tourist. Per experiment may be presented, at the Supples as the present, which is to the Supples's posturated when are as the applying the present as part constand or the Participator's procurate with are to be authorised by the Supples.	To be seed on it till a three communicating, under oppositing conditions as stated in the Tevedon-The equipment may be operated, as the Supplier's describing, which by the operated at the Supplier's describing with the Supplier's presented with a text to be springed the training as per contractly or by the Purchasor's personned who are to be authorised by the Supplier.	ntailire (may be thed party) t the Parlognance Data t			
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
The effered model a) Maximum to b) Maximum di c) Maximum di d) Minimum de d) Minimum de di di ebucket dige accordance relib 15	1		L&T-300CK-II (D) Excession, Grawker the I - Cummins India di	1 _	21890.			Ne see	Wurking Lights - 2 nes Turret, 2 nes on Cabin, I Mademan revolving frame		b) Crawler shors, it c) Ceatre to centre of d) Ground con e) Ground bearing D. Load rollers, dl crawler - 210mm, g) Driving 2010ci
working rawqes: working rawqes: working rawqes: working rawqes: working pegis 10.2 M am digping rasch - 9.0 M am digping rasch - 9.0 M am digping rasch - 9.0 M am keyel coweding - 5.5 M toligping lweve measured la his ISO 6015 k 18.985 kg/m of	oded and agreed		K-II (Diesel Version) Hydraulic Crawker mounted and filted with the following: India diesel engine NT K55 C Big. Nated and account	Neded agreed	21890.81 kgf (ISO)	30 - 36 HPM HBMF	26 Secs	Neked and agreed	hts - 2 nes on Breen, 2 nos on on Cable, I cable lamp. Kuth- les frame _TSW_OMbers_60W	nasks and model - Make : Dekraling : 400, Ralling : 50 hT, Operaling V, Rotalion : CW, KW : 2.95 / 2.01 HP / 1000 Amps apriral make and model - Make : 1, Model : 50 MT, Voltage : 24V	sbeet, (stal number - 600mm ; 48 now us each dide now us each dide the feet of lider roke and sprocket - 412mm und coulact ures - 5.40 st m bearing pressure - 1.0 kg/ st cm bearing pressure - 1.0 kg/ st cm libert, diameter and number per 210mm, 7 numbers on each side to 15 presset; diameter - 847nom
											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

4)

in the second of the second of

have provision of actuality it measurely. The 411tb) Fire Extinguistions. Adequate numbers (root less than Q2 number burdents for ease of temperal. The entinguish specifying and fire suppressing upon in all the fire hybring and fire suppressing specifying and fire suppressing the suppressing specific and the fire hybring and fire suppressing specific and the fire hybring specific and the suppressing specific and specific and specific and spe	4.10. Guards and Shields Adequate quards and stield Adequate Quards and stield 4.11(a) Automatic Fire Da Automatic fire detection and	27 2 2 2 2	景臣	4.7 Mg The exc Non-ski shall co	4.6 Un The un of weld The spi Crawler The we	4.5 Pri	A.4A S An inde	A.3A + The existing sequent cavital in the or of the or	4.4 Operati	4.3. Engine The excavat to ISO exage and 2 stage The engine through a to output at its The engine.	4.2 Fm The bo all toro bucket	d. Technica 4.1 Bucket The excavase The specific. The toolh polivith the back
have provided oil actualing it manually. The system shall provide checkups teeling integerition of system without operating system. 4.11(b) Fire Extinguistions. 4.11(b) Fire Extinguistions. Acquates numbers of the states Q2 numbers; of the extinguishess shall be provide at strategic points on the excuspior, suitably mounted in leasy 5.5%. Acquates numbers of these charges for each of removal. The entinguishess shall be of a minimum capacity of 5 kg and shall cample with \$5.27%. The materials and chronicals to be backets for each of temporal. The entinguishess shall be of a minimum capacity of 5 kg and shall cample with \$5.27%. The materials and chronicals to be backets for each of temporal first enting item DOMS.	4.10. Guarda and Shelda. Adequats quarda and alveids which comply with ISO 9457 shall be provided throughout the excension. 4.41(a). Automatic Fire Detection & Suppression System. Automatic fire detection and suppression system of a standard grown and capacity approved by DOMS is to be provided. The system shall also	4.9 Operator's Cab A Lifty resultant study suppressed. Air-conditioned, POPS operator's cab with front panel finned savery gauss, wind spined separator weather about be mounted on unber shock absorbers and developed in Justice a clear and lycropical view of the properting area. The operator's seat shall be a Justy additionable based in part from the control and set of participating properties. All operating controls, monitoring and weaking algrads should be committed in consoles within easy seach of the operator and shall compily with ISO 4557, ISO 5457-1 and ISO 6455-2.	4.6 Lubrication System A contribute automate Lubrication system of goestere type should be provided with wearing alarms for destrication of failed points.	 Nachinery Noze: Nachinery House. Nachinery House.	4.6 Undercarrage class to heavy day and of sufficient strength to write and the high locats which may occar does to inverse option conditions. It shall be favored construction and dispress reflected is required. The symptotic stands to a maje price to the pro-cased sprosses, judic part rollers, and a related track tensioning arrangement anoded be provided Causter shows shall be heavy day and designed for each of replacement whose shall be heavy day and designed for each of replacement whose shall be heavy day and designed for each of replacement whose strangers and the measure. The weight of the undercarrage should presently be 45 to 45% of the opening weight of the measure.	4.5 Propol and Streeting Hosponderd crawler drive with independent lakingstable belong statem and hydraukically contains entensive and partiting braines shall be provided.	4.4A. Swing System An independent elicipii hydrautic system straud be provided for the awing motion. An upper structure swing lock shall be provided.	AJA Hydraulic Drive System The extractor hydraulic prive System The extractor hydraulic prive should prelievably be creetly prevent by the origins to extract appretion of size and treat increased the littra evolution organization. The bydraulic purpose, increase and private actual to find prive large leavy only type and have alrubably inhall president from surge, controlling the private large make purpose produce, organization and the statement of the stateme	4.4. Operating weight. Operating weight of the machine should not be less than 54,000 Kg for the delette boson, arm and backet combinedign offered in the old.	4.1 Engine 14.1 Engine 15. The enzymans suit be prevent by a direct intention 4-stroke detail angine of rad loss 2.17 (W) jed power, measured between 1700 paid 2100 jpps becoming to ISO Sept. The object of that is the provided with 24 voil obscire standing by type 2 stags at character with automatic data remaind and a long loss file with realize apparation. 15. decays of the file with realize apparation parameters are interestable, considerating as a regime driven waste purposed the cooling waith its cooling waith its parameters are interestable of providing suitable of the parameters of continuously operate at the life radial orbits of heavy of the draft-specific file object of the maximum analysis (among the draft of the parameters) are increased by an engine at the less desirated at the less desirated by an engine at the less desirated by an engine at the less desirated	4.2 Front End Equipment: The boom and sum should be a rupped durable construction of hype grouph sized and the from any stress concentrations. The design must be called a state of the boom and sum should be a rupped durable construction of hype grouph sized and from the supperson. Senior bearings should be provided all prof points. The burners connecting pine shall be senior and furbraised.	4. Technical Requirements 4. Technical Requirements 4.1 Burder 1.1 Burder 1.1 Burder 1.1 Burder 1.2 Burder
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
		The affect model will be provided with fally installed, tough suppressed, affect of model and proposed, affect of the provided with a front guard, linked safely glots, when short such as the provided with the mounted on mobber should show here and a remarked to bedillate a feat and superstricted when of the uperstring area. The operation's east will be a fally and the tacked the exist.	The offered model will be provided with a Positive Pressure type Centralised Assumatic Lubrication System litted with warning warraw	The offered model will be provided with a dust proof matcherly house. Nun-stip type walk-ways and caturalis with handralis will be provided in and around the nucleary house, the operator's cub and foreview platforms and will sample with 1800 ferview platforms and will sample with 1800.	The undercardage of the offend model will be of heavy duty and of sufficient strength to withcland the high loads which may occur due to uneven ground conditions. It will be of wedder construction and stress relevand as required. The annotate with he a shock nince tree.	Independent crawler drive with high torque pixtun motore will be provided. Solb side track motors will be equipped with parking brake of	high incipendent hydraulic system driven by high incipue piston motors will be provided for 360 degree bi-directional skew mutton of excavator upper structure. A parking brake of	2 4 " * L _ R FR F s	58460 Kg	The affered model will be provided with NT- 85-C BiG CAM III dried in Jetach a-trake diesel regize manifactured by Cummins Indukentholing 21 for 60 PMO pan in accordance with SO 9249. The engine will be accordance with SO 9249. The engine will be acting 249 DC shedrie. Starter modes. Day type 2-stage after denace with hads trausation, dail level indicator and 2-stage fast dilter with water teparatior. The regine with have a water justed cooling system, itemportarisally controlled.		Discharge Rangher State of the alley rivel of the example cand stone above the example cand higher the policy of 1950 he bard facud, rank arbing type.

1

A second control of the control of t

			7.1 General. a) Number of similar model supplied during the last five years. b) Number of similar model supplied during the last five years. The information shall be given in the following formal prescribed in Section VIII (Pro-Format for Performance Streement).	7 Information To Be Provided By The Supplier. The Supplier shall funds the tellowing information which will be used for the assessment of bible and as guaranteed technical particulate in any subsequent contract. All technical information shall be in Si units.	6.1 Special Guammire The following paramites will apply for the officeral components (in declaring paramites will apply for the officeral components) (in Body, Chause - 1,0,000 notice of 1000 calendar days (includings) is easily), (in Complete organization of 1000 calendar days (includings) is easily), (in Case of lailure of explore system - 4 months of 6000 hat, the stand components of the organization of 1000 case of the case of the case of system depries (in Case of lailure of explore system depries depries) (in Case of lailure of explore system depries depries) (in Case of lailure of explore system depries depries) (in Case of lailure of explore system depries depries) (in Case of lailure of explore system depries depries) (in Case of lailure of explore system depries depries) (in Case of lailure of explore system depries depries) (in Case of lailure of explore system depries depries) (in Case of lailure of explore system depries) (in Case of explore system depries) (in Case of lailure of explore system depries) (in Case of explore system dep	6. Performance Guarantee In accordance with production of chances. C.7.2.1 and C.7.2.2.2 in the Technical Specifications. The Supplier shall guarantee that the invalidability of the In accordance with production at the Section 2.2 is and C.7.2.1 and C.7.2.2 in the Technical Specification. The Supplier shall guarantee that the invalidability of the production of the Composition of the Section 2.2 is an accordance of the Section 2.2 is a section	Ancillary Equipment and Other Requirements. No release to be provided on the encarease. All Homos are to be provided on the encarease. All Homos and all filter coupling indication Phytotoxic oil and all filter coupling indication Office of the encarease and the encarease are experienced as a second of the encarease and the encarease are encarease and the encareas	4.15 Electrical Equipment. The orassets that he provided with the belowing. The orassets shall be provided with the belowing. a) 24V D.G. electrical system with salable craze discretory professably ALCCODELCO-RELAY, LUCAN make. b) Electric shall b) Electric shall c) Reputable make high capacity balances c) Reputable make high capacity balances c) Reputable make high capacity balances c) All shall y stealance switch Aut electrical contrib that he provided by adequately (abott losse, which shall be easily supposite for manuscape, At least we spine state of each size at all he provided in pach last box.	A14 Gauges, Indicators and safety items. In case of clear drive, the between shall be provided at a celeirum. White temperature gauge processes. Expose of temperature and pressure gauge/refectable. Fund capacity gauge G. Full capacity gauge G. Expose of temperature and pressure gauge/refectable. Expose floatmenter Funder floatmenter As function control and safety. Turbochappe Gaud Turbochappe Ga	4.13 Warning Atarm In case of disusé driven the pudo visual warning planner systèmes shall be provided for the bottowing. In case of of pressure. In the first of pressure. In the first of pressure.	4.12 Lightling (i) Advenue trood frytring and illumination at crassings points both outside and involved the encurators shall be provided for Visual observation and right; (ii) Advenue trood frytring and illumination at crassing points both outside and involved of the encurators. The lighting finances shall be supplied at 24 V DC of autorgame capacity.
, Library Control of the Control of		Company Mina	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
		Mina Marrie	Uploaded with the offer.	Noted and agreed	Noted and agreed	Sales and agreed	The effects made with the provided with full winning. a) Hurn b) Hydranike all and ahr filler chegging c) All filter clement & O-rings including british. Filters for yearcants. vectod	H B B B B B B B B B B B B B B B B B B	1 그 이 그 수 다 된 한 강 말 한 다 같아 보니		adequate Rood lighting and flumination at stretegic paints both outside and inside of the excavator will be provided for stand theory and a standard the provided for the advancements and about skill recognition. The
		Mine Incation Mine Type									
		Mumber of machines									
		Date of Commissioning					9.5		Character discharge		

The def

		3 0			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)					1 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)				100 (Sept.)	nê N
e) Defails of special tools in by provided with the equipment.	Eighean / Tuchnicians employed to service the equipment either at the Japilly or on sile:									b) Details of nearest Depot/Warefunds and Service Facility available for the present offer, in the format prescribed in Section VIII (Pro-Forma for Statement of Depot/Warefunds and Service Facilities).					
										(Pro-Forma for					
AGREED							Charles and the control of the contr	Location		AGREED		A THE	-		
Uploaded with the offer.	٠.							Contact Numbers	Major Depos Warehouse	Upheeded with the effer,		The state of the s			
								Inventory Value (Apprex.)							
								Location							
								Type of Facilities available	Barvice Facility						
								Type of Eacillies No. of Engineers available							
				1	J					J	I		L	L	I

7.3.7 Underzardage) Cowier width) Cowier allows to a fumber) Cowier to coming of last mater and suncode) Cowier to coming of last mater and suncode) Ground cowing pressure) Ground bearing pressure) Load rollens, dameter and number per cowing) Dividy sproude; dameter) biller collen, dameter	7.1.6. Hydraulio System oli kumbar, flor ratus and opening pressures of promps b) Number, flor ratus and opening pressures of promps b) Number and ratings of motors. (c) Number, and contested priori stroke lengths of cylindess d) Refer valve operating pressures.	7.1.5 Eighne a) Manufacturer and model b) Number of cylinders c) Bore d) Stroke d) Stroke () Don't Doner at	72.4 Performance details. 8) Suring speed 10) Travel speed c) Travel speed c) Cancenbulty	17.3.3. Weights in Skipping weight of all estabatio components in Skipping weight of all estabatio components in Skipping weight in Skipping weight in Skipping weight in Skipping weight of Weight of understormage of Yould working weight	7.2.2.2. Front and Blaucher width Lil Bourber width Commonwish specified backets c) Arm tength with specified backets c) Arm tength with specified backets	7.1.2 Dimensions 7.1.1 Gaste machine 12.1.1 Gaste machine 13 Upper structure overall width, write classifies 14 Upper structure overall width, write classifies 15 Upper structure overall width, write classifies 15 Upper structure are red ut wiver structure 16 Height in top of FQPS 10 Clearact under upper structure 11 Undersaftings overall width. 12 Clearact under applit. 13 Clearact under applit.	7.2 Dimensions, Weights and Performance Details 7.1.1 Working Banges. 11 Assumum ching height 12 International program 12 International program 13 International program 14 International control ordinary 15 International control ordinary 16 Meanum disprint plaght 16 Reports at maximum disprint plaght 18 Reports at maximum disprint plaght 19 Reports at maximum disprint plaght 10 Reports at maximum disprint plaght 11 Reports at maximum disprint plaght 12 Reports at maximum disprint plaght 13 Reports at maximum disprint plaght 14 Reports at maximum disprint plaght 15 Reports at maximum disprint plaght 16 Reports at maximum disprint plaght 17 Reports at maximum disprint plaght 18 Reports at maximum disprint plaght 19 Reports at maximum disprint plaght 19 Reports at maximum disprint plaght 19 Reports at maximum disprint plaght 10 Reports at maximum disprint plaght 11 Reports at maximum disprint plaght 12 Reports at maximum disprint plaght 13 Reports at maximum disprint plaght 14 Reports at maximum disprint plaght 15 Reports at maximum disprint plaght 16 Reports at maximum disprint plaght 17 Reports at maximum disprint plaght 18 Reports at maximum disprint plaght 18 Reports at maximum disprint plaght 19 Reports at maximum disprint plag	7.2 Technical Deals (i) A Visametic cating of the backs according to (2074-4) topine with restriction relabilities and disease (visional Depois) are secured as a factor of the deals of Depois prices measured according to (2016). A Manner Am and Silvake (visional Depois) sinces measured according to (2016). A Manner Am and Silvake (visional Depois) sinces measured according to (2016). Libered at manner since of the protein with create manner protein and the factor of the cat. It is closed at manner since of one to protein with create manner properties in the lace of the cat. It is protein the protein of the protein with create manner properties in the lace of the cat. It is not a bishory operating by a first protein with create manner protein to the control of the control of the cat. The last the broads to seed operation one the manner spectrum programs and protein resourced to (2004). The last the broads to seed operation one the manner spectrum and comproprise. It is not be interested operation for the protein and control of the
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
h) Crawlet San, (dal number: 480mm; 485 not en exh ide c) Centre to entre filder pilter and specklet e) Centre to entre filder pilter and specklet e) Centre to entre filder set idea en et el (180mm; 180 mm) e) Ground bening pressire: 10 kg/ sq. cm e) Loud switer, diameter and number preterier: 210mm; 7 number no ech side e) Diving appectat, diameter: 847mm	a) Number, flow rates and operating pressures of pumps - One number 5% host fixed flow Fump , Flow rate: 748 Hiers per sain & 1900 rpm, Operating Fressure ; 328 ber in wording numbe & 460 bar is heavy 1911 mode, h) Number and ratines of medors . Swing	a) Manufacturer and model - Chinnitis India Limited, Macle L'NT-ESS-C, ESG CALI III b) Namber at cythoders - 6 (Six) c) Boret - 40 mm d) Struke - 152 mm d) Struke - 152 mm d) Displacement - 14 Lifres D) ISO and powers at - 230HF @ 1900 rpm g) Maximum forque - 1156 Nm @ 1500 rpm	a) Swing speed - Live - L. Joseph, Iligh : 2.6 Emph c) Gradenbilly - 58%	a) Shipping weigh of all separate components: Three & modernarrings: 55510 kg, Bound Amp: 1900 Kg, Stack Amp: 1590 kg, Boulet Amp: 6100 kg, Comber weight: 5700 kg, TOTAL OPERATING WEIGHT: 58400 kg	e) Suctor with - 2-090 M b) Boom length with specified bucket - 3,900 M c) Arm Jength with specified bucket - 2,750 M	a) Upper structure extrall width - 3/10 mm in lipper structure extral width with circulating the proper structure extral width with circulating circulating the structure rate and string radius - 3320 mm circulating the structure rate and structure rate and pit-sight step as for 1079 - 2000 mm circulating circulating the rate with rate and pit Caracter overall length - 1265 mm in lipper structure rate and pit Caracter overall length - 1265 mm in lipper structure rate and pit Caracter overall length - 1265 mm in lipper structure rate and pit caracter overall length - 1265 mm in lipper structure rate and pit caracter over lipper structure rate and pit caracter overall length - 1265 mm in lipper structure over lipper structure rate and pit caracter over lipper str	i) Maximum cutting beight - 10.3 M i) Maximum digting tech-30 M i) Maximum digting tech-30 M d) Maximum digting tech-27 M d) Maximum tech crew di disacc - 57 M d) Maximum technique, deight - 58 M d) Reach at maximum digting force - 63 M g) Reach at maximum damping, height - 3.7 M g) Reach at maximum cutling height j) Reach at maximum cutling height	sho 7546, together with restification calculations and far wings. Updanded with the offer the product of the calculation and far wings. Deplanded with the product of the calculation of the calculation of the Chairt of Children Updanded with Lie different Deplanded with Lie different to Chairt of Chairty and It's distance from the Chairt and at of Recheleng Lie pastique of the Chairt and It's distance from the Chairt and at of Recheleng Lie Lie Lie and Lie an
- 7 - 7	76 1]			2	

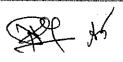


		A control of the cont					is the	And the second second								44.2		
	STM0.		(ii) The MARC Holder required during the en (iii) MARC Holder will and overhauling of eat (iv) BCCL expect to ut	lic) MARC holder to R MARC period. The ma rehabilitation will rol. I time for rehabilitation charges only upon a m specified by MARC ho	(b) The MARC perio	2		The Williams of the Company	(U) ONTS		1. SCOPE OF MARC The Buder will under on the bidder who her (a) The Contract will	PARTE - MANTE DIESEL POWERED I	C. C. C.			Equipment Acceptance The Equipment ordered v that the equipment, or eat provided by the Supplier	7.3.9 Lighting details	7.3.8 Electrical system (. Starter make and model 2. Starter control make and model 1. Alternator make and model 4. Battery — Number and rating
	The Property New York of the Control		shall be responsible for the MARC period excep- supply all the spares re- remblies, sub-assembly lize the each oxulpmen	shabilitate the Equipme samum permitted time ! e considered as down! would be treated as do want perced of 4 we take in their otter.	d can be extended for t	Hydraulic shovels 1,2-3,8 Cu.M	Hydraulic shovels 2,7-3,2 Cu.M.		Equipment (2)		aka responsibility for in- costorin will be lemied a stan from the date of o	NANCE AND REPAIR PDRAULIC EXCAVAT	A CONTRACTOR			nce to that's accepts of will be timely accepts rationally of sub-saces lier, in accordance with t		tem nodel er and model st model
Hydrautic strovets	Equipment		(i) The MARC Holder shall be responsible for supply of all spaces, sub-assembless issembless, components and all other items including all consumables required during the entire MARC period encept field is power. (iii) MARC Notice will supply all the spaces; required for space-down, unprovided repairs, surring require, substantial presenting and consumination of equations and constanting of expensive property of equations and constanting of expensive property of equations (iv) BCCL expect to called the each equations already, as given in Table-2.	I/O MARC holder to Rehabilishe the Empirement during the MARC period as singlehead in table 11. Each showed has be rehabilished order during the MARC period. The maximum permitted time for rehabilished would be a singlehead as deventine on account of MARC holder for reductions of exhability However (to period in success of the permitted inne for rehabilishing and permitted downline on account of MARC holder. The MARC holder shall have been precised to permit and commence account of MARC holder. The MARC holder shall be permitted that are not be cheard charges only upon a maximum period of 4 weeks permitted for eshabilishing. The succession of rehabilishing 5 for commencement date are to be cheard specified by MARC public in their other.	(b) The MARC period can be extended for the balance inted life it agreed mutically both by BCCL & MARC Halders.	7	7	Yra	Period of MARC (in Yrs)		1. SCOPE OF MARC. The Busines with investment production of the second of the contract period. The Talkening conditions will passall on the business with investment and the second of the contract period. The Talkening conditions will present the second of the second of the second of the Talkening with these.	PART F - MAINTEMANCE AND REPAIR CONTRACT (MARC). DIESEL POWERED MYDRAUUC EXCAVATOR WITH 32-32 MS BACK-HOE BUCKET) DIESEL MYDRAUUC EXCAVATOR WITH 32-32 MSPRIORT SHOVEL BUCKET.	Digging Forces	Houry Fuel Consumption	Cycle Tene of 50 day awary	Epipment Acceptance The Epipment Acceptance The Epipment ordered will be finally accepted pulport to the Supplier demonstrating to the Procrease or its authorised representative (may be third party) that the equipment, or organishy or sub-susceptibly ledested at random by the Principansy when taked as indicated below, imperit the Antominans Units provided by the Supplier, in accordance, with the registerments of charact. A destinantial provided by the Supplier, in accordance.		
		Table-2	ressembles assemble respectated in part term of example	rod as sipulated in labi to A weeks for each Sh I Helder for rabulation INC Helder The MARC Baston The sound dural	Greed mutually both by	G	8	Yrs 1-2		Table-1) the equipment fill the s e for a period as implica	ACK-HOE BUCKET! D		ion.		a demonstrating to the m by the Purchases) where T . A destinant to see		
	Especies		dragenasce", emiss Distr ge true i transcolusco "es	to 71. Each about has t crys. The period during of available, therefore hocks stall only be or on of revabilisation & it	BCCL & MARC Holos	8	8	¥16	Minimum Annual Guaranteed Percentage Availability [4]		end of the curtified perc led in the Table 1 given	IESEL HYDRAULE EN	Manufacturer's test conditions to be	To be lested at six area up an mediati opicitions as state operated, at by S. Supplier's personn as personned to in the subosited by	To be instead at sales of the community of the Control of the Cont	Purchase of its authorism technoles indicated in solution of up to 21/24 will		
5000	Expected Armual Hoursof Utilization		r dires stems indicating a	o be retrabilitated orces which the replyment is the period in secrets of titled for supervision & s. commencement date	p				ntsect Y		d. The following condi- todoe:	CAVATOR WITH 32-	condicate to be surpained	To be instead at with alter per 3D (tritty) generaling short are except instead as with a former instead or are to operating profitions or at parties. The Profits of The equipment may be operated, as the Supplear assumetor, the equipment of the Operation as the equipment for training as per contract) or the Profit alternative state as the contract) or the Profit alternative state as the authorised by the Supplear presentation and a state authorised by the Supplear	To be leaded at several measuring under operating socializing as a state of the Tevator The equipment may be operating as a state of the Tevator The equipment may be operated, as the Tevator	ted representative (ma below, meets the Pertor be eccepted		
	zation		di consumataes	during the unruer the permitted conclused are to be clearly							ions will prevail	-SLE MISERONT	£	realing days under operating uppment may be at by the yed for (raining seption and are	under upwaling pupment may be et by the yed for taking screen who are	y be third party) marcus Cata		
AGREED	AGREED		AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED		AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
Note	Note		Note		Nate	7.65	700	Nusta	Note	Next		7		;; 2.5			Working Lights Turret, 2 nos on 6	Herny, Type : 400, Voltage : 74V, R 12.01 2. Starfer construi Delco Remy, Mu 1. h licenator make
Noted and agreed	ioled and agreed		Noted and agreed	Noted and agerted	Noted and agreed	Noted and agreed	wied and agreed	utod and agraved	Noted and agreed	isled and agreed	and the state of t	Aned and agrees	37978 kgf	-36 Litred Hour	2J-Sect	Noted and agreed	his - 2 nos on Boom, 2 nos on on Cabin, 1 cabin lamp. Kuib -	(BG, Raling : 50 MT, Operaling (Rotaling : 50 MT, W: 8.951 of 11 MT 1000 Amps of 11 Make : Make : Make : Muke :
															chers PAGES Despendant Despendant			
		~~~	1.0				4						4					

WA H

Shh	0.1923E-1							A CONTRACTOR OF THE PERSON OF		(A) (A) (A)							
L. AVAILABILITY PROYESONS & DOWNTIME 3.1 Availability Guarantee AVACC Holey chall ensure that the equipment are available for puring to sure at least by the guaranteed availability specifies in Table - 1	The MARC Helds. In constitution with BCCL, shall conduct annual training suits of the eating personnel and provide further fraining to enhances that will for the operation and manufamourse of interested equationists.  All the MARC Helder's preserved and 5 or impression and the preserved and provide attention and induction course produced by BCCL.  Interestations, who shall interduce the MARC helder personnel to the operation dring, the productors, safety applicaments combined in the Minor Act and any other has for the new being in local.  The MARC Helder's that excell not the preserve deployed by them for the trainmenters of the temperation country with the Minor Act and any other has for the interest being in force.	Marpower Training & industries The MARC choice stand provides standing to the dependent & maintenance pressured engaged by BCCL to a level of sprincency (resulted achievement of purchased production). Training on Simulation Mediums, by the bidder at their works ( season) locations is mandatory. Training on Simulation with BCCC, studi impact comprolession classification in their production of the levelent equipment and on the MARC industries on the control standing control and control standing control s	2. MANPOWER The MART-Cobiler shall provide a last of citizens/apport posterval and system argent to be deputed at ECCL shall provide a last of citizens/apport posterval and system argent to be excluded and coordinating MARC, for ECCL apprical.  BCCL shall provide seem skilled 8 unskilled manpower for all each project site as per Table 4.	Mois - "Expected life means life before that overhead.	Ottor Electrical Increase	Boom & Sticks	-	Hydraulic Shoveh		Under contage  Higher to name to the contage of the	Pinne Moves (Unesol)	EQUIPMENT MAJOR ASSEMBLIES EXPÉCITE LIFE (IL POUT)	<b>(B)</b>	(ns) The MARIC Hober, shall concert structural inspections of tritical joints to be decided jointly at every SXXX bits by Non-Obstitutivin Test. Record and Report of detects of the structural components of the long-structural products to the state of the structural components of the long-structural products and structural products and that is the state of components and report. The frequency of such important and that is the state of components of the land of the state of the state of the land of the state	portion The MACC Holder shall also prepare a yearly programme to carry out the manuscases per OEM recommendations for the tendence descriptions done year for the entire feature of this Commet and shall submit the same is OEC. Recopposed.  In The MACC thirder shall also provide the extracted on a more life the OEC. All previous of the tendence of the comment of the other other of the other other other of the other other other of the other other of the other	(a) The bidder should breath a complete let of spares & conjuurablest required for the substant maintenance during the warranty period. The purchaser will procure the same us initial ask which are the exception and the exception of the same us initial ask which are the exception of the same of the same of quantity), in purchaser of the states & consumptions procured based on the let furnished by the bidder-well be interested by the bidder-well be interested by the bidder-well be interested by the bidder-well ask of the purchaser at many (prior) and the states & consumables, it also which yell prioritished by the bidder well ask for the purphase the purchaser at many (prior) address growing the event, in the same that for exception in the bidder well ask to descend from the first monthly purchased to the bidder well ask to be descend from the first monthly purchased to the bidder well ask to be descend from the first monthly purchased to the bidder well ask to be descend from the first monthly purchased to the bidder well ask to be descended ask of the bidder well ask to be descended ask of the bidder well ask to be descended ask of the bidder well ask to be descended ask of the bidder well ask to be descended ask of the bidder well ask to be descended ask of the bidder well ask of the bidd	(V) Coarse & consumables for MARC period shall be under the custody and comind of MARC holder and will be stated by findir appreciative as and when resolute.  (V) The MARC Holder shall be responsible for all their properties and BCCL, will not be supportable for any find is preferring est.  (v) The MARC Holder shall be responsible for all their properties and BCCL, will not include a year and it will be responsiblely of the MARC Holder to learn the maintenance years. At while the responsibility of the MARC Holder to learn the maintenance area stend from all or which holder.  If a maintenance area stend from all or other properties for expensions in easy to use conditions at log state the responsibility of MARC holder. If a Replacement with final assembles and supportable from the date of commissioning particular for the final state of the analysis of the final state of the analysis of the final state of the state o
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	and the second	AGREED	AGREED	AGREED	AGREED	AGREED
Nuded and agreed	Noted and agreed	Noted and agreed	Roles and agreed			A STATE OF THE PARTY OF THE PAR							Noted and agreed	Need and agreed	Noted and agreed	Noted and agreed	POSEZ ANIO AGRECE
													1.				

ý.



9 (1) (1) (1) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	V-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Table-4 Responses  Shows Series indicated invalid	It. Whose appropriate, providing and maintaining such conditions as:  Bouch proportion  Flourophic bull code with Deat suppression interpreted.  In Providing MACE reduce a subvisited expressions access as all measurable gives in the payables support and require flouristic subvision.  In Providing MACE reduce a subvisited expressions access as all measurable gives in the payables support in passions.  If Providing Operate some stated and unpublished supported in management as the payable obscipator [footdoing matrices stop & enclosing M. Providing operations stated and unpublished supported in management at the cities.  In approximation of the control of the provided supported in the cities and the cities are controlled and unpublished supported in the cities are controlled and unpublished supported in the cities and cities are controlled and cities are cities and cities are controlled and cities are cities and cities are cities are cities and cities are cities and cities are cities are cities and cities are cities are cities are cities are cities and cities are cities and cities are cities ar	d.2 Other facilities:  It operques will assist the MARC Holder, editional pulsage the MARC Holder of any other coloquisms ander the contract to achieve the parameter for horseling by the parameters of the param	4. FACILITIES TO BE PROVIDED BY ROCK TO MARY, HOLDER! 41 Electricity & fuel BCCC, shall provide electricity up to the field Sentrators' & face at the displaneiny and as inquired for exempting the exportment.	3.1 Limitations of Casamined Assistability  (MAC belows that incurs the parameted makehit of the experiment However, non-assistability of any of the experiments due to the Solowing passages.  (MAC belows that incurs the parameted makehit of the experiment However, non-assistability of any of the experiments due to the Solowing passages.  1. The Committee of the Solowing at such damages shall be provided by SCOL.  Assistance required for correcting at such damages shall be provided by SCOL.  As Damage due to accessor or otherwise at its established that first amange has occurred due to experiment.  2. Lack of inconsistancy of the Assistance of the Solowing of the	The AARC House in consultation with BCCL will probe it in space plan and strange the aparest and BCCL and provide the interprover as indicated in Table 4, which will be decided jointly paid other locality fing game to carryout the requir. The AARC Holds will inform in writing the requirement of cores, if any, at least 12 house in obtained, to planted makement & main for the recipitated breakform & requirement of cores, if any, inflined their paid of ECCL will provide it all the entire to be the provide coares within the house, they inflined the recovery displayed in the AARC Holds	3.4 Unscheduled Maintenance.  If it any time the operator colored any operatorial problem on the equipment, the same shall be expected to the MATC Holder's representative at the and BCCL shall be operated by the operator colored and operatorial problem on the equipment, the same shall be treated as Downtime Hours Engineer shall be treated as Downtime Hours Engineer shall be treated as Downtime Hours Engineer shall be reproduced by the AMCL Holder's American the consistent set has been properly required. Amonging space and tools shall be reproduced by the AMCL Holder's Bloom's first be opposed must the reproduced by the AMCL Holder's Bloom's first be opposed must the colors and BCCL shall notice the properly required to the AMCL Holder's Bloom's first be opposed must the color and BCCL shall notice the properly required to the AMCL Holder's the entire returneer curring the coupling to a shall require and the AMCL Holder's shall afficient afficiency of the entire returneer and shall proceed for the AMCL Holder's shall afficient afficiency to result, the detect.	33 Method of Assessment Refer Cause C 7.2.1 of part C of special repartments.	D.2. Deemed Breakdown  When the support is create to supply the replacement of a tailed perjoding the contract protest, and it be; must be it commissioned by sang the seasons from the support of the project, the protest after, 22 days if the upplier professor, the part shall be trained as deemed president (the create for kepture) machine partials as the other partials are supplied. The purpose is presented to the provide of the supplier of the presented of the provide of the supplier of the presented of the provide of the supplier of the presented of the supplier of t
AGREED AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
Noted and agreed Noted and agreed	Noted and agreed	Noted and agreed	Noted and agreed	Noted and agreed	Hated and Agreed	Noted and agreed	Noted and agreed	Noted and agreed	Noted and agreed	Noted and agreed

The first

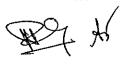
L3 Saley & First Aid The MASC Holder shall comply with the statistory requirement in inspect in sales) and list that requirements as por the relevant strouge and shall in particulars  (i) ensures that their presents the properly experience with Passeral Protective Explorers and Protective Devices and size well was strongly in the statisty measures expected in the mainly opposition.  (ii) ensure that their presents the follow is a size working protectes at all inner in the course of performance of their dates in description (ARC Holder's responsibilities under the Contrict.  (iii) ensure that Contrict.  (iii) ensure th	Dangerous occurrences & Accident.  Dangerous occurrences & Accident.  Dangerous occurrences & Cardenty with the equatory rest price (risk) (lives Accident law for my stress being in force and responsible Marce Meagars. Installed House Laid Comply with the equatory occurrence on any accident a varieties in produce, which may be present any form to person of machinery for the first potential to servicely affect the verying of the equatory for the men or machinery or has the potential to servicely affect the verying of the equatory for the men or machinery or has the potential to servicely affect the verying of the equatory for the MARCE Holder shall design the produce accordance to the first Marce Accidence (risk my first programme) and the produce of the MARCE Holder to any the service of th	6.2 Statutory Requirement  The MARC Holder, while performing of the coloquion under the Committ, and principly with the requirements of all the purplements from multi-requirement of all the purplements of all the purplements of the product and product and product and product and an application and increase reconstruction for the purplement of the purplement and points and increase reconstruction.  The MARC Holder state on the first free the their points of the product of the purplement of the	If modification is required in the equipment to comply with the provisions of any Law, which come into long with the portional content of the content them is the modification shall be taken up by the 1447C Holder at BCC contract lengths below for each bit shall be taken up by the 1447C Holder at BCC contract lengths below for each bit shall be taken up by the 1447C Holder at BCC contract lengths below for each bit shall be taken up by the 1447C Holder at BCC contract lengths below for each bit shall be required.	G. MODIFICATIONS, STATUTORY REQUIREMENT, SAFETY & FIRST AID  5.1 Modification and Up gradulor.  The MARC Holes said solving BCC of any modifications of op-productor of the experted for increasing solely and reduciny, improved productors performance and the efficiency.  DECC, excess to experiment such modifications on up-productors of experted in recent passes basely, it will be varied only the MARC Holes at the cost of BCC, excess to experiment, on up-productors of experted in such passes to expert and it work to the passes to expert and it is not to explain the sequence of the cost of BCC, and the form to excess to upgrade or modify the experiment, the MARC Holes may carry out the up-graduation at its own cost of I MARC, Holes on its own invalue values to upgrade or modify the experiment, the MARC Holes may carry out the up-graduation at its own cost of I MARC, Holes on its own invalue values to upgrade or modify the experiment, the MARC Holes may carry out the up-graduation at desiration forms.  BCCL's prior consent BCCL: that for why hold such consent unreasonably but the fine experiment prograde or model.	The MARC Holder personnel and other representatives that tolow the CODE OF CONDUCT as per manufacture it recommendation only visited by BCCS.  The MARC Holder wall indemnity the purchaser against any claim for compensation made by any personnel of the MARC holder due to secretary, injury, destri- edge.	D. PERSONAIEL OF MARC-HOLDER  Within Asset (7) days of the commonicating for the APC Holder shall assent by BCCL in writing Within Asset (7) days of the commonicating for the APC Holder at BCCL mine Size.  The Personal was stated by Perjoid in-Charge for MAPC Holder at BCCL mine Size.  The MARC Holder's project in-Charge at all principles are assented shall have reviewed qualification and experience in their respective least to porturn their duties to stategage the AMPC Holder for Economic.  The summer of personnel and their categories to be deployed by the AMPC Holder for categories (or experience duties categories) as to deployed by the AMPC Holder for categories (or experience duties categories) and determined the forecast of the categories of the satisfy responsible for the satisfy and discipline of its personnel as required confidence of the categories of the Categories of the Categories of the categories (and adverse to the their, regulations and for any of the AMPC holder shall be reproposable for antherence to reflect their, regulations and committee of the proposable for adverse categories that authory laves like Provider Flank, therefore, and the responsible for antherence to reflect of orders on the part of the previous.  The AMPC holder will be repoporable for antherence to reflect on the first of the part of the greature.	V. Mannalmag a logbook for each and, whereit the working hours, preactional fines (under MARC Hoters and BCCL's heads expansion), maintenance from the fours, this imm, dentite of that is the featured stand for expand. The incoming the preaction or manimation and signature of the LAPC Hoters (representations on each plant).  VI. Accommodation and Size Office.  BDCL shall provide a shallow accommodation in the MARC Hoter pressured at pier prevailing BCCL rules. The MARC Hoter shall pay the prevailing BCCL rules from the provide and the accommodation in the personned at the for its fulfill provide at the temperature of the prevailing BCCL rules.  BCL shall provide a shallow accommodation as pure the prevailing BCCL rules.  IVI. Marchal assumes as available with the previous rule of payment basis as pre BCCL rules.  VII. Compart Security assumptions, as available for asserts of BCCL, shall also to accommodation the MARC hotely.  VII. Compart Security assumptions, as available for asserts of BCCL, shall also to accommodation the MARC hotely.	Note: Semi-salled manyoner massa. Flair, Electricins, Machinet, Welder Urusilled manyoner masss. Helper and General Mandoos.	The second secon	
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	АСНЕЕО	AGREED	AGREED	AGREED	AGREED
Noted and agreed	Hoted and agreed	Noted and agreed	Noted and agreed	Kiled and agreed	Noted and agreed	Power and Approve	Noted and agreed	Noted and agreed	Noted and agreed	Noted and agreed

è f



10.2 in the event that the epigment last to achieve the Guazanteed availability haven provided calculated over each 12 monetar, except by from 3.5; for the pathod MAC period of years, the MAC Holder and be fisable to gay to the purioses; as compensation appreciate activating parameter as an expensation to a soft created as the term of the puriose of the purioses in each year.  a. 0.5% of the test actual annual MAC charges (for the year in which guiranteed availability has not been achieved for reduction in every personaling or part the first 5%.  b. 5% of the test actual annual MAC charges (for the year in which guiranteed availability has not been achieved for reduction beyond 5% from the guaranteed availability.	to. COMPENSATION FOR NOT ACHIEVENG CHARANTEED AVAILABILITY For Equipment (during warranty period). For Equipment (during warranty period). For Equipment (during warranty period) compensation will be as per clause? 12.3 (1) of Part C. Technical Specification For MARC.  10.1 In the event has the Equipment like to achieve the Cours invest (validability region provided packated one such 32-month period, everyful in later 15.  10.1 In the event has the Equipment like to achieve the later to pay to the formation in compensation apparent on inches the grapheness of the course of the course of the course of the expense of the course of the course of the expense of the course of the course of the expense of the expense of the course of the course of the expense of the expense of the course of the course of the expense of the expense of the course of the expense of the expe	9.2 Taxes & Dulies 9.2 Taxes & Dulies 19.2 A Comestic Supplies shall be entirely responsible by all bases, during, formers, seen, act., incurrent until the execution of the contract, other than those which are to be paid by purchases, as expected in chains 21pl Sec-III / III.	8.1 Hourly Rate of Changes  1. Hourly Rate of Ch	9, PRICE BASIS FOR MARCISOO HRS ANNUAC INTERVALL)	BLOINT SURVEY OF EQUIPMENT NEAR THE END OF MARC  WASC holds shall endow seen out mest in good inleng quantion is BCC. After completion of MARC is utilize the same for the balance life wherever applicable. A joint survey report of the particulars all all bo conducted as (6) months before explay of the content which the MARC holds shall replace the colleged assembles and new year and complaint to assembles assembles assembles assembles assembles assembles assembles are not the content to the content of the content of the particular shall be particularly joint survey report is not since of all references to principles assembles assembles are content reported by the MARC holds as of particular assembles are shall be particularly to the MARC holds as an indignite or particular as per Annexion II.	w Monthly records of hoursy Mameries have report of the seach equipment.  V Manneaunce freque, service forecast plan of seath equipment.  v Membranes freque, service forecast plan of seath equipment.  vi Records of decede donumpling in plat by length as plan interpret as in Second consumption is checked.  BCCL and MARC Holder shall review the performance of despirence in meetings to be need as repulse freezests, as may be obtained unusally. For controvers  MIN Management Reports.  DCCL and the MARC Holder shall managely formulate a system to collect, and generate daily and experience of the desired freezests resource.  DCCL and the MARC Holder shall managely formulate a system to collect, and generate daily with respect to availability of exquipment. Devicing Network Reports  DCCL and the MARC Holder shall managely formulate a system to collect, and generate daily with respect to availability of exquipment of the desired consumption, space guide space, and manifestation of the seasonable frequency for the control of the Control. These records shall be maintained starting the term of this Control. MARC budger shall sudmit a monthly (opport in the formulate or infractions).	In SDCI, opposition and the AMCC feeder impressedance shall need carbitic certific the characteristic feeding the provision stop. The agreed content have a solid by regarded and provision of the completes operated and provision of the provision of the completes operated and provision of the content in the content of the	A MANTEMANCE OF RECORDS.  The blowing depot a set is be generated by the MARC-hooker of jointy with the purchases eleterated level under and are exquited to be submitted to DAMCE (Exc.) of the each project of BCC.  County of the propose recognity of the purchase of project in the purchases and MARC Hooker, as the case may be with County of a county of purchases and MARC Hooker, as the case may be with County of the project into
AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED
Noted and agreed	Nied and agreed	Noted and agreed	Noted and parted	Nedetl and agreed	Noted and agreed	Noted and agreed	Neted and agreed	Need and agreed
I	L	<b></b>	<u> </u>					

()



Address of MARC-Holder:  All notices to BCCL shall be given at the releasing address:  GENERAL MANAGER (MA) BHANAT COVING COALL'TO, COMMERCAL BOOK LEFELH COVILA BHANAHAOYLA NIGARI DHANGARIDASSOS	11.5 Notices appected in this Connect all notices stall be given in writing in the personal and partners in the between their person or duch under notices and use the partners in the personal and personal perso	THA TAMBIANA ACCURESTIVES ITS PICHT TO SHORT CLOSE THE MANTEMANCE AND REPAIR CONTRACT MARCHAT MAYSTAGE DURING THE PELICIPATY OF THE CONTRACT IN CASE MARC HOLDER FAILS TO MEET ITS CRUGATIONS TOWNRDS THE CONTRACT, AFTER LEWING SHITABLE FEMALTY AS DEEMED FIT.	11.3 Ed Chaire Day to py concentrative description of the operation of the MAC story of the MAC proof of Typest Description Constitution of the MAC proof of Typest Description Constitution of the Operation	11.2 RESOLUTION OF DISPUTES The purchase and the MARC Holes, shall make every affort to resolve amicroble by direct informat regulations any dispute average between them in connection with the contract, Unresolved dequires it any asking out of contract, instaction for the same shall be Disputed Coord-Residuad High Courf et nota.	11. OTHER TERMS & CONDITIONS OF MARC  11.1 Indemnification  11.1 Indemnification  11.1 Indemnification  The MATC Holder wall indemnity BCCL deprecal all damage and leases incurred in the sequential relating all expresses by BCCL than to ten disservation of estuding processors, not colorating programs and described programs are colorating programs. The MATC Holder of the appropriate arrivable are little representation to the programs of the MATC Holder of the MATC Holder of the programs or believe either programs or the programs or the programs of the MATC Holder and in the programs of the MATC Holder and in the Conditions.  Similarly BCCL can be expressed to compressed or color made by the MATC Holder against any such damage can be compressed or color made by the MATC Holder against any such damage or compressed or color made by the MATC Holder against any such damage or color made by the MATC Holder against any such damage or programs or the programs or color made by the ATC Holder and a such damage or the programs or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs or the programs of the MATC Holder and a such damage or the programs or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage or the programs of the MATC Holder and a such damage of the MATC Holder and a such damage of the MATC Holder and a such damage of the MATC Holder and a such da such damage of the MATC Holder and a such damage of the MATC Hol
AGREED	AGREED	Адпеер	AGREED	AGREED	AGREED
	Noted and agreed Noted and agreed	Noted and agreed	Naked and agreed	Need and agreed	

July M

### L&T CONSTRUCTION EQUIPMENT LIMITED

3B; Shal especie: Sarani, Eollata: 700 071.P.O.Box(619 © PHOSE : 44002470@ FAX : 0.33 | 22821025 7587

Ref: CEB/DHN/NIT02/OFFLINE/02

1592

Date, 05.06.2013

05/6/

The General Manager (MM)
Bharat Coking Coal Limited
Koyla Bhawan, Dhanbad - 826005 (JH)

Dear Sir,

Ref:

Subject: Your NIT No: PUR/412128(12-13)/2.7-3.2 Cum HDBH, 3.2-3.8 Cum HDFS with

MARC/13-14/02 Dated 04.04.2013.

Your letter no. BCCL/PUR/412128(12-13)/2.7-3.2Cum HDBH,3.2-3.8Cum HDFS with

MARC/13-14/Clarifications/02/1147 dt. 04.06.2013

We are in receipt of your above letter and please find below the details,

#### for 2.7-3.2 backhoe shovels

1. Clause No. A.5: We agreed as per NIT. We will arrange for simulator training of your personnel at our factory or at convenient location.

- 2. Clause No. C.6.4: Estimated annual consumption for oil & lubricants and name and reference no of the Indian equivalent is given in Annexure l.
- 3. Clause No. C.10.1: We enclose the quality assurance plan of M/s L&T CONSTRUCTION EQUIPMENT LIMITED in Annexure II.
- 4. Clause No. C.10.2: We hereby enclose test data for major manufactured and bought out items in Annexure-III.
- 5. Clause No. 4.3.A: We provide below the details of filters and cooling provided on L&T300CK:
  - a. L&T300CK is equipped with two nos of hydraulic filters with anti-burst mechanism to take care of hydraulic oil filtering. Capacities of installed filters are 1090 LPM and 390 LPM. It is also provided with filter choke indicator in the operator's console.
  - b. L&T300CK is fitted with two nos hydraulic oil coolers having heat dissipation capacity of 50,000 Kcal/hr and assisted by two nos high speed fans driven by hydraulic motors at 3200 RPM. This will provide sufficient cooling in the ambient conditions described in NIT.
  - c. All the hoses in the machine are grouped as far as possible, and clipped together wherever feasible. Anti-scuffing material on hoses is also used at certain areas, where possibility of scuffing is high.
- 7. Clause No. 4.5: We agree as per NIT. The offered model will be provided with independent crawler drive with independent fail-safe braking system and hydraulically operated emergency and parking brakes.
- 8. Clause No.7.2.h: We enclose the commercial literature of L&T300CKD in Annexure IV.

3 23/7 (AZ : (91)8/9 1/36

Contd on page....2

BANGALORE WORKS : BELLARY ROAD , BY ATARYANAPURA, BANĞALORE 560 092, TEL:(94) 80-233 Regd. Off.: L&T House, Ballard Estate, P.O Box 278, Mumbai 200001

d/S

## L&T CONSTRUCTION EQUIPMENT LIMITED 13(S

31) Shak speare Sarant, Kolkuta-700 074 P.O Bosto 19 & PHOX1 × 44002470& FAX 033 - 22821025 7587

#### Reply for 3.2 – 3.8 front end shovels

- 1. Clause No. A.5: We agreed as per NIT. We will arrange for simulator training of your personnel at our factory or at convenient location.
- 2. Clause No. C.6.4: Estimated annual consumption for oil & lubricants and name and reference no of the Indian equivalent is given in Annexure I.
- 3. Clause No. C.10.1 : We enclose the quality assurance plan of M/s L&T CONSTRUCTION EQUIPMENT LIMITED in Annexure II.
- 4. Clause No. C.10.2: We hereby enclose test data for major manufactured and bought out items in Annexure-III.
- 5. Clause No. 4.1: We accept as per NIT. Please note that bottom dump bucket of capacity 3.2 CuM or 4.0 CuM as per your requirement, can be supplied along with the machine.
- 6. Clause No. 4.2: Please note that excavator pivot pins are provided with journal bearings (composite material bushes) instead of bearings. We provide adequate sealing to prevent grease leakage from various joints at pivot pins.
- 7. Clause No. 4.3.A: Please note down the details of filters and cooling provided on L&T300CK below:
  - a. L&T300CK is equipped with adequate nos of hydraulic filters with anti-burst mechanism to take care of hydraulic oil filtering. Capacities of installed filters are 1090 LPM and 390 LPM. It is also provided with filter choke indicator in the operator's console.
  - b. L&T300CK is fitted with two nos hydraulic oil coolers having heat dissipation capacity of 50,000 Kcal/hr and two nos high speed fans driven by hydraulic motors at 3200 RPM. This will provide sufficient cooling in the ambient conditions described in NIT.
  - c. All the hoses in the machine are grouped as far as possible, and clipped together wherever feasible. Anti-scuffing material on hoses are also used at certain areas, where possibility of scuffing is high.
- 8. Clause No. 4.5: We agree as per NIT. The offered model will be provided with independent crawler drive with independent fail-safe braking system and hydraulically operated emergency and parking brakes.
- 9. Clause No.7.2.h: We enclose the commercial literature of L&T300CKD in Annexure IV.

We hope you will be actively considering our offer, and look forward to receive your order at the earliest. Please feel free to contact us for any further clarification or discussion.

Thanking you,

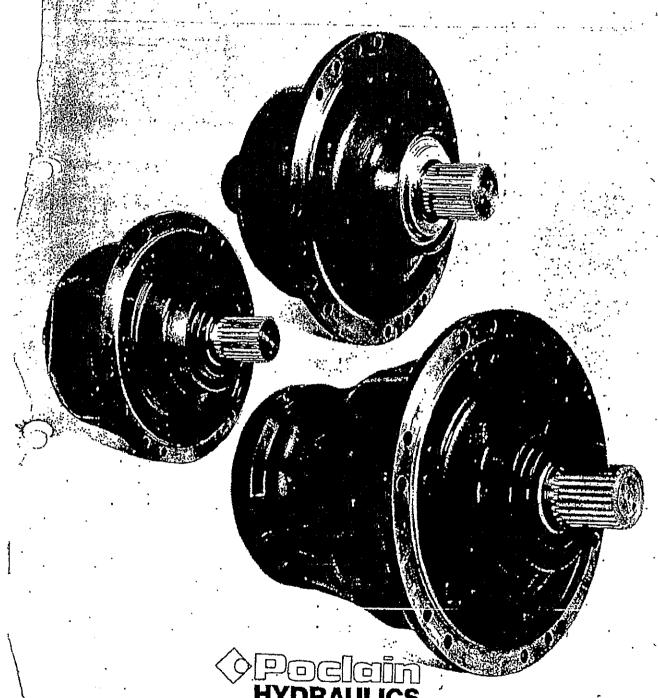
For by Forestruction Equipment Limited

(Authorised Signatory)

CC: General Manager (Excv)

#GANGALORE WORKS : BELLARY ROAD , BYATARYANAPURA, BANGALORE | 560 092, TEL:(91) 80-23333301, FAX : (91) 80-23636065 Regd. Off.: L&T House, Ballard Estate, P.O.Box 278, Mumbai 4000<u>0</u>1

# **LOW SPEED MOTORS** TECHNICAL SPECIFICATIONS







#### RANGE

	TYPE	Н	15	Н	20	मि	25	
<del> </del>			T	1	==			
DISPLACEM	ENT (cm ³ /t)	809	1130	1649	1979	2533	3122	
TORQUE (m.	daN) at 400 bar	515	719	1050	1258	1161	1986	
TORQUE (m.	RQUE (m.daN) at 100 bar		180	262	. 315	403	496	
MAX. POWER	kW	42	52	į 62	75	81	100	
•	НР	57	70	- 84	. 101	110	135	
MAX, SPEED	(rpm)	153	146	12	20	100		
MAX. LOAD (t	ons)	S	)	. 13	3,6	11	3 .	
WEIGHT	without brake (kg)	11	5 .	:20	o ^l	. 28	5	
	with brake (kg)·	15	·0 _,	, 25	o, '	345		
STATIC BRAKI	E torque (m.daN)	61	4		4	1473		

THEORETICAL TORQUE (Tm.daN): Tm.daN = 1,59 x Pressure (bar) x Displacement (litres)

THEORETICAL POWER (PkW / PHP): P(kw) = Pressure (bar) x flow (I/mn)

 $P(HP) = \frac{Pressure (bar) \times flow(l/mn)}{441.6}$ 

### GENERAL CONDITIONS OF USE

#### FLUID:

Our components are designed to be used with mineral fluids corresponding to the standard NFE 48-600 HV and HM catégories (equivalence; ISO 3448 - CETOP RP 75 H and R 39 H).

- Mobile applications, we recommend HV 46 or HV 68

 Fixed installations, we recommend HM 46 or HM 68

Minimum viscosity: 9 cst, Optimum viscosity: 20 cst a 50 cst, Maximum viscosity: 2,000 cst. FILTRATION:

Feeding with filtered oil at  $10 \mu$  (nominal).

AMBIENT TEMPERATURE: - 20° C + 50° C.

TEMPERATURE OF OIL.

To be measured in the drain line as near as possible to the motor housing.

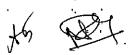
Working temperature : - 20° C + 80° C OPERATING PRESSURE:

Peak :450 bar Intermittent :350 bar

Performances are given with a fluid HV 46 — viscosity 30 cst at 50° C.

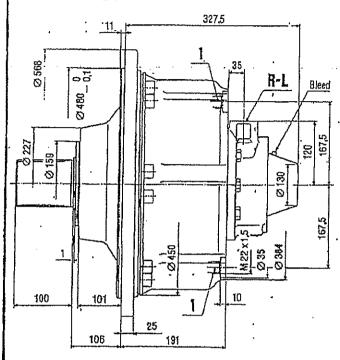
The brakes, of the oil-immersed multidisc type, are static brakes only (speed = 0). The braking torques correspond to our minimum guaranteed values.

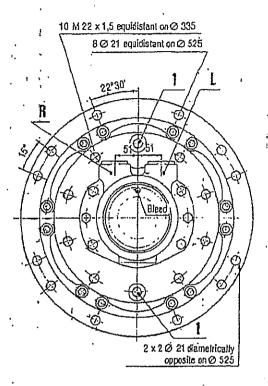




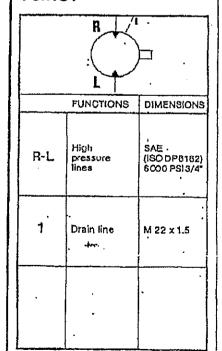
# H 20 MOTOR

#### DIMENSIONS:





#### PORTS:



WEIGHT - EMPTY: 200 kg

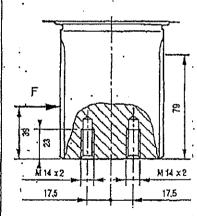
OIL CAPACITY:

10,5 litres:

DIMENSIONS:

Ø 568 x 533 5 mm

#### SHAFT:

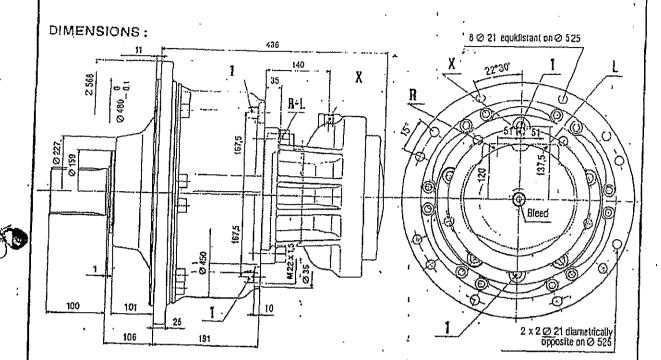


- splines: NFE 22.141 standard
- nominal Ø: 100 mm
- number of teeth: 38
- modulus : 2.5
- -:F maximum radial load: 13.6 tons

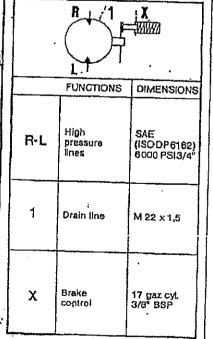




# H 20 MOTOR with brake



#### PORTS:



#### WEIGHT - EMPTY :

250 kg

#### OIL CAPACITY:

12,5 litres

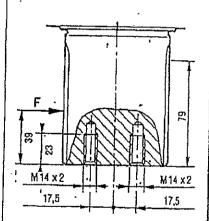
#### DIMENSIONS WITH BRAKE:

Ø 568 x 642 mm

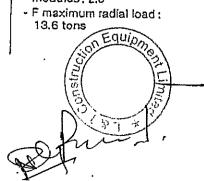
#### BRAKE SPECIFICATION:

- brake torque: 944 m.daN
- brake release pressure minimum/maximum : 30/50 bar
- brake release cylinder displacement: 60 cm3

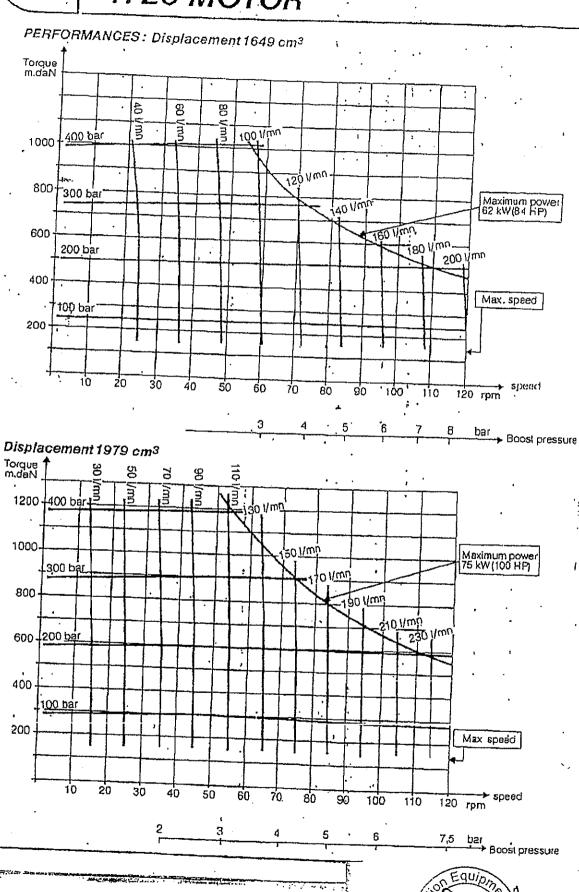
#### SHAFT:



- splines: NFE 22.141 standard
- nominal Ø: 100 mm
- number of teeth: 38
- modulus: 2,5



# H 20 MOTOR





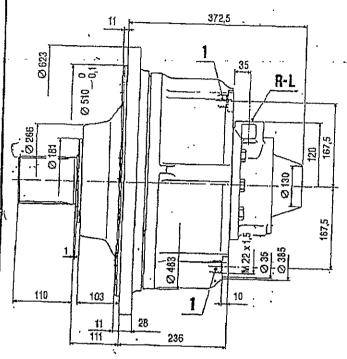


## ANNEW RE-A

(307

# H 25 MOTOR

DIMENSIONS:



10 M 22 x 1.5 equidistant on ⊘ 335

6 x 2 ⊘ 23 equidistant on ⊘ 570

16°

8°

18°

Bieed

PORTS:

•	R	· -
	FUNCTIONS	DIMENSIONS
R∙L	High pressure lines	SAE (ISO DP 6162) 6000 PSI3/4"
. 1	Drzin line	M 22 x 1,5
	•	

- Elife :

WEIGHT - EMPTY 285 kg

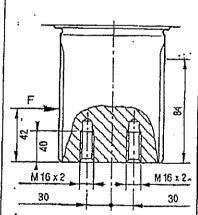
OIL CAPACITY:

16.4 litres

**DIMENSIONS:** 

Ø 623 x 593 mm

SHAFT:



- splines: NFE 22.141 standard

· nominal Ø: 120 mm

- number of teeth: 30

- modulus : 3.75

- F maximum radial load: 18 tons







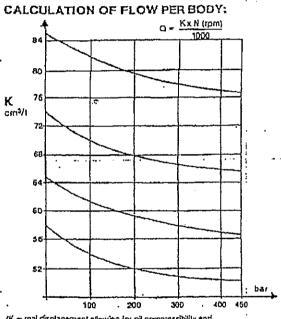
#### CHARACTERISTICS

	•		•					
Geometric displacem	ent Ev	58	64	65 ·	51	74	6x8	
(crn²//t ).		ANCE I WIEARNTIENT	ADZ ZCOUMITHOS	T INTERPRETENT IANCE	132 SUCUMETADO	INICE • INTENNITENI	CONTINUOUS 268	ANTERVALLI ÇILI VICE
Power (HP - kly)	5 10/449	851/626	6817500	954/701	274/568	1087/600	575/422	800/587 450
Pressure (bar)	350	450	350.	_450	. 350	450	350 6x 125	6x143
Theorical flow (I/mln)	6x128	6x139	5x143	6x156 ,	6x163	6x178	1500	1700
Spaed (mm)	2200	2400	2208	2400	2200	2400	1000	

Minimum speed of pump in continuous use (rpm): 100 On toad starting possible.

#### PERFORMANCES:

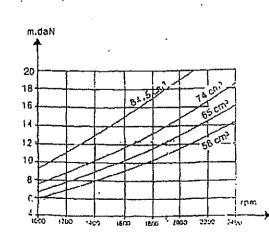
All performances are given for oil viscosity: 37 cST - 5* E - 173 SSU



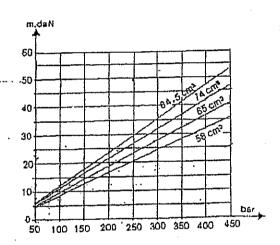
(K — real displacement allowing for oil compressibility and volumetric efficiency).

Performances given at 1 000 < N rpm < 2400

#### OFF LOAD TORQUE (OLT mdaN)



driving torque per body relative TO PRESSURE (DT mdaN)

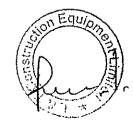


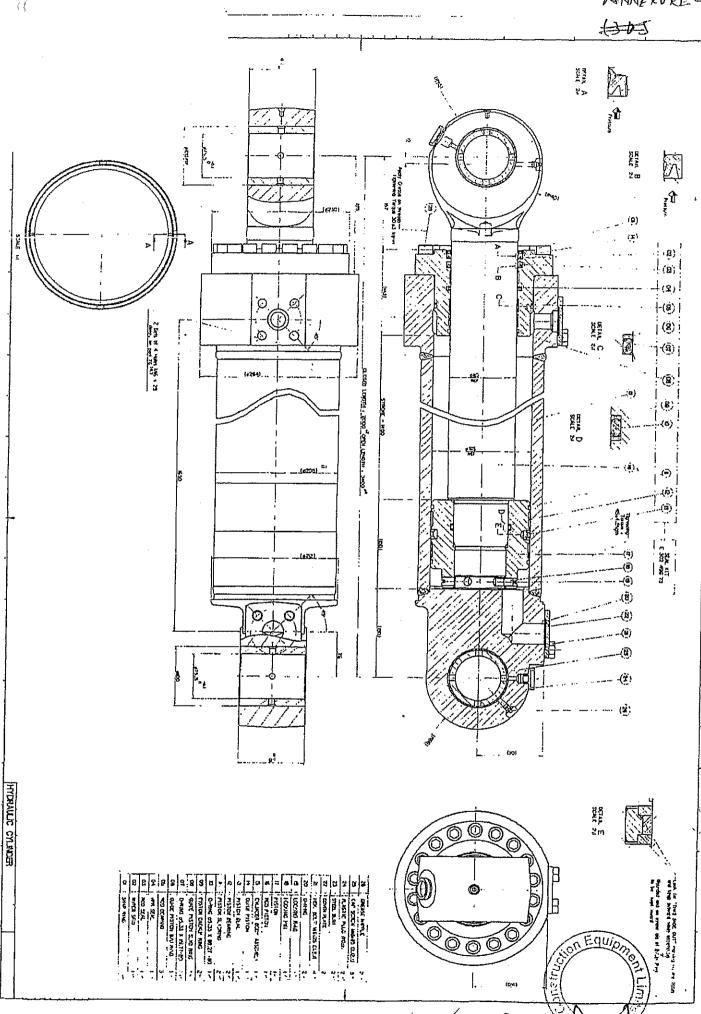
#### POWER REQUIRED BY PUMP

P. HP - [OLT + (DT x no. at pedies)] x N ipm

2. KW - [OLT + (OT = np. c/ bedies)] = N rpm 355

INERTIA: 1 = Mp2 - 0,105 m2/kg





v

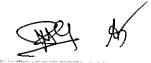
(41

Price Format for	List of	Spares required du	ring the warr	anty period	l of 12 ma	nthe from	the data of
Diesel I	owered	Hydraulic Excavat	tor with 2.7-3.	2 Cu.M. Ba	ck-Hoe B	ucket (NC	the date of
	SI. No.	Description	Part No.	Unit of Measure ment (UOM)	Qty. Quoted	UNIT BASIC PRICE (EX WORKS) (Rs)	TOTAL BASIC PRICE (EX WORKS) (Rs)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)*(6)
	1.00	Hydraulic Filter Element	V20350111	EA	10.00	9930.00	99300.00
	2.00	Hydraulic Filter Element	T20350509	EA	10.00	3285.00	32850.00
	3.00	Breather Element	W20050569	EA	20.00	165.00	3300.00
	4.00	Tooth point	K20204083	EA	54.00	3990.00	215460.00
	5.00	Locking Washer	B20134730	EA	54.00	125.00	6750.00
	6.00	Locking Pin	P20127382	EA	54.00	400.00	21600.00
	7.00	Tooth Adaptor	J20204082	EA	6.00	9525.00	57150.00
	8.00	KIT Fuel Filter	KIT3238493	EA	17.00	562.40	9560.80
	9.00	Element Lub Oil	KIT3238204	EA	17.00	391.81	6660.77
	10.00	KIT Super By Pass Filter	KIT3879488	EA	17.00	830.03	14110.51
	11.00	KIT Air Cleaner Element	KIT3238155	EA	7.00	5897.90	41285.30
TOTAL							50,8027.38
PACKING& FORWARDING CHARGE (Rs)							0.00
EXCISE DUTY (Rs)							Inclusive
SALES TAX / VAT							71123.83
FREIGHT CHARGES (Rs)							0.00
TRANSIT INSURANCE CHARGES (Rs)				14.		.,.	0.00
LANDED VALUE (Rs)							579151.21
Remarks	All pri- levies i	ces are inclusive of f applicable will be	f Excise Duty charged extr	but exclus a at the tin	sive of Sal ne of deliv	es Tax and ery. Order	other Govt to be placed



dr.

Price Format fo	r List of C	onsumable re	equired during	g the warr	anty perio	d of 12 months	s from the date
Diese	l Powere	d Hydraulic E	xcavator with	2.7-3.2 Ct	u.M. Back	-Hoe Bucket (N	ICD)
Name of the Firm & Address	,	Larsen & To	ubro Limited	, Dhansar	Dhanbad-	828 106, Jhark	hand
	SI. No.	Description	Part No.	Unit of Measure ment (UOM)	Qty. Quoted	UNIT BASIC PRICE (EX WORKS) (Rs)	TOTAL BASIC PRICE (EX WORKS) (Rs)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)*(6)
	1.00	Belt V Ribbed	3098367.00	EA	2.00	6739.07	13478.14
	2.00	Beit V	178655.00	EA	2.00	2385.74	4771.48
	3.00	Tensioner Belt	3095684.00	EA	1.00	17349.52	17349.52
	4.00	Belt V Ribbed	217638.00	EA	2.00	2628.58	5257.16
TOTAL							40856.30
PACKING& FORWARDING CHARGE (Rs)							0.00
EXCISE DUTY (Rs)							Inclusive
SALES TAX / VAT (Rs)					,		5719.88
FREIGHT CHARGES (Rs)							0.00
TRANSIT INSURANCE CHARGES (Rs)							0.00 📞
LANDED VALUE (Rs)					V. P.		46576.18
Remarks	All prid	ces are inclus f applicable w	ive of Excise ill be charged	Duty but e	exclusive the time of	of Sales Tax ar	nd other Govt er to be placed



Price Format for List of Spares required during the warranty period of 12 months from the date Diesel Powered Hydraulic (F/S) Excavator with 3.2-3.8 Cu.M.(NCD) UNIT Unit of BASIC **TOTAL** SI. Measure PRICE **BASIC PRICE** Qty. Description Part No. No. Quoted ment (EX (EX WORKS) (UOM) WORKS) (Rs) (Rs) (1) (2) (3)(4) (5) (6)(7)=(5)*(6)Hydraulic 1.00 **Filter** V20350111 EA 10.00 9930.00 99300.00 Element Hydraulic 2.00 Filter T20350509 EA 10.00 3285.00 32850.00 Element Breather W20050569 3.00 EA 20.00 165.00 3300.00 Element 4.00 Tooth point K20204083 EA 54.00 3990.00 215460.00 Locking 5.00 B20134730 EA 54.00 125.00 6750.00 Washer Locking 6.00 P20127382 EA 54.00 400.00 21600.00 Pin Tooth 7.00 EA J20204082 6.00 9525.00 57150.00 Adaptor KIT Fuel 8.00 KIT3238493 EA 17.00 562.40 9560.80 Filter Element 9.00 KIT3238204 EΑ 17.00 391.81 6660.77 Lub Oil KIT Super 10.00 By Pass EA KIT3879488 17.00 830.03 14110.51 Filter KIT Air 11.00 Cleaner KIT3238155 EA 7.00 5897.90 41285.30 Element TOTAL : 508027.38 PACKING& FORWARDING 0.00 CHARGE (Rs) EXCISE DUTY Inclusive (Rs) SALES TAX / 71123.83 VAT (Rs) FREIGHT 0.00 CHARGES (Rs) TRANSIT INSURANCE 0.00 CHARGES (Rs) LANDED VALUE 579151.21 (Rs) All prices are inclusive of Excise Duty but exclusive of Sales Tax and other Remarks Govt levies if applicable will be charged extra at the time of delivery. Order to

JULY M

Price Format for		wered Hydrau					
Name of the Firm & Address		Larsen & Toub	ro Limited, Dh	ansar Dha	ınbad-828	106, Jharkha	ınd
	SI. No.	Description	Part No.	Unit of Measure ment (UOM)	Qty. Quoted	UNIT BASIC PRICE (EX WORKS) (Rs)	TOTAL BASIC PRICE ( (EX WORKS) (Rs)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)*(6)
	1.00	Belt V Ribbed	3098367.00	EA	2.00	6739.07	13478.14
	2.00	Belt V	178655.00	EA	2.00	2385.74	4771.48
	3.00	Tensioner Belt	3095684.00	EA	1.00	17349.52	17349.52
	4.00	Belt V Ribbed	217638.00	EA	2.00	2628.58	5257.16
TOTAL							40856.30
PACKING& FORWARDING CHARGE (Rs)							0.00
EXCISE DUTY (Rs)						and the second s	Inclusive
SALES TAX / VAT (Rs)							5719.88
FREIGHT CHARGES (Rs)							0.00
TRANSIT INSURANCE CHARGES (Rs)							0.00
LANDED VALUE (Rs)							46576.18
Remarks							





# **45**

# Format of Bank Guarantee for Security Deposit: (RS.250 non-judicial stamp paper)

Messers, a Company having its office	
(hereinafter called the Contractor) has entered into a Contract No.	
( hereinafter called the said Contract ) with Bha	ırat
Coking Coal Limited (hereinafter called BCCL, Buyer) to supply equipment on the terms and condition contained in the said contract.	ons
1. It has been agreed that hundred percent ( 100% ) payment of the value of the equipment will be made to	
Contractor in terms of the said contract on the Contractor furnishing to the purchaser a Bank Guarantee for the	
sum of equivalent to 10% of the value of order by the Contractor, as security for	
due and faithful performance of the terms of the said contract and against any loss or damage caused to or wor	
be caused to or suffered by Purchaser by reason of any breach by the said Seller of any of the terms a	ınd
conditions contained in the said contract.	
Thehaving its office athas at the request	of
Seller agreed to give the guarantee hereinafter contained.	
2. We,Bank Ltd. do hereby undertake to pay the amounts due and paya	
under this guarantee without any demur, merely on a demand from the Purchaser stating that the amount of the control of the co	
claimed is due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reas	
of any breach by the said Seller or any of the terms and conditions contained in the said Contract or by reason	
the Seller's failure to perform the said contract. Any such demand made on the bank shall be conclusive	
regards the amount due and payable by the Bank under this Guarantee. We shall not withhold the payment the ground that the Seller has disputed its liability to pay or has disputed the quantum of the amount or that a	
arbitration proceeding or legal proceeding is pending between purchaser and the Seller regarding the claim	
However, our liability under this guarantee shall be restricted to an amount not exceeding	1111,
3. We,, further agree that the guarantee herein contained shall co	me
into force from the date hereof and shall remain in full force and effect during the period that would be taken	for
the performance of the said contract and that it shall continue to be enforceable till all the dues of the Purcha	
under or by virtue of the said contract have been fully paid and its claims satisfied or purchaser certifies that	
terms and conditions of the said contract have been fully and properly carried out by the said Seller	
accordingly discharge the guarantee.	
Unless a demand or claim under this guarantee is made on us in writing on or before the	
(date to be given), we shall be discharged from all liability under this guarantee thereafter.	
4. We ,Bank Ltd., further agree with the Purchaser, that	the
Purchaser, shall have the fullest liberty without our consent and without effecting in any manner our obligation	ons
hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by	
said seller (s) from time to time or to postpone for any time or from time to time any of the powers exercisa	
by the Purchaser, against the said Seller and to forbear or enforce any of the terms and conditions relating to	
said contract and we shall not be relieved from our liability by reason or any such variation or extension be	
granted to the said Seller or for any forbearance act or omission on the part of the Purchaser, or any indulge	
by the Purchaser, to the said Seller or by any such matter or thing whatsoever which under the law relating	g to
sureties would but for this provision have effect of so relieving us.	.1
The Bank further agrees that in case this guarantee is required for a longer period and it is not extended by	
Bank beyond the period specified above, the Bank shall pay to the Purchaser the said sum of	
(specify the amount) or such lesser sum as may then be due to the Purchaser and as the Purchaser	aser
may demand.  5. We,Bank Ltd., further agree to renew the Bank Guarantee fi	
time to time at the request of the BCCL.	TOIL
6. We,Bank Ltd., lastly undertake not to revoke this guarantee dur	rina
its currency except with the previous consent of the Purchaser, in writing.	ımg
7 The Bank has under its constitution power to give this guarantee and	
7. This Bank Guarantee will not be discharged due to the change in the constitution of the Bank or	the
Contractor.	
Dated :	
for	
Signature of the authorised per	rson

A K

for and on behalf of the Bank.

Ų

# 46

# <u>Format of Performance Bank Guarantee</u> (RS.250 non-judicial stamp paper)

63

viessels, a Company naving its office
(hereinafter called the Contractor) has entered into a Contract No
(hereinafter called the said Contract) with Bharat Coking Coal Limited (hereinafter called BCCL, Buyer) to supply equipment on the terms and conditions
contained in the said contract.
. It has been agreed that hundred percent (100%) payment of the value of the equipment will be made to the Contractor in terms of the said contract on the Contractor furnishing to the purchaser a Bank Guarantee for the
um of equivalent to 10% of the value of order by the Contractor, as security for the lue and faithful performance of the terms of the said contract and against any loss or damage caused to or would
be caused to or suffered by Purchaser by reason of any breach by the said Seller of any of the terms and conditions contained in the said contract.
Thehas at the request of
Seller agreed to give the guarantee hereinafter contained.  2. We,Bank Ltd. do hereby undertake to pay the amounts due and payable
under this guarantee without any demur, merely on a demand from the Purchaser stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of any breach by the said Seller or any of the terms and conditions contained in the said Contract or by reason of the Seller's failure to perform the said contract. Any such demand made on the bank shall be conclusive as
regards the amount due and payable by the Bank under this Guarantee. We shall not withhold the payment on
he ground that the Seller 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 purchaser and the Seller regarding the claim.  However, our liability under this guarantee shall be restricted to an amount not exceeding
3. We,, further agree that the guarantee herein contained shall come
nto force from the date hereof and shall remain in full force and effect during the period that would be taken for he performance of the said contract and that it shall continue to be enforceable till all the dues of the Purchaser
ander or by virtue of the said contract have been fully paid and its claims satisfied or purchaser certifies that the
erms and conditions of the said contract have been fully and properly carried out by the said Seller and
accordingly discharge the guarantee.  Unless a demand or claim under this guarantee is made on us in writing on or before the
(date to be given), we shall be discharged from all liability under this guarantee thereafter.
4. We ,Bank Ltd., further agree with the Purchaser, that the Purchaser, shall have the fullest liberty without our consent and without effecting in any manner our obligations nereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the said seller (s) from time to time or to postpone for any time or from time to time any of the powers exercisable
by the Purchaser, against the said Seller and to forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason or any such variation or extension being granted to the said Seller or for any forbearance act or omission on the part of the Purchaser, or any indulgence
by the Purchaser, to the said Seller or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.
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 Purchaser the said sum of
(specify the amount) or such lesser sum as may then be due to the Purchaser and as the Purchaser may demand.
5. We,
time to time at the request of the BCCL.  6. We,Bank Ltd., lastly undertake not to revoke this guarantee during
its currency except with the previous consent of the Purchaser, in writing.
7 The Bank has under its constitution power to give this guarantee and
7. This Bank Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
Dated :
Signature of the authorised person

for and on behalf of the Bank.



# 47

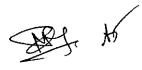
#### GENERAL TERMS & CONDITIONS OF SUPPLY OF STORES

#### Definition

ŲÁ.

- 1. In the interpretation of the contact and the general and special conditions governing it, unless the context otherwise requires :
- (i) "Contract" means the invitation to tender, instructions to tenderers, acceptance of tender, particulars and the general and special conditions specified in the acceptance of tender and includes a repeat order which has been accepted and acted upon by the contractor.
- (ii) The term "Supplier" shall mean the person, firm or company with whom the contract is placed and shall be deemed to include the supplier in successors(approved by the purchaser), representatives, heirs, executors, administrators and permitted assignees as the case may be.
- (iii) "Contract Price" shall mean the sum accepted or the sum calculated in accordance with the price and/or terms accepted by or on behalf of the purchaser.
- (iv) The Chairman, means the Chairman of Coal India Limited. The 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 and Central Mine Planning & Design Institute Limited, South Eastern Coalfields Limited, Northern Coalfields Limited, Mahanadi Coalfields Limited and North Eastern Coalfields.
- (v) The terms "Drawing" shall mean the drawing the plans specified in or annexed the schedule or specifications.
- (vi) The terms "Purchase Executive" shall mean the purchaser or purchaser named in the schedule to Tender, his or their successors or assignees.
- (vii) The term the "Inspector" shall mean any person nominated by or on behalf of the purchaser to inspect supplies, Stores or work under the contract or his duly authorized agent.
- (viii) The term "Progress Officer" shall mean any person nominated by or on behalf of the purchaser to visit supplier's works to ascertain the position of deliveries of stores purchased.
- (ix) The term "Materials" shall mean anything used in the manufacture or fabrication of the stores.
- (x) The term "Particulars" shall mean the following:
- (a) Specifications;
- (b) Drawing;
- (c) Sealed pattern denoting a pattern sealed and signed by the Inspector.
- (d) Certified or sealed sample denoting a copy of the sealed pattern or sample sealed by the purchaser for guidance of the Inspector.
- (e) 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.
- (f) Proprietary make denoting the product of an individual manufacturers.
- (g) Any other details governing the construction, manufacturer and/or supply as existing in the contract.
- (xi) "Stores" means the goods specified in the supply order or schedule which the contractor has agreed to supply under contract.
- (xii) The term "Test" shall mean such test or tests as are prescribed by the specification or considered necessary by the inspector or any agency acting under direction of the Inspector.
- (xiii) The term "Site" shall 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.
- (xiv) Works denoting the persons shall include any company or association or body of individuals whether incorporated or not.
- (xv) "Writing" shall include any manuscript, typewritten or printed statement under or over signature or seal as the case may be.
- (xvi) "Unit" and "Quality" means the unit and quantity specified in the schedule.
- (xvii) "Supply Order" or "Purchase Order" means an order for supply of stores and includes an order for performance.
- 2. The delivery of stores shall be deemed to take place on delivery of the stores in accordance with the terms of the contract after approval of stores by the inspector, to:
- (i) The consignee at his premises, or
- ii) where-so provided the interim consignee at his premises, or
- (iii) a carrier or other persons named in the contract an interim consignee for the purpose of transmission to the consignee.
- (iv) The consignee at the destination station in case of contracts stipulated for delivery stores at destination station.
- Words in the singular include the plural and vice-versa.
- 4. Words denoting the masculine gender shall be taken to include the feminine gender and work persons, shall include any company or association or body of individuals whether incorporated or not.
- 5. Terms and expressions not herein defined 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 and as amended in respect of all the Acts, as the case may be.
- 6. (a) Parties

The parties to the contract are the supplier and the purchaser named in the schedule or any other specifically mentioned in the contract.





(b) Address to which communication are to be sent

ė.

For all purposes of the contract, including arbitration there under, the address of the supplier mentioned in the tender shall be the address to which all communications addressed to the supplier shall be sent, unless the supplier has notified a change by a separate letter containing no other communication and sent by registered post acknowledgement due to the head of the office placing the supply order. The supplier shall be solely responsible for the consequence of an omission to notify a change of address in the manner aforesaid.

Any communication or notice on behalf of the purchaser in relation to the contract may be issued to the supplier by Purchase Executive and all such communications and notices may be served on the supplier either by registered post or under certificate of posting or by ordinary post or by hand delivery at the option of such executive.

- 7. (i) The price quoted shall be either FOR place or Railway Station of dispatch, FOR Destination, Delivery free to the consignee, FOB or CIF as specified in the invitation to tender. All offers from countries other than Purchaser's country shall quote on FOB and CIF basis.
- (ii) In all cases the prices quoted must be net per unit shown in the enquiry and must

include all packing and delivery where applicable. Refunds on account of returnable packages(if any) are to be separately specified. The price should show separately the Foreign Exchange Element and the Rupee Element for stores to be imported. Sales Tax shall be shown separately and whether it is State Sales Tax or Central Sales Tax. If no mention is made about Sales Tax, it will be assumed to be included in the price quoted.

The prices should be included of excise, or excise duty should be separately mentioned. In case where price is quoted inclusive of excise duty, the rate of quantum of the same should be separately indicated. In case of contracts providing for free delivery to the consignee octroi charges shall be included where leviable.

(iii) The price must be stated separately for each item on unit basis.

- (iv) When quotations are made for units other than those specified in the enquiry, the relationships should be stated.
- (v) The prices quoted must be firm and the offers made must remain open for at least four months from the date of submitting quotations unless otherwise specified.
- (vi) Tender must invariably be submitted along with illustrated literature giving complete and detailed specification, particulars etc. of the main unit and of the standard accessories to be supplied with the stores.
- (vii) The tenderers must clearly specify their recommended spare parts that will be supplied along with the main unit and item wise prices of the spare parts, also what are fast moving; medium moving; slow moving and insurance spares and the period up to which they are likely to last.
- (viii) Printed terms and conditions of the tendering firms shall not be considered as forming part of their tender. In case the terms and conditions of contract applicable to this invitation to tender are not acceptable to the tendering firms, they should clearly specify deviations there from in their tender.
- (ix) Typed quotations should be submitted. Those containing erasures and over-writings are liable to be rejected. Any corrections made in the tenders must be initiated by the tenderers, failing which their tenders will not be considered.
- (x) Insurance arrangement will be made as per instructions being issued from time to time by the Materials Management Division of Coal India Limited and/or its subsidiary companies.
- 8. (i) Samples of each item, if considered necessary, should be submitted simultaneously by the contractor for inspection by Inspector/Inspectors unless the articles under tender are of considerable bulk, in which case separate arrangement will be made for inspection of the articles offered while considering the quotations.
- (ii) All samples required for inspection or test shall be supplied by the successful Tenderers free of cost,
- (iii) All samples must be clearly labeled with the tenderer's name, this offer enquiry Number and the last date of opening of tender.
- 9. (a) Subletting and Assignment

The supplier shall not save with the previous consent in writing of the purchaser, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided nevertheless that any such consent shall not relieve the supplier from any obligation, duty or responsibility under the contract.

(b) Change in a Firm

- (i) Where the supplier is a partnership firm, a new partner shall not be introduced in the firm except with the previous consent in writing of the purchaser(which may be granted only as an exception) of a written undertaking by the new partner to perform the contract and accept all liabilities incurred by the firm under the contract prior to the date of such undertaking.
- (ii) On the death or retirement of any partner of the supplier firm before complete performance of the contract the purchaser may at his option cancel the contract in such case the supplier shall have no claim whatsoever to compensation against the purchaser.
- (iii) If the contract is not determined as provided in the sub-clause(ii) above notwithstanding the retirement of a partner from the firm, he shall continue to be liable under the contract for acts of the firm until a copy of the public notice given by him under Section 32 of the Partnership Act has been sent by him to the purchaser by registered post acknowledgement due.
- 10. (a) Consequence of Breach

Should the supplier or a partner in the supplier firm commit breach of either of the conditions (a) or (b)(i) of this sub-clause, it shall be lawful of the purchaser to cancel the contract and purchase or authorize the purchaser of the stores at the risk and cost of the supplier and in that event the provisions of clause 20 shall as far as applicable shall apply.

(b) The decision of Coal India Ltd. and/or its subsidiary companies as to any matter or

thing concerning or arising out of this sub-clause or any question whether the supplier or any partner of the supplier firm has committed a breach of any of the conditions in this sub-clause contained shall be final and binding on the supplier.

Use of raw materials secured with Government assistance.





- (a) Where any raw material for the execution of the contract is procured with the assistance of Coal India Limited and/or its subsidiary companies by purchase or under arrangement made or permit, licence, quota certificate or release order issued by or on behalf of or under authority or by any officer empowered in that behalf by law, or is issued from government stock and where advance payments are made to the supplier to enable him to purchase such raw materials for the execution of the contract, the supplier,
- (i) shall hold such material as trustee of Coal India Limited and/or its subsidiary companies,
- (ii) shall use such material economically and solely for the purpose of the contract.
- (iii) shall not dispose of the same without the previous permission in writing of the purchaser; and
- (iv)shall tender due account of such material and return to the purchaser at such
- place as the purchaser may direct all surplus or unserviceable material that my be left after the completion of the contract or its termination for any reason whatsoever. On returning such material, the supplier shall be entitled to such price thereof as the purchaser may fix having regarding the condition of such material.
- (b) Where the contract is terminated due to any default on the part of the supplier, the supplier shall pay all transport charges incurred for returning any material upto such destination as may be determined by Coal India Limited and/or its subsidiary companies whose decision shall be final.
- (c) If the supplier commits breach of any of the conditions in this clause specified, he shall, without prejudice to any other liability, penal or otherwise, be liable to account to Coal India Limited and/or its subsidiary companies all moneys, advantages of profits accruing from or which in the usual course would have accrued to him by reasons of such breach.
- (d) Where the stores manufactured or fabricated by the supplier out of the materials arranged or procured by or on behalf of Coal India Limited and/or its subsidiary companies are rejected the supplier shall, without prejudice to any other right or remedy of the Government, pay to the government on demand the cost price or market value of all such materials whichever is greater.
- 12. The tenderers in case of imported items, shall clearly mention in the quotation that in the event of the supply order being placed with them, they shall arrange for supply within a reasonable period of all necessary maintenance tools and spares parts that may be required from time to time during the normal life of the machines, on a continuous basis and at a price not in excess of the landed cost at their premises plus a stated percentage differential (such a differential should be indicated) and proper servicing of the main unit supplied by them as and when required. In case there is a Rate Contract with the DGS&D supply be made at the RC rates.
- 13. The tenderers shall give a warranty of satisfactory performance of the unit offered by them for a period of 12 months from the date of commissioning or 18 months from the date of receipt and acceptance by Coal India Limited and/or its Subsidiary Companies. The supplier shall be responsible for any defects that they develop under the conditions provided for by the contract and under proper use, arising from faulty materials, design or workmanship and shall remedy such defects at his own cost when called upon to do so. If it becomes necessary for the supplier to replace on renew any defective portion of the goods, such replacement or renewal should be made by the supplier without any extra cost to Coal India Limited and/or its subsidiary company.
- 14. For orders placed directly on overseas suppliers, the tenderers should separately indicated whether their prices quoted include any commission for the manufacturer's agents in India and the amount of remuneration for the agent included in the quoted price. Price shall include,
- a) the service that will be rendered by them as manufacturer's agent;
- b) the name and address of agents, if any, in India; and
- c) the agency commission or remuneration or freight in case FOR prices are accepted will be paid in Rupees in India.
- 15. On acceptance of the tender, a formal acceptance of tender or supply order will invariably be issued. Advance intimation in writing of acceptance of the tender will be given whenever considered necessary by the said authority. In case an advance intimation has been given, the formal acceptance of tender of supply order shall follow in due course, but immediate action towards execution of supply order shall be taken on receipt of the advance intimation.
- 16. EARNEST MONEY/SECURITY MONEY:
- a) Earnest Money Clause should be stipulated in the tender. The value of Earnest Money to be deposited by the tenderer should be 2% of the value of the estimated cost tendered for or Rs.10,00,000/-, whichever is lower. EMD. should be in the form of Demand Draft and must accompany the quotation i.e. Cover-I of the bid. For unsuccessful tenderer EMD shall be refunded immediately after finalisation of the tender with the approval of the HOD of MM deptt. or Head of Area. EMD shall be forfeited if any tenderer withdraw their offer before finalization of the tender or fails to submit order acceptance within 15 days from the date of order.
- b) Security Deposit clause should be stipulated in the tender. Two weeks time (15 days) shall be given in the order to the successful tenderer to furnish the security deposit. In case the firm fails to deposit the security money, the order shall be cancelled and the case shall be processed to order elsewhere and the firm's performance is to be kept recorded for future dealings with them.

The value of Security Money to be deposited by the successful tenderer in the form of Bank Draft shall be 10% of the value of the awarded contract without having any ceiling. For successful tenderer, EMD should be converted to Security Money which will be refunded to the firm within 30 days of satisfactory execution of the contract with the approval of the HOD of MM deptt./Head of the Area. For unsatisfactory performance and/or contractual failure, the security money shall be forfeited.

- c) For procurement value less than Rs.1,00,000/-, no earnest money/security deposit will be required.
- d) If any State/Central Govt. Organisation/PSU & valid DGS&D/NSIC registered (for the tendered items) firm can produce documentary evidence issued by Govt. Authorities for according exemption towards submission of EMD/SD, they may be considered for exemption from submission of EMD/Security Deposit.
- 17. Inspection and Rejection

Generally the stores shall be of the best quality and workmanship and comply with the contract or supply order in all respect. The stores supplied shall be in accordance with specification unless any deviation is authorized and specified in the contract or supply order or any amendment thereto.

(a) Facilities for Test and Examination



The supplier shall, at his own expenses, afford to the Inspector all reasonable facilities and such accommodation as may be necessary for satisfying itself, that the stores are being and/or have been manufactured in accordance with particulars. The Inspector shall have full and free access at any time during the execution of the contract to the suppliers work for the purpose aforesaid, and he may require the supplier to make arrangements for inspection of the stores or any part thereof or any material at his premises or at any other places specified by the Inspector and if the supplier has been permitted to employ the services of the sub-supplier, he shall in his contract with the sub-supplier reserve to the Inspector a similar right.

(b) Cost of Test

*

The supplier shall provide without any extra charge, all materials, tools, labour and assistance of every kind which the inspector may demand from him for any test, and examination, other than special or independent test, which he shall require to be made on the supplier's premises and the supplier shall bear and pay all costs attendant thereon. If the supplier fails to comply with the conditions aforesaid, the Inspector shall in consultation with the purchaser, be entitled to remove for test and examinations all or any of the stores manufactured by the supplier to any premises other than his(suppliers) and in all such cases the supplier bear the cost of transport and/or carrying out such tests elsewhere. A certificate in writing of the Inspector, that the supplier has failed to provide the facilities and the means, for test and examination shall be final.

(c) Delivery of Stores for Test

The supplier shall also provide and deliver the test free of charge, at such place other than his premises as the inspector may specify, such materials or stores as he may require.

(d) Liability for Costs of Laboratory Test

In the event of rejection of stores or any part thereof by the Inspector in consequence of the sample thereof, which removed to the laboratory or other place of test, being found on test to be not in conformity with the contract or in the event of the failure of the supplier for any reason to deliver the stores passed on test within the stipulated period, the supplier shall, on demand pay to the purchaser all costs incurred in the Inspection and/or test cost of the test shall be assessed at the rate charged by the laboratory to provide persons for similar work.

(e) Method of Testing

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.

(f) Stores Expended in Test

Unless otherwise provided for in the contract, all stores/materials expended in test will be to supplier's account.

(g) Inspector Final Authority and to Certify Performance

(i) The Inspector shall have the power:

Before any stores or part thereof are submitted for inspection to certify that they can not be in accordance with the contract owing to the adoption of any unsatisfactory method or manufacturer;

(ii) To reject any stores submitted as not being in accordance with the particulars.

(iii)To reject the whole of the installment tendered for inspection, if after inspections of such portion thereof as he may in his discretion think fit, he satisfied that the same is unsatisfactory; and

(iv) To mark the rejected stores with a rejection mark so that they may be easily identified if re-submitted.

(h) Consequence of Rejection

If on the stores being rejected by the Inspector or consignee at the destination, the supplier fails to make satisfactory supplies within the stipulated period of delivery, the purchaser shall be at liberty to:

(i) Allow the supplier to re-submit the stores, in replacement of those rejected, within a specified time, the supplier bearing the cost of freight, if any, on such replacement without being entitled to any extra payment on that account; or

(ii) Purchase or authorize the purchase of quantity of the stores rejected or so others of a similar description (when stores exactly complying with particulars opinion of the purchase executive which shall be final, readily available) without notice to the supplier's liability as regards the supply of any further installment due under the contract; or

(iii) Cancel the contract and purchase or authorize the purchase of the stores or others of a similar description (when stores exactly complying with particulars are not in a opinion of the purchaser, which shall be final, readily available) at the risk and cost of the supplier. In the event of action being taken under sub-clause(ii) above or this sub-clause in the provisions of clause 20 shall apply as far as applicable.

(i) Inspectors' Decision as to Rejection Final

The Inspector's decision as regards the rejection shall be final and binding on the supplier.

(j) Where under a contract, the price payable is fixed on FOR station of dispatch basis, the supplier shall, if the stores are rejected at destination by the consignee, be liable in addition to other liabilities to reimburse to the purchaser the freight paid by the purchaser.

(k) Notification of Result of Inspection

Unless otherwise provided in the specification or schedule, the examination of the stores will be made as soon as practicable after the same have been submitted for inspection and the result of the examination will be notified to the supplier.

(I) Marking of Stores

The supplier shall, if so required, at his own expense mark or permit the Inspector to mark all the approved stores with a recognized Government or purchaser's mark. The stores which cannot be so marked shall, if so required by the Inspector, be packed in suitable package or cases each of which shall be sealed and marked with such mark.

(m) Removal of Rejection

(i) Any stores submitted for inspection at a place other than the premises of the supplier and rejected shall be removed by the supplier subject as hereinafter provided within 14 days of the date of receipt of intimation of such rejection. If it is proved that letter containing such intimation is addressed and posted to him at the address mentioned in the schedule, it will be deemed to have been served on the supplier at the time when such letter would in the course of ordinary post reach the supplier. It shall be competent for the Inspector to call upon the

15 M

supplier to remove what he considers to be dangerous, infected or perishable stores within 48 hours of the receipt of such intimation.

(ii) Such rejected stores shall under all circumstances lie at the risk of the supplier from the moment of such rejection and if such stores are not removed by the supplier within the period aforementioned, the Inspector/Purchaser may either return the same to the supplier at his 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.

(n) Inspection Notes

On the stores being found acceptable by the Inspector, he shall furnish the supplier with necessary copies of Inspection notes duly completed, for being attached to the supplier's bill in support thereof.

18. Packing and Transport

- (a) It shall be the responsibility of the successful tenderers to arrange for the stores being sufficiently and properly packed for transport by Rail, Road or Sea as the case may be so as to their being free from loss or injury on arrival at destination. The packing of the stores shall be done at the expense of the successful tenderer.
- (b) The successful tenderer is responsible for obtaining a clear receipt from the transport authorities specifying the goods dispatched. He will not book any consignment on a "said to contain" basis. If he does so, he does it on his own responsibility. Coal India Limited and/or its subsidiary company shall pay for only such stores as are actually received by them in accordance with the contract.
- (c) All packing cases, containers, packing and other similar materials shall be supplied free by the successful tenderer and shall not be returned unless otherwise specified in the contract/supply order.
- (d) Packages must be so marked that identification is made easy. 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'. Weight of each packages will be marked on the package.

(e) A complete list of contents in each package called the packing list will be prepared and one copy will be packed in the package itself and another copy will be forwarded to the consignee, in advance

Delivery :

The time for and the date of delivery of the stores stipulated in the 'Purchase Order' shall be deemed to be of the essence of the contract and delivery of the stores must be completed by the date specified.

- 20. In the event of failure to delivery or dispatch the stores within the stipulated date/period in accordance with the samples and/or specifications mentioned in the supply order and in the event of breach of any of the terms and conditions mentioned in the supply order, Coal India Ltd. and its Subsidiary Companies should have the right:
- (a)To recover from the successful tenderer as agreed liquidated damages, a sum not less than 0.5%(half percent) of the price of any 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%. Where felt necessary the limit of 10% can be increased to 15% at the discretion of Head of the Materials Management Division.
- (b) To purchase elsewhere, after due notice to the successful tenderer 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 -
- (c) 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 -
- (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 full or in part.

- (f) 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 or any other contract should this sum be not sufficient to cover the full amount recoverable, the successful tenderer 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.
- 21. 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, flood, acts of nature or any other contingency beyond the supplier's control due to act of God then Coal India Limited or its subsidiary companies any allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by the Coal India Limited and its subsidiary companies, the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended.
- 22. The supplier shall allow reasonable facilities and free access to his works and records to the Inspector, Progress Officer or such other Officer nominated for the purpose. Inspector of stores, i.e. supplies made by the successful tenderer against the supply order mentioned at (15) above, shall be carried out by the Inspector/Consignee at the colliery site/stores or by the Inspecting Wing (inclusive of all its branch offices) of the DGS&D, New Delhi or any other agency as may be specified in the supply order. Where necessary, inspection may be carried out at the supplier's premises.
- 23. Coal India Ltd. and/or its subsidiary companies do not bind itself to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of the tender or portion of the quantity offered and the tenderer shall supply the same at the rate quoted.
- 24. The supplier shall at all times indemnify Coal India Limited and its subsidiary companies against all claims which may be made in respect of the supplies for infringement of any right protected by patent, Registration of Design or Trade Mark, provided that in the event of any claim in respect of alleged breach of Letter

Sel the

(54)

Patent, Registered Design or Trade Mark being made against Coal India Ltd. and/or its subsidiary companies, the said authority shall notify the supplier of the same and the supplier shall be at liberty at his own expense to settle any dispute or to conduct any litigation that may rise there from.

#### Carrying Vessels for Imported Items

In case of machinery imported from abroad, it is preferable that shipment should be affected in Indian Vessels, wherever possible. Supplies will however not be delayed on this account.

#### 26. Freight

The stores shall be dispatched at public tariff rates in the case of FOR station of dispatch contract and the stores shall be booked at full wagon rates whenever available and by the most economical route or by the most economical tariff available at the time of dispatch as the case may be. Failure to do so will render the supplier liable for any avoidable expenditure causes to the purchaser.

Where alternative routes exist, Coal India Limited/and or its subsidiary companies shall, if called upon also to do indicate the most economical route available or name the authority whose advice in the matter should be taken and acted upon. If any advice of any such authority is sought, his decision or advice in the matter shall be final and binding on the supplier.

#### 27. Passing of Property

Property in the stores shall not pass to the purchaser unless and until the stores have been delivered to the consignee or interim consignee as the case may be in terms of the contract.

#### Laws Governing the Contract

- a) This contract shall be governed by the Laws of India for the time being in force.
- b) Irrespective of the place of delivery, the place of performance of place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of tender or supply order has been issued.
- c) Jurisdiction of Courts

The courts of the place from the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.

d) Marking of Stores

The marking of the stores must comply with the requirements of the law relating to Merchandise Marks for the time being inforce in India.

#### 29. Corrupt Practices

- a) The supplier shall not offer or give or agree to give to any person in the employment of the purchaser or working under the orders of Coal India Ltd. and/or its subsidiary companies any gift or consideration of any kind as an inducement or reward for going or forbearing to do or for having done or forborne to do any act relating to the obtaining or execution of the contract or any other contract with the purchaser or for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the purchaser. Any breach of the aforesaid condition by the supplier or any one employed by him or acting on his behalf(whether with or without the knowledge of the supplier) or the Commission of any offence by the supplier or by any one employed by him or acting on behalf under Chapter IX of the India Penal Code, 1860 or the Prevention of Corruption Act, 1947 and any amendments thereto or any other Act enacted for the prevention of corruption by Public Servants shall entitle Coal India Limited and or its subsidiary companies to cancel the contract and all or any other contract with the supplier and to recover from the supplier the amount of any loss arising from such cancellation in accordance with the provisions of Clause 20.
- b) Any dispute or difference in respect of either the interpretation effect or application of the above condition or of the amount recoverable, the re-under by the purchaser from the supplier shall be decided by Coal India Limited and its subsidiary companies whose decision thereon shall be final and binding on the supplier.

#### 30. Insolvency and Breach of Contract

(a) Coal India Limited and/or its subsidiary companies may at any time by notice in writing, summarily determine the contract without compensation to the supplier in any of the following event, that is to say

If the supplier being an individual or if a firm any partner thereof, shall at any time be adjusted insolvent or shall have a receiving order or order for administration of his estate made against him or shall take any proceeding for composition under any insolvency Act for the time being in force or make any conveyance or assignment of his effects or enter into any arrangements or composition with his creditors or suspend payment or if the firm be dissolved under the Partnership Act.

(b) If the supplier being a company is would up voluntarily by the order of a court or a Receiver, Liquidator Manager on behalf of the Debenture-Holders is appointed or circumstances shall have arisen which entitles the court or Debenture-Holders to appoint a Receiver, Liquidator or Manager.

(c) If the supplier commits any breach of the contract not herein specifically provided For, Provided always that such determination shall not prejudice any right of action or remedy which shall have accrued or shall accrue thereafter to the purchaser and provided also the supplier shall be liable to pay to the purchaser for any extra expenditure he is thereby put to and the supplier shall under no circumstances be entitled to any gain on repurchase.

#### 31. Terms of Payment

- (a) For all stores, 100% payment should be made on receipt of the consignment at site and acceptance by the consignee as per actual payment term stipulated in the contract. The number and date of Railway receipt, Bill of Lading, Air Way Bill or Consignment Note under which the goods charged for in the bill are dispatched by Railway, Ship, Air or Road respectively, and the number and date of the letter with which such Railway Receipt, Bill of Lading, Air Way Bill or Consignment Note is forwarded to the consignee should be quoted on the bill. In the case of stores dispatched by post, the postal receipt should be attached in original to the bill and its number and date quoted therein.
- (b) Payment against the supply orders placed either by the Subsidiary company or by CIL shall be arranged by the Subsidiary Companies, if not specified otherwise. Wherever order is placed by CIL on any foreign supplier involving requirement of more than one Subsidiary Co., payment shall be arranged by CIL normally through Letter of Credit.

  (c) Payment for Agency Commission, if any, involved, may be considered in case of necessity, subject to compliance of the
- (c) Payment for Agency Commission, if any, involved, may be considered in case of necessity, subject to compliance of the Government of India Guidelines issued from time to time. The name of the Indian Agent with their full address and the quantum of Agency Commission, if any, payable, shall have to be mentioned in the supply order itself.

(d) Payment from CIL may also be considered, if felt necessary, by the CIL management, even though order is placed against the requirement of one subsidiary company by CIL.

(e)Specific payment term may be formulated in accordance with the provisions laid down (as applicable) at Chapter-IX of the Purchase Manual.

Progress Reports

*



(a) 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.
b) The submission, receipt and acceptance of such reports shall not prejudice the right of the purchaser under the contract, nor

ļ,

- b) The submission, receipt and acceptance of such reports shall not prejudice the right of the purchaser under the contract, nor shall operate as an estonnel 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.
- 33 All disputes arising out of this contract shall be under the jurisdiction of Dhanbad /Jharkhand Court only and as per the "Law of the Land".
- 34. PROFORMA FOR COLLECTING PAYMENT THROUGH ELECTRONIC MODE INCLUDING ELECTRONIC FUND TRANSFER (EFT) & ELECTRONIC CLEARING SYSTEM

(To be submitted off line in triplicate)

1	VENCOR/SUPPLIER NAME AND ADDRESS (WITH TELEPHONE NO.	
	AND FAX NO.)	
2	PARTICULARS OF BANK ACCOUNT	
	A, BANK NAME	
	B. BRANCH NAME (INCLUDING RTGS CODE)	
	ADDRESS	
	TELEPHONE NO. AND FAX NO.	
	C. 9- DIGIT CODE NO. OF THE BANK AND BRANCH(Appearing on the	
	MICR_cheque_issued on the Bank ) or 5-Digit code No. of SBI	
	D. ACCOUNT TYPE (SB Account/current account or cash credit with code	
	10/11/13)	
	E. LEDGER NO./LEDGER FOLIO NO.	
	F. ACCOUNT NO. (CORE BANKING) AND STYLE OF ACCOUNT (As	
	appearing on the cheque book)	
3	DATE OF EFFECT	
	I hereby declare that the particulars given above are correct and o	omplete. If the transaction is delayed.
	or not effected at all for reasons of incomplete or incorrect inf	
	institution responsible. I have read the option invitation letter a	
	expected of me as a participant under the scheme. Any Bank ch	larges levied by the Bank of such e-
	transfer shall be borne by us.	
	Dete	,
	Date (	<del></del> )
	S	ignature of the vendor/supplier
	Certified that the particulars furnished above are correct a	s per our records.
	(	
	() Signature of the authorised officials of the Bank	

******

Why M

#### ANNEXURE E

#### Performance of equipment under performance guarantee during warranty period

Supplier Name M/c Model M/cv No D.O.C. S.O.No

1

#### Project Area

Month	W/Hrs	M/Hrs	B/D	n Hrs	I/D Hrs	Shf Hrs	% AV	Remarks
			Users	Suppliers				-
						-		

#### Certificate

- 1. The Deemed breakdown has been considered for calculating availability of equipment during warranty period as above
- 2. Warranty claim, if any, is detailed below:-

GM/CGM(Area)

SO(Excv)

Project Officer

PE(Excv)

Service Engineer (L&T Ltd)

A H



# L&T CONSTRUCTION EQUIPMENT LIMITED

3B, Shakespeare Sarani, Kolkata- 700 071, P.O.Box: 619 PHONE: 44002470 FAX: 033-22821025/7587

#### Clause No. 7.1.c. General:

#### Tools List:

List of Tools With Equipme	nt
----------------------------	----

S!	_				
No	Make	Part No/Model no.	Description	Size/Specification	Qty
1	LTK	J00045801	NIPPLE	8 mm	1 1
2	LTK	D04037516	QUICK COUPLER	19 MM	2
4	LTK	N20040510	INSPECTION LAMP	24V DC	1
5	LTK	U20028210	ADOPTER	LTK-specification	1
6	LTK	U20028211	ADOPTER	LTK-specification	1
7	LTK	V20028212	ADOPTER	LTK-specification	1
8	LTK	W20044405	D/E SPANNER	6 X 7 mm	1
9	LTK	X20044406	D/E SPANNER	8 X 9 mm	1
10	LTK	L20144491	D/E SPANNER	10 X 11 mm	1
11	LTK	A20044408	D/E SPANNER	12 X 13 mm	1
12	LTK	B20044409	D/E SPANNER	14 X 15 mm	1
13	LTK	C20044410	D/E SPANNER	16 X 17 mm	1
14	LTK	D20044411	D/E SPANNER	18 X 19 mm	1
15	LTK	F20044413	D/E SPANNER	21 X 23 mm	1
16	LTK	M20144492	D/E SPANNER	22 X 24 mm	1
17	LTK	NZ0144493	D/E SPANNER	27 X 30 mm	1
18	LTK	Q20144495	D/E SPANNER	41 X 46 mm	1
19	LTK	M20044419	S/E SPANNER	55 mm	1
20	LTK	P20144494	D/E SPANNER	32 X 36 mm	1
21	UNBREKO	H20052005	ALLEN KEY	3 mm	1
22	UNBREKO	J20052006	ALLEN KEY	4 mm	1
23	UNBREKO	K20052007	ALLEN KEY	5 mm	1
24	UNBREKO	L20052008	ALLEN KEY	6 mm	1
25	UNBREKO	N20052010	ALLEN KEY	8 mm	1
26	UNBREKO	G20052012	ALLEN KEY	10 mm	1
27	UNBREKO	R20052013	ALLEN KEY	12 mm	1
28	UNBREKO	520052014	ALLEN KEY	14 mm	1
29	UNBREKO	T20052015	ALLEN KEY	17 mm	1
30	UNBREKO	U20052016	ALLEN KEY	19 mm	1
31	LTK	A20144412	TOMMY BAR	10 mm	1
32	LTK	Z20144411	BOX SPANNER	8 mm	1.0

H

# QUALITY ASSURANCE PLAN FOR L&T - 300CK (Diesel) AND L&T-300CK (Electric) MACHINES

PAGE : 1/1	K.V.Sankaranarayanan - Sr.DGM (Quality Assurance)	nager (Quality	Effectivity : 18/01/2011
REVISION : -	المراجعة المراجعة	, 1(:)	
DOCUMENT No. : QP MQA 1005	Approved by	Reviewed by:	Date of issue: 18/01/2011
JE THIS STANF IS II	, F	c) Records as per order terms	4
California area a company	AMARIAN AMARIAN TANÀN NA TRANSPORTANT NA TRANS	b) Machine Inspection Certificate	BE SUBMITTED .
TROLLTS CIPY		a) Engine / Electric Motor - Test Certificate	
ce. This will also include verification by	Contracts / Order requirements mutually agreed are verified for compliance. This workstomer at LTK.	Contracts / Order requirements mutu	TERT ORBOANCE I EO I ING
procedures. The checklists of earlier	Machines are tested for performance as per established inspection/ test procedure stages are verified during final inspection.	Machines are tested for performance as stages are verified during final inspection	DEDECAMANCE TESTING
And the state of t	ing performance testing of machines.	Electrical chacks are carried out during performance testing of machines	ELECTRICAL CHECKS ·
a. Checklists are maintained as	Painting is carried out as per established procedures and work instructions. Checklists are maintained as records.	Painting is carried out as per establis records.	PAINTING
These include process sheets and a maintained.	Established systems and processes are in place for machine Assembly. These include process sheets and checksheets for critical assembles and records of quality confirmation are maintained.	Established systems and processes checksheets for critical assemblies a	Assembly Operation
s are in place for manufacturing and	LTK is certified under ISO 9001:2008. Established systems and processes are in place for manufacturing and quality confirmation during various stages of manufacturing.	LTK is certified under ISO 9001:2008. Established systems quality confirmation during various stages of manufacturing.	Make items
nufacturer. Visual inspection done at the performance testing.	Components are accepted based on Test Certificate / declaration by manufacturer.Visual inspecting. LTK for any transit damages, Performance is confirmed during final machine performance testing.	Components are accepted based on LTK for any transit damages, Perforn	OE components
Visual inspection is done at LTK for ng.	This category of components are sourced from reputed global suppliers. Visual instany transit damages. Performance is confirmed during final machine testing.	This category of components are so, any transit damages. Performance is	Imported components
records and necessary documents ce testing.	Inspection / Quality verification are carried as per procedures . Inspection records a are maintained. Component quality is assured during machine performance testing.	Inspection / Quality verification are care maintained. Component quality is	Baught out Canpanents
SS	QUALITY CONFIRMATION PROCESS		STAGE DESCRIPTION

H

# L&T 300 Hydraulic Excavator



Larsen & Toubro Limited, India's leading multi-dimensional industrial organisation, has an unmatched track record in the Earthmoving & Construction Equipment sector. L&T offers a wide range of machines which incorporate contemporary technology as well as advanced features based on feedback generated from extensive field trials. Every machine is therefore engineered to deliver a high level of performance.

L&T 300 Hydraulic Excavator is the leader in its class. Sturdy, rugged and reliable, these machines are manufactured by L&T Construction Equipment Limited at Bangalors Works with ISO 9001 accreditation for design, development, manufacturing, sales and servicing and ISO 14001 certification for Environment Management System and OHSAS 18001 certification for Occupational Health and Safety Management Systems.

Manufactured by:

181. 1 la

#### Engine

Make : Cummins India Limited

Model : NT 855-C335, Big Cam III

Type : Direct Injection, 4 Stroke

Water cooled, Diesel Engine

Aspiration : Turbo-charged

No. of Cylinders : 6

Воге : 140 mm Stroke : 152 mm

Piston Displacement: 14 L

Hydraulic Cylinders

Flywheel Horsepower: 320 hp @ 1900 rpm

(SAE J1349)

B/D Open

Max. Torque : 1192 Nm @ 1900 rpm

#### Hydraulic System

Variodyn Hydraulic system provides optimum conversion of engine power into hydraulic power at the bucket. The 'heavy lift' mode provides increased lifting capabilities and digging force at the flick of a switch. The hydraulic circuit provides series parallel flow to the attachment and smooth simultaneous operations.

Maximum Operating Pressure in

normal lift mode - 320 bar heavy lift mode - 400 bar

400

#### Hydraulic Pump

A radial piston, fixed displacement pump is simple, compact and contain a few moving parts which contribute significantly to its high efficiency and reliability.

Maximum flow of the pump: 741 ipm @ 1900 rpm

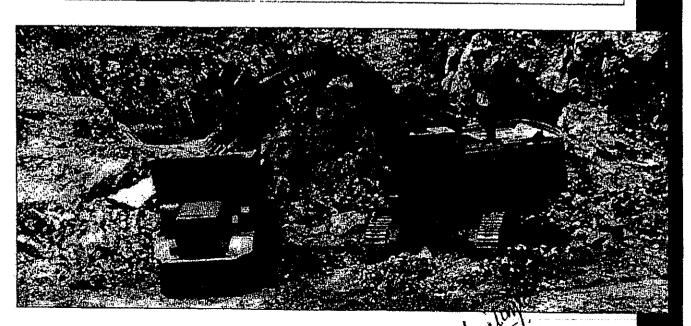
#### Operating Weight: 58,400 kg

75

Operating weight with 600 mm tracks, 3.9 m boom, 2.75 m stick and 4000 L B/D bucket.

Cylinder	Qty, per Machine	Bore Diameter (mm)	Rod Diameter (mm)	Stroke(mm)
Boom	2	165	110	1400
B/A Stick	1	195	130	1500
B/A Bucket	1	155	110	1400
LDR Stick	1	210	140	1400
LDR Bucket	1	225	150	800
B/D Stick	1	210	140	1400
B/D Bucket	1	225	150	800

115





#### Floating Boom

The front end automatically adapts to contours of the terrain, simplifying digging and preventing the bucket from joiting against the ground.

#### **Outstanding Features**

Six flow hydraulic pump

- Fewer hoses, pipes and joints
- Increased capacity of coolers
- · Improved layout for easy accessibility

#### Motor for Electric Version

Make: Alstom/Crompton Greaves (tube ventilated) squirrel cage induction motor developing 300 HP (225 kW) at 1500 rpm synchronous speed having class F insulation IP55 protection and suitable for 3300 V, 3 phase 50 Hz electric supply.

#### **Upper Structure**

#### Frame

All welded heavy-duty steel structure with heavy gauge steel plate ensures durability.

Aesthetically designed, open-type cowling provides easy service accessibility.

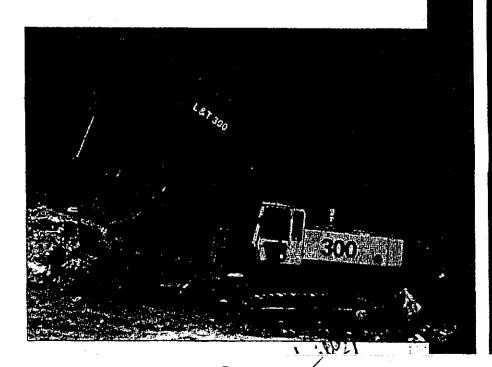
#### Swing Mechanism

High torque, low speed hydraulic motor engages with ring gear ensuring high efficiency. Single row cross roller bearings support induction hardened external ring gear. Swing can be locked from operator's cabin.

#### Cabin

The cab interior is spacious. An ergonomically designed operator seat and easy access to all control levers ensure maximum operator comfort and better concentration on the job.

Adjustable seat and control levers — The seat slides forward and backward together with the work equipment control levers to ensure the best operating position at all times. Literature compartment with lock facility, electric horn, wiper and fan are also provided.



#### Undercarriage

All welded reinforced steel structure, track adjuster with shock absorbing spring. Track rollers, carrier rollers and idlers lubricated for life. Double grouser track shoes

Change Arangel riggy strass		
Shoe width (mm)	500	600
No. of track shoes	48	48
No. of track rollers	7	7
No. of carrier rollers	2	2
Ground bearing pressure (kg/cm²)	1.2	1.0

#### Travel

An independent axial piston high torque hydraulic motor through planetary reduction gearbox drives each track

Maximum drawbar pull	414 KN
Travel speeds	1.3/2.6 kmph
Maximum Gradeability	58% continuous

Travel parking brake is spring set, hydraulically released multiple disc type (for electronic version and available as option in diesel version).

#### Service refill capacity

Fuel tank	710 L
Engine crank case	27 L
Cooling system	52 L
Hydraulic oil tank	600 L
Hydraulic Oil System	1020 L
Final drive case (each side)	5 L

#### **Attachments**

Shovel (Loader) Bottom Dump	3.90 m
Front Dump 5.50 m	
Backhoe 2.76 m 3.25 m 4,10 m	5,90 m
Clamshell 3.50 m	8.80 m







#### BUCKET CAPACITIES

#### BACKHOE (5.9 m boom & 3.25 m stick)

Designation (litre)	Bucket Ce	Bucket Capacity		Outside width (mm)			
	CECE (L)	PCSA (L)	with side culter	without side cutter	Mass Kg	No. of teeth	Density T/m ³
1900	1900	2100	1750	1600	2200	5	3.0
2300	2300	2500	1736	•	2390	6	2.4
2700	2700	3000	1916		2470	6	2.0
3000	\$000	3120	2000	1850	2670	8	1.9

#### LOADER (3.9 m boom & 3.9 m stick)

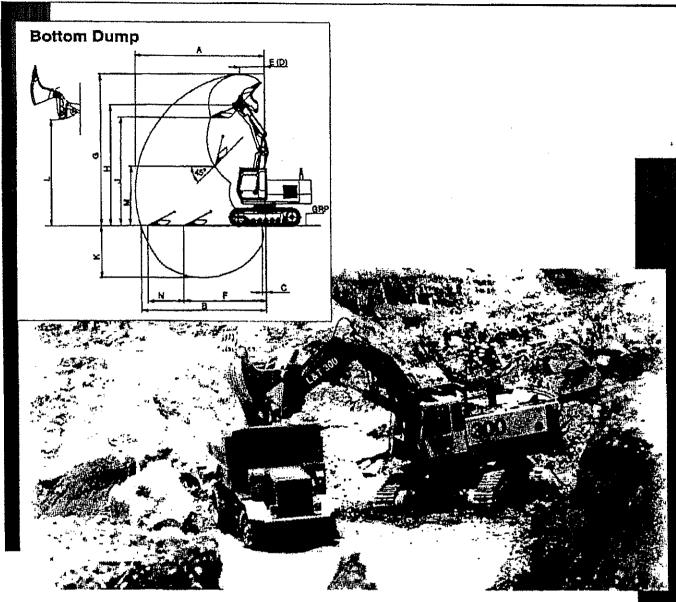
Designation (litre)	Bucket Capacity CECE HEAPED (Litre)	internei width (mm)	Mass Kg	No. of leath	Density T/m ³
3200	3200	2000	3700	6	2.5
3900	3900	2000 -	3920	6	2.1

#### BOTTOM DUMP (3.9 m boom & 2.75 m stick)

Designation	Bucket Capacity	Internal	Мака	No.of	Density
(litre)	CECE HEAPED (Litre)	widh (mm)	Ko	Testh	T/m ³
3200	3200	2000	5840	.6	2.8
4000	4000	2000	6100	, 6	ز 2.0

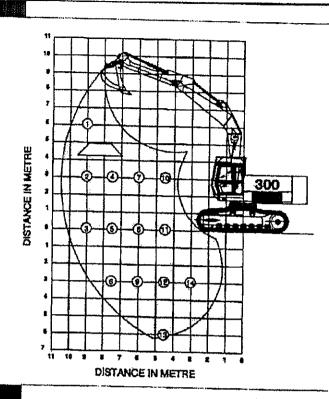
The state of the s

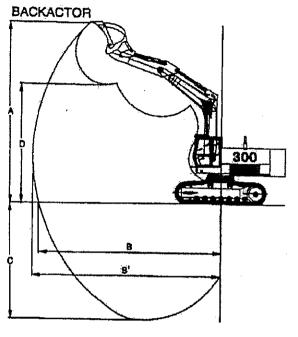
*



SYMBOL	TERM	LOADER (m)	BOTTOM DUMP (m)
		3.9 m Boom/ 3.9 m Stick	3.9 m Boom/ 2.75 m Stick
Α	Maximum reach	9.7	9.0
В	Maximum reach at GRP	9.3	8.5
С	Minimum reach at GRP	O	2.0
D	Reach to bucket pln centre at maximum height	4.8	3.7
E	Reach at maximum height	4,8	3.7
F	Minimum level floor radius	5,8	5.5
G	Maximum height of cutting edge	10.5	10.2
Н	Maximum bucket hinge pin height	8.2	7.7
J	Maximum bucket loading clearance	6.2	6.9
к	Maximum digging depth	3.6	3.0
L	Maximum dumping height for bottong walth for	_	6.9
M	Maximum dumping height for shared	4.0	/ -

Det.





#### All dimensions in mairs

	RATED LIFT C	APACITY WITH 1	900 L BUCKET H	Ke	
BOOM	5,1		5,8		
STICK	2.75	3.25	2.75	3.25	
1		=	8257	7698	
2	8919	10347	9454	9327	
3	-	10703	10907	19907	
4.	12325	11825	13519	11060	
-5	14475	14373	13660	13660	
6	-	-	13200	13710	
7	15341	14528	14934	14271	
1	19062	19960	18208	18298	
9	17584	18502	17482	18196	
10	21713	20133	22732	21308	
11	27574	27825	25730	25994	
12	24465	25994	24006	25321	
13	_	*	-	16565	
14	36595	33843	27860	24924	

ECCM	TICK			B'	C	D
	2.18	10.35	18.20	10.85	14.21	6.70
	3.25	10.8	10.78	4 <b>1.</b> 40	<b>675</b>	6.80
	4.10	10.80	153	1130	740	726
	2.78	11:10	3	3130	0,94	7.30
	3.25	11.40	11.05	12		77
_	<b>4.10</b>	11.80	12:48	12.75	8.20	<b>E</b> 00

Rated lift capacity is limited by Hydraulic capacity.

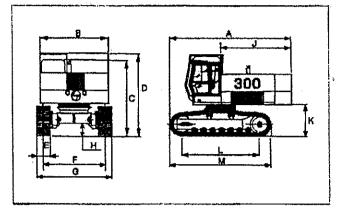
#### Safety Features

- Upper structure Swing lock
- Safety Glass
- Hom
- Warning Flashing Indicators (For electrical Version only)
- Fire extinguisher
- Cabin guard
- Cabin cut off switch
- in case of engine fallure, front-end can be grounded (foot pump)
- Engine lube oil pressure gauge
- Engine water temperature gauge

- **Battery Charging Indicator**
- Air filter dog indicator
- Low engine lube oil pressure indicator
- Hydraulic oil filter clog indicator
- Ammeter
- Hour meter
- Clogging indicator for centralized lubrication system
- Low mark on grease reservoir
- Motor overload indicato) to electrical version only)
  Phase failure (for electrical version only)

#### SHIPPING DIMENSIONS (mm)

A	Overall length	6425
В	Width of upper structure	3310
С	Top of cabin to groundline	3850
۵	Top of cabin guard to groundline	4200
E	Width of crawler track assembly	610
F	Track gauge, roller centreline to roller centreline	3340
a	Overall width of crawler	3990
Н	Ground clearance (per SAE J 1234)	580
J	Swing clearance, rear of upper structure	3820
K	Clearance, upper atructure to groundline	1570
L	Nominal distance between centrelines of drive sprockets and idlers	4120
M	Nominal overall length of track assembly	5210



Product improvement is a continuour process. Specifications given in this publication are therefore subject to change without notice. Proceptup depicted may be int applicant equipment.

- 32; Shivaji Mary, P.O. Box 5223
   New Delhi 110 015
   Tel: (011) 41419554/59
   Fax: (011) 41419595/41419600
- 32. Sector 28-D Madhya Marg, P.O. Box 14 Chendigarh 160 019
   Tel: (0172) 2790 151, 2790 750
   Fax: (0172) 2792 764
- D-24, Pritivi Raj Road, C-Scheme, P.O. Box 110, Jaipur 502 001

Tel : (0141) 2361 064, 2365 174

Fax: (0141) 2373 280

- 1-B-15, S.ES, Opp. Sheels Chowdrery Nursing Home, Talwandi, Kots 324 005
   Tel: (0744) 2429 617 / 2436 135
   Fax: (0744) 426 301 / 426 296
- 19, New Ahrita Puri Near Jyoti School, Fathehoura Udelpur 313 004
  Tel - (1990) 3464 337, 3454 305

Tel: (0294) 2451 337, 2451 305 Fax: (0294) 2450 188

 A-28 Indiransgar Paizabad Road, First Floor Lucknow 228 018
 Tat: 0822-2606472

 3-B, Shaksspeare Sarani, P.O.Box 619
 Kolkata 700 071

Tel: (033) 2283 1442/44002301/5 Fax: (033) 2282 1025

Annapoorna Complex
 Piot No: 559, Levile Boad
 Bhubaneetrear 751 014, Orissa
 Tel: (0674) 2537-301, 2537-305/06
 Fax: (0674) 2537-309

P.O. Dhanser Dhanhed 826 001

Tel: (0328) 2291391/2291387

A1/11, Astronauts Avenue
 Bidhen Negar
 Durgspur 713 212
 Tel: (0343) 253 5852/253 5880,

253 7843 Fax: (0343) 2536 493

 Männpur Roed, Barnuni Meiden Guwahati 781 021

Tel : (0361) 2651 329, 2651 299 Fax: (0361) 2551 306

Akashdeep Plaze, 2nd Floor, P.O. Golmuri,

Jamahedpur 831 003 Tel: (0857) 2340 829, 2487 112 Fax: (0657) 234 1250

Piot No. 763/26, Thans: 194 P.S. Seder, Kolorr Area Opp. Hanuman Dharam Kanta (on NH SS), Hazaribegh Road; Research States

Ranchi - 834 000 Tel.: (0651) 2544834 / 2544836 9234300415

L&T-House, Sector 19 Rourkele 759 005 Tel: (0861) 254748

LET-House, P.O.Box 119
191/1, Ohole Patti Road
Pune 411 001

Tel: (020) 2612 7964 Fax: (020) 26114007

501, Sakar Complex
 Opp. Gendhigram Riy, Sin.
 Ahmedabad 380 009
 Tel: (079) 88304017/(8.

28582536 Fax: (079) 2658 0491  Plot 15, 8 Hector Land Journalist Colony, Altoporvorim Gott 403 512

Tel: (0832) 2414055, 2416 524

Fax: (0832) 2416 523

 North Block II, First Floor, Gate No.1, Powel Campus, Saith! Vilver Road, Powel (W) Mumbal 400 072

Tel: (022) 67053285/67052470

Fax: (022) 67051510

 328, Star Plaza, Pocchhah Choek, Rajicot 350001

Tal.: (0281) 2453 532 Feo: (0281) 2453 532

 Radhadaya Complex, Neer Cheroder Complex, Old Padra Road Vadodera 390 015

Tel: (0265) 2334 798 Fax: (0265) 2336 184

8-B Farm Land, Reindaspeth
 Nagpur 440 010

Tel: (0712) 2420644 / 628 Fax: (0712) 2420618

 131/1 Zone II, Maharana Praiap Nagar Bhopal 462 011
 161: (0755) 423913 / 014
 Fax: (0755) 2759254

 L&T-House, Group MIG-5, Packmenabhour, P.O.Box 39, Dung 491-001 (M.P)
 Tel. (1978) 2222 200, 22207

Tel: (0788) 2322 809, 2330727 Fax: (0788) 2210 161

 ili Floor, Vasantha Chambers 5-10-173 Falah Maldan Road-Hyderabad 500 004

Tel: (040) 5572 0000, 2323 0206 Fax: (040) 2323 0586  10, Club House Road Anna Road, Poit Beg 5247 Chennal 500 002

Tel: (044) 2845 0000 / 2846 2025

Fax: (044) 2846 2102

Post Bag 7156 67, Appusiarry Road Colimbatore 641-045

Tel: (0422) 2588136/2588105 Fax: (0422) 2588148

 Plot No. 518, 4th Main Road K.K. Nagar Madurni 825 020
 Tel: (0452) 2537 305
 Fax: (0452) 2537 552

 48-6-16, Dwerskinnsger Vissikhapetnern 530 018
 Tel : (0891) 2754687; 2755483; 2501488

Fax: (0891) 2746 075

• 40-5-8-1 First Floor, Tickle Road Near Sweet (Magic) Brindavan Colony Vijayannada 520-010 Tel:- (0868) 2470856, 5527056, 8587035, 2482436 Fix: (0868) 2485274

38, Cubbon Road
 Bangalore 580 001
 Tel: 4080) 25020131/25020

Tel: (080) 25020131/25020140 Fax: (080) 25586214/25598397

 Skybright Building, M.G. Rioed, Ravipuram Junction, P.O.Box 1723, Emalusam, Kochi 882 016
 Tal : (0484) 2358688

Tel: (0484) 2358686 Fex: (0484) 2358982





Marketed & Serviced by:

Construction Equipment Business

Tel: (080) 22258982 / 83 / 84 Fex: (080) 22250309

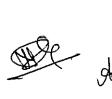
LARSEN & TOUBRO LIMITED
Lakshrifinarayan Complex (1st Floor), 10/1 Palace Road, Bangalon, 560, 052

W.

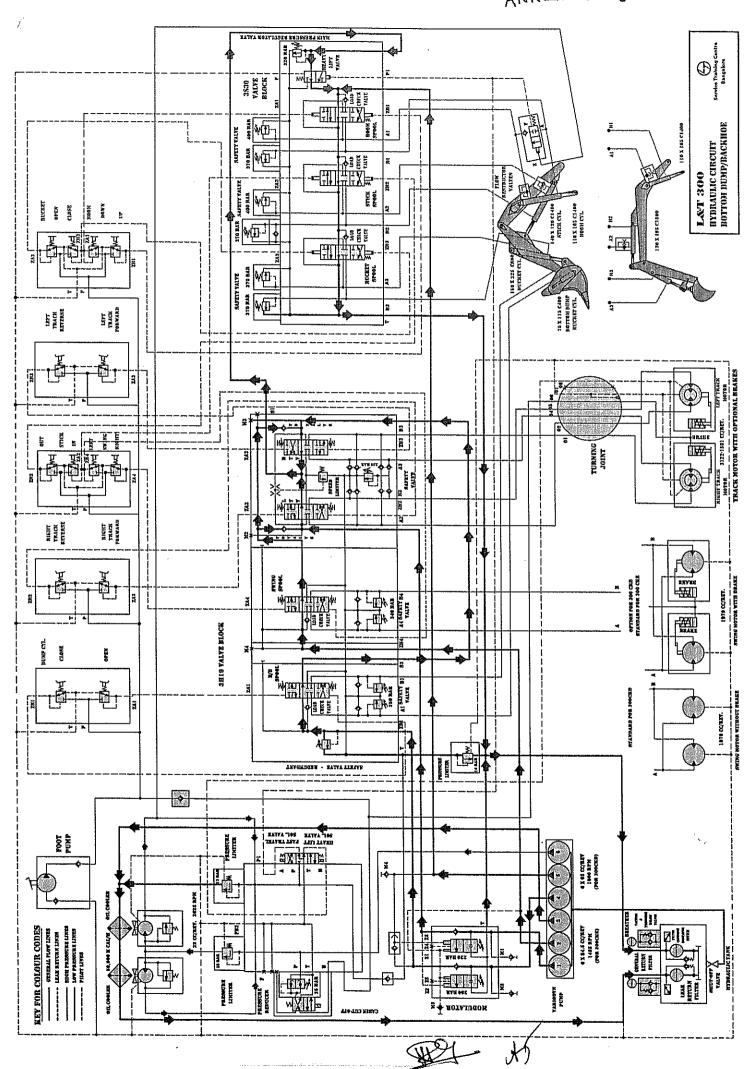
HS

# CLAUSE NO. C.7.2.d. Teetinical Dotails.

CUMMINS INDIA	LTD.	Basi	c Engine M	lodel	Ref.Cun	e No.: NT855		
Kothrud , Pune 41102	9 // 🐠 🖟	NT-8	355-C (BC)	War S		14 - 2 <b>5</b> 6		dittis -
ENGINE PERFORMANCE CURVE		Eng	ine Family		CPL	Ву	- In	
AS PER ISO 9249			NT:		(-129	- КРК	27.20.20.20.	
Displ,Inch(Lt) =855(14.0)	Aspiration	n :Turboc	harged.	No. of Cy	inders : Si		1600	
Bore, In(mm) = 5.5(140)	Stroke,Ir	nch (m) :6.	00(152)	Fuel Syster				
							SPEED	₽ (KW) 💨
DOWE		EOD NT	955 C /DC	) AS PER IS	·O 0040		130	
250	IN CONVE	. 1 ()() (14)	-000-00	/ AO PER IS	00 3249		140	0 169
200							150	0 182
§ ²⁰⁰ ]	-13	<u></u>		7.7			160	0 192
100 + 001 (KW)	-						170	0 201
₩ 100 +							180	
o 50		494					190	
0 1 SPEED300 1	1400	1500	1600	1700	1800	1900		
QLEED SOO	1400	1000	1000	1700	1000	1900		
<u> </u>				<del>' · · · · · · · · · · · · · · · · · · ·</del>	-			
7000							SPEED	T ( N-M)
TORQU	JECURV	E FOR NI	-855-C (BC	C) AS PER I	SO 9249	F	130	
1180						is a sale of	140	
⊋ 1160 + ⊋ 1140 •	-&	<del></del>					150	
z 1120 -							160	
(N-N) 1120 - 1100 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 1060 - 106							170	
2 1060 +							180	
		4 4 4 4 4 4		<u> </u>			190	
SPEED 1300	1400	1500	1600	1700	1800	1900	190	1070
SPEED	•	•						·
					T		-	
				<u> </u>	1			
SFC	CURVE	FOR NT-8	55-C (BC)	AS PER ISC	9249	-	SPEED	SFC(GM/
250							SPEED	KW-HR)
						-	120	
<u> </u>		60000004					130	
							150	
235 T WB) 230 T 230 T		- <b>*</b>					160	
							170	
225	4400	4500	4000		4000		180	
SPEED1300	1400	1500	1600	1700	1800	1900	190	00 244.58
REF SBM:SO27082				PROD. T	OLEDA!	UCE EO/		
NLF ODM.OUZ/VOZ				וראטט, ו	OLEKAI	VCE ~0%		







### L&T CONSTRUCTION EQUIPMENT LIMITED

3B, Shakespeare Sarani, Kolkata-700 071, P.O.Box: 619 ● PHONE: 44002470 ● FAX: 033~22821025/7587

#### Clause No 7.2.i of NIT: Technical Details:

#### **Automatic Lubrication System**

The LINCOLN FLOW MASTER PUMP is a electrically operated grease pump and operates on 24 V DC. The pump is driven by rotary motion of the electric DC gear motor. Rotary motion is converted to reciprocating motion through an eccentric crank mechanism. The reciprocating action causes the pump cylinder to move up and down.

The pump is a positive displacement double acting pump as grease output occurs during both the up and down stroke of the pump.

CENTRO-MATIC single Line Parallel system consists of an electric operated Vent Valve. The line pressure is vented between lubrication cycles to allow the Injector valves to recharge.

As long as power supply is maintained to the pump and vent valve, the pump is in operation and the Injectors are charged with set amount of grease. Once the power supply is cut off the pump stops operating and vent valve opens. This causes the grease in the line to relieve back to the reservoir through vent valve assembly. Once the grease line pressure relieves, the injectors will dispense the lubricant to the points and get ready for charging for the next cycle.

The system is monitored by means of Pressure Switch provided along with the pump and signal from the Pressure Switch is used for control of the pump run and off times.

The pump reservoir shall be refilled through the refilling kit/port provided in the pump and the refilling process can be stopped as soon as grease reaches the higher level, by visually observing overflow of grease from overflow port.

The pump is fitted with a grease low level sensing mechanism by which the pump will stop functioning when the grease level in the container drops below a certain level and fault signal lamp comes on.

#### **TECHNICAL SPECIFICATIONS**

PUMP ASSEMBLY:

MODEL FLOW MASTER **DRIVE SOURCE ELECTRICAL** SUPPLY VOLTAGE 24 V DC LUBRICANT OUTPUT 108CC/MIN LUBRICANT PRESSURE 240 BAR (MAX)

LUBRICANT **GREASE NLGI 2** 

RESERVOIR CAPACITY **20 LTS** 

PUMP ASSEMBLY INCLUDES GREASE LOW LEVEL INDICATOR, VENT VALVE, PRESSURE SWITCH, PRESSURE GAUGE & SAFETY VALVE.

Grease Injector:

Model LH-IM

Adjustable output 0.131-1.31 CC/ Cycle

BANGALORE WORKS: BELLARY ROAD, BYATARYANAPURA, BANGALORE - 560 092, TEL:(91) 80-23333301, FAX: (91)80-23636065 Regd. Off.: L&T House, Ballard Estate, P.O.Box 278, Mumbai 400001

# L&T CONSTRUCTION EQUIPMENT LIMITED

3B, Shakespeare Sarani, Kolkata-700 071, P.O.Box:619 PHONE: 44002470 FAX: 033-22821025/7587

Operating pressure

125 bar(min), 240 bar(max),

170 bar (recommended)

Vent pressure

41 bar (max)

Monitoring

Visual - with indicator stem & output

adjusting screw.

Inlet/Outlet port (Manifold)

3/8"NPT(F)

Lubricant outlet port

1/8"NPT(F)

Timer:

Voltage

24V DC

**Features** 

Run Time Setting, Pause Time Setting, Fault

Monitoring

No of lubrication Points

Control Voltage

25 Nos.

24 V DC

Grade of Grease used

NLGI 2

Authorized Signato

# CLAUSE NO. 7.2.0. Technical Details.

#### Volumetric Rating of Backhoe Loader Bucket (ISO 7451)

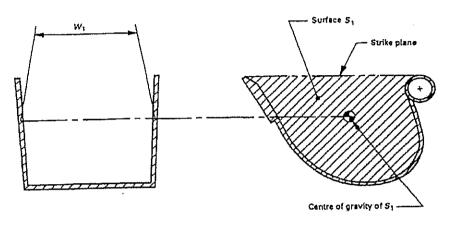


Figure 1 - Establishment of W1 dimension

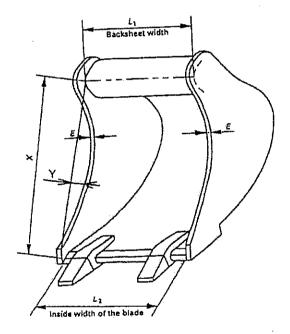


Figure 2 - Establishment of W4

SHEET 1/2





#### Volumetric Rating as per ISO 7541 for 3000L Cu.M B/A Bucket

#### 1. Formulae used:

Struck Volume:  $Vs = S_1 W_1$  in m³ (Refer Figure 3)

Top Volume:  $Vt = X^3/6+(X^2/4)(W4-X)$  in m3 (Refer Figure 3)

Rated capacity: Vr = Vs + Vt in m³

 $W_{4} = ((L1+L2)/2)+2E$ 

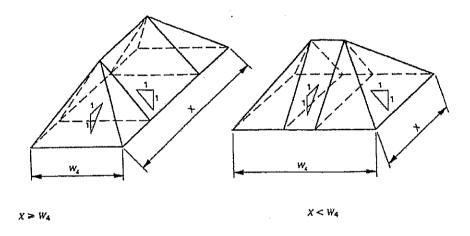


Figure 3 - Representation of top volume

2. Parameters	S ₁ in m ²	W ₁ in m	x in m	W₄ in m	L1 in m	L2 in m	E in m
Input values>	1.379	1.723	1.55	1.8105	1.701	1.78	0.035

3. Results

Calculations: Vs = 2.376017 m3

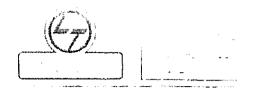
Vt = 0.777109 m3

Vr = 3.153126 m3 AS PER ISO 7541 AT 1:1

SHEET 2/2



# CLAUSE M. 7.2.a. Technical Details.



# Volumetric Rating of Bottom durap Bucket (ISO 7546)

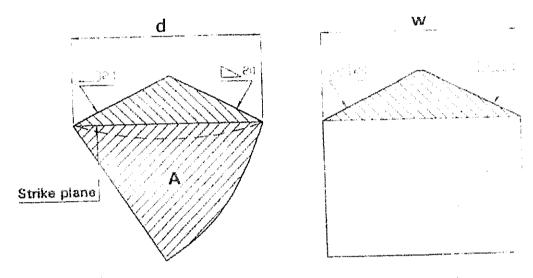


Figure - I

#### 1 Formulae used

Struck Volume: V_s = AW (reter figure 1)

Top Volume  $V_1 = \frac{d^2B'}{2} = \frac{d'}{24}$  (refer figure 1)

Rated capacity  $V_r + V_s + V_t$ 

2. Parameters  $A = 1.653 \text{ m}^2$ 

W = 2.000 m

d = 2.068 m

3. Repults V₄ > 3.306 m⁵

 $V_i \approx 0.701 \text{ m}^3$  V=4.607 or

4 Rated Bucket Capacity = 4.0 m³

William +

# CLAUSE NO. 7.2.j. Technical Details.

#### L&T300D

LIST OF MAJOR ASSYs & SUB-ASSYs

COMPONENT	MANUFACTURER/ SUPPLIER & ADDRESS				
ENGINE	M/s Cummins India Lt., Kothrud, Pune 411029				
GREASING SYSTEM	M/s Lincoln Helios Devanahalli Road, off old Madras Road, Bangalore 560 049				
FIRE SUPPRESSION SYSTEM	M/s Southern Electronics Ltd				
ATTACHMENT V/B	M/s Rexroth India Ltd., M/s Bosch Rexroth India Ltd., Peenya, plot no. 96, III phase peenya Industrial estate Bangalore 560 058				
SLEW RING	M/s Rotherde, Germany				
HYD OIL COOLER	M/s AKG, Germany				
RADIATOR	M/s Cummins India Lt., Kothrud, Pune 411029				
COOLER MOTOR	M/s CASAPPA, Italy				
BATTERY	M/s EXIDE, India				



PY X

# L&T CONSTRUCTION EQUIPMENT LIMITED

3B. Shakespeare Sarani, Kolkata-700 071, P.O.Box:619 PHONE: 44002470 FAX: 033-22821025/7587

#### Clause No 7.2.I of NIT: Technical Details:

#### DETAILS OF AUTOMATIC FIRE DETECTION AND SUPPRESSION SYSTEM

Pre-Engineered Automatic Fire Detection and Suppression System covering Detection, Nozzling and Suppression approved by DGMS.

Make: Southern Electronics

Total Number of Nozzles: 8 Nos.

Location of Nozzles are as follows:

Battery box: 1 No, Hydraulic tank: 1 No Fuel tank: 2 Nos Engine area: 3 Nos

Pump & valve bank side: 1 No

Nozzle: Manufactured by Southern Electronics of size 1/2".

Detection: Linear Heat Detection Cable used is from Protecto Wire USA with UL/FM approval.

Suppression Agent: Powder made of Mono Ammonium Phosphate base dry chemical power silliconised to 97% having an active retention span of 5 years. Source: Caldick, Germany.

#### Technical details:

The main features of the system are:

- Automatic Detection of Fire
- Automatic flooding of extinguishing agent.
- Activation of Audio Alarm.

The detection of fire is primarily made by a Sensor cable, which can detect fire anywhere along its length. The Sensor Cable is highly flexible is routed throughout the equipment so as to cover areas prone to fire due to spillage areas like turbo-charger, exhaust manifold transmission, parking brake etc.

In the event of a fire / overheat condition, the sensor cable gets shorted and the solenoid valve on the Pilot Cylinders get activated (energised) thereby initiating the extinguishing process. The pressurized gas from Pilot cylinder enters into the DCP Cylinder Assy, their by rupturing the CO2 Cartridge housed inside the Dry Chemical Powder Cylinder. The CO2 will propel the Dry Chemical Powder and get released through hose to the pre defined nozzle Points.

The built-in buzzer and external Horn Unit starts sounding continuously and stops only after the system is reset. The system can also reset itself automatically after two minutes.

Auto Fire Suppression System Consists of:

BANGALORE WORKS: BELLARY ROAD, BYATARYANAPURA, BANGALORE - 560 092, TEL:(91) 80-23333301, FAX: (91) 80 Regd. Off.: L&T House, Ballard Estate, P.O.Box 278, Mumbai 400001



# L&T CONSTRUCTION EQUIPMENT LIMITED

3B, Shakespeare Sarani, Kolkata-700 071, P.O.Box:619 PHONE: 44002470 FAX: 033-22821025/7587

I. Sensor Cable assy.

II. Control Unit. - 1 No

III. Conical Nozzles - 8 nos as given above

IV. Nitrogen Cylinder assy 0.5 litre Capacity - 1 no

V. DCP cylinder assy 15 kg capacity - 1 no

VI. Pilot Cylinder assy for system actuation - 2 nos

VII. Hooter for alarm - 1 no

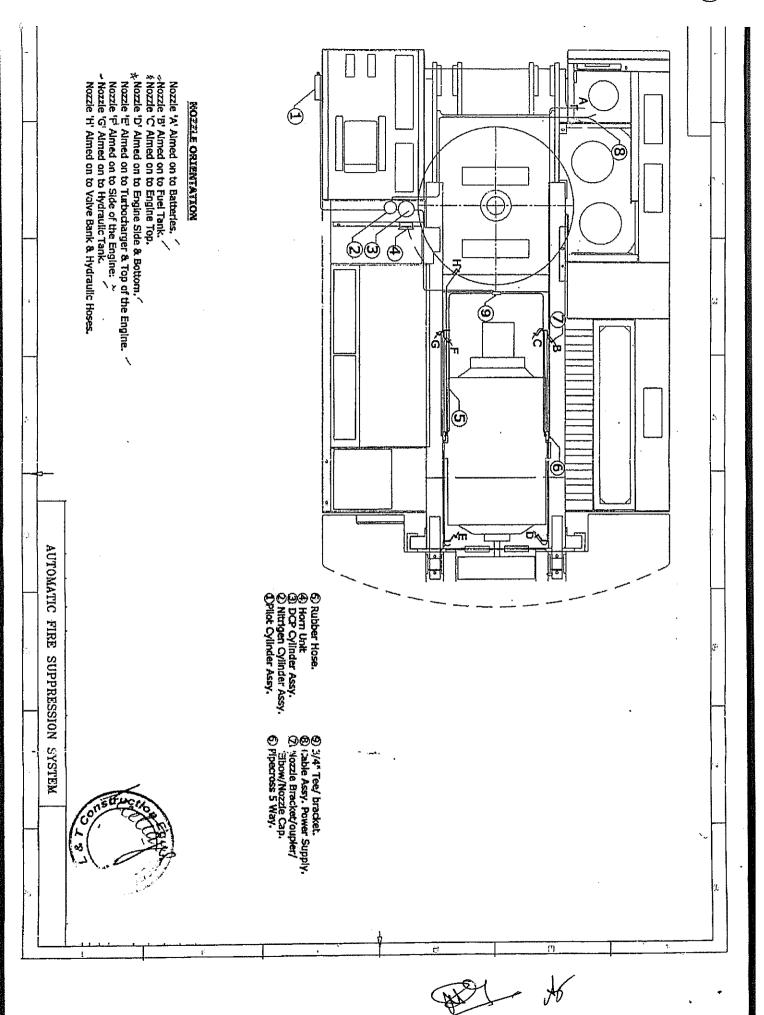
VIII. 5 way distributor block - 1 no

IX. Hoses connecting nozzles, cylinders & distributor blocks.

Layout diagrams attached.

Authorized Signatory

A A



	Capacity (Lts)	Drain/Refill/ Application (Hrs)	Estimated Annual Consumption @ 5000 Hrs pa
Engine Oil	57	300	969 Lts
Coolant	80	5000	80 Lts
Final Drive	34	2000	85 Lts
Hydraulic Oil	600	2000	1500 Lts
Cardium Compound	N/A*	50	300 Kgs
Grease	15Kg	N/A	500 Kgs

N/A = Applicatin quantity depends on ambient temp.

#### HYDRAULIC OIL

L&T-CASTROL HYDOEL VISCUS

VEEDOL L&T-KOMATSU ATRANSOL 100

SERVO LTK HYDOL VISCOUS

L&T MAK HYDROL P100

Castrol India Limited

Tide Water Oil Co. (India) Limited

Indian Oil Corporation Limited

Bharat Petroleum Corporation

#### **FINAL DRIVE**

SERVO GEAR HP 90 India

SERVO MESH SP 220

HYPOY 90 EP

ALPHA SP 220

PARTHAN EP 220

BALMEROL HP 90

MAK SPIROL 90 EP

Oil Corporation Limited

India Oil Corporation Limited

Castrol India Limited

Castrol India Limited

Hindustan Petroleum Corporation Limited

Balmer Lawrie & Co Limited

Bharat Petroleum Corporation Limited

#### **CARDIUM COMPOUND**

**SERVO COAT 190** 

**BALMEROL BLUCOAT5** 

Indian Oil Corporation Limited

Balmer Lawrie & Co. Limited

#### GREASE

SERVOGEM EP2

CASTROL EPL2

**BALMEROL LIPREX EP2** 

Indian Oil Corporation Limited

Castrol India Limited

Balmer Lawrie & Co Limited

#### **ENGINE OIL**

15W40 API CH4 or higher

As recommended by engine manufacturer

Type of Personnel	At i	Vlanufacturer	's Works		At Site	
	No	Period	Total	No	Period	Total
Mech Engineer	1	1 weeks	1 man weeks		Week	Week
Elec Engineer	1	1 weeks	1 man weeks		Week	Week
Mech Supervisor	1	1 weeks	1 man weeks		Week	Week
Elec Supervisor	1	1 weeks	1 man weeks		Week	Week
Mech Fitter				9	1 Week	9man Week
Electrician				9	1 Week	9man Week
Operator				9	1 Week	9man Week
Total	4		4 man weeks	27		27 man weeks

Al Al

# L&T CONSTRUCTION EQUIPMENT LIMITED

3B, Shakespeare Sarani, Kolkata-700 071, P.O.Box: 619 • PHONE: 44002470 • FAX: 033-22821025/7587

#### Clause No. 7.1.d. General:

#### **Erection Programme:**

PERT Schedule for L&T 300	CKD-II (I	-II (Diesel Version Hydraulic Excavator)							
PERT Days	Da	3y1	Da	192	Da	y3	Da	1y4	Tools
Activity/Day Slot Half	H1	H2	H1	H2	H1	H2	H1	H2	
Positioning									
Setting Up									
Cleaning									HEMM
Marriage									Crane 40T
Torqueing									Torque Multiplier
Counter Weight Mounting									
Attachment Mounting									
Cabin Mounting									
Accessories, Electricals, & Safety Mounting									
Pre-Commissioning Check									
Commissioning									
Test Run									
Training									



A K

Α	Daily check/maintenance	Approx Time	Man Power	Avg Total Time
1	Checks for looseness of the external connectors	15 mins		
2	Visual checks for Hydraulic oil leakage	10 min		
3	Hyrdaulic oil level check	5 mins	5	- 1
4	Cleaning of under carriage	10mins		1hr
5	Cleaning & grease filling	15 mins		
6	External checks of the Engine	5 min	7	í

В	Every 300 hrs	Approx Time	Man Power	Avg Total Time
1	Replace Fuel filter( Both primary & secondary)	90 mins		
2	Clean air filter outer element		3	•
3	Clean fuel strainor			
4	Replace Lube oil filter			2 hr
5	Replace super by pass filter			
6	Check fan belt tension			
7	Checks & cleaning for dirt accumulation on cooler/radiator	30 mins	2	
8	Daily maintenance as per schedule A	As per schedule A		

С	Every 500 hrs	Approx Time	Man Power	Avg Total Time
1	Replace Hydraulic oil filter & breather	45mins	2	1 hrs 45 mins
2	Tooth point replacement	45 min	2	
3	Air filter replaced	15	1	
4	Daily maintenance as per schedule A	As per schedule A		

D	1st 1000 hrs	Approx Time	Man Power	Avg Total Time
1	Hydraulic oil change(1st change at 1000hrs) & Cleaning of Hydraulic tank			3 hr
2	Replace Hydraulic tank breather	120 mins		
3	Final drive oil change			
4	Alternator belt change	30 mins	1 6	
5	Counter bolt torque check	30		
6	500 hrs maintenance as per schedule C	As per schedule C	1	
8	Daily maintenance as per schedule A	As per schedule A		

E Every 1500 hrs	Approx Time	Man Power	Avg Total Time
1 Tapped setting	90 mins	2	1 hrs 30 mins
300 hrs maintenance as per schedule B	As per schedule B		

F	Every 2000 hrs	Approx Time	Man Power	Avg Total Time
1	Hydraulic oil change(1st change at 100Chrs) & Cleaning of Hydraulic tank		6	
2	Replace Hydraulic tank breather	120 mins		
3	Final drive oil change			
4	Counter bolt torque check	30 mins	1 1	
8	Alternator belt change	30 mins	1	3 hrs 30 mins
8	belt tainsioner check			
9	check fan belt & water belt check	30 mins	2	<b>.</b>
_ 5	500 hrs maintenance as per schedule C	As per schedule C		
7	Daily maintenance as per schedule A	As per schedule A	1	
G	1st 5000 hrs	Approx Time	Man Power	Avg Total Time
1	2000 hrs maintenance as per schedule F	As per schedule F		
10	Torque checking of all hardwares	60 mins	10	
11	Internal cleaning of coolers	120 mins		6 hrs
12	Denting ,Painting & washing	180 mins		

P

*



L&T Construction Equipment Limited Bellary Road, Byatarayanapura Bangalore - 560 092 Karnataka, INDIA

LTK /NEFT/ /2012-13

Τo

#### Sub: Details for National Electronic Fund Transfer

We Request and authorize you to effect payment through NEFT/RTGS to our bank account, subject to RBI guidelines .As per the details given below.

NAME OF BENEFICIARY

L&T CONSTRUCTION EQUIPMENT LIMITED

BANGALORE WORKS BELLARY ROAD

BANGALORE -560092

**BANK NAME & ADDRESS** 

NO 7, MG ROAD BANGALORE-560001 PH 080-25002023 FAX 080-41186520

Title of Account in the Bank

L&T CONSTRUCTION EQUIPMENT LIMITED

**BRANCH (OF BANK)** 

M G ROAD

MIRC CODE

560039002

A/C NUMBER

071-667638-001

**IFSC NUMBER** 

HSBC0560002

A/C TYPE

CASH CREDIT

PAN NUMER

AAACL4175C

Thanking you

For L&T CONSTRUCTION EQUIPMENT LIMITED

Sundeep 5. Chavan **Authorised Signatory** 

Certified that the particulars furnished above are correct as per

Bank's Stamp Dated: 21/5/13

Signature of the Authorised from the Bank

Tel: +91 80 2216 5100 Fax: +91 80 2363 6065 www.larsentoubro.com Registered Office: L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA

#### **INTEGRITY PACT**

Between

BHARAT COKING COAL LIMITED (BCCL) hereinafter referred to as "The Principal" And

"L&T Construction Equipment Limited" hereinafter referred to as "The Bidder/Contractor"

<u>Preamble</u>

The Principal intends to award, under laid down organizational procedures, contract/s for supply of 2.7 Cum Diesel Hydraulic backhoe Shovel (16 nos) & 3.2 Cum Diesel Hydraulic face shovel(02 nos) with MARC for 7 years. The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organisation "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 - Commitments of the Principal

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

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 him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.

The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.

The Principal will exclude from the process all known prejudiced persons.

If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder/Contractor

The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

The Bidder/Contractor 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 immaterial 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/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.

The Bidder/Contractor will not commit any offence under the relevant Anti-corruption Laws of India; further the Bidder/Contractor 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/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

(2) The Bidder/Contractor 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

I f 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

DI H I ITMA

entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor 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 transgressions 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.

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.

If the Bidder/Contractor 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. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.

Section 4 - Compensation for Damages

If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to 3 % of the value of the offer or the amount equivalent to Earnest Money Deposit/Bid Security, whichever is higher.

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 equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 – Previous transgression

The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

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

The Bidder/Contractor undertakes to demand form all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.

The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.

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 Bidders/Contractors/Subcontractors

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 Vigilance Office.

Section 8 - External Independent Monitor/Monitors

The Principal appoints competent and credible external independent Monitor for this Pact. 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.

The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.

The Contractor 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

N PL

grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality.

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.

As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, 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.

The Monitor will submit a written report to the Chairperson of the Board of the Principal 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.

Monitor shall be entitled to compensation on the same terms as being extended to/provided to Outside Expert Committee members/Chairman as prevailing with Principal.

If the Monitor has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

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

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 Chairperson of the Principal.

Section 10 - Other provisions

This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. DHANBAD (JHARKHAND).

Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

If the Contractor is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.

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 intensions.

For the Principal

For the Bidder/Co

Witness 1:

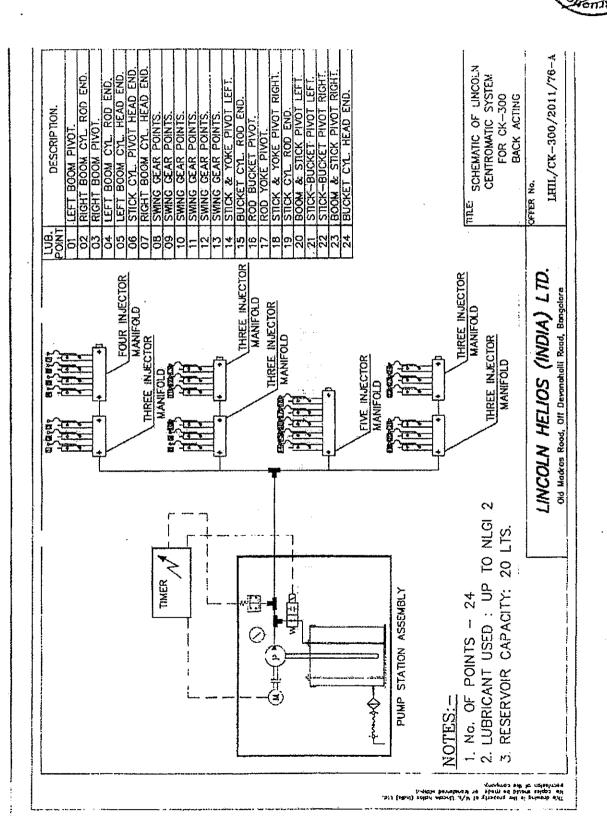
Witness 2: .......

Date 20.05.2013

Place KOLKala

A DI





H SS

## ANNEXURE-I Page 1 of 2

Name of the Company: Name of the Project:

**EQUIPMENT MODEL:** 

Shift:-

Date:-

**EQUIPMENT SERIAL NO:** 

Name of the Operator:-

Shift Hours	W	Vorking Hou	rs	Breako	lown Ho	urs	Maintenanace Hours	Idle Hours
110413	Initial HMR	Final HMR	Hours worked	MARC Holder A/c	BCCL A/c	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
				San de la constanta de la cons				
					****			
	<u> </u>							
				1				

Signature of BCCL representative

Signature of MARC Holder representative

* DI

ANNEXURE-I Page 2 of 2

***************************************	Γ	Details o	f Breakdov	vn		Fuel	Lub.	Time	Name of	Į.
B/d due to MARC Holder / BCCL A/c	B/d	Time of B/d	B/d	of	Description of Spares consumed	in ltrs.	Consump. in Itrs.	taken for repair	MARC holder person who attended B/d	which equipment made ready
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
MARC										
Holder					оположности можент положности в можент положности в можент положности в можент положности в можент положности				:	
	:									
										1
		·								
BCCL					:					
***************************************										
						***************************************				
										.,

Signature of BCCL Representative

Signature of MARC Holders Representative

do Di



Annexure – II Page 1 of 2

## MONTHLY MANAGEMENT REPORT (Shovel)

NAME OF THE COMPANY: NAME OF THE PROJECT:

EQUIPMENT MODEL:

**EQUIPMENT SERIAL NO:** 

#### DATE OF COMMISSION:

Shift Hours	Work-		Mian- tenance	Break	Down I	Percent- age	Percent-age Utilisation		
liouis	Hours	liouis	Hours	System/	BCCL	MARC		Availa-	Othioation
11.00	nouis	- Land	Hours	Categories	A/C	Holders A/C	Total	bility	Total and the second se
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
***************************************				Main motor					
****				MG set					
				Hoist System					**************************************
				Swing System					
				Propel System					
				Bucket					
				Tooth Points					
				Wire Ropes					
				Limit Switches					
				Undercarriage					
				Others					
								<u> </u>	
									***
				TOTAL					,
	_	1							
		Lucian							



Annexure – II Page 2 of 2

### MONTHLY MANAGEMENT REPORT (SHOVEL)

NAME OF THE COMPANY: NAME OF THE PROJECT:

# EQUIPMENT MODEL: EQUIPMENT SERIAL NO:

Details of Spares consumed			Details of asslys/sub assly replaced				Fuel	Lubricant
Item Description	Part No.	e de la companya de l	Description		1	worked before replacement / failure		-tion (Itres)
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
			· · · · · · · · · · · · · · · · · · ·			}		
				1				
			1		ļ			
					1			
					<u> </u>			-
					<u> </u>			
						1	1	
				<u> </u>				
					_	-		
								,
							-	

Signature of BCCL Representative

Signature of MARC Holders Representative

W H

## Check List at the time of hand over of equipment

#### **Hydraulic Shovel (Diesel)**

Engine
121121111

- 2 P.T.O
- 3 Cooler
- 4 Radiator
- 5 Hydraulic Pump
- 6 All Hydraulic Cylinders
- 7 Under Carriage (Rollers, Track Chain & Sprocket segments)
- 8 Bucket
- 9 Pin & Bushings
- 10 Automatic Fire Suppression system
- 11 A.C. of Operator cabin
- 12 Automatic Lubrication system
- 13 Control Valve
- 14 Track Motor
- 15 Other Hydraulic Motors
- 16 Boom
- 17 Arm
- 18 Steering system
- 19 Hydraulic tank
- 20 Lower frame
- 21 Revolving frame.
- 22 Warning lights & Alarms
- 23 Gauges & Indicators
- 24 Self starter
- 25 Alternator
- 26 Batteries

A K