



Under Jurisdiction of Dhanbad/Jharkhand Court Only

Bharat Coking Coal Limited

(A Miniratna Company)

A Subsidiary of Coal India Limited

Registered Office: Koyla Bhawan, Koyla Nagar, Dhanbad -826005 CIN:U10101]JH1972GOI00091

Website: www.bcclweb.in

Material Management Department

Level-III, Commercial Block Koyla Bhawan, Dhanbad-826005 (Fax No- 0326-2230183)

Phone No.0326-2230181

Email Id: gmmm.bccl@coalindia.in

Purchase Order

Ref: . BCCL/ PUR/419109/10KL Diesel Bowser/OTE/59/20-21/87

To

M/s Hindusthan Technologies Pvt. Ltd.

Shivapuri (Nimpur), P.O.Jagatpur

Cuttack ,Odisha-754021

Email: marketing@hindusthantechnologies.com/

admin@hindusthantechnologies.com , Mobile No. 9439695800

GSTIN: 21AACCH5297D1ZU

Vendor Category : MSE/NSIC

PAN- AACCH5297D

Date: 23.12.2020

Sub: Supply, Erection/Assembly, Commissioning and Performance Testing of 05 nos. of 10 KL Diesel Bowser along with all filters & O rings (including engine filters) required for warrant period i.e one year

Ref: Hindusthan Technologies Pvt. Ltd. Online offer vide Bid Id: 492910 dtd 11.02.2020 and subsequent Hindusthan Technologies Pvt. Ltd letters last Letter dtd 04.11.2020 & email dtd 05.12.2020 against open e-tender cum reverse auction no. BCCL/ PUR/419109/10KL Diesel Bowser/19-20/59 dtd 21.01.2020 [Tender Id: 2020_BCCL_162632_1, Cover-I opened on 12.02.2020 & cover-II opened on 27.07.2020].

Dear Sirs.

With reference to the above, we, for and on behalf of BCCL, hereby place PURCHASE ORDER on Hindusthan Technologies Pvt. Ltd. for the following items as per rate, terms and conditions indicated below as above Hindusthan Technologies Pvt. Ltd. referred offer has been accepted to the extent as indicated here under:

1 SCOPE OF SUPPLY-

	TE OF SOIT LI-	Otri	Unit Basic Rate	Total Landed Value	
Sl.	Item Description	Qty.	Unit Basic Kate		
No.		(Nos.)	(₹)	(₹)	
1	supply of tendered 10 KL Diesel Bowser and			×	
	Consumables for Warranty Period of 01 Year as per details given in Annexure-A;	05	₹ 32,00,362.00	₹ 1,60,01,810.00	
	Make and Model: Hindusthan Technologies Pvt. Ltd &			17 22	
	Diesel Bouser		7 184		
			IGST @ 28 %	₹ 44,80,506.80	
	Subtotal ₹ 2,04,82,316				
	TCS @ 0.075 % ₹ 15,361.7				
	Total Landed Rate on FOR Basis ₹ 2,04,97,678.				
	Total Landed Rate	on FOR I	Basis (rounded off)	₹ 2,04,97,679.00	

Note: All filters & O rings (including engine filters) required for warrant period i.e one year per equipment is as per

Supply Point: Equipment & Spares: Supply and billing will be from Jagatpur, Cuttack, Odisha-754021

2. Total Purchase Value: - (Equipment & All filters & O rings (including engine filters) required for warrant period i.e one year operation): Rs 2,04,97,679.00 (Rs Two Crore Four Lakhs Ninety Seven Thousand Six Hundred And Seventy Nine Rupees Only.)

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The above prices are FIRM and on FOR Destination basis inclusive of packing & forwarding, Freight & insurance. Safe arrival of the complete equipment upto destination stores shall be Hindusthan Technologies Pvt. Ltd.'s responsibility.

3. **GST**:

- a) GST shall be paid at actual against documentary evidence as applicable at the time of dispatch within the stipulated delivery period. The current rate of GST is 18% on equipment. Input Tax credit benefit shall be availed by the consignee, for which Hindusthan Technologies Pvt. Ltd should submit GST complaint Invoice. Hindusthan Technologies Pvt. Ltd have to comply with the terms and conditions of GST Act / rules such as issuance of Tax invoices, ensure payment of GST and enabling mechanism to facilitate Input Tax credit by BCCL. Hindusthan Technologies Pvt. Ltd should upload the Tax Invoices / Debit Note / Credit Note in GST Portal, make payment of GST and file returns in time, as prescribed under GST Act and Rule to facilitate BCCL to avail Input Tax Credit (ITC) as per eligibility under GST. In case BCCL is unable to avail ITC or any liability arises to BCCL due to failure on the part of Hindusthan Technologies Pvt. Ltd to comply the above provisions, the entire amount including Interest (if any) borne by BCCL shall be recovered from Hindusthan Technologies Pvt. Ltd. The present rate GST applicable on individual items of spares is as per Annex-B enclosed.
 - b) Invoice issued by Hindusthan Technologies Pvt. Ltd should contain following elements as per Section 31 of CGST Act, 2017 along with Rule 46 and 47 of CGST Rule, 2017:
 - Firm Name, address and GSTIN;
 - A consecutive serial number (not exceeding sixteen characters) containing only alphabets and/or numerals, unique for a financial year; (should not be hand-written)
 - Date of its issue;
 - Name, address and GSTIN/ Unique ID Number, if registered, of the recipient;
 - Name and address of the recipient and the address of delivery, along with the name of State and its code, if such recipient is unregistered and where the taxable value of supply is fifty thousand rupees or more;
 - HSN code of goods or Accounting Code of services;
 - Description of goods or services;
 - Quantity in case of goods and unit or Unique Quantity Code thereof;
 - Total value of goods or services;
 - Taxable value of goods or services taking into account discount or abatement, if any;
 - Rate of tax (CGST, SGST or IGST);
 - Amount of tax charged in respect of taxable goods or services (CGST, SGST or IGST);
 - Place of supply along with the name of State, in case of a supply in the course of inter-State trade or commerce;
 - Place of delivery where the same is different from the place of supply;
 - Whether the tax is payable on reverse charge;
 - the word "Revised Invoice" or "Supplementary Invoice", as the case may be, indicated prominently, where applicable along with the date and invoice number of the original invoice; and
 - Signature or digital signature of Hindusthan Technologies Pvt. Ltd or its authorized representative
 - GST Registration Number of BCCL in case of supply for Jharkhand is 20AAACB7934MFZB and in case of supply for WB is 19AAACB7934M2Z7. Hindusthan Technologies Pvt. Ltd bills should bear this number to enable BCCL to claim INPUT TAX CREDIT.
- c) Hindusthan Technologies Pvt. Ltd. has to ensure proper uploading in Hindusthan Technologies Pvt. Ltd return so that BCCL may be able to avail Input Tax Credit.

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- d) Hindusthan Technologies Pvt. Ltd. has to ensure that if BCCL does not be able to avail Input Credit due to Hindusthan Technologies Pvt. Ltds Limited's fault then the loss amount shall be recovered from Hindusthan Technologies Pvt. Ltds Limited's bill.
- e) The benefit of any extra input tax credit earned by Hindusthan Technologies Pvt. Ltd., if any, in future shall be passed on to BCCL.
- E-Way bill, if required, shall be arranged by Hindusthan Technologies Pvt. Ltd.
- g) HSN codes and GST rates of the items covered in the above supply order placed will be as under:

SI .	Item	HSN code	GST rate	
10.	Bowser	8704	28 % [IGST]	

Hindusthan Technologies Pvt. Ltd. GST details are as under: h)

Hindus	sthan Technologies Pvt. Ltd. GST details are as	ulluci.
SN	Particulars	Tilli 3 Details
211		M/s Hindusthan Technologies Pvt. Ltd.
1	Name	Public Limited Company
2	Constitution of Business	
3	Trade Type (Manufacturer/Dealer/Service	Manufacturer
	Provider)	
4	PAN	AACCH5297D
4		21AACCH5297D1ZU
5	GSTIN No.	ZIIIIIOOII

- Packing & Forwarding Charges: inclusive 4.
- Freight/Transportation Charges Inclusive Of Service Tax: Inclusive 5.
- Transit Insurance Inclusive Of Service Tax: Inclusive 7.
- TERMS OF PAYMENT: For Payment of equipment and consumable spares and consumables for first 12 months of warranty period from the date of commissioning of the equipment in Indian Rupees: 8.
 - (a) 80% value of the equipment and consumable spares and consumables for first 12 months of warranty period from the date of commissioning of the equipment and 100% GST along with 100% transportation & Insurance charges will be paid within 21 days after delivery and acceptance of materials at site at the consignee's end and submission & acceptance of Performance Bank Guarantee whichever is later. 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 and 100% erection and commissioning charges 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 signed by the concerned officials of the Project and counter-signed by the Area General Manager and HOD of Excavation Deptt. of the BCCL HQ, where the equipment has been deployed and confirmation of receipt of spares and consumables for first 12 months of warranty period from the date of commissioning of the equipment by the paying authority.

BCCL is making payment of Hindusthan Technologies Pvt. Ltd's bills through Electronic Fund Transfer (EFT). Hindusthan Technologies Pvt. Ltd is 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.

Hindusthan Technologies Pvt. Ltd E-Payment mandate is enclosed as Annexure-J



DELIVERY: Commencing within 3 months from the date of receipt of purchase orders and supply to be 9. completed within 6 months from the date of receipt of purchase orders.

Erection & Commissioning and Performance Testing Period: Within a week of receipt at site.

Erection/Assembly, Commissioning and Performance Testing: Hindusthan Technologies Pvt. Ltd shall 10 provide the Services of Specialist Technicians and labour to undertake the installation/erection/assembly, commissioning and any performance testing of the plant, Equipment and accessories supplied within a week of receipt. The technicians shall remain at site following commissioning until all necessary personnel are fully conversant with the maintenance and operation of the equipment.

If Hindusthan Technologies Pvt. Ltd fails to commission the equipment with in the specified period, Liquidated damages will be recovered @ 0.5% of the delivered/landed price of the equipment along with accessories per week or part thereof for the delayed period subject to a maximum of 10% of the delivered/landed price of equipment along with accessories. Wherever felt necessary, the limit of 10% can be increased to 15% at the discretion of Head

of the Materials management Division of BCCL.

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- LIQUIDATED DAMAGES CLAUSE: (i) In the event of failure to deliver 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, BCCL should have the right:
 - a) To recover from Hindusthan Technologies Pvt. Ltd as agreed liquidated damages, a sum of 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). Wherever felt necessary, the limit of 10% can be increased to 15% at the discretion of Head of the Materials management Division of BCCL.
 - b) or to purchase elsewhere, after due notice to Hindusthan Technologies Pvt. Ltd on the account and at the risk of the defaulting supplier the stores not supplied or others of 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 fully or partly.

f) Whenever, under this contract, a sum of money is recoverable from and payable Hindusthan Technologies Pvt. Ltd, BCCL 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 Hindusthan Technologies Pvt. Ltd in this or any contract should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay BCCL on demand the remaining balance. Hindusthan Technologies Pvt. Ltd shall not be entitled to any gain on any such purchase.

g) CGST, SGST or IGST will be levied as applicable as per the provision of GST Act and Rule thereon.

h) Hindusthan Technologies Pvt. Ltd will issue credit note as per the provision of Rule 53 of CGST Rule, 2017 on quality deduction or liquidity damage, if any arises

(ii) Compensation for not achieving guaranteed Availability:-

In the event that the Equipment fails to achieve the Availability herein provided during this twelve (12) month period, Hindusthan Technologies Pvt. Ltd shall be liable to pay to the Purchaser, as Penalty, a sum equal to, as indicated hereunder for each equipment :-

a) 1% of the delivered price of the equipment for every percentage reduction from the Guaranteed Availability for the first 5%

b) 10% of the delivered price of the equipment for reduction beyond 5% from the Guaranteed Availability .

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Hindusthan Technologies Pvt. Ltd has however the option to modify the equipment, if felt necessary, to bring its availability to the guaranteed level within three (3) months after expiry of initial guarantee period of twelve (12) months from the date of commissioning.

12. CONSIGNEE: The equipment allocated to the mine /projects/ areas as follows which is subject to change as

per the requirement of purchaser:

SI.	Name of the	Qty.	CONSIGNEE	
No.	Area	(Nos.)	CONSIGNEE	
1	Barora	01	Depot Officer, Regional Stores;Barora Area, Nawagarh Dhanbad, Pin-828306	
2	Govindpur	01	Depot Officer, Regional Stores, Govindpur Area, Dhanbad, Pin-828128	
3	Kusunda	01	Depot Officer , Regional Stores; Kusunda Area, Godhur, Dhanbad, Pin-828116	
4	Katras	01	The Depot Officer, Regional Stores, Katras Area, Dhanbad ,Pin-828121.	
5	Sijua	01	The Depot Officer ,Regional Stores, Sijua Area,RS Loyabad, Dhanbad Pin 828101	

13. PAYING AUTHORITY: The HOD (Finance)/MM, Koyla Bhawan:Koyla Nagar,Dhanbad

14. **COMPOSITE GUARANTEE / WARRANTY:** As indicated in Technical Specification (ANNEXURE-A)

15. **SECURITY DEPOSIT:** Hindusthan Technologies Pvt. Ltd will have to submit Security Deposit for the 3% (as per GM (MM), CIL officer order no.2086 dtd 26.11.20) value of the total landed value of the contract including all taxes, duties and other costs and charges without having any ceiling (i.e. Rs 6,14,931.00) in the form of Bank Draft /Bank Guarantee (As per format given in ANNEXURE-K) within 30 days from the date of order.

In case of FOR destination contract in Indian Rupees, the total landed value of the contract will be arrived at after adding GST and any other tax and duty, if applicable and any other cost and charge, if applicable, to the FOR Destination price of the ordered Equipment and all filters & O rings required for warranty period.

The Security Deposit Bank Guarantee shall remain valid up to 3 months after the supply and commissioning of all the equipment covered in the contract and will be released within 30 days after successful commissioning of all the equipment covered in the contract and on receipt of confirmation of Performance Bank Guarantee (s) for all the equipment covered in the contract. The Bank Guarantee for Security Deposit shall be extended till the Performance Bank Guarantee (s) are submitted by the firm, failing which Security Deposit will be forfeited.

The SDBG issued by issuing bank on behalf of the bidder in favour of "Bharat Coking Coal Ltd.," shall be in paper form (Stamp Paper) as well as issued under "Structured Financial Messaging System". Issuing Bank should send the

underlying confirmation to either of following banks:

Name of beneficiary	Name	Bharat Coking Coal Limited
& its details	Area	HQ,BCCL
	Bank Account no.	35160317947
1	Deptt.	MM Department
Beneficiary Bank,	State Bank of India	
Branch & Address	Main Branch Dhanbad	
IFSC code	SBIN0000066	

Or

	OI	
Name of beneficiary	Name	Bharat Coking Coal Limited
& its details	Area	HQ,BCCL
	Bank Account no.	019605001057
	Deptt.	MM Department
Beneficiary Bank,	ICICI Bank	
Branch & Address	ICICI Bank, Dhanbad	No. opposite
IFSC code	ICIC0000196	elfarshi

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Original copy of the Bank Guarantee issued by the Issuing Bank shall be sent by the issuing bank to MM department of BCCL.

16. **PERFORMANCE GUARANTEE:** In accordance with the provisions of clauses C.7.2.2and C.7.3 of the Technical Specifications, Hindusthan Technologies Pvt. Ltd 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.

Hindusthan Technologies Pvt. Ltd shall furnish a Performance Guarantee equivalent to 10% of the total value of the supply order I contract (by adding all .taxes such GST etc to the FOR destination price of the equipment ordered, in case of suppliers from purchaser's country and the estimated Marine Freight & Insurance, port charges and Customs Duty etc., in case of imported items).

This Bank Guarantee shall be initially valid for a period of 15 months from the date of commissioning of the equipment (The PBG(s) shall remain valid till 3 months after the completion of 12 months period from the date of commissioning of respective equipment covered in the contract) 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.

The release of the Performance Bank Guarantee(s) after above indicated period shall be subject to satisfactory performance of the equipment during 12 months period from the date of commissioning of the equipment and fulfilment of contractual obligations failing which, action for further extension or encashment of PBG, as deemed suitable shall be taken. Release of PBG for each equipment may be done separately on satisfactory performance of the respective equipment as above. Hindusthan Technologies Pvt. Ltd has to submit the Performance Bank Guarantee in INR.

The Performance Bank Guarantee shall be issued by a scheduled bank in the format attached as ANNEXURE -L and shall be irrevocable and unconditional and BCCL shall have the powers to invoke/en-cash it notwithstanding any dispute or difference between Hindusthan Technologies Pvt. Ltd and BCCL pending before the court, tribunal, arbitrator or any other authority.

In case of Performance Bank Guarantee, Hindusthan Technologies Pvt. Ltd may also please note the following: The Bank Guarantee issued by the Bank on behalf of Hindusthan Technologies Pvt. Ltd in favor of "BHARAT COKING COAL LIMITED" shall be in paper form as well as issued under "Structural Financial Messaging System". The detail of beneficiary for issue of BG under SFMS platform is furnished below.

		Name	Bharat Coking Coal Limited
Name of benefici	ary & its	Area	HQ,BCCL
details		Bank Account No	35160317947
		Deptt	MM Department
Beneficiary Bank	Branch	State Bank of India	A
&Address		Main Branch Dhanbad	
IFSC Code	1.1141.367	SBIN0000066	

Or Name Bharat Coking Coal Limited Name of beneficiary & its Area HQ,BCCL details Bank Account No 35160317947 Deptt MM Department Beneficiary Bank Branch ICICI Bank &Address ICICI Bank Dhanbad IFSC Code ICIC0000196

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The PBG issued by Issuing bank on behalf of Hindusthan Technologies Pvt. Ltd in favour of "Bharat Coking Coal Limited" shall be in paper form (Stamp Paper) as well as issued under "Structured Financial Messaging System". Original copy of the PBG issued by the Issuing Bank shall be sent by the issuing bank to BCCL. The total value of Performance Bank Guarantee is Rs. 20,49,768.00 Or Rs. 04,09,954/- per Equipment

17. PRICE FALL CLAUSE – Hindusthan Technologies Pvt. Ltd undertakes that it has not offered to supply/ supplied/ is not supplying same or similar product/ systems or sub systems at a price lower than that offered in the present bid in respect of any Organization/ Ministry/ Department of the Govt. of India or Coal India Ltd. and/or its Subsidiaries or other PSU or any other private organization during the currency of the contract and if it is found at any stage that same or similar product/ systems or sub systems was supplied by the bidder to any Organization/ Ministry / Department of the Govt. of India or Coal India Ltd. and/or its Subsidiaries other PSU or any other private organization at a lower price during the currency of the contract, then that very price will be applicable to the present case and the difference in the cost would be refunded by the bidder to buyer, if the contract has already been concluded.

INSPECTION AND TESTS:

- i) 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.
- ii) 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.
- iii) Should any inspected or tested Goods fail to conform to the specifications, the purchaser may reject them and the supplier shall both replace the rejected goods and make all alternatives necessary to meet specification requirements free of cost to the Purchaser.
- iv) The Purchaser's right to inspect, test and, where necessary, reject the goods after the Goods arrival in the Purchaser's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representatives prior to the Goods shipment from the country of origin.
- v) Material 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.
- vi) Nothing in these documents shall in any way release the supplier from any warranty or other obligations under this contract.
- vii) 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.

19. FORCE MAJEURE CLAUSE:

If the execution of the contract/supply order is delayed beyond the period stipulated in the contract/supply order as a result of outbreak of hostilities, declaration of an embargo or blockage or fire, flood, acts of nature or any other contingency beyond the supplier's control due to act of God, then the BCCL may allow such additional time by extending the delivery period as he considers to be justified by the circumstances of the case and its decision in this regard shall be final. If and when additional time is granted by the purchaser, the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended. Power failure will not be considered as a force majeure conditions.



- (a) The successful bidder will advise, in the event of his having to resort to this clause, by a registered letter, duly certified by the local chamber of commerce, or statutory authorities, the beginning and end of the causes of the delay, within 15 days of the occurrence and cession of such force majeure conditions. In the event of delay last out of force majeure, BCCL will reserve the right to cancel the contract, and provisions governing termination of contract as stated in the bid documents will apply.
- (b) For delay arising out of Force majeure, the bidder will not claim any extension in completion date for a period exceeding the period of delay attributable to the causes of force majeure and neither BCCL nor the bidder shall be liable to pay extra cost provided it is mutually established that the force majeure conditions did actually exist
- 20. SUBMISSION OF BILLS: For payment for equipment in Indian Rupees, Hindusthan Technologies Pvt. Ltd will submit the following documents along with bills to the paying authority:
 - a. Four copies of Hindusthan Technologies Pvt. Ltd's invoice, Pre-Receipted and Stamped showing Contract Number, Goods description, quantity, unit price, total amount and GST No. of Ultimate Consignee.
 - b. Receipted Challan/ Consignment Note of all the consignments.
 - c. Manufacturer's Test & Inspection Certificate.
 - d. Manufacturer's Warranty / Guarantee Certificate.
 - e. Lowest Price Certificate
 - f. Copy of Performance Bank Guarantee
 - g. Documentary evidence for freight and transit insurance charges up to the destination.
 - h. Copy of Certificate of Insurance.
 - i. Any other document(s) required as per contract.

21. 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 –I. In case there is a conflict in any particular term of the NIT with the General Terms, the terms of the NIT will prevail.

22. INTEGRITY PACT): The Integrity Pact document has been signed by you and the same is deemed to have been signed by BCCL authorities.

23. JURISDICTION:

Any dispute arising out of this enquiry shall come under the sole jurisdiction of the Dhanbad/Jharkhand High Court, (INDIA).

All Other Terms & Conditions shall be as per NIT & as per Hindusthan Technologies Pvt. Ltd techno-Commercial accepted offer.

Two copies of the order is being sent to Hindusthan Technologies Pvt. Ltd . Hindusthan Technologies Pvt. Ltd is advised to acknowledge the receipt and acceptance of the order by returning one copy duly signed and stamped to this office positively within 15 days, failing which this order shall be deemed to have been accepted by Hindusthan Technologies Pvt. Ltd for execution.

INDENT & BUDGET CERTIFICATION REFERENCE:

				THE PERSON NAMED IN COLUMN NAM
	A	rea Inden	t ref no. and Date	e-BC & e-FC Reference
SI	Area	Qty	Indent no	
1	Barora	01	RS/BA/19-20/06 dtd 20.05.119	e.B.C.No.BCCL/C&B/CAP/REG.PN:25/SN:1
2	Govindpur	01	B-IV/19-20/36 dtd 29.05.19	0/eBCNo:706 Dated;05.12.2020, HEAD:
3	Sijua	01	NOCP/18-19/02 dtd 11.04.18	HEMM, Sub Head-HEMM New Job, File Org Authority: GM(Excvn)Hq, UNIT CODE: 2200
4	Kusunda	01	BCCL/KA/19-20/Indent/03 dtd 30.04.19	for amount of Rs 2,04,97,679.00
5	Katras	01	AKWMOCP/406/19-20/200062 13.05.19	e. F.C . No:-458 dtd 22.12.2020 for amount of Rs 2,04,97,679.00
	IR No.419109 dtd 13.12.19			185 2,04,97,079.00

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	Enclosures			
SL ANNEXURE DESCRIPTION		DESCRIPTION		
1	ANNEXURE - A	Technical Specifications Comprising Schedule Of Requirement; Parts I,II, Schedule Of Requirements Of Service, Technical Specifications Preface, A. Scope Of Supply, B. Specific Project Requirements, C. General Requirements, D. Equipment Specification		
2	ANNEXURE - B	All filters & O rings (including engine filters) required for warrant period i.e one year per equipment		
3	ANNEXURE - C	List of Tools to be provided with Bowser		
4	ANNEXURE – D	List of Major Bought Out Items		
5	ANNEXURE – E	Technical Details offered		
6	ANNEXURE – F	Details of Nearest Depot/Warehouse and service facility available		
7	ANNEXURE – G	Quality Assurance		
8	ANNEXURE – H	Technical Parameter sheet		
9	ANNEXURE – I	General Conditions of Contract		
10	ANNEXURE – J	Bank Details for Electronic Payment		
11	ANNEXURE – K	Performa of Security Deposit Bank Guarantee		
12	ANNEXURE - L	Performa Of Performance Bank Guarantee		

Yours faithfully,

For & on behalf of Bharat Coking Coal Limited

(Alok Kumar) DM(MM)

A.K.Sinha)′ CM (MM)

[Note: - This is issued with approval of competent authority. This order is placed against the indent Ref no. REVISED/INDENT/HEMM/CAPITAL/10KL Diesel Bowser/19-20/51 dated 17.07.19 of GM (Excavation)/HOD, Excavation Department, BCCL HQ.]

Copy to:

- 1. GM(Excv) HOD, Koyla Bhawan: Koyla Nagar, Dhanbad
- 2. The HOD (Finance) MM, Koyla Bhawan: Koyla Nagar, Dhanbad
- 3. The GM(Area), Barora/Govindpur/Sijua/Kusunda/Katras Area, BCCL
- 4. GM/GM(MM), ECL/CCL/WCL/SECL/NCL/MCL
- 5. The Depot Officer , Regional Store, Barora/Govindpur/Sijua/Kusunda/Katras Area , BCCL
- 6. Tech-cell, MM Division, Koyla Bhawan: Koyla Nagar, Dhanbad
- 7. The Independent External Monitor for Integrity Pact :-
- i) Shri Aditya Prakash Mishra IRSE (Retd.) Address: Flat No.-24, Aster-1 , Vatika City, Sohna Road, Sector-49 , Gurgaon-122003
- ii) Shri Pramod Deepak Sudhakar , Address: A-002, Stellar Park Apartments, C-58/42, Sector-62, Noida (UP)-201301

Annexure-A

Schedule of Requirements

Part I:

S.No	Brief Description of Goods & Services	Quantity	Expected Delivery Schedule at Site
1	10 KL Diesel Bowser	05 No	Commencing within 3 months from the date of receipt of purchase orders and supply to be completed within 6 months from the date of receipt of purchase orders.
2	Ancillary Equipment and other requirements for each of Item no.1 as specified in Technical Specifications.	In accordance with item 1	Delivery to be made with Diesel Bowser.

The quantities of equipment against which this procurement is being made are as follows:

SI No.	Project with Consignee Address	Total Requirement	
		Under NCD	Under PCD
1	Barora	01 No	Nil
2	Govindpur	01 No	Nil
3	Kusunda	01 No	Nil
4	Katras	01 No	Nil
5	Sijua	01 No	Nil

Part II:

Sl. No	Brief Description of Services	Period/Quantum
1	Training of Purchaser's Personnel at the manufacturers works or elsewhere outside India.	Please refer to Schedule of Requirements of Services later in this Section and to the Technical Specifications.
2	Training of Purchaser's Personnel on Site.	Please refer to Schedule of Requirements of Services later in this Section and to the Technical Specifications.
3	Assembly and erection of equipment at Site in accordance with the Technical Specification and Conditions of Contract.	To be specified by the Bidder to comply with the Technical Specifications and the terms and Conditions of Contract.

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Schedule of Requirements of Services

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

- Type test on each equipment included in the technical specification and offered in the bid.
- II. Providing Services of Supplier's qualified engineer(s)/personnel for:
 - A. unloading, transportation to site, storage at site and/or
 - B. Transportation from storage to erection site, installation, testing and commissioning.
- III. Training of Purchaser's Personnel:

BCCL's estimates of the minimum training requirements (in terms of Purchaser's personnel, periods and locations) are given in the following table. These estimates relate to the total number of items of equipment specified in Part I

Type of Personnel		At Manufac Worl	turer's	N.			Aı	Site	
	No	Period	Te	otal	No	1	Period	Total	
Mech Engineer		weeks		weeks		1	Week		Week
Elec Engineer		weeks		weeks		1	Week		Week
Mech Supervisor		weeks		weeks		1	Week	14	Week
Elec Supervisor		weeks	es estados	weeks		1	Week		Week
Mech Fitter			47.40.3			1	Week	N/F-SG	Week
Electrician						1	Week		Week
Operator						1	Week		Week
Total				weeks					weeks

Definitions:

Mech/Elect Engineer-

Graduate Engineer having basic knowledge of the

eauipment

Elect/Mech Supervisor -

Diploma Holder Engineer having basic knowledge of the

equipment

Mech

Un-skilled, semi-skilled and skilled.

Fitters/Electricians/Operators

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Technical Specification

Preface -

Introduction

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

The Technical Specifications are presented in four parts as follows:

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

D. Equipment Specifications

A. Scope of Supply

A.1 Equipment Package

A.: to manufacture and supply 10 KL diesel bowser required for carrying diesel from surface to the coal face inside the coal mines. The scope of works includes procurement of Truck chassis, fabrication of bowser unit over truck chassis with necessary pumps, digital metering unit and diesel dispensing arrangement, supply and fitment of safety items, one spare wheel fitted with tyre & tube, obtaining necessary safety and other clearance/approvals from Govt. and other regulatory bodies.

A.2 Supplementary Items

I. First fill of all oils, grease and lubricants needed for test and commissioning of equipment.

II. The equipment shall be provided with a comprehensive tool kit, which shall include any special tools required for erection, commissioning and for the maintenance and repair of all the equipment.

III. All filters & O rings (including engine filters) required for warrant period i.e one year. List of such spares justifying the total requirement as per maintenance schedule should be submitted.

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A.3 Information and Drawings

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

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

One (1) copy to each project site; and

One (1) copy along with soft copy to the General Manager(Excv.), BCCL HQ. Koyla Bhawan.

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

One (1) copyto each project site; and

One (1) copy along with soft copy to the General Manager (Excv.), BCCL Hqrs. Koyla Bhawan.

The Supplier shall also submit (in the same number of copies) the data identified in the specifications for each item of Equipment proposed. In addition to the Equipment drawings requested, The Supplier shall supply detailed Equipment's drawings illustrating major assemblies' locations, foundation and placement for items such as Prime Mover, Transmission, Final Drive and other installations/ Systems.

A.4 Erection/Assembly, Commissioning and Performance Testing

The Supplier shall provide the Services of Specialist Technicians (refer Part-C3) and labour to undertake the installation/erection/assembly, commissioning and any performance testing of the plant, Equipment and accessories supplied within a week of receipt.

The technicians shall remain at site following commissioning until all necessary personnel are fully conversant with the maintenance and operation of the equipment.

A.5 Training

The supplier in consultation with the project in-charge / HOD [Excavation] of the respective site shall make available experienced personnel to conduct training of engineers, supervisors, technicians and operation personnel for suitable period from the date of issue of acceptance certificate of the equipment. The training shall cover the following:

- a) Equipment system, safety and risk assessment
- b) Equipment operation and maintenance
- c) Trouble shooting, localization of fault and their remedies covering:
- 1. Electrical and electronics
- 2. Mechanical
- 3. Hydraulic system
- 4. Lubrication system
- 5. Pneumatic system etc.

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

B. Specific Site Requirements

B.1 Project Specific Requirements

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

B.1.1 Opencast Projects

All the Opencast Project is owned by the Bharat Coking Coal Limited, a wholly owned subsidiary of Coal India Limited (the "Purchaser"). The mine is located partly in the Dhanbad District of Jharkhand approximately 30 Km from Dhanbad railway station.

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Part C.

General Requirements

Geography and Climatic Conditions

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

Climate:-

The climate is sub-tropical to tropical, dusty, with a hot and humid atmosphere. Monsoon rains occur in the period from June to October.

Ambient Conditions:-

Relative Humidity -

Maximum 98%

Temperature -

Minimum 0° C

Rainfall:-

Maximum 50° C The mean annual rainfall is 1,000mm, 90 to 95 % of which may fall in rainy season from June to

Wind:-

April to September -

South to South Westerly

Speed:-

October to March - North Westerly 8 km per hr average

100 km per hr maximum

C.2 Goods (Equipment and Machinery)

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

In general, all items shall be:

designed and constructed to handle without overload and for the working hours stated,

the maximum volumes/rates specified:

designed to facilitate ready access, cleaning, inspection, maintenance and repair of

component parts;

designed to facilitate rapid changeover of consumable items.

The component parts of all items shall, wherever possible, be selected from the standard ranges of reputable manufacturers. The Equipment and accessories shall be physically robust and where necessary capable of dismantling for transportation and ready re-assembly using simple tools. All Equipment items provided shall be designed to be compatible within the proposed overall Scope of Supply.

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

safely and efficiently.

All workmanship and materials shall be of first class quality in every respect. All parts and surfaces, which are exposed to corrosive environment, shall be suitably protected to prevent any effects of corrosion or erosion.

C.3 Services

The supplier shall be responsible for the erection and commissioning of the equipment atsite. The supplier shall depute qualified and competent Engineer(s) and specialist technicians to supervise the entire assembly, erection and commissioning of equipment free of cost.

Standards

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

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The equipment shall be to the approval of the Statutory Government Authorities including Director General of Mines Safety (DGMS) having jurisdiction over the Equipment and its use.

The system of units for all measurements shall be the System'e International d'Unites (S.I.)

The Diesel Bowser in all respect shall conform to latest Central Motor Vehicles Rules for mass emission standard at the time of supply of equipment.

Petroleum Rules for design and construction of Diesel Vehicles for transporting petroleum bulk should be complied.

Approval of drawing and dimension with specification of the proposed Diesel Bowser body from Chief Controller of Explosive (CCOE), Petroleum and Explosive Safety Organization (PESO) and getting the new fabricated Diesel Bowser inspected and passed from PESO will be the sole responsibility of bidder.

Registration of the Equipment from RTO Dhanbad, Jharkhand will be the sole responsibility of the supplier.

C.5 Suppliers Responsibility

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

If the Supplier observes that this Specification document contains any anomalies, ambiguities, flaws, errors or omissions, the Supplier shall immediately bring these to the attention of the Purchaser but not later than 15 days prior to the due date of opening. The Supplier shall be responsible for the testing and commissioning of the Equipment and ensure that it meets the requirements as specified. The commissioning and setting to work of the whole Equipment Supply package shall be carried out under the supervision of the Supplier in conjunction with the Purchaser's nominated personnel.

C.6 Spare Parts Provisions

C.6.1.a. Availability of Spare Parts.

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

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

The supplier is required to furnish the details of all bought-out items as indicated in the technical specification against "Information to be provided by the bidder". The bidder has to furnish a certificate indicating therein that "All other components not identified/ mentioned herein are manufactured by the bidder at their works exclusively i.e. the components are propriety of bidder's firm."

C.6.2 Provision of Spare Parts

C.6.2.1 Within the Contract Price, the Purchaser shall agree to purchase all filters and O rings including standard engine filters required for minimum one year of operation of each equipment. The Bidder shall stock sufficient fast moving & maintenance and other spares in their Local Depots to ensure maximum availability of their equipment

C.6.3. Emergency Spare Parts

The Bidder shall ensure that Spare Parts required urgently by the Purchaser for repair of breakdown equipment are supplied at overriding priority.

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C.6.3.1Lifetime Spare Parts

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

(a) give not less than six months notice in writing of its intention to terminate production in order to permit the

Purchaser reasonable time in which to procure needed requirements; and

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

(c) Any change in part number or superseded part number should be informed to the HOD of Excavation department / MM department of BCCL hqrs. and the project site wherever the equipment is operating.

In any event, the Supplier shall not seek to terminate manufacture of spare parts for a period of not less than (10) years from the date of completion of warranty period

C.6.4 Oils, Lubricants and Fluids

Not less than three (3) months before the scheduled date for Acceptance, the Supplier shall provide to the Purchaser a detailed schedule of all necessary oils, lubricants, fluids for the operation and maintenance of Equipment. The schedule shall indicate estimated annual consumption and specify the appropriate international standard number or the name and reference number of an equivalent available in India considered to be acceptable by the Supplier.

C.6.5 General

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

C 7 Availability Provisions

C.7.1 Introduction

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

C7.1.2 Where Equipment supplied under the Contract fails to meet the criteria of the Availability Guarantee, the Supplier shall, at its own suitably qualified and experienced personnel at Site to demonstrate to the Purchaser's satisfaction that the required level of availability can be achieved and maintained.

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

C.7.2 Guarantee

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

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

Method of Assessment:

The following calculation shall determine the availability of the Equipment:

% Availability= Scheduled Available Time - Downtime Scheduled Available Time

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Scheduled Available Time shall equate to 24 hours daily.

Downtime:-

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

- a) routine servicing and maintenance in accordance with the manufacturer's published recommendations, including changing oils, oil filters and air filters; lubrication; changing identified consumable or wear parts.
- b) planned preventative maintenance programmes; It shall not however include:
 - I. damage due to abusive use or incorrect operation methods by BCCL;
 - II. accidents;
 - III. strikes or stoppage of work by BCCL 's personnel;
 - IV. natural disaster;

V. lack of Spare Parts not attributable to a failure of the Supplier, it's Agents or Representatives.

Downtime shall also specifically include all hours lost due to failures determined to be guarantee failures. The Supplier shall provide a schedule of maintenance required to carry out (a) and (b) above for the first three years of operation and shall state the number of hours required to carry out each maintenance task. The time stated shall, with the agreement of the Purchaser, form the basis of the assessment of the availability. This schedule of tasks and time will be reviewed periodically by the Purchaser and the Supplier, jointly, to monitor the practicality of the schedule.

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

- 1. Providing normal and proper maintenance, including preventative maintenance in accordance with the Supplier's standard/published recommendations, and making all necessary repairs using only spare parts provided by the Supplier in accordance with the requirements specified in part B6. 2. Providing co-operation to all Supplier's authorised representatives, complying with all reasonable procedural suggestions to improve efficiency of machine operation or reduce downtime.
- 3. Where appropriate, providing and maintaining such conditions as:
 - Proper electrical Supply
 - Terrain Area
 - Bench preparation
 - · Reasonable floor conditions
- 4. Providing all Suppliers's authorised representatives access at all reasonable times to the machine service and repair facilities.

Maintaining a logbook for each shift wherein the working hours, breakdown hours, maintenance hours, idle hours, etc. shall be recorded. This record will be available for examination and signature by the Supplier's representative.

C.7.3 Effect and Duration of Guarantee

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

C.7.3.2 This Guarantee shall remain effective for twelve (12) months from the date of commissioning, irrespective of the hours operated by the Equipment during the period of the guarantee.

C.7.3.3 In the event that the Equipment fails to achieve the Availability herein provided during this twelve (12) month period, the Supplier shall be liable to pay to the Purchaser, as Penalty, a sum equal to, as indicated hereunder for each equipment:

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a) 1% of the delivered price of the equipment for every percentage reduction from the Guaranteed Availability for the first 5%

b) 10% of the delivered price of the equipment for reduction beyond 5% from the Guaranteed Availability. The Supplier has however the option to modify the equipment, if felt necessary, to bring its availability to the guaranteed level within three (3) months after expiry of initial guarantee period of twelve (12) months from the date of commissioning.

C.8 Deemed Breakdown

When the supplier is unable to supply the replacement of a failed part under warranty within 21 days of giving intimation by the consignee and if the machine is commissioned by using the spare from the stock of the project the period (after 21 days) till the supplier replaces the part under warranty shall be treated as "Deemed Breakdown" (the credit for keeping machine available shall not be given to the supplier).

C.9 Composite-warranty/guarantee:

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

a) In accordance with the contract specifications .

b) The equipment will be warranted against any manufacturing defects/workmanship for a period of 12 months from the date of commissioning or 18 months from the date of receipt and acceptance. Any defect observed on this account shall be attended to immediately and in no case beyond a period of one month.

The warranty shall cover for total equipment so that ultimate responsibility lies only with the Equipment Bidder although components may be supplied by different suppliers to the Bidder.

C.10 Special Condition

The offered type & model of equipment shall have proven performance as per the Eligibility Criteria for proven supplier for at least one year completed on or before the date of opening tender with same offered configurations, which means the offered configuration of major assemblies/ subassemblies such as Engine, Splitter Box/ PTO assembly (if applicable), Brake system Hydraulic System and work attachment fitted on the quoted model of machine should be same as that of machine supplied in the past and have proven performance for at least one year completed on or before the date of opening of tender. The clear, legible & complete order copies along with all addendums/ Annexures shall be submitted along with the offer or else the offer shall be treated as non-responsive. If demanded by BCCL, the original order copy against proven-ness shall have to be shown for verification. The onus of providing necessary proof documentarily that all offered major assemblies have proven status lies on the bidder.

C.10.1 Bidder to upload as a separate attachment, scanned copies, ink signed and stamped, of supply orders with all addendums/Annexures received by them for establishing proven status. In case they are unable to provide the same due to confidentiality laws of particular country, a scanned copy of such laws is to be enclosed along with the offer for claiming exemption from submitting the supply order/contract copies and in such cases the bidder has to enclose a Customers List for the quoted Model of Equipment duly signed by the Original Equipment Manufacturer, clearly indicating the Customer Name & Address, Contract No. & date. Machine Sl. No., date of commissioning, guaranteed annual availability as per the performance guarantee clause of the supply order/ contract and actual achieved annual availability, for minimum 01 year from the date of commissioning, for each equipment supplied – SUBMITTED IN PROVENNESS DOCUMENT.

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C.10.2 Bidder to upload as a separate attachment a scanned authenticated copy(s) of performance report of previous purchaser duly ink signed with official stamp, conforming that the quoted Model of equipment has performed satisfactorily for a minimum period of 01 year from the date of commissioning of the equipment (supplied during the last 05 years, as on the date of opening of the Tender) and the desired parameters of performance (Guaranteed availability) of the equipment stipulated in the supply order received and executed have been met and no warranty / guarantee claim is pending against the supply orders received and whose copy(s) enclosed by the bidder along with their offer to establish their provenness for the quoted Model of Equipment – SUBMITTED IN PROVENNESS DOCUMENT.

C.10.3 Bidder to upload as a separate attachment a scanned authenticated copy(s) of self-certification duly ink signed by the bidder with official stamp, confirming that the quoted Model of equipment has performed satisfactorily for a minimum period of 01 year from the date of commissioning of the equipment (supplied during the last 05 years, as on the date of opening of the Tender) and the desired parameters of the performance (Guaranteed availability) of the equipment stipulated in the supply order received and executed have been met and no warranty / guarantee claim is pending against the supply orders received and whose copy(s) enclosed by the bidder along with their offer to establish their provenness for the quoted Model of Equipment – SUBMITTED IN PROVENNESS DOCUMENT.

C.11 Quality Assurance

C.11.1 The Supplier should furnish in detail its quality assurance plan for various stages of manufacture. The Quality Assurance plan shall comply with an internationally recognised quality assurance standard such as ISO 9000 or latest

C.11.2 The Supplier shall provide facilities to Purchaser or their authorised representatives for progress inspection during manufacture at his works and furnish all test data available in this regard for quality control, both for bought out items and his own manufactured items.

C.11.3 The Purchaser or his agent, when so required by him, shall also be provided with samples of "bought-out" materials for the purposes of undertaking independent tests, which independent tests shall be at the expense of the Purchaser.

C.12 After Sales Service/Product Support

The supplier must have adequate facility for product support for such machines in India with nearest Depot/Warehouse, Service facility and Personnel. Details of such facilities are to be mentioned at Clause 6 of Equipment Specification.

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PART D:- EQUIPMENT SPECIFICATIONS.

Scope of Specification

D.1. This specification is intended to cover the technical requirements for the design, manufacture, testing, delivery, on-site erection and commissioning of fully Built-up Diesel Bowser of capacity 10 (Ten) KL required for carrying diesel in the open cast mines of BCCL which includes truck cab – chassis, fabrication of bowser unit mounted on a suitable new truck chassis with necessary pump(s), metering & diesel dispensing unit/arrangement, etc.

D.2. References

The offered 10 KL Diesel Bowsers with its Prime mover shall comply appropriate current Indian/international Standards, codes of practices, statutory rules & regulations, safety codes & practices, DGMS Rules & Regulation, MOST/CMVR/TAP115/116 Regulations, RTO Rules & Regulations, Environment Protection Acts / Rules etc. The detailed list and description of references complied by the offer shall be submitted with the offer. The Engine of the Prime mover shall be environmental friendly and comply with minimum BS IV/ Euro IV standard and shall meet all operational safety norms. Any other statuary requirement & norms and details of such norms followed, should be mentioned in the offer.

D.3. Design Criteria

- a. The Diesel Bowsers shall be capable of operating for protracted periods on a system of 3 shifts each of 8 hours duration per day throughout the year in the climate of sub-tropical, dusty, cold, hot & humid, heavy rainfall region.
- b. The Diesel Bowsers shall be designed for heavy duty application and off the road & on road operation capable for carrying 10 KL of fuel at the coal mine area and their transport from rough terrain area of open cast mines as well as metal road in the aforesaid operating conditions.
- c. The Diesel Bowsers shall be as per Regulation of Road Traffic or Motor Vehicle Act.
- d. The Diesel Bowsers shall be designed as per the Regulations of Chief Controller of Explosives (CCOE) and Petroleum and Explosive Safety Organization (PESO).
- e. The Diesel Bowsers shall be suitable painted for protecting from the weathering effects.

D.4. Technical Parameter/ Specification

The Diesel Bowsers of 10 KL capacity shall comply with the following technical parameter/specifications:

D.4.1. Truck Cab Chassis

The Diesel Bowser shall be fabricated and mounted on Full Front Control Truck Cab Chassis of suitable Gross Vehicle Weight (GVW) of Truck of TATA / ASHOK LEYLAND/EICHER/Equivalent Indian reputed manufacturers make having facility of PTO unit to power Diesel Pump(s). New PTO gear pump & metering unit of adequate rating shall be provided at suitable location.

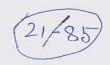
The Cabin shall be safe, spacious, standard driver's adjustable seat & co-driver seat with seat belt, cabin light, head lights, doors, windows, wind shield glass, wiper & washer, rear view mirror, Driver backlit dash board/console fitted with gauges/indicators & all safety features.

D.4.2. General Treatment of all Metals

All steel plate and sheet structures and other components used for fabrication of bodies should be properly cleaned. Rust removal/prevention with chemical process like phosphate & anticorrosion zinc chromate red oxide primer/paint should be done before fabrication.

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D.4.3. Tank details

- **a.** The tank should be machine rolled elliptical in shape, maximum width of any part of tank body should not be extended beyond the tyres to meet RTA regulation.
- b. Capacity of tank should be able to carry 10000 Litres of fuel and unlace should be provided as per Rule.
- c. The tank should be provided with a ladder to climb up to top with its rugs of chequered plate.
- d. The tank should be made up of min. 3.15 mm MS sheet 100% electrically welded at joints from both inside & outside. Dished end and baffles should be made of min. 3.15 mm MS sheets.

Tank should be divided in to 03 compartments transversely. The tank should be anchored/mounted. (for point mounting) by means of mild steel saddles fabricated from 12mm thick MS plate, base plates means of mild steel saddle fabricated from 12mm thick MS plate, base plate 25mm thick, hard rubber packer sandwiched in between base plates and fastened with chassis by means of not less than16 mm MS bolts and nyloc nuts. Each compartment should be provided with manhole. The tank should be securely anchored/ mounted in a manner that will not introduce undue concentration of stress, impair the stability as performance of the vehicle and allow any movement between the tank and the vehicle due to starting, stopping and turning. All stops and anchors used to anchor a tank to a tank to the vehicle shall be installed in such a manner that it provides readily accessible for the inspection and maintenance.

e. Each compartment of tank fitted with a discharge faucet ending in a common manifold. Immediately before the manifold, each such discharge pipe should be fitted with a heavy duty tested high quality gate valve/shut-off valve for opening and closing supply of manifold. The bottom outlet of each compartment of tank should have heavy duty shut off valve located inside the tank shell or in the sump forming an integral part of the shell as per recommendation of CCOE, Nagpur. The opening lever of shut off valve should be housed in a secondary control box in easily accessible position but remote from all openings and discharge faucets at the rear part of the Bowser. A shear section which will break under shall be provided between the internal shut-off value and the discharge faucet. The shear section shall be located as close as possible to the internal shut-off valve.

D.4.4. Material construction of tank

The tank shall be constructed of iron or steel having the following physical requirement and thickness of metal or of any other material approved by the Chief Controller.

Physical requirements

Yield point: Minimum 1700 kg/cm2 Ultimate strength: Minimum 3100kg/cm2

Minimum elongation on a standard 5cm gauge length: 20 per cent.

D.4.5. Venting

Every compartment of tank should be fitted with an independent vacuum and pressure operated vent with a minimum effective opening of 3Sq. cm., the opening being covered with two layers of non-corroding metal wire gauge having not less than 11 meshes per centimeter.

The vent shall be so arranged as to limit the pressure within the compartment to 0.21kg/cm2 and the vacuum to 5 centimeter water gauge.

EMERGENCY VENTING for fire exposure:- In addition to normal venting as indicated above every compartment of the tank shall be fitted with an emergency venting facility which shall be of the fusible type so as to provide a minimum fire venting opening having a net area in square centimeter equal to 8 plus 4.3 times the gross capacity of compartments in kiloliters.

The emergency vent shall be designed as to prevent loss of liquid through the vent in the case of vehicle upset in the case of pressure rise when in the upset position. Fusible vent shall be actuated by elements which will operate at a temperature not exceeding 93 degree Celsius.

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D.4.6. Top filling Pipe The top filling pipe shall be drawn close to the bottom of the tank. The inner end of the filling pipe shall be fitted with a proper splash spill proof device and the outer end threaded or so designed to ensure leak proof connection with the filling hose. The outer end of the filling pipe shall be fitted with an oil tight locker cap with chain.

D.4.7. Tank Gauging Arrangement

Each compartment shall be fitted with a dip pipe, calibrated dip stick & shall be carried to the bottom of the tank and opening in the dip pipe, except the capped top opening, shall be covered with two layers of wire gauge having not less than 11 mess per centimeter. The dip pipe shall be fitted with an oil tight locker cap with chain.

D.4.8. Tank over turn protection.

All tank top fittings shall be protected from damage in the event of overturning of the vehicle chassis on which it is mounted. Protection of tank fitting should be provided by enclosing them within the contour of the shell or within a rigid coming welded to the tank shell, the area enclosed by such protection shall be adequately drained and provided with plugs or cut-outs, to enable the section to be gas-free completely before repair.

D.4.9. Discharge metering arrangement

a. Centrifugal pump with mechanical seal having suction and discharge 2"x 2" with 1.5" outlet to be connected through separate filter with air eliminator to bulk metering pump. The pump and manual flow meter indicator should take drive through P.T.O fitted to the side opening of gear box of truck cab-chassis. Capacity of discharge should be 100 to 150 Ltrs. per minute through gun of 1" outlet size.

b. The manual flow meter should be certified by weight and measure department Government of India within a range of +/- 0.1%. Flow meter should have ATEX or Equivalent approval for safety standard. The manual flow meter shall also be approved by CCOE, Nagpur. Filter with air eliminator shall be provided for correct meter

eading.

c. Hose winding arrangement Provision of a hose drum wound arrangement for 1" dia fuel dispensing hose of 15 meter should be provided with sprocket and bevel gear system to facilitate drawing and winding hose. One fuel dispensing hose reel of 15 meter long of 1"diameter shall be fitted with winding device & one addition fuel dispensing hose reel shall also be provided.

D.4.10. Safety arrangements

The Diesel Bowser should be provided with safety arrangement which includes following:

a. First aid box complete conforming to IS 13115(B) (1991) or its latest amendment.

b. Portable fire extinguisher of suitable type for firefighting Petroleum approved by Inspector of Explosive.

c. Manhole covers, accessories ladder, mudguard for the rear dual wheel.

- d. Fire resistance screen between driver cabin and diesel tank (as per petroleum rule).
- e. Exhaust silencer at approved location & approved spark arrestor flame trap.

f. Emergency shut –off value.

g. Inspection lamp having min 15mtr. cable with power tapping facility from driver cabin.

D.4.11. Painting Should be cleaned free from rust and dirt and treated with anti-corrosive primer and one under coat and two finish coats of synthetic enamel paint to desire shade. Tank should be conspicuously/noticeably marked on each side and rear thereof in letters at least 7 cm high on a background of sharply contrasting colour as "INFLAMMABLE" and "Diesel" as per statutory requirement. Emblem of Coal India & letters like "Bharat coking Coal Ltd., (A Government of India Undertaking), A Miniratna Company" should also be written on the body of Diesel Tank.

MAK

Quy

(23/85)

D.4.12. Driver's Cabin

It should be provided with seating arrangement of driver and co-driver. The entire cabin should be fabricated with M.S sheet as required complete with dash board, doors, window, glasses, cabin light etc. There should be door stopper to prevent the door from opening beyond the limit necessary for the easy bearing in and out of the cabin along with two fix type peeping windows in the back wall of the cabin. All glasses should be of toughened quality of minimum 5.5 mm thick clear glasses.

D.4.13. Testing of Tank.

Each compartment of tank shall be tested by responsible competent person by hydrostatic pressure of not less than 0.316kg/cm2. The pressure shall be maintained for a period of not less than one hour and shall be gauged at the top of the compartment. The compartment test shall not show any leakage or drop of pressure during test. Two adjoining compartments of a tank shall not be tested or filled with water simultaneously.

D.4.14. Detailed Dimensional Drawing A detailed dimensional drawing as per rule 71 of explosive act should be enclosed along with documentary evidence of getting license for plying the Diesel Browser at site should be furnished along with the offer.

D.4.15. Turn key& Licensing: The Diesel Bowser package unit of 10 KL capacity should be supplied on turned basis i.e ,procurement of front control truck cab —chassis of Tata /Ashok Leyland /Eicher or proven Indian make ,fabrication of browser unit &mounting on truck chassis with necessary pump(s),manual measuring, fitment of all safety device etc. duly approved by Director, Explosive, CCOE/PESO, Nagpur and certificate of Weights And Measures Department to be arranged by the bidder .Obtaining all approval &certificates will be the sole responsibility of the bidder. The Truck Chassis should be procured in the name of M/s Bharat Coking Coal Ltd. and the authorization letter for the same will be given by purchase to the supplier when it will be requested for, after award of supply order.

D.4.16. Lighting

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

- a) Headlights
- b) Brake, tail and parking lights
- c) Front and rear turn indicators
- d) Hazard warning lights
- e) Working lights front & rear

D.4.17.Fire extinguisher system

Minimum two number of fire extinguishers shall be provided at strategic point on the diesel browser, suitably mounted in heavy duty bracket for ease of removal. The extinguisher shall be of suitable capacity and shall comply with relevant IS. The materials and chemical to be used in the fire extinguisher to be supplied with Diesel Bowser must be in compliance of the type and make approved by DGMS.

D.5 Performance Guarantee

In accordance with the provisions of clauses C.7.2.2and C.7.3 of the Technical Specifications, the Supplier 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.

HOL



Annexure-B

(All filters & O rings (including engine filters) required for warrant period i.e one year per equipment)





(Formerly known as Hindusthan Enterprises)

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DIST- CUTTACK, PIN -754021, ODISHA
Works: PLOT NO. -587, OLD INDUSTRIAL ESTATE
JAGATPUR, CUTTACK - 754021, ODISHA
Ph. (0671) 2491348 (O/W), Fax. (0671) 2490348
E-mail: admin@hindusthantechnologies.com
Website: www.hindusthantechnologies.com
CONSULTANTS



Spare Parts for M	aintenance Schedule of warran		ouser for 1 year under
TATA/Ashok Leyland/El	CHER/Bharatbenz Chassis		
ITEM	CHANGE INTERVAL	QUANTITY	TOTAL NO. OF CHANGE IN 1 year
Strainer	100000 Km/1 year	1	
Diesel filter	80000 Km 1 year	1	1
Engine Oil filter	100000 Km 1 year	1	- 1
Air Filter Primary	120000 Km/1 year	1	1
PUMP			
ITEM	CHANGE INTERVAL	QUANTITY	TOTAL NO. OF CHANGE IN 1 year
O' ring Kit	1000 Hrs	1	



For Hindusthan Technologies Pvt. Ltd.

Annexure-C (List of Tools to be provided with Bowser)







Technologies Pvt. Ltd.

(Formerly known as Hindusthan Enterprises)

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DIST. CUTTACK, PIN. 754021, ODISHA
Works: PLOT NO - 587, OLD INDUSTRIAL ESTATE
JAGATPUR, CUTTACK - 754021, ODISHA
Ph. (0671) 2491348 (O/W). Fax. (0671) 2490348
E-mail: admin@hindusthantechnologies.com
Website: www.hindusthantechnologies.com

Tender no.: BCCL/ PUR/419109/10KL Diesel Bowser/19-20/59, Date: 21.01.2020

Standard tool kit required for maintenance of erection, commissioning and for the maintenance and repair of Diesel Bouser 10 KL capacity

			Make	Qty
Sl. No.	Item Description	Size	TAPARIA/JHALANI/GEDORE	01 Set(12 Nos.)
1	DE Spanner	6-25 mm	TAPARIA/JHALANI/GEDORE	01 Set(12 Nos.)
2	Ring Spanner	6-25 mm	TAPARIA/HALANI/GEDORE	01 No.
2	Adjustable wrench	200 mm	TAPARIA/JHALANI/GEDORE	01 No.
4	Pliers side cutting	200mm	TAPARIA JHALANI GEDORE	01 No.
	Pipe wrench	450mm	TAPARIA/JHALANI/GEDORE	01 No.
5	Nose Plier	150mm	TAPARIA/JHALANI/GEDORE	
6		150mm	TAPARIA/JHALANI/GEDORE	01 No.
7	Screw Driver	300mm	TAPARIA/JHALANI/GEDORE	01 No.
8	File half round smooth	30011111		
	with wooden handle	17.1	TAPARIA/JHALANI/GEDORE	01 No.
9	Hammer	½ kg	TAPARIA/JHALANI/GEDORE	01 No.
10	Spanner OJ	30 x 32 mm	TAPARIA/JHALANI/GEDORE	01 Set (9 Nos.)
11	Allen Key	1.5 to 10mm	TAPARIA JITALA IN GEO - 1	
			Hindusthan	01 No.
12	Oil Funnel	500 ml	Hindusthan	01 No
13	Oil cane	300 mi		

for Hindusthan Technologies Pvt. Ltd.



Annexure-D (List of Major Bought Out Items)

Website: www.hindusthantechnologies.com | CONSULTANTS | Details of Major Bought out items of 10 KL Diesel Bouser

Ref :

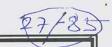
Tender No. BCCL PUR 419109 10KL Diesel Bowser 19-20 59. Date: 21.01.2020 Tender ID: 2020_BCCL_162632_1

Sl.No.	Tender Specification	Offered Make & Model	Address
*****	Full Front Control Truck Cab Chassis of TATA ASHOK	Ashok Leyland 1920, 4750mm WB BS-VI CABIN chassis	Ashok Leyland Ltd., Chennai
	LEYLAND EICHER Equivalent Indian Make fitted	TATA ULTRA 1918/I,4530mm WB BS6 CABIN Chassis	TATA Motors Ltd., Mumbai
	with PTO unit	EICHER Pro 3019, 4490mm WB BS6 CABIN Chassis	VE Commercial Vehicles Ltd., Gurgaon
		Bharatbenz 1617R , 5100mm WB BS6 Cabin Chassis	Daimler India Commercial Vehicles Pvt. Ltd., Chennai
2	Flow Metering Unit	Vermont Technologies Pvt. Ltd., Model : C 35 PD Flow Meter Or EASTERN AUTOMOTIVE MACHINE TOOLS PVT. LTD. (EASTMAN)	Vermont Technologies Pvt. Ltd Plot No. 12, Chintamani Lane No. 6, Shahu Colony, Karvenagar, Pune-411052 Or EASTERN AUTOMOTIVE MACHINE TOOLS PVT. LTD. 1243, M.LE PART- B.BAHADURGARH, HARYANA- 124507,INDIA
3	Centrifugal Pump Mechanical Seal of capacity 100- 150 LPM	Hickson Ani Engineerings Hindusthan Technologies Pvt. Ltd.	Hiscon Pumps Or ANI Engineers, 2716, G.I.D.C. Estate, Phase- IV.WADHWAN - 363035, Dist: Surendranagar, Gujarat or Hindusthan Technologies Pvt. Ltd., Cuttack



for Hindusthan Technologies Pvt. Ltd.

ANNEXURE-E





TECHNICAL SPECIFICATION OF DIESEL BOUSER (10 KL CAPACITY);

SR.	SPECIFICATION	DESCRIPTION
1	CHASSIS	ASHOK LEYLAND or TATA or BHARATBENZ or MAHINDRA or EICHER or EQUIVALENT suitable for 10
		KL Diesel Bouser
2	OIL TANK	10 KL (3+3+4) MADE OUT OF MS 3.15mm THK SHEET
.3	PUMP	Rotary Gear Pump Model: of size 2"x2" in C.I. Construction with a built in relief valve to give 100-1550 LPM of diesel at a pressure of 2.5 Kg/cm2 at 1000 RPM
4	PTO	SIDE/REAR PTO FITTED TO ENGINE SUIT TO PMP PERFORMANCE
5	Flow Meter	2" (50 mm) Positive Displacement (Rotary Vane) Flow meter for Diesel Oil measurement, in Cast Steel Body construct ion. Alum Alloy Rotor, SS Bearings, Flow range upto 150 LPM. Accuracy +/- 0.1 % and repeatability 0.02 %, 150 class pressure and temperature 70 Deg C
6	CABIN SUPER STRUCTURE	Provided by Chassis OEM
7	PANELING	Provided by Chassis OEM
8	PAINTING	Two coats of zinc chromate red oxide primer and finished with two coats of synthetics enamel paint. Colour as per customer requirement
9	ACCESSORIES	AS PER IS / CUSTOMERS REQUIREMENT
10	Miscellaneous	AS PER EXPLOSIVE REQUIREMENT & MV ACT 1988

Manufacured by:

Hindustrian Technologies Pvt. Ltd. (Formerly known (as Hindusthan Enterprises)

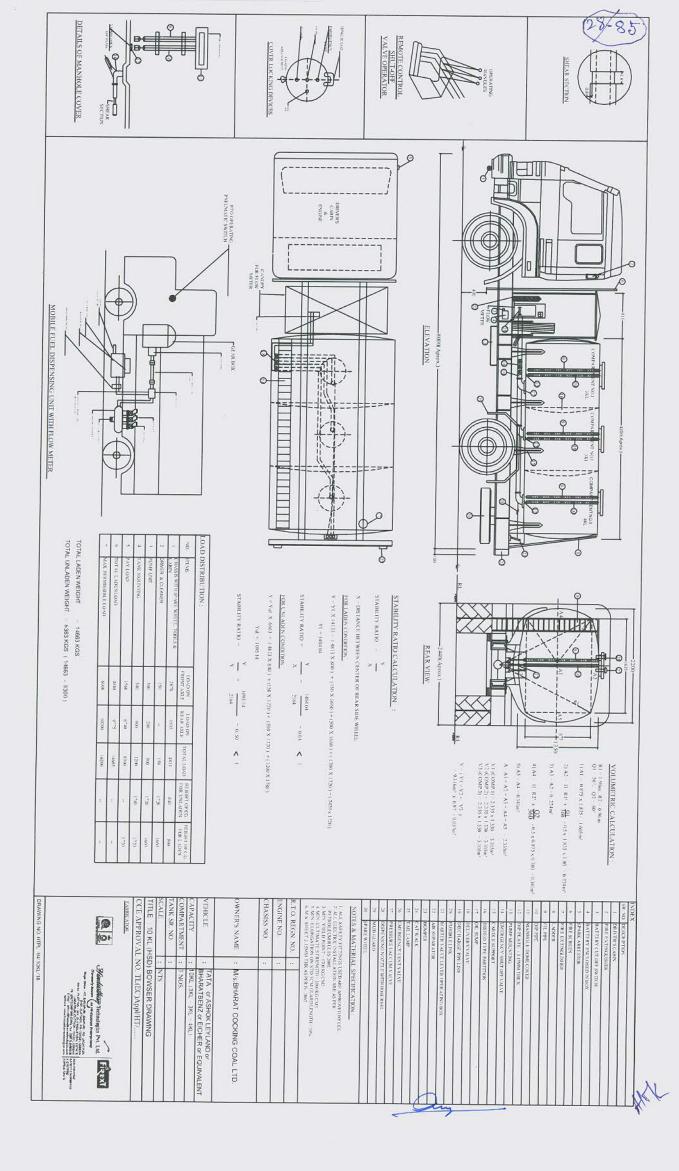
Plot no. 5 & 7, Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha

Ph.-0671-2491348, Fax-2490348

e-mail: marketing@hindusthantechnologies.com

Haprin

Cley











Regd. Office: AT. SHIVAPURI, (NIMPUR): PO: JAGATPUR.
DIST-CUTTACK, PIN -754021, ODISHA
Works: PLOT NO. - 5&7, OLD INDUSTRIAL ESTATE
JAGATPUR, CUTTACK - 754021, ODISHA
Ph.: (0671) 2491348 (O/W), Fax. (0671) 2490348

: (0671) 2491348 (O/W), Fax. (0671) 2490348. E-mail: admin@hindusthantechnologies.com Website: www.hindusthantechnologies.com

FIRE FIGHTING
SAFETY EQUIPMENTS
& SYSTEMS.
CONSULTANTS

HTPL/26-06-BCCL (DB10KL) -09/19-20

Date: 01.06.2020

To Bharat Coking Coal Ltd., Koyla Bhawan, Dist. Dhanbad, JH -826005.

Sub: Technical Parameter Documents

Ref : Tender No. BCCL/ PUR/419109/10KL Diesel Bowser/19-20/59 & Date: 21.01.2018

Tender ID : 2020_BCCL_162632_1

Dear Sir,

With reference to above, we would like to bring following few lines for fvour of your kind consideration and necessary action please;

1- List of Major Components of 10 Kl Diesel Bouser

2- Technical Literature of Chassis (TATA/Ashok Leyland/Eicher/Bharatbenz)

3- Technical Literature of Flow Metering Unit (Vermont/EASTMAN)

4- Technical Literature of Pump (HISCON/ANI/Hindusthan)

5- List Spare Parts for Maintenance Schedule for 1 year under warranty

Further if any other Spare Parts required for Maintenance of 10 KL Diesel Bouser for 1 year warranty period, then the same shall be provided by us without any extra cost to BCCL.

We will comply with the clause C.4 standards and confirmed that Diesel Bowser in all respect conforms to latest Central Motor Vehicle Rules for mass emission standard and judgment of honorable Supreme Court of India (WPC No. 13029 of 1985 dated 24.10.18 at the time of supply of equipment. Also complied of Registration of Vehicles as per clause C.4 Standards.

Hope you will find our above clarification/confirmation most suitable to your requirement and evaluate our offer for further needful.

Kindly acknowledge the receive of the above documents and evaluate our offer for further needful.

Thanking you, and assuring of our best services at all the times,

Yours faithfully for Hindusthan Technologies Pvt. Ltd.,

M.R.Panda (Director/HoD)

Encl: As stated above.

ARRIVE







(Formerly known (as Hindusthan Enterprises)





FIRE FIGHTING SAFETY EQUIPMENTS & SYSTEMS. CONSULTANTS

Details of Major Components of 10 KL Diesel Bouser

Ref

Tender No. BCCL/ PUR/419109/10KL Diesel Bowser/19-20/59, Date: 21.01.2020

Tender ID: 2020 BCCL 162632 1

Sl.No.	Tender Specification	Offered Make & Model	Address
1	Full Front Control Truck Cab Chassis of TATA / ASHOK	Ashok Leyland 1920, 4750mm WB BS-VI CABIN chassis	Ashok Leyland Ltd., Chennai
	LEYLAND / EICHER / Equivalent Indian Make fitted	TATA ULTRA 1918.T,4530mm WB BS6 CABIN Chassis	TATA Motors Ltd., Mumbai
	with PTO unit	EICHER Pro 3019, 4490mm WB BS6 CABIN Chassis	VE Commercial Vehicles Ltd., Gurgaon
		Bharatbenz 1617R, 5100mm WB BS6 Cabin Chassis	Daimler India Commercial Vehicles Pvt. Ltd., Chennai
2	Flow Metering Unit	Vermont Technologies Pvt. Ltd., Model: C 35 PD Flow Meter Or EASTERN AUTOMOTIVE MACHINE TOOLS PVT. LTD. (EASTMAN)	Vermont Technologies Pvt. Ltd., Plot No. 12, Chintamani Lane No. 6, Shahu Colony, Karvenagar, Pune-411052 Or EASTERN AUTOMOTIVE MACHINE TOOLS PVT. LTD. 1243, M.I.E., PART- B,BAHADURGARH, HARYANA- 124507,INDIA
3	Centrifugal Pump Mechanical Seal of capacity 100- 150 LPM	Hickson/ Ani Engineerings/ Hindusthan Technologies Pvt. Ltd.	Hiscon Pumps Or ANI Engineers,2716, G.I.D.C. Estate, Phase- IV,WADHWAN - 363035, Dist: Surendranagar, Gujarat or Hindusthan Technologies Pvt. Ltd., Cuttack



for Hindusthan Technologies Pvt. Ltd.

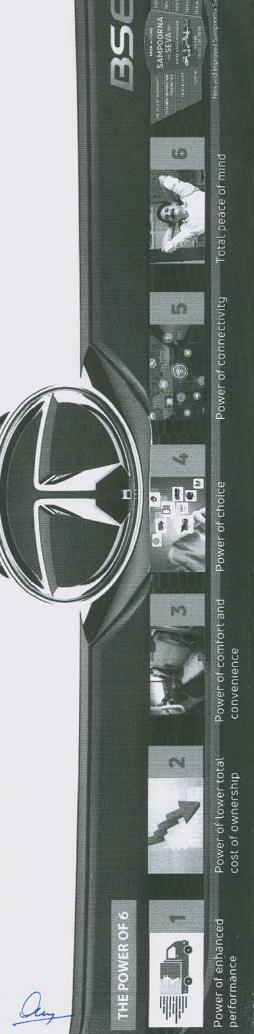
TATA MOTORS Connecting Aspirations

TATA MOTORS presents **JLTRA 1918.T**

EXPERIENCE THE **POWER OF 6**EXPERIENCE THE **POWER OF CHANGE**



ARAG



GROSS VEHICLE WEIGHT	
מוססס גרו ווכרר ארוסווו	18 500 kg
ENGINE	TATA 5.0 L Turbotronn BS6
MAXIMUM POWER	132 kW @ 2 200 r/min
MAXIMUM TORQUE	700 Nm @ 1000 2 000 r/min
CLUTCH	380 mm Dia Push type Single Plate Dry Friction Organic
TRANSMISSION	Tata 6750 6 Forward + 1 Reverse Manual Synchromesh
FRONT AXLE	Tata Extra Heavy Duty 7T Reverse Elliot Type
REAR AXLE	Tata Single Reduction RA1 085
FRAME	Ladder Type, Heavy Duty Frame (2 500 mm x 650 mm x
CAB/ COWL	ULTRA SLEEPER CABIN (1 NSLP variant in 4 500 mm Wh
TYRES	295/90R20 Radial Tube Tyres
VENTILATION	Blower & Air Condition options
EMISSION CONTROL	EGR + DOC + DPF + SCR + AMOX
FUELTANK	Metallic 225 I (4 500 mm, 4 900 mm, 5 300 mm) Wheelb
	350 l (5 600 mm, 6 800 mm) Wheelbase with Anti Fuel T
WHEELBASE options	4 530 mm 4 920 mm 5 300 mm 5 560 6 750 mm
M DECK LENGTH options	5 486 mm 6 096 mm 6 706 mm 7 315 mm 9 754 mm

VALUE FEATURES

Electronic Anti Fuel Theft

Telematics enabled Fuel theft monitoring YES YES Savings in undue fuel expenses Lower cost of operations

VALUE FEATURE BENEFITS

>

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YES YES Guided and Safe reversing of vehicles
Prevention of damage and loss of productivity

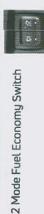


Assistance System

Lining

Reverse Parking





YES YES Load - Terrain - Speed based Fuel Economy management



YES YES Load - Terrain - Speed based Gear shift coaching



Gear Shift Advisor

70 mm) eelbase) Higher Fuel Economy Longer Tyre Mileage YES YES





YES YES Advanced features for Fleet, Trip & Business Management



(in long wheel base)

Air Conditioning (AC)

YES YES

Lesser refills | Longer uninterrupted trips for long hautage Lesser chances of fuel theft

No loss of reliability due to market built non-standard fuel tanks

Higher Riding comfort | Protection from heat, dust, noise Better trip turnaround time YES



YES 9

No hub greasing required for 5L Kms Saving in maintenance cost Higher running uptime

(Unitized Wheel Bearing)

Truck Hub Unit

50 000 +

Trained Mechanics

distributor points across India

TATA GENUINE PARTS (TGP)

Service Workshops across India including

-

500

160

32/-83

Tata Motors Limited

Terms ans Conditions apply as per the policy of ITGI. Insurance available on light, intermediate and heavy commercial vehicles. You can also contact our Sales Office. Tata Motors Limited, 4th Floor, Ahura Centre, 82, Mahakali Caves Road, MIDC, Andheri (East), Mumbai - 400 093 or call toll-free no. 1800 209 7979

The specifications are merely indicative. Due to continuous product improvements, these specifications are liable to change without notice CAUTIONS. Accessories shown in the pictures or else where do not constitute standard fitment,



ASHOK LEYLAND'S HAULAGE RANGE
DESIGNED TO BE A CLASS APART

Myer



j⊹Gen6



1920 SERIES 4X2 HAULAGE

SPECIFICATIONS

Engine type

H series BS-VI - 6 cylinder CRS with iEGR/SCR

Engine power

Mar

Engine torque

700 Nm @ 1200~2000 rpm

200 HP @ 2400 rpm

Clutch

380 mm dia - single plate, dry type with clutch booster

6 speed synchromesh - FGR 8.97

2 and 3 piece propeller shaft

Gearbox

Propeller shaft

Rear axle

Fully floating single speed rear axle RAR 4.63

Forged i section - Reverse Elliot type Front axle

Steering

Frame

275 x 75 x 6 mm - Bolted construction

Hydraulic assisted power steering

New improved cowl, sleeper cabin in economy, value and premium variants Cabin options

Suspension

Rear: Semi - elliptic multileaf, optional - Hybrid suspension

Full air Dual line with ABS with ASA Parking brake on rear wheels only

Front: Semi - elliptic multileaf, optional - Parabolic

Brake

375 litres cross - linked polymer fuel tank on LH side additional 375 litres on RH side Diesel tank capacity

Adblue tank

48 litres capacity on RH side

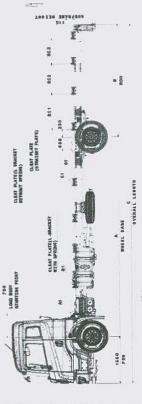
24 V (120 AH batteries) Electricals

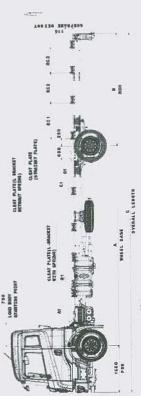
24 V (150 AH batteries) for AC cabin

295/90R20 Tyre options

18500 kg GVW

COACH BUILDER DRAWING







POL tanker

LPG cylinders

Market load

Parcel

,97 Loading span Wheelbase

-85)

Eicher Pro 3019 Model

UAL

WAO

GVW (kg)	18500						
Engine	E494,	E494, 4 Cylinder, BSVI	nder, B	INS			
Max Power	180 h	180 hp @ 2600 rpm	00 rpr	L.			
Max Torque	600 h	lm @ 1.	200-1	600 Nm @ 1200-1800 rpm	m		
Clutch (mm)	362						
Gearbox	ET 70	ET 70 S6, Manual	nual				
Rear Axle	Heav	/ Duty	fully fi	oating	Heavy Duty fully floating singe reduction, 395mm drive head	n, 395r	nm drive head
FDR	5.857						
Chassis Dimensions (mm)	230x76x6	9x9					
Brakes	Dual	ircuit 1	full air	'S' Car	Dual circuit full air 'S' Cam with ABS		
Front Suspension	Parabolic	olic					
Rear Suspension	Semi	Semi Elliptic					
Cabin	Sleep	Sleeper Cabin	L.				
Steering	Tilt ar	d teles	scopic	power	Tilt and telescopic power steering		
Tyres	Front	Rear:	295/9	Front/ Rear: 295/90R20			
Fuel Tank (Litres)	190/425	125					
DEF Tank (Litres)	27						=
Battery	24V						
Gradeability (%)	25						
Wheelbase (mm)	4900			54	5490	0699	01
Variants	CBC	HSD	CBC	HSD	HSD MS Container	CBC	CWC
Load body Span (mm)	6067	6112	7295	7361	6067 6112 7295 7361 7356	9695	9695 10213
Applications	Fruits	E Vege	tables	s, Indu:	Fruits & Vegetables, Industrial Goods, Parcel & Courier, FMCG, e-Commerce, Auto Carrier, LPG & Tankers	rrcel & (Courier,
	0.00	The Alberta					

HA0

		4 YEARS WARRANTY	Untimited Km. Enhanced Warranty on Engine. Transmission & Rear Axte onty.) T.C. apply.
_	2u	7	18
		Basi.	

A –3 District Centre, Saket, New Delhi 110 107,india CIN – U74900DL2008PLC175032 VE COMMERCIAL VEHICLES LTD. Registered Address – 3rd Floor Select Citywalk ,

TO VE COMMERCIAL VEHICLES

eichertrucksandbuses.com, Eicher Care- 1800 102 3531 A VOLVO GROUP AND EICHER MOTORS JOINT VENTURE

CORPORATE ADDRESS

mentioned is for standard configuration with standard body sizes and will change Caution: *do not weld or drill on chassis frame. *Accessories, colours and features shown in pictures or elsewhere may not constitute standard fitment. "Weight due to optional fitments, *as a result of continuous research and innovation carried out, specifications are merely indicative and are subject to change without notice. Eicher Trucks & Buses #96, Sector — 32, Gurgaon 122001, Haryana, India

Wheelbase (mm)

Overall Height (DAH) mm

Overall Width (OAW) mm

Overall Length (OAL) mm

Vehicle Model

4490

2722

2332

8380

Pro 3019 CBC (6067mm)

5490

2722

2332

9580

Pro 3019 CBC (7295mm)

0699

2722

2332

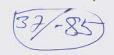
11930

Pro 3019 CBC (9695mm)

111: 9

W 33

10100_Dilatarbone_DO +1 101111 111 OIEC ECANOR (ECIO NECEO) 110111







LEAD THE CHANGE
WITH 1617R (4×2)



38/85

Technical Specifications

Vehicle D	imensions
-----------	-----------

Wheel Base (mm)	5100	5900	6700
Cabin	Sleeper	Sleeper	Sleeper
Loading Span (ft)/Loadbody cpc (Cu.m)	20ft	24ft	31ft
Overall Length (mm)	8600	9815	11995
Overall Width (mm)	2335	2335	2335
Overall Height (mm) (CBC)	2600	2600	2600
Front Overhang (mm)	1335	1335	1335
Rear Overhang (mm)	2165	2580	3960
Ground Clearance (mm)	270	270	270

Engine

Engine Model 4D34i

 Maximum Power, KW
 125 Kw @ 2500 rpm

 Maximum Torque, Nm
 520 Nm @ 1500 rpm

 No. of Cylinders, CC
 4, 3900

Emission Std Bharat Stage VI

Transmission

Gear Box Model & Type Improved G85, 6F+1R, Mechanical, Synchromesh Gears
Clutch Type Single Dry Plate, Hydraulic Control

362

Clutch Dia (mm)

Axle

Front Axle IF 6.0 Rear Axle MS 145

RAR* 5.57 (S) 5.57 (S) 5.57 (S) 5.57 (S) 6.17 (Optional / HAP) 6.17 (Optional / HAP)

Chassis Frame & Suspension

Frame Section (D X W X T) (mm) 272x70x6

Front Suspension Multileaf Spring

Rear Suspension Multileaf Spring

Anti-Roll Bar Front & Rear: Standard for hazards goods pack & High centre of gravity pack & 6700 WB / Optic Brakes

Service Brake Pneumatic, Foot Operated, Dual Line with ABS
Parking Brake Spring Acutated with Hand Brake Valce @ Cab
Front Axle Brake Ø410 drum

24V

Ø410 drum

Steering

Steering Type Hydraulic Power Assisted

Fuel Tank & Electricals

Rear Axle Brake

 Fuel Tank / Filling Capacity*
 215L/200L
 215L/200L
 215L/200L

 Adblue Tank
 43L / 36L

 Battery Capacity
 75Ah/100AH (HAP)

Voltage

 Performance

 Maximum Gradeability %
 23.9% (RAR 5.57) & 26.7% (RAR 6.17)

 Maximum Geared Speed kmph
 80 Kmph

 TCD*
 17.3m
 19.3m
 22.6m

Tyres (Size, Pattern)

Pattern and Size Radial Tyre - 10.00 R 20

Weight

Gross Vehicle Weight - GVW 16200 Kgs (POL tanker GVW will vary)

MAC

Chy

10

Flow



C35 PD Flow Meter (11/2" & 2")

VERMONT

The C35 is a sturdy, compact and highly accurate Positive Displacement Flow Meter. Proven design and material selection make it possible to use it extensively for almost every sector of industry and process control.

DESIGN FEATURES

- High accuracy
- Low pressure drop
- Stepless calibration adjustment
- Wear compensating vane design
- Mechanical or electronic readout
- Suitable for a wide variety of liquids

PRINCIPLE OF OPERATION

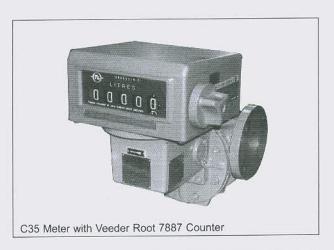
The product enters the meter through the inlet manifold and causes the rotor to revolve by pressure on the blades.

The proximity of the rotor to the casing forms an efficient seal, whilst the profile of the casing ensures that the blades are guided through the measuring crescent. The vane blades divide the liquid into segments, the liquid segments are counted as they are displaced, giving a positive rotary motion to the rotor.

The rotor spindle transmits the drive through a pressure tight lip seal in the meter front cover to the calibrating mechanism, which calibrates the meter output for a correct counter readout.

APPLICATIONS

- Batching, blending and dispensing in chemical and process industries, petroleum companies, paints, solvents, pharmaceutical and other fields
- Container filling
- Tank truck / Rail wagon unloading





SPECIFICATIONS

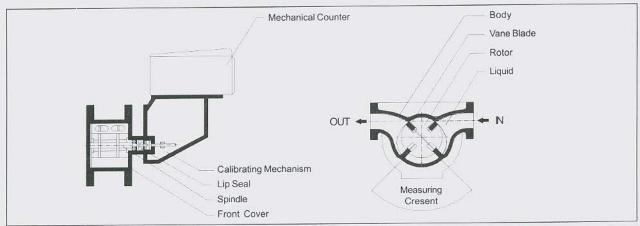
Type : Positive displacement rotary vane

Size : 40 mm NB (1½") : 50 mm NB (2")

Flow Range : 35 to 350 lpm (40 mm NB) (11/2")

45 to 450 lpm (50 mm NB) (2")

(Maximum flow rate can be uprated by 30% for aircraft refuelling with ATF)



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Mel

Ceny

Meter Hand of

: Right hand entry, left hand delivery Left hand entry, right hand delivery

Discharge (when facing the counter)

Drive

: Positive gear train

End Connections : Square flange ASA 150 (Standard) (Other standards are available on request)

Accuracy Repeatability

: Better than ±0.10% Better than ±0.02%

Rangeability

: 100% to 10% of max. flow range : 10.54 kg/cm² / 150 PSI / 10.5 Bar

Pressure Rating Temperature

Upto 70°C (Standard) Upto 200°C (Special)

Viscosity

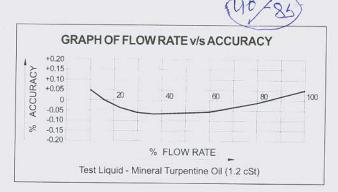
0.5 CST to 200 CST

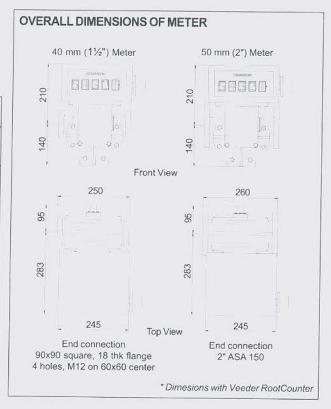
(Consult factory, for liquid viscosity above 200 CST)

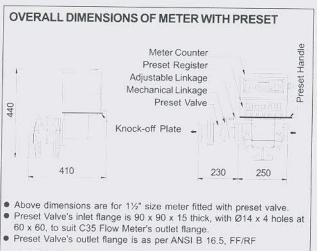
MATERIALS OF CONSTRUCTION

9.15	
Housing	Cast Steel
	Stainless Steel
Rotor	Aluminium Alloy
	Stainless Steel
Vanes	Resin impregnated
	Morganite CY10C
Bearings	Stainless Steel
Rubber Parts	Buna-N (Nitrile), Viton, EPDM
(B) Preset Valve	
Housing	Aluminium
	Cast Steel
	Stainless Steel
Other Wetted Parts	Aluminium Alloy
	Stainless Steel
(C) Strainer / Air Elimir	nator
Housing	Carbon Steel
	Stainless Steel

Counter Options	
Veeder Root 7887	5 digit resettable & 8 digit non-resettable
E type	Only 5 digit resettable or non-resettable







METER ACCESSORIES

A. Counters

Veeder Root 7887 for volume indication, 5 digit large numerical reset with 8 digit non-reset totalizer. Liters, Dekaliters, Gallons indication.



B. Strainer and Air Eliminator

For efficient operation of meter, removes free air or vapour and protection from debris entering into the flow meter.



VeederRoor EMR3 Electronic display counter with remote indication, 4-20 mA output, data logging facility.



C. Flow Governor

A protective device, installed downstream of the flow meter, to limit the flow rate through the flow meter to the maximum meter flow rate capacity.



Veeder Root 7889 Preset Counter, select predetermined volume for precise batch control.



D. Mechanical Preset Valve

Preset valves provide an accurate and automatic control of a predetermined quantity of liquid to be delivered through the PD flow meter. A typical preset arrangement consists of a Preset Valve mounted on the PD flow meter outlet and connected by a mechanical linkage to the preset register fitted below the PD flow meter counter.



Veeder Root Ticket Printer 7888 provides an imprinted ticket for delivery transactions. Accumulative or Zero start options available.



E. Digital Control Valve

Electrically actuated, hydraulically operated multifunction control valve. The valve also offers an in-built flow governing function.



Electronic Registration Ex proof as well as Panel mounted WP options to perform multiple functions and pulse output, RS232/ 485 communication.



F. Back Pressure Valve

Back Pressure Valve enables efficient air removal through the air eliminator, in a pump operated metering system.



Mechanical Rate of Flow Indicator Mechanical dial type flow rate indicator.



Mechanical Economic E type Totalizers provide 5 digit resettable or 5 digit non-resettable totalization.



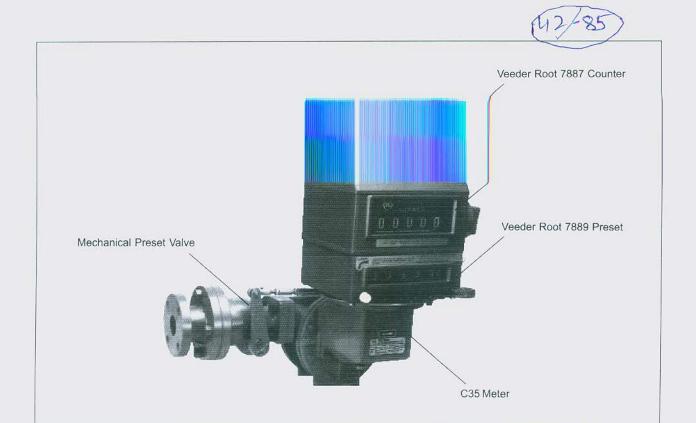
G. Pulse Transmitter

The electronic pulse signal output, to transmit to other electronic device for indication, flow control or data acquisition.



Duy

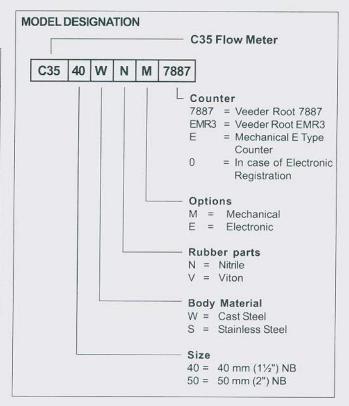
Hat



C35 11/2" Model Preset Metering Package

ORDERING INFORMATION

Application	Batching, Loading, Blending, etc
Operating Conditions	Liquid: Name Flow Range Temperature Range Max Working Pressure Viscosity Range
Unit of Registration	Gallons, Liters Dekaliters
Direction of Flow	Left to right is standard and will be supplied unless right to left is specified
Accessories	As required



- Specifications are subject to change without notice.
- All dimensions are in mm unless otherwise specified.

Pub. No. 001 Issue 1 Rev 1 04-2014

Vermont Technologies Pvt. Ltd.

Plot No.12, Chintamani, Lane No.6, Shahu Colony, Karvenagar, Pune- 411052. Maharashtra, India.

Tel: +91 (20) 32420419

Email: ho@vermonttechnologies.co.in Website: www.vermonttechnologies.co.in

TELTECH Since 1980

Flow



C35 Strainer cum Air Eliminator

VERMONT

The combination C35 Strainer cum Air Eliminator ensures removal of solid impurities, air or vapour from the liquid, before they enter the flow meter. It is an essential accessory for a trouble free and accurate flow meter operation.

DESIGN FEATURES

- Low pressure drop due to large filter element area
- Easy filter element removal for maintenance
- High venting capacity air eliminator

PRINCIPLE OF OPERATION

The Strainer cum Air Eliminator is fitted on C35 flow meter's inlet side. The strainer consists of a fabricated body, having a horizontal offset between the inlet and outlet flanges. The wire mesh filter element is positively clamped by the end cover. A drain plug is provided to facilitate servicing. Liquid impurities get filtered on passing through the filter element and clean liquid flows through the flow meter. For new installations, it is advisable to first thoroughly flush lines before installing the flow meter. Periodic strainer basket inspection and cleaning is necessary to prolong the life of the flow meter.

The air eliminator is mounted along side the strainer body. It consists of a stainless steel float connected to a pilot valve via multiple linkages. When air collects in the air eliminator, the buoyant force acting on the float reduces, the float drops down along with the pilot valve connected to the linkage and the air escapes through the main valve. As liquid rises in the air eliminator, the float rises to lift the pilot valve, thereby closing the air release opening of main valve.



SPECIFICATIONS

STRAINER

: Wire mesh filter element Type

Mesh : 20 / 40 / 60 / 80 : 40 mm NB Size

50 mm NB

Maximum Working : 10.54 kg/cm²

Pressure

: Upto 70°C Temperature

: At the meter inlet Mounting

AIR ELIMINATOR

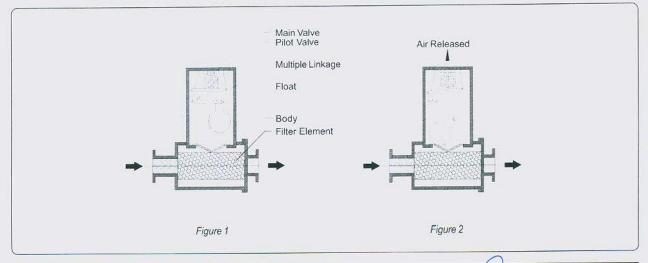
: Float actuated pilot operated

Maximum Working

: 10.54 kg/cm² Pressure

Temperature

: Upto 70°C



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MATERIALS OF CONSTRUCTION

STRAINER

Body

: Carbon Steel (Fabricated)

(Standard)

Stainless Steel AISI 316

(Optional)

Basket

: Stainless Steel AISI 304 mesh with

Carbon Steel reinforcement sheet

(Standard)

Stainless Steel AISI 316 mesh with Stainless Steel AISI 316 reinforcement

sheet

(Optional)

Seals

: Nitrile (Standard)

(Optional)

AIR ELIMINATOR

Body

: Carbon Steel (Fabricated)

(Standard)

Stainless Steel AISI 316

(Optional)

Float

: Stainless Steel AISI 304

Linkages : Aluminium

(Standard)

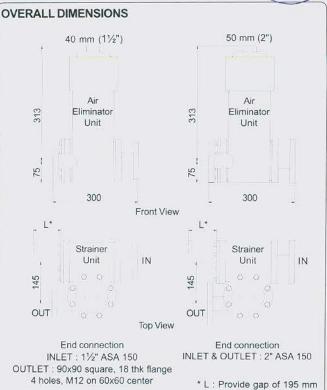
Stainless Steel AISI 316

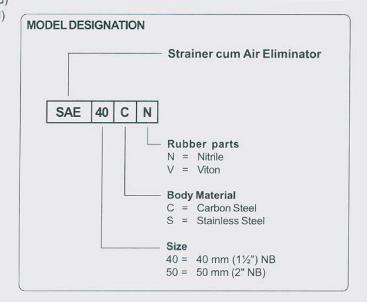
(Optional)

Seals

: Nitrile (Standard)

Viton (Optional)





Specifications are subject to change without notice. All dimensions are in mm unless otherwise specified.

Pub. No. 001 Issue 1 Rev 0 08-2012



TELTECH Since 1980

for basket removal

Plot No.12, Chintamani, Lane No.6, Shahu Colony, Karvenagar, Pune- 411052. Maharashtra, India.

Tel: +91 (20) 32420419

Email: ho@vermonttechnologies.co.in Website: www.vermonttechnologies.co.in



(45/85) speed last

WM-19(22)/2012 Government of India Ministry of Consumer Affairs, Food and Public Distribution Department of Consumer Affairs Legal Metrology Division

Krishi Bhawan New Delhi Dated: 23.11.2012

To,

M/s. Vermont Technologies Pvt. Ltd., Plot No. 12, Chintamani, Lane No. 6, Sahu Colony, Karvenagar, Pune- 411052

Subject: Model approval certificate – regarding.

Sir,

The undersigned is directed to refer to your letter no VTPL/WNM/2012-13/1 dated 12.9.2012 on the above mentioned subject and to state that there is no objection in using the following model approval certificates by M/s. Vermont Technologies Pvt. Ltd., Plot No. 12, Chintamani, Lane No. 6, Sahu Colony, Karvenagar, Pune- 411052 as per their legal agreement with M/s Teltech Instrumentation Pvt. Ltd., Pune:

Sr. No.	Approval mark No.	S.O. No	Published Date
1	IND/09/97/48	832	6 th April, 1998
2	IND/11/98/27	2049	9 th October, 1998
3	IND/13/2003/53	2253	1 st August, 2003
4	IND/13/2003/539	577	11 th February, 2004
5	IND/09/11/411	1534	7 th February, 2012

2. The said notifications may be amended shortly.

Yours faithfully, 2.

(Ashutosh Agarwal)

Assistant Director (Legal Metrology)

For, Director, Legal Metrology Phone 011-23386194

Email: adwm2-ca@nic.in

Copy to: The Controller of Legal Metrology, Govt. of Maharashtra, Mumbai for kind information.

MAC



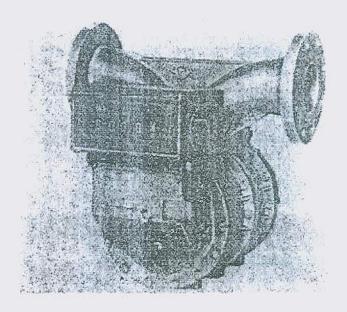
MINISTRY OF FOOD AND CONSUMER AFFAIRS

(Department of Consumer Affairs)

New Delhi, the 9th October, 1998

S.O. 2049.—Whereas the Central Government, after considering the report submitted to it by the prescribed authority, is satisfied that the Model described in the said report (see the figure given below), is in conformity with the provisions of the Standards of Weights and Measures Act, 1976 (60 of 1976) and the Standards of Weight and Measures (Approval of Diodeis) Rules, 1987 and the said Model is likely to maintain accuracy over periods of sustained use and to render accurate service under varied conditions;

Now, therefore, in exercise of the powers conferred by sub-section (7) of section 36 of the said Act, the Control Government hereby publishes the certificate of approval of the Model of the "Meter for liquid (other than water)" of "TL" series manufactured by M-s Teletch Instrumentation Private. Kamawala Chambers, 1st Floor, Sir Phirozesthan Mehta Road, Membai-400001, and which is assigned the approval mark IND/1 1/98/27;



The said Model is a positive displacement Meter, its flowrate is 136 to 1364 litre per minute. It is used for measuring the quantity of liquid with viscosity upto 200 cst. The performance and flow range of the model is governed by the following pre-requisities: (i) the vealibration and setting of the calibration screw is to done at site with the metering fluid as flow medium. (ii) the flow range specification with the specified accuracy to be determined for the metering fluid. (iii) the same meter can not be used for fluids with different viscosities without adjusting the valibration screw.

Government Alfairs, Food & J.D.
Mo Consumer Affairs, Food & J.D.
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47/85

EXTRACT FROM THE GAZETTE OF INDIA (PART R) SEC. 3. SUB-SEC. 63

Appearing on Page No. 3855 - 3858 Dated 17-10-1948 खाद्य और उपभोतना मामले मंत्रालय

MINISTRY OF FOOD AND CONSUMER AFFAIRS

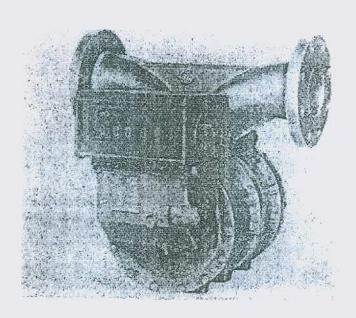
(उपभोक्ता मामले विभाग)

अधिसूचना NOTIFICATION

नइं दिल्ली, १ अक्तूबर, 1998

क्या. आ. 2049. — केन्द्रीय सरकार का, चिहित प्राधिकारो द्वारा उसे प्रस्तुत को गई रिपोर्ट पर विचार करने के परन्याय, समाधान हो गण दे गण के मान प्रमान हो गण दे गण के मान के प्रमान हो गण दे गण के मान के प्रमान के प्रम के प्रमान के प्रम के प्रमान के प्रम के प्रमान के प्र

क्षतः अब फेटोल शरकार, शक्त अधिनियम का भाग 38 की वचधारा (7) द्वारा प्रदेश सक्षित्रयो का प्रमाण करते हुए, ''वय रणकी के 14-4 कर 140, गीनर के महद्वत के ''तो राम'' क्षेत्रक विक्तिमां**ग मेंसमें टेमटेक इन्द्रमेंटिशन** प्राप्तयंद्वता सीवर, प्रथम नाम, मेर विकास मेर ते कर्न मंगई-400031 द्वारा तिथ्या गया के और क्षित्रे अनुमीदन स्थित काई एम.डी./11/98/27 सममुदेशित किया है. अनुमीदन प्रमाण पत्र प्रकाशित वारत' त



आकृति

उन्हें मादान एक निश्नधान्मक विस्तापन मोटर है। इसकी प्रवाहदर 136 से 1364 लीटर प्रति मिनट है। यह 200 माएस ही तक एकता। जल हल के परिभाग भारते के लिए उपयोग में न्याया जाता है। गाउल का संपादन और प्रवाह रेंज निम्मारिखित पूर्व अमेशाओं द्वारा शासिक है—(1) अंश शोधन ऐसे एम के कि संश्रा शोधन एक प्रवाह के कि स्था शोधन एक प्रवाह के कि स्था शोधन एक प्रवाह के कि स्था शोधन एक प्रवाह के कि एक प्रवाह के कि एक प्रवाह के कि एक प्रवाह के कि समायोजन के बिना विभिन्न स्थानताओं जाने सरलों के लिए उपयोग

ASHUTOSH ASALUVAL
ASHUTOSH ASALUVAL
Assistant Director (Legal intetrulogy)
Assistant Director (Legal intetrulogy)
Government of India
Bopti. of Consumer Affairs
Depti. of Consumer Affairs
Mio Consumer Affairs, Food & P.D.
Krishi Bhawan, New Deini-1

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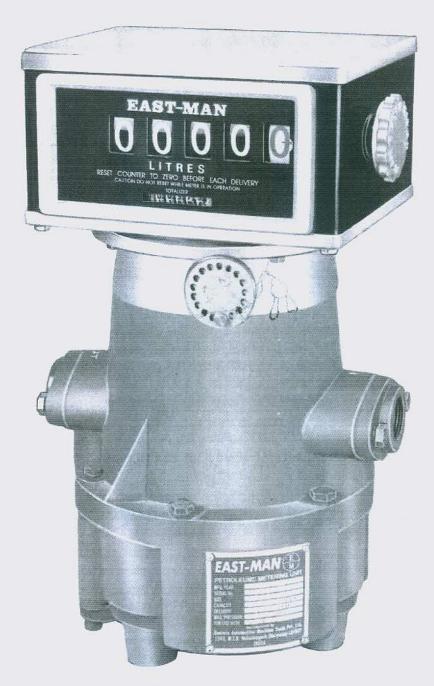
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HAY

EAST-MAN (EM)



PETROLEUM METERING UNIT



METERING PETROLEUM EXCLUSIVELY

ACCURATE

COMPACT

FAST

ECONOMICAL

TROUBLE FREE

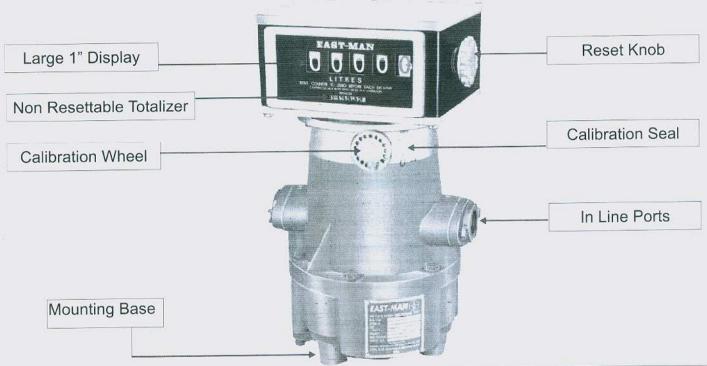
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"EAST-MAN" Petroleum Metering Unit (Liquid Flow Meters) are positive displacement, reciprocating piston type meters, designed for high sustained accuracy and continues volumetric measurement of any non corrosive liquid flowing through a pipe line. Especially suited to check the Exact Receipt, Transfer, Consumption, Dispensing, Mixing, Packaging of oils/Liquids. This unit is also widely adaptable to other various type of services. It will not freeze or get air locked and does not require more attention than any other ordinary type of Meters or equipments.



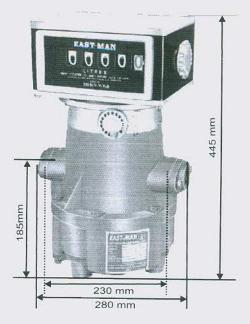
FEATURES	FUNCTIONS	ADVANTAGES & BENEFITS
Large 1" Display Current Reading	1" digit x 5 digit display. Shows current reading. Easy view from wide angle and distance.	Easy operation from three to four meter distance. Operator does not need to come/stand close to take reading every time. It helps to save the time as
Non Resettable Totalizer Total Reading	Accumulating every current reading.	Records the total out-put. Helps to maintain Records by registering the reading shift wise, day wise, week wise etc.
Reset Knob	Reset the counter ZERO for each delivery. First push the knob than turn it clockwise till all digits comes to ZERO.	Very useful function to get the repeated desirable out-put. Helps to make filling, mixing, packing directly and accurately.
Calibration Wheel	Adjust the current reading to actual delivery.	To get the exact out-put always, we recommended to test the out-put at regular intervals. During the schedule testing, if calibration is necessary, it is accomplished by removing locking pin and turning calibration wheel . If the amount in the test-measured is less than the counter reads , the calibration wheel should be turned clock-wise(viewed from face of wheel). If the amount in test-measure is more than counter shows, turn wheel in counter-clockwise direction.
Calibration Seal	Seal the calibration wheel after calibration done with punch from Dept. Of weight & Measures or wrapped a sticker duly signed by management to prevent from unauthorized calibration or tempering.	After adjusting to give desired calibration, insured the locking pin in the hole selected. A seal wire should then be slipped through the hole in the pin, through the hole in bolt head of the counter and wrapped around the rim of the wheel than the both end of scaled wire scaled with lead sel
In Line Ports	Inlet & Outlet ports are in a straight line.	Easy installation on existing pipe line.



Petroleum Metering Unit, Size 1"x 1" BSP

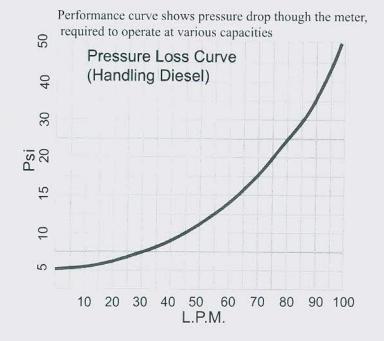
"EAST-MAN" Petroleum Metering Unit (Liquid Flow Meter) are positive displacement, reciprocating piston type Meters, designed for high sustained accuracy and continues volumetric measurement of any non corrosive liquid flowing through a pipe line. Especially suited to check the Exact Receipt, Transfer, Consumption, Dispensing, Mixing, Packaging of Oils/Liquids. This unit is also widely adaptable to other various type of services. It will not freeze or get air locked and does not require more attention than any ordinary type of Meter or equipment. Advance manufacturing techniques, dimensional accuracy, rigid C. I. Body, low noise. Cost effective and foremost indigenously built, make "EAST-MAN" Petroleum Metering Unit exceptionally reliable.

Digital Display, Digital Display with pre-set Quantity/Amount, Three Digital Display i. e. Quantity, Amount and Price are also available on request.



		Specifications	
Accuracy	± 0.1 %	Max. Showing capacity	9999.9 litres (Five Digit)
Repeatability	100 %	Max. Recording capacity	9999999.9 litres (Eight Digits)
Size	1" x 1" BSP	Max. Working pressure	5 psi to 50 psi
Delivery	90 lpm	Max. Viscosity	120 centistokes (Eqevilent to Raw Honey)
Operating temp.	0° c to 82° c	Weight	33 kg. Appx.
Adjusting Device	In the continuos	manner i. e. stepless with range	of calibration less than ± 1%.

Material of C	onstruction
BODY	C. I.
SLEEVES	Stainless steel
PISTONS	Teflon
SEAT	Gun metal
VALVE	C. I.
SEAL	Nitrile/Neoprene
Remaining Parts	M. S., Brass, Alum.
All Meter Part in S. S. 304/316	On request

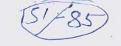


MECHANISM

We adapted the world wide proven technology as in the petrol pump machines. The unit has three Teflon pistons connected by yokes with a wobble plate. Inlet and discharge of liquid are calibrated by a triangular valve and a seat, operating above the pistons. The operation of this meter is simple, liquid came through the entrance port, goes down through the sides of valve along the valve intake, then into the end of a cylinder. When it does this, it forces the piston upward. A similar movement of liquid to the end of the next piston moves the liquid out through the discharge port. To put it simply, an "EAST-MAN" Petroleum metering unit is merely a liquid engine with three Teflon pistons operating with in three cylinders, just like an automobile engine. The movement of the three pistons measures liquid just if you were continually filling up three measuring cans with liquid and pouring them off.

HALL

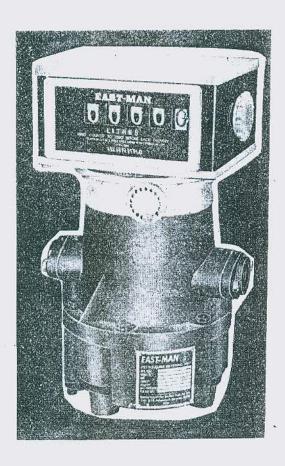
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New Delhi, the 12th August, 2004

S.O. 2039.—Whereas the Central Government, after considering the report submitted to it by the prescribed authority, is satisfied that the Model described in the said report (see the figure given below) is in conformity with the provisions of the Standards of Weights and Measures Act, 1976 (60 of 1976) and the Standards of Weights and Measures (Approval of Models) Rules, 1987 and the said Model is likely to maintain its accuracy over periods of sustained use and to render accurate service under varied conditions;

Now, therefore, in exercise of the powers conferred by sub-sections (7) and (8) of Section 36 of the said Act, the Central Government hereby publishes the certificate of approval of the Model of Meter for volumetric measurement-meter for liquids other than water with analogue indication (herein referred to as the model) of "3 PM" series with brand name "EAST-MAN", manufactured by M/s. Eastern Automotive Machine Tools Pvt. Ltd., 1243, MIE, Bahadurgarh-124 507 and which is assigned the approval mark IND/09/2004/01;



In addition to sealing the stamping plate, sealing shall also be done to prevent the opening of the machine for fraudulent practices.

The said Model (See the figure given below) is a mechanical meter for volumetric measurements (meter for liquids other than water) with analogue indication. The metering unit is positive displacement, reciprocating piston type meter for measurement of any non-corrosive liquids flowing through a pipeline. The maximum flow rate observed is 90 liter per minute. The instruments operates on 230V, 50Hertz alternate current power supply. Its maximum capacity is 9999.9 litre and least count is 100ml. It is used for measurement of petroleum products, liquid chemicals, edible oil etc.

[F. No. WM-21(292)/2002] P. A. KRISHNAMOORTHY, Director, Legal Metrology







HICSON PUMPS

SELF PRIMING PUMP MODEL: 'AL'

FEATURES

Horizontal, side channel, self-priming designed for continuous operation handling clean or turbid liquids without abrasive matter.

Provided with two nos. grease lubricated deep groove ball bearings (designated by 'KK').

AL 4100 and AL 5100 pumps are also available with one no, each of ball bearing and mechanical seal on suction end and one no, bush bearing, flushed by the liquid handled, on delivery and (designated by 'KMS').

MATERIAL

Suction Cover Delivery Cover

Intermediate Parts

Impeller Shaft Close grained Cast Iron

: H.T. Brass : Stainless Steel

Special materials available on demand.

APPLICATION

Transfer of Liquid containing air or gas

LPG, liquid propane, mineral oil transfer and other industrial applications

Bilge, Ballast, Fuel oil transfer, Fire fighting and other Marine applications

Domestic water supply.

TECHNICAL DATA

Capacity

: Max. 900 L.P.M.

Head

: Max. 58 M.

Speed

: 1450 R.P.M. (Normal)

1800 R.P.M. (Max)

Temperature

: Max. 60°C for Standard Pump

Max.100°C for Hot Water Pump

(designated by 'H')

Suction Lift

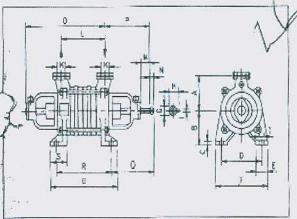
: Max. 8M. for Standard Pump

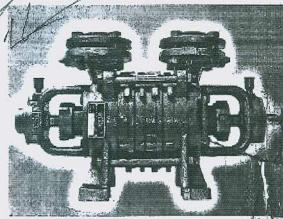
Shaft Sealing

: Stuffing Box or Mechanical Seal

Connections Rotation : BSP threads in Counter flanges : Clockwise looking from drive end.

Anti-clockwise in 'RR' Pump





Pump Model	A	В	C	0	Ε	F	G.	Н	1	к	L.	M	N	0	P	۵	R	5			
AL 4010 BB	132	132	20	160	47	218	19	21.5	6	11/4"	156	36	14	325	191	189	160	55	13	96	4
AL 4020 BB	132	132	20	160	47	218	19	21.5	6	1%"	211	36	14	380	191	189	215	55	13		
AL 5010 BB	140	150	20	160	47	218	22	24.5	6	2"	171	40	14	354	209	202	185	55	13	221	J. W.
AL 5020 BB	140	150	20	180	47	218	22	24.5	6	2	248	40	14	429	209	202	260	55	43	296	
AL 7010 88	150	150	20	200	50	250	26	29	8	21/4"	191	55	14	397	241	227	220	-65	15	278	82
AL 7020 BB	150	150	-20	200	50	250	26	29	8	2½"	281	55	14	487	241.	227	310	85	15	366	
AL 8010 B9	175	170	20	200	50	250	32	35	8	3"	257	70	14	457	256	267	235	65	15	291	92
AL 8020 BS	175	170	20	200	50	250	32	35	8	3"	367	70	-14	567	256	267	345	65	15	401	133

All dimensions are in millimeters unless otherwise stated

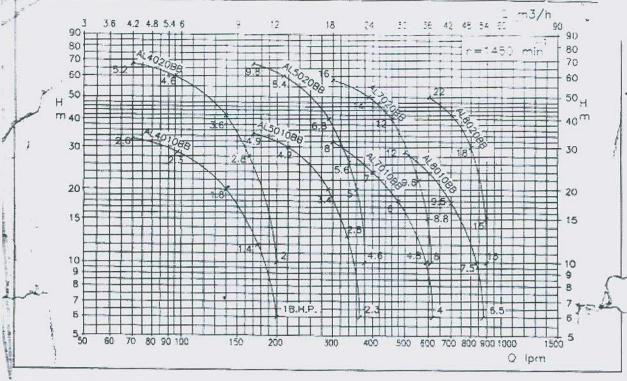
Casting dimensions are apploxing

I A Indiana

MAGE

Oley

53/85



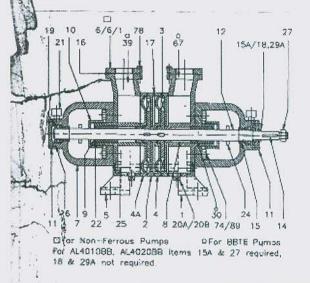
Tolerance on Capacity \pm 10% at rated head and rated R.P.M.

Capacity applies to liquid at barometric height of 760 m.m. Mercury, temperature of 30°C, and kinematic visosity of 1 mm2/5.

Bhp values are applicable for water with sp. gr. 1.0.

For std. pump with Suction lift of more than 4M. Capacity details available on request.

For Hot water pump 'H' capacity table available on request.



1	Suction Cover	*1/	Paper Gasket
2	Intermediate Part II	18	Bearing Lock Nut
*3	Impeller	*19	Ball Bearing
4	Intermediate Part I	20A	Plug
4A	Intermediate Part IV	20B	Plug
5	Delivery Cover	21	Grease Cup
6	Counter Flange	*22	Packing
6/1	Counter Flange	24	Water Slinger
7	Bracket	25	Tie Bolt & Nut
9	Gland	26	C'SK Screw
10	Gland Nut	*27	Nut, Shaft End
11	Bearing Cover	29A	Tab Washer .
11A	Bearing Cover	30	Lantern Ring
*12	Shaft	39	Armeto Fitting

89 Sti

67

74

76

Copper Tube

Stud & nut.

Hex, Hd. Screw Bolt & Nut

Manufacturer reserves the right to change specification and data for improvement in design.

*14

*15

16

Key

Collar Ring (Inner)

*15A Collar Ring (Outer)

Flange Gasket

Authorised Dealer:

Duy

Hyl



	3000°	Delivery	Model		Stage	Motor B H.P. (Irref. margin)	CAPACITY TABLE IN IMPERIAL GALLONS PER HOUR (G. P. H.) WHEN RUNNING AT 1425 R. P. M. (Approx)																			
	1			4	-	Moto Frd .						**	111514	RU!	NEVI (NG A Accur	T 14 racy	10 %	. P. N	1. (A)	pro)	K)				
1	1	.	AL 1010B					490 30									100			T	T		T	T	- 1	į.
2	1	1-	AL 1010B				PH eet	490 30	41	0 3	320			t		***		1	- -	+			4 12	+		Alling Aug
3	1	3	AL 1010B			1 (-	490 30	41	0 3	320	235	150		+			ļ		-			141	+		Loss In Pipes & Pating inping overn and pure w
4	1		AL 1020B	1	ļ.	i G	PH .	530	491		3u	60	70.	-	+		***	191		-		-		1		d ut sea
5	1	T	AL 1020B	1	-	3 G	PH :	30	490) 48		410	370	320		80	- '-		-	+	-	1-1		010		riction E ringes ren purm
6	1"		AL 1020B		-	G G	PH 8	30	490	45		80 410	90 370	320		80	235	150	13	-			100	ļ	-	Augue ce s Augue ce s Augue ce s
7	5		AL 2010B		10/4	G	PH 6	50 50 30	560 40			80 470	90	370) 3	30	120 280	140 250	32	-	4	***		ļ.,	Saltis Sucion 1 that Saltis On	Last But one Figure in Namerical reference includes visigni—Frotoni Loss in Pipes & Paling. Motor B. H. P. — Recommercial reference includes surger or snages. Por Squides of higher specific graded motodes surger mension when pumping ofeen and pure water.
8	14	+	VL 2020B	GES		G	11 6	10	590	56	i0 3	60	70 510	475	-	-	100	120 410	375	<u>.</u>	-	000			- 3	mence in chicks a
9	1-1		L 3010B	STAG	1 2	GF	PH 9	90)	70 900	1	0 7	90	110	120			140	150	160	18		280	240 220	160 250		rical nefe rreled in granfty
10	1 1 6		L 3010B	OR	1	GP	H 99		50 900	830		70 60	700	620	54					-					n Suction	r Name leconomy specific
11	1 1 4		1.3010B	STAGE	7 1/2	GP	11 99	0	50 900	83(7	50	80 700	90 620	10	0 1	10	370			-	-			Statt	Pigura P. – P
12	$1\frac{1}{4}$	1			1	GP	11 10	-	50 1040	100	-	0	80	90	10			320	260 130	180	1			,,	Total Head	Last But one F Motor B. H. P. Por Squides of
13	14.		1, 3020B 3020B	INDICATES	2	GPI	108	80	70 1040	1000	7	. 60 9	220	890	810		70	700						- 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	● Tota	Month Prov.
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	13	1 -	.3611B	RENCE	1	GP?	f 158	0	40 450	50 1300	61	1		900	778	-	-	-		1	1					
	12		- 15	REFER	2	GPH	165	-	40 580	50 1530	60) 7	0	300	90			k (a)			ļ			16	1	
1	$\frac{1}{2}$		100	BER	3	Feet GP1	2500	2	300	70 2160	80	9	0	100	1420	12	0				<u> </u>	1		***		
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				= _	5	Feet GPH	2700	-	50	60 2520	244	8		90	100	(4)	-	600		14		1	<u> </u>			Commercial Soil advance Graned & Graphined Packing Ball Bandong et things and EMI Reservants to both exits
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0 2		Al.:	5010BB		5	Feet GPH	30 4800	4	0	50 \$360	4100	-				173	1	-	.				<u>.</u> .			ed & G drig and h ends
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5 5.		AL S	020BB	+		Feet	60 4950	480		700			+				-		_						Cast Iron	un metal di asbusi di Beare il Beare
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2"	-	AL 50	020BB	4-1	-	Feet	60 7800	70		80	4550 90	4420	11		150	4000 130	382		560 50	3360 170	2850 200	240 223)O			AND
2 2	-	AL 7(1088	5	-	Feet	30	40		900			- 4	-								1 -		1861	SING	GLAND N.T. & GLAND GLAND PACKING BEARING 'BI' BEARING 'BB'
21/2			010BB	7-2	7 1	Foot	30 7800	739		50	6400	595(70	80	9	100		,					,		Of IC wife	WP CAS	AND AND PARING
$2\frac{1}{2}$		AL 70	010BB	10	/ F	eet	30 30 920	739 40 775	!	50	6400	5950 70	80			4500 100	400 130	0				1.4		TSNO	23	5명품용
2 17		d. 70	20BB	10	£	eet	50 7920	775	1	0	7320 80	7120 90				2.0					11	-				
2 2	A	L 70	20BB	15		661	50	60		50 7	7320 80	7120 90	685		50	6400 120	6130 130	58 14		500 4	1880 170			1		

HAL

Dey



Positive Displacement Rotary Twin gear Pumps type AERN Series for Pumping & Transfer of all Kind of Viscous Liquid & Petroleum Products

AERN SERIES



From $\frac{1}{2}$ " to 6" NB Size (Flanged to ASA 150 Class) Capacity, From : 0.5 to 200 M³/hr, Pres-up to 12 Kg./Cm² Viscosity up to 1,00,000 - cst ,Temperature - up to 110° C

FEATURES

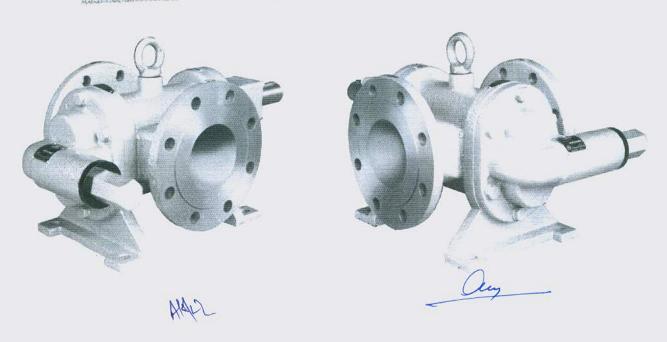
Herrigbone rotors design eliminates side thrust

Modified tooth profile enhances the tooth life

Floating gear-design ensures uniform load distribution

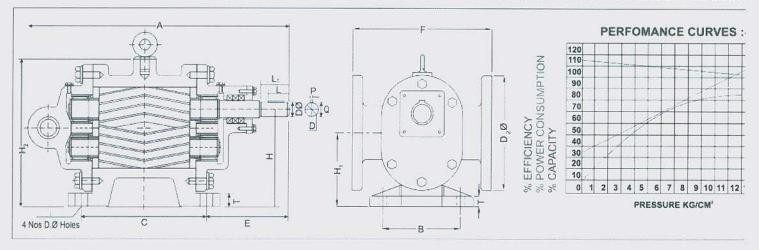
■ Low-leakage path by design improve volumetric efficiency

Extra thick shaft reduces bending effectively



																	56/85)		
MODEL	SIZE	SPEED	C	CAPACIT	ſΥ			HOR	SE POW	IER & C	APACI	TY CHA	RT		PUMP		PARTS		
MODEL	SIZE	S LF	PM	US GPM	M3/hr	'X' 1	2	3	4	5	- 7	8	10	12	WT.		MATERIAL OF	Description of the second	
050-8			8.30	2.20	0.50	0.20	0.23	0.27	0.30	0.32	0.36	0.38	0.43	0.47	I COMPANION !	Sr.	ITEM	QTY.	MATERIAL
050-M	%" X %"	1	6.60	4.40	1.00	0.24	0.28	0.32	0.36	0.40	0.48	0.52	0.60	0.68	8,0	1	PUMP CASING		CI/CS/SS
050-L		2	5.00	6.60	1.50	0.30	0.36	0.41	0.47	0.52	0.63	0.70	0.81	0.93		2	FRONT COVER	1	CI/CS/SS
100-S		3	3.30	8.80	2.00	0.37	0.45	0.54	0.62	0.69	0.86	0.92	1.09	1.25		3	BACK COVER	1	CI/CS/SS
100-M	1" X 1"	4	1.50	11.00	2.50	0.38	0.48	0.57	0.65	0.76	0.95	1.08	1.23	1.41	14.0	4	GLAND COVER	1	CI/CS/SS
100-L		5	0.00	13.20	3.00	0:40	0.50	0.60	0.75	0.89	1,17	1.30	1.59	1.85		5	ROTOR SHAFT	1	SAE8620/EN31
150-S		8	3.30	22.00	5.00	0.70	1.00	1.20	1.40	1.50	1.95	2.15	2.55	2.95		6	STATOR SHAFT	1	SAE8620/EN31
150-M	1%" X 1%"	10	0.00	27.60	6.00	0.85	1.10	1.35	1.55	1.77	2.22	2.45	2.90	3.45	22.5	7	IMPELLER GEAR	1	EN-24-/SS
150-L			5.00	33.30	7.50	1.05	1.45	1.95	2.10	2.40	2,95	3.25	4.00	4.90		8	NEEDLE BRG.	1	NTN/IKO/NRB
200-S	2" X 2"	M 15	0.00	39.00	9.00	1.35	1.80	2.45	3.0	3.50	4.50	5.25	6.35	7.60	20.0	9	WEAR PLATE	1	BRONZE/CI
200-L	2 12		0.00	52.80	12.00	1.80	2.40	2.95	3.50	4.05	5.15	5.70	6.90	8,10	28.0	10	LIFTING HOOK	1	STEEL
250-5	2%" X 2%"	25	0.00	66.00	15.00	2.00	2.50	3.20	3.75	4.30	5.60	6.20	7.70	9.50	40.0	11	R.V. HOUSING	1	MALIRON
250-L	2/2 8 2/2	330	3.00	88.00	20.00	3.80	4.65	5.50	6.35	7.25	9.05	10.50	12.20	14.35	43.0	12	R.V. PISTON	1	EN-8/SS
300-S	3" X 3"	418	5.00	105.00	25:00	5.00	6.00	7.00	8.00	9.00	11.00	12.00	14.25	1 6.50	F0.0	13	R.V. SPRING	1	SPR.ST.
300-L	2 7 2	500	0.00	132.00	30.00	6.00	7.35	8.65	10.15	11.45	14.05	15,40	17.90	21.00	59.0	14	R.V.AD, SCREW	1	EN8/SS
400-S	4" X 4"	666	6.60	176.00	40.00	8.85	10.50	12.00	13.65	16.25	18.25	20.00	22.00	25.50	00.0	15	BASE PLATE	1	M.S.
400-L	4.44	833	3.30	220.00	50.00	9.50	11.50	14.00	16.00	18.00	22.50	25.00	30.00	35.50	82.0	16	COUP. GUARD	1	ALUMN/MS
500-S	5" X 5"	1000	0.00	264.00	60.00	14.50	17.20	19.00	22.00	24.80	30.00	32.40	37.20	42.50		17	COUPLING	1	FLEXIBLE
500-L	2 72	1250	00.0	330.00	75.00	17.50	20.50	23.50	27.00	30.50	36.50	40.00	46.00	53.00	150.0	18	COUP, KEY	_ 1	EN8/SS
600-S	6" X 6"	1660	0.00	440.00	100.00	21.50	25.55	30.00	34.55	40.00	48.85	52.90	62.00	72.00	470.0	19	SEALING SYS.	2	OS/MS/GP
600-L	0 10	2083	3.00	550.00	125.00	25.50	31.00	36.00	41.50	46.50	57,00	63.00	72.00	81.00	175.0	20	DOWEL PIN	4	EN31
601-S	6" X 6"	2499	9.00	660.00	150.00	38.00	43.00	48.00	54.00	60.00	70,00	75.00	87.00	96.00	190.0	21	COMP. FLANGE	2	MS/SS
601-L	3 40	3332	2.00	880.00	200.00	50.00	57.00	64.00	72.00	79.00	93.00	100.00	115.00	127.00	180.0	22	H/T HEX-BOLT	12	EN8/SS

POWER CONSUMPTION IS AT 300 CSP VISCOSITY. IT WILL INCREASE AT 10% FOR EVERY 300 CSP INCREASE IN VISCOSIT



DIMENSIONS

	OVERALL DIMENSIONS			MOUNTING DIMENSIONS					FLANGE DIMENSIONS				SHAFT DIMENSIIONS						
Model	A	F	Н,	В	С	Е	Н	Н,		D _i Ø	No. OF HOLE	D ₂ Ø	HOLE SIZE	P.C.D.	L	L,	DØ	Р	d
AE-050-S-M-L	239	150	110	80	100	91	80	69.0	12	08	4	89	16	60	22	30	11.5	4	13
AE-100-S-M-L	271	160	130	90	110	100	90	74.0	12	10	4	108	16	79	25	30	15.0	5	17
AE-150-S-M-L	318	180	145	105	130	119	100	80.0	14	10	4	127	16	98	25	40	21.0	6	23
AE-200-S-L	359	200	165	110	150	133	112	89.5	14	12	4	152	19	121	40	50	24.0	8	27
AE-250-S-L	419	220	190	130	160	163	132	106.0	15	15	4	178	19	140	40	55	27.0	8	30
AE-300-S-L	481	240	220	160	220	168	160	131.0	20	18	4	190	19	152	53	60	32.0	10	35
AE-400-S-L	554	280	255	180	270	189	180	145.0	22	18	8	229	19	190	53	65	37.0	10	40
AE-500-S-L	615	295	280	200	300	215	200	160.0	25	19	8	254	22	216	60	85	47.0	14	50
AE-600-S-L	690	340	318	220	350	215	225	178.0	26	20	8	279	22	241	70	95	52.0	16	56
AE-601-S-L	749	360	357	240	380	230	250	200.0	28	22	8	279	22	241	70	100	57.0	16	61



Duy





57/85

TECHNICAL DATA SHEET FOR DIESEL BROWSER PUMP

Sr.No.	NORM	PARAMETER
1.	TYPE	CENTRIFUGAL
2.	TYPE OF GEAR	EXTERNAL HELICAL GEAR
3.	MODEL / SIZE	HTPL – 50 / 2" x 2" BSPT
4.	CAP. / PR. / RPM	150 LPM / 2.5 Kg/cm2g / 1000 RPM
5.	SHAFT SEALING	NEOPRENA RUBBER TWIN MECHANICAL
		SEALS
6.	RATED BHP / EFF / Max	3.3 / 25% / 4.3
	ВНР	
7.	Rec. DRIVE	5 HP. 1000 RPM
8.	DESIGN TEMP / PR.	100 Deg C / 10 Kg
	HYDRO TEST PR.	15 Kg
9.	TYPE OF RELIEF VALVE	CUP & CONE TYPE SPRING LOADED BUILT IN
10.	NPSH AVL / REQUIRED	FLOODED / 7 M
11.	MATERIAL OF	C I Gr.25 / ALLOY STL H&G
	CONSTRUCTION	
12.	TYPE OF BEARING	JOURNAL TYPE SLEEVE + BALL BEARING

Manufacured by:

Hindustrian Technologies Pvt. Ltd.
(Formerly known (as Hindusthan Enterprises)

OFFICE : At.-Shivapuri (Nimpur), P.O./P.S.-Jagatpur

Dist.-Cuttack-754021, Odisha

Works : Plot no. 5 & 7, Old Industrial Estate,

Jagatpur, Cuttack-754021, Odisha Ph.-0671-2491348, Fax-2490348

e-mail: marketing@hindusthantechnologies.com

www.hindusthantechnologies.com

Oly

HARY







Regd. Office: AT: SHIVAPURI, (NIMPUR), PO: JAGATPUR, DIST-CUTTACK, PIN-754021, ODISHA Works: PLOT NO. - 5&7, OLD INDUSTRIAL ESTATE JAGATPUR, CUTTACK - 754021, ODISHA Ph.: (0671) 2491348 (O/W), Fax. (0671) 2490348 E-mail: admin@hindusthantechnologies.com Website: www.hindusthantechnologies.com



FIRE FIGHTING SAFETY EQUIPMENTS & SYSTEMS. CONSULTANTS

Spare Parts for M	aintenance Schedule of warran		ouser for 1 year under
TATA/Ashok Leyland/El	CHER/Bharatbenz Chassis		
ITEM	CHANGE INTERVAL	QUANTITY	TOTAL NO. OF CHANGE IN 1 year
Strainer	100000 Km/1 year	1	1
Diesel filter	80000 Km/1 year	1	1
Engine Oil filter	100000 Km/1 year	1	1
Air Filter Primary	120000 Km/1 year	1	1
PUMP			_
ITEM	CHANGE INTERVAL	QUANTITY	TOTAL NO. OF CHANGE IN 1 year
O' ring Kit	1000 Hrs	1	1



For Hindusthan Technologies Pvt. Ltd.





Regd. Office: AT: SHIVAPURI, (NIMPUR): PO: JAGATPUR, DIST- CUTTACK, PIN-754021, ODISHA Works: PLOT NO. - 5&7, OLD INDUSTRIAL ESTATE JAGATPUR, CUTTACK - 754021, ODISHA Ph.: (0671) 2491348 (OW), Fax. (0671) 2490348 E-mail: admin@hindusthantechnologies.com

Website: www.hindusthantechnologies.com

FIRE FIGHTING SAFETY EQUIPMENTS & SYSTEMS.

CONSULTANTS

HTPL/09 Dtd. 30.05.2020

Bharat Coking Coal Ltd., Koyla Bhawan, Dist. Dhanbad, JH -826005

Sub

Fire Extinguisher.

Ref

Tender No. BCCL/ PUR/419109/10KL Diesel Bowser/19-20/59 & Date: 21.01.20120

Tender ID: 2020 BCCL 162632_1

Dear Sir.

With reference to above, we confirmed that the Fire Extinguisher will supplied along with Diesel Bowser is ISI marked with materials test certificate from NFBL Accelerated laboratory.

Presently there is no fire extinguisher having DGMS approved in India. If fire extinguisher is available with DGMS approval, then we will definitely supply DGMS approved fire extinguisher in the supplied Diesel Bouser.

Make of Fire Extinguisher: Fire Safety Devices Pvt. Ltd., Faridabad or Equivalent ISI marked Type: Dry Chemical Powder (ABC type) 6 Kg Capacity -01 No. & Mechanical Foam based 9 L-01 No.

Thanking you, and assuring of our best services at all the times.

Yours faithfully, for Hindusthan Technologies Pvt. Ltd.,



Authorized Signatory

Encl: Literature.







FIRST RESPONDERS

HOD

Day

DRY POWDER FIRE EXTINGUISHERS (Stored Pressure

ABC TYPE - PORTABLE

Capacity 1. 2. 4. 6. 9 kg



Firechem ABC or Multi-Purpose Extinguisher utilize a specially fluidized and siliconized mono ammonium phosphate dry chemical. It chemically insulates Class A fires by melting at approximately 350F and coats surface to which it applied. It smothers and breaks the chain reaction of Class B & C fires and will not be conduct electricity back to the operator

Features:

Non Corrosive Pull Pin Mutipurpose agent contains 90% M.A.P. Chrome plated brass valves Large lop stainless steel pullpins with tether Steel cylinder and internal siphon tubes



Firechem Deep drawn container made high tensile cold rolled sheet.

Minimum welding points to give attractive appearance.

Firechem extinguisher presssurized to 1 bar and 100% leakage tested.

The epoxy powder coating of 50 to 5 micron thickness provides inner & outisurface of the body.

The easy squeeze grip type conrol valv provides for quick activation of th extinguisher.

Firechem easy operation, maintenance refilling and service.

MODEL	FC-ABC-1	FC-ABC-2	FC-ABC-4	FC-ABC-6	FC-ABC-9
Capacity (Kg)	1 Applied	2 ISI	4 ISI	6 ISI	9 Applied
Anti-Corrosive Inhibitor	Epoxy Polyster Powder Coating	Epoxy Polyster Powder Coating			
Confirming IS Code	15683	15683	15683	15683	15683
Type of Extinguisher	Constant Pressure	Constant Pressure	Constant Pressure	Constant Pressure/Gas Cartridge	Constant Pressure/Gas Cartridge
Type of Extinguishing Media	Dry Powder IS 14609/IS 4308	Dry Powder IS 14609/IS 4308			
Expeliant	Pressurized with N2 Gas	Pressurized with N2 Gas			
Minimum Effective Discharge(%)	85	85	85	85	85
(Minimum Jet Length (mtrs.)	More than 2 mtr.	More than 2 mtr.			
Discharge Time (Sec.)	Mor than 8 Sec.	Mor than13 Sec.	Mor than13 Sec.	Mor than 13 Sec.	Mor than13 Sec.
Hydraulic Test Pressure(kgf/cm)	35	35	35	35	35
Operating Position	Upright	Upright	Upright	Upright	Upright
Charged Pressure(kgf/cm.)	15	15	15	15	15
Operating Temperature Range (C)	(-30 to (+) 55	(-30 to (+) 55			
Operation Value	Squeeze Grip Type	Squeeze Grip Type	Squeeze Grip Type	Squeeze Grip Type	Squeeze Grip Type
Operating Value	with Nozzle	with Nozzle	DischargeHose & Nozzle	DischargeHose & Nozzle	DischargeHose & Nozzie
Fire Raiting	1A, 88 C	1A, 13B	2A, 348	4A, 55	4A, 55B, C

Also available UL Listed Range of ABC Fire Extinguishers















CARBON DIOXIDE FIRE EXTINGUISHER

PORTABLE-TYPE

IS: 15683 CML-2651152



Capacity 2, 3, 4.5 kg

Features:

- Simple Operation and maintenance.
- The ring pin and visual seal help prevent unwanted discharge of the extinguisher.
- The discharge valve wheel type provides for good performance of the extinguisher.
- The epoxy powder coating of 50 to 90 micron thickness provides inner & outer surface of the body.
- Easy refilling and compact designed.

Firechem Co2 Extinguishers units provide the power to respond quickly and effectively by design to protect against Class B (flammabl liquuids and gases) and Class C (energized electrical equipment) fires. These extinguishers are well suited for indoor use in furnace rooms, printing presses, pump rooms, rlectical power panels and laboratories where winds are drafts do notttt affect discharge.

SYMBOL: B, C&E

Model No.	FC - Co-2	FC - Co-3	FC - Co-4.5
Capacity (Kg)	2 Kg IS Applied For	3 Kg ISI	4.5 Kg ISI
Extinguishing Agent	Liquefied Gas (CO2)	Liquefied Gas (CO2)	Liquefied Gas (CO2)
Gas Filling Ratio	0.667% per kg	0.667% per kg	0.667% per kg
Fire Rating	138	13B	21B
Discharge Time (Sec.)	8-15 Sec.	8-16 Sec.	9-16 Sec.
Discharge Horn	Polythylene	Polythylene	Polythylene
Hose Length (mtr.)	N.A.	N.A.	N.A.
Working Pressure	N.A.	N.A.	150 kgf/cm²
Operating Temperature	-30° C to 55°C	-30° C to 55°C	-30° C to 55°C
Dimension (OD) mm	110mm	110mm	110mm
Hydraulic Pressure Test	250kgf/cm²	250kgf/cm²	250kgf/cm²

Oil, Kerosene, Petrol etc





Electrically Started

POWDER FIRE EXTINGUISHERS (Cartridge Type)

ABC TYPE - PORTABLE

Capacity 1, 2, 4, 6, 9 kg:





BC POWDER

ABC POWDER

MODEL	FC-BC-1	FC-BC-2	FC-ABC-4	FC-ABC-6	FC-ABC-9
Capacity (Kg)	1 Applied	2 ISI	4 ISI	6 ISI	9 Applied
Anti-Corrosive Inhibitor	Epoxy Polyster Powder Coating	Epoxy Polyster Powder Coating			
Confirming IS Code	15683	15683	15683	15683	15683
Type of Extinguisher	Constant Pressure	Constant Pressure	Constant Pressure	Constant Pressure/Gas Cartridge	Constant Pressure/Gas Cartridge
Type of Extinguishing Media	Dry Powder IS 4308	Dry Powder IS 4308	Dry Powder IS 14609	Dry Powder IS 14609	Dry Powder IS 14609
Expeliant	Pressurized with N2 Gas	Pressurized with N2 Gas			
Minimum Effective Discharge(%)	85	85	85	85	85
(Minimum let Length (mtrs.)	More than 2 mtr.	More than 2 mtr.			
Discharge Time (Sec.)	Mor than 8 Sec.	Mor than 13 Sec.	Mor than13 Sec.	Mor than 13 Sec.	Mor than 13 Sec.
. Hydraulic Test Pressure(kgf/cm.)	35	35	35	35	35
Operating Position	Upright	Upright	Upright	Upright	Upright
Charged Pressure(kgf/cm ₂)	15	15	15	15	15
Operating Temperature Range (C)	(-30 to (+) 55	(-30 to (+) 55	(-30 to (+) 55	(-30 to (+),55	(-30 to (+) 55
	Squeeze Grip Type	Squeeze Grip Type	Squeeze Grip Type	Squeeze Grip Type	Squeeze Grip Type
Operating Value	with Nozzle	with Nozzle	DischargeHose & Nozzle	DischargeHose & Nozzle	DischargeHose & Nozzle
Free Raiting	1A, 88 C	1A, 13B	2A, 34B	4A, 55	4A, 55B, C

Also available UL Listed Range of ABC Fire Extinguishers









CLEAN AGENT FIRE EXTINGUISHER

PORTABLE-TYPE



Clean Agent is the mosy powerful, Eco Friendly Fire Extinguisher This ABC fire extinguisher is suitable for fire of paper, Wood Cloth, Flammable Liquids (Pertrol, Kerosene, Paints) Gases (LPG, Acetylene) & Electricity Started You can Fight with any type of fire

Features:

- Zero Ozone Depletion Potential (ODP)
- Low Global Warming Potential (GWP)
- Environmentally Safe
- Electrically Non-Conductive
- Colorless and Odorless
- Rapidly Evaporating Liquid (leaves no residue)
- Cost Effective Extinguishing Agent
- User Friendly (low in toxicity)
- Good Visibility during discharge (does not impair operator's vision)

Areas of Application:

- Computer/Server Rooms
- Telecommunications Facilities
- Data Storage Areas
- Offices (for protection of sensitive electronic equipments)
- **Boats & Vehicles**
- Irreplaceable Document and Art Storage Rooms
- Laboratories
- Museums
- Aircrafts
- Bank ATM Centers



FC - 142	FC - 144	FC - 146
2	4	6 Axp.
18	18	18
15	15	15
35	35	35
More than 13	More than 13	More than 13
Squeeze Grip Type	Squeeze Grip Type with	Squeeze Grip Type with
with nozzle	Discharge Hose and nozzle	Discharge Hose and nozzle
-20 + 55°C	-20 + 55°C	-20 + 55°C
HFC(236) UL Listed	HFC(236) UL Listed	HFC(236) UL Listed
	2 18 15 35 More than 13 Squeeze Grip Type with nozzle -20 + 55°C	2 4 18 18 15 15 35 35 More than 13 More than 13 Squeeze Grip Type Squeeze Grip Type with with nozzle -20 + 55°C -20 + 55°C









WATER/FOAM EXTINGUISHERS (Gas Cartridge Type)

IS: 15683 CML-2651152





WATER

	W W 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
MODEL	FC-1	FC2					
Capacity (Kg)	6	9					
Anti-Corrosive Inhibitor	Epoxy Polyster Powder Coating	Epoxy Polyster Powder Coating					
Confirming IS Code	15683	15683					
Type of Extinguisher	Constant Pressure	Constant Pressure					
Type of Extinguishing Media	Soft Water	Soft Water					
Expeliant	Pressurized with NZ Gas	Pressurized with N2 Gas					
	60 Gsm Gas Cartridge	90 Gsm/120 Gas Cartridge					
Minimum Effective Discharge(%)	95	95					
(Minimum Jet Length (mtrs.)	More than 2 mtr.	More than 2 mtr.					
Discharge Time (Sec.)	Mor than 13 Sec.	Mor than 13 Sec					
Hydraulic Test Pressure(kgf/cm.)	35	35					
Operating Position	Upright	Upright					
Charged Pressure(kgf/cm.)	15	15					
Operating Temperature Range (C)	(-30 to (+) 55	(-30 to (+) 55					
	Squeeze Grip Type	Squeeze Grip Type					
Operating Value	with Nozzle	with Nozzie					
· Free Raiting	2A,	3A					

FOAM

\$1.70%	
FC-6	Fc9
6	9
Epoxy Polyster Powder Coating	Epoxy Polyster Powder Coating
15683	15683
Constant Pressure/Gas Cartridge	Constant Pressure/Gas Cartridge
Water & AFFF IS4989	Water & AFFF Is4989
Pressurized with N2 Gas	Pressurized with N2 Gas
60 Gsm Gas Cartridge	90 Gsm/120 Gas Cartridge
95	95
More than 2 mtr.	More than 2 mtr.
Mor than13 Sec.	Mor than13 Sec.
35	35
Upright	Upright
15	15
(-30 to (+) 55	(-30 to (+) 55
Squeeze Grip Type	Squeeze Grip Type
DischargeHose & Nozzle	DischargeHose & Nozzle
2A 21B	3A 55B

Also available UL Listed Range of ABC Fire Extinguishers





MAKE

Chy

KITCHEN FIRE EXTINGUISHER

Cooking appliances today allow for the potentially dangerous mixture of flammable oils and greases with high efficiency heat sources, creating an environments in which fire is always a threat. Freeze fire kitchen extinguisher can protect all those diverse hazard areas and perform all the necessary auxiliary functions.

Why to use Freeze Fire Kitchen extinguisher?

Wet Chemical. With the introduction of the Class K in the late twentieth century for cooking media fires, wet chemical extinguishing agents have become important in both portable fire extinguishers and fire suppression systems. Test have shown that the previous school of thought protection grease fire with a Class B:C extinguisher have failed with the introduction of vegetable oils. Previously the primary grease used was animal fat based. Test showed that the dry chemicals would sink in the vegetable oils and the fire had a high potential to re-flash. These water based solutions produce a chemicals reaction when applied to vegetable oils, creating a thick foam-like blanket that smothers the fire on top of the oil and prevents re-flash.

APPROVALS

Confirming to NFPA 18

Meets the requirements of UL standard 8 and UL 711

Meets the new class K (Combustible cooking media) requirements of NFPA 10

- Areas of Application
- Hotel
- Open Kitchen Restaurants
- Food Courts
- Commercial Kitchen
- Residential Kitchen
- Canteen

- Features
- Easy to install
- Efficient Service
- Extremely Fast cooling
- Advanced agent technology
- Capacity
- 1kg, 2kg, 4kg, 6kg



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CEILING MOUNTED (MODULAR)

Automatic Fire Extinguisher (Clean /ABC / BC Type)



Application :-

Class A Fire: Wood, Textiles, Paper, Clothes, Cotton Mill, Jute Mill etc.

Class B Fire: Petroleum, Oil, Paint, Varnish, Solvent,

Flammable and Volatile Liquids etc.

Class C Fire: Flammable Glasses, Industrial Gasses etc.

As well as Electrical Fires.

Technical Specification

Capacity (Kg)	:	2/4/5/6/10 & 15
Extinguishing Media	*	ABC Dry Powder / Clean Agent / BC Powder
Minimum Effective Discharge	:	95%
Testing Pressure (kgf/cm2)		35
Testing Pressure (kgf/cm2)		15
Charged Pressure (kgf/cm2)	*	
Mounting	:	Ceiling Mounting Type
Operating Temperature	1	Automatically at 57/68/93/107 & 143 Deg. C
Available in	:	MAP 50 / MAP 90
Effective against	:	A.B.C. & Electrically Started Fires.









Petrol, etc.



Electrically Started



Fire Safety Devices Pvt. Ltd.

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Annexure-F

(Details of Depot/Warehouse and service facility available)

Tender no.: BCCL/PUR/419109/10KL/Diesel Bowser/19-20/59, Date: 21.01.2020

Clause No. D.6. (b):
Details of nearest Depot warehouse and service facility available for service support (existing

for the present offer Major Depot/ Warehouse			Service Facility (existing for the present offer)			
Location	Contact nos.	Inventory value (Apporx.)	Type of facility available	No. of Service Engineers / Technicians with their Contact Numbers		
Plot No. 5 & 7. Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha Phone: 0671-2491348, 2490348(fax) e-mail: production/a hindusthantechn ologies.com service/a hindusthantechnologies.com	Mr.B.B.Patta nayak (General Manager After Sales Service) Mobile: 9437579348 9439695799	64.87 Lakhs	1- Greasing 2- Overhauling of Pumps 3-Body Repair (Denting Painting) 4- Tyre Changer 5- Crane facility upto 5 ton capacity 6- Painting Shop Facilities (Heat Chamber, High Capacity Compressor, Gun & Best Quality PU paint) 7- Sand blasting shot blasting facilities 8- Shower Rain test facilities 9- Servicing Ramp 10- Lathe facilities	No. of Service Engineer = 04 Nos. 1- Dillip Mohanty (M- 9439695809) 2- H K Sahoo (M-7381055998) 3- Deepak Mohapatra (M-8594906092) 4-Manoranjan Sahoo (M-9439695816) No. of Technicials = 06 Nos. 1- B D Samanta (M-9439695817) 2- Sanatan Behera (M-9438519090) 3- Sanjay Mohanty (M-7536967336) 4- Jayram Reddy (M- 8917659816) 5- Jyotiranjan Das (M- 9861947044) 6-Paresh Das (M- 9337435349)		

Moreover we hereby confirmed that we are having fully equipped workshop with trained service engineers at our end to attend and resolve the service issues within 24 to 72 hrs depending upon magnitude of defects (on site service location). The spare parts as and when required will be supplied as per mutual agreement in time bound manner for function of maintenance van uninterrupted.

Date: 30.05.2020 Place: Cuttack

for Hindusthan Technologies Pvt. Ltd.,

Authorized Signatory

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CERTIFICATE



This is to Certify that the Quality Management System

of

HINDUSTHAN TECHNOLOGIES PVT. LTD.

Regd. Office: Shivpuri, Nimpur, Jagatpur, Cuttack-754021, Odisha, India

Works: Plot No. 5 & 7, Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha, India.

has been found to comply with

ISO 9001:2015

This certificate is applicable to the following scope

Manufacture and Supply of Fire Fighting Equipments (Vehicles/Pumps), Fire Appliances & Safety Equipments, Explosive Vans, Canteen Vans, Maintenance Vans, Police Vehicles, Water/Oil Tankers/Bousers and Other Commercial Industrial Vehicles as per Customer Requirements

Certificate No::I-QSC201908022

Date of initial registration

Surveillance Audit on/before

Certificate Expiry

Recertification Due

07, August, 2019

07, July, 2020

06, August, 2020

06, August, 2022

Authorized Signatory
BQC ASSESSMENT PRIVATE LIMITED

(formerly BQC Certifications) 202 DLF Galleria Mali, Mayur Vihar Phaso-1 Extension Delhi-110091

Webstell www.bgccert.com, E-mail info@bgccert.com Accredited by International Accreditation Service TO US ATTESTED TO SERVANNA MOHANTY NOTES TO TACK

The validity of this certificate can be verified at www.bgccert.com or through info@bcccert.com. This certificate is the property of BOC Assessment Pvt. Ltd., and must be returned on request. Accreditation cetails are available with IAS, (International Accreditation Service) Inc. USA at www.asonline.org

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Date: 11.02.2020





Regd. Office; AT. SHIVAPURI, (NIMPUR) PO-JAGATPUR DIST: CUTTACK, PIN-754021, CDISHA Works: PLOT NO -587, OLD INDUSTRIAL ESTATE JAGATPUR: CUTTACK -754021, COICHA Ph (0571) 2493434 (OW), Fax (0571) 2490348 E-mai: admin@h.ndushaniechnologies.com Website: www.handushaniechnologies.com

FIRE FIGHTING SAFETY EQUIPMENTS & SYSTEMS CONSULTANTS

QUALITY CERTIFICATE

Ref : Tender No. BCCL PUR 419109 10KL Diesel Bowser 19-20 59 & Date: 21.01.2018

Tender ID : 2020 BCCL 162632 1

I We certify that there has not been any complaint against the quality of our products supplied to Government Departments or Public Sector Undertakings Other organizations.

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Signature of the Tenderer Seal of the Firm

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Annexure - H



Tender Inviting Authority: GM (MM) BCCL HQ

Name of Work: SUPPLY OF 10KL Diesel Bowser and Consumables for Warranty Period of 01 Year

NIT No:BCCL/PUR/419109/10KL Diesel Bowser/19-20/59 Date: 21.01.2020

Bidder Name: Hindusthan Technologies Pvt.	.10.	TE	CHNICAL	PARAMETER SHE	ET				
	Bidder's			Evaluation Criteria (To be	Required	C	Eligibility		
S. Item lo * Code * Description of Item *	Eligibility Status		Unit of Measure		Value *	Bidder's value *	Specification		Remarks by bidder, if a
1 dem1 10KL Diesel Bowser and	0	Whether quoted or not quoted for this	NA.	NOT NULL	NOT NULL	QUOTED	TRUE	Overall	
Consumables for Warrant Period of 01 Year		item?							
		"Schedule of Requirements" as per Annexure-A of NIT	NA	AGREED or DISAGREED	AGREE	AGREE	TANADA .		
		"Schedule of Requirements of Services" as per Annexure-A of NIT	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		"Instructions to Bidders" as per	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		Annexure-A of NIT "General Requirements" as per	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		Annexure-A of NIT "Scope of specification "PART D:- Equipment Specification" of Annexure-	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		A of NIT(Clause-1)	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		NIT(Clause-2) "Design criteria" as per "PART D:- Equipment Specification" of Annexure-	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		Truck Cab Chassis* as per *Equipment Specification* of	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		Annexure-A of NIT(clause 4.1) "Technical Specification "PART D- General Treatment of all Metals" as per "Equipment Specification" of Annexure-A of NIT(clause-4.2)	A of NTr(clause 4.1) Specification "PART D- earment of all Metals" as sment Specification" of A of NIT(clause-4.2) Specification "PART D- so NIT (clause-4.2) Specification "PART D- size as per "Equipment on" of Annexure-A of	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		"Technical Specification "PART D - Tank Details" as per "Equipment Specification" of Annexure-A of NIT(clause-4.3)		TRUE					
9		"Technical Specification "PART D- Material construction of Tank" as per "Equipment Specification" of Annexure-A of NIT(Clause-4.4)	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		"Technical Specification "PART D - Venting" as per "Equipment Specification" of Annexure-A of NIT(Clause:4.5)	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
			NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		"Technical Specification "PART E- Tank Gauging arrangement" as per "Equipment Specification" of Annexure-A of NIT(Clause-4.7)	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		Tank overturn protection" as per "Equipment Specification" of Annexure-A of NIT(Clause-4.8)	NA	AGREED or DISAGREED	AGREE		TRUE		
		"Technical Specification "PART D- Discharge metering arrangement" as per "Equipment Specification" of Annexure-A of NIT(Clause-4.9)	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		Safety arrangements" as per "Equipment Specification" of	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE	COMPLIED	
		Annexure. A of NIT(Clause.4.10) "Technical Specification "PART D- Painting" as per "Equipment Specification" of Annexure-A of NIT(Clause.4.11)	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
			NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		"Technical Specification "PART D- Testing of Tank" as per "Equipment Specification" of Annexure-A of	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		NIT(Clause-4.13) "Technical Specification "PART D Detailed Dimensional Drawing " as per "Equipment Specification" of Annexure-A of NIT(Clause-4.14)	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		"Technical Specification "PART D- Turn key & Licensing" as per "Equipment Specification" of Annexure-A of NIT(Clause 4.15)	NA:	AGREED or DISAGREED	AGREE	AGREE	TRUE		The Chassis will be invoice in our name shift to party will be BCCL in that invoice and we will deliver the camplene Diese Bouser along with all ownership doorn documents (like Temporary resistance) form 21, 22, 22, 24) in the name form 21, 25, 24, 24) in the name registration of Newton Personal Per
		Lighting" as per "Equipment Specification" of Annexure-A of	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		scope of job
		Fire extinguisher system" as per "Equipment Specification" of	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE		
		Annexure-A of NIT(Clause-4.17) "Technical Specification "PART D - Performance guarantee" and other requirements" as per "Equipment Specification" of Annexure-A of	NA	AGREED or DISAGREED	AGREE	AGREE	TRUÉ		
		Information to be provided by the bidder" as per Annexure-A NIT	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE	E	
		bidder" as per Annexure-A NIT (details to be uploaded separetly in relevent upload section)							

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Do you have MSME status certificate NA YES or NO YES TRUE for this item? Do you have Ancillary status of BCCL NA YES or NO YES TRUE certificate for this item? Specify make and model: NA NOT NULL NOT NULL Hindusthan Technologue Pvt. Ltd & Deed Bouser Specify Offered Quantity NA NOT NULL NOT NULL NOT NULL Fire TRUE TRUE TRUE	Supplementary Items, Information and drawing, Erection, Assembly, Commissioning, Performance testing, and Training as per Scope of Supply of Annexure-A	NA	AGREED or DISAGREED	AGREE	AGREE	TRUE	
Certificate for this item? Specify make and model: NA NOT NULL NOT NULL Hindustrian Technologies Pvt. Ltd & Diesel Bauser TRUE Technologies Pvt. Ltd & Diesel Bauser	Do you have MSME status certificate N	NA	YES or NO		YES	TRUE	
Technologies Pvr. Ltd & Diede Bouser		NA	YES or NO		YES	TRUE	
Specify Offered Quantity NA NOT NULL NOT NULL five TRUE	Specify make and model:	NA.	NOT NULL	NOT NULL	Technologies Pvt. Ltd	TRUE	
	Specify Offered Quantity N	NA	NOT NULL	NOT NULL	five	TRUE	

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Annexure-I

(General Conditions of Contract)

GENERAL TERMS AND CONDITIONS OF SUPPLY OF STORES

1. Definition:

In the interpretation of the Contract and the general and special conditions governing it unless the context otherwise requires:

i. "Contract" means the invitation of 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 supplier.

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 assignee 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 - cum- Managing Director means Chairman - cum Managing Director of BCCL, Dhanbad v. The term DRAWING shall mean the drawings, the plans specified in or annexed to the schedule of specification.

vi. The term "PURCHASE EXECUTIVE" shall mean the purchaser or purchaser named in the schedule to the tender, his or their successors or assignees.

vii. The term INSPECTOR shall mean any person nominated by or on behalf of the purchaser to inspect supplies, Stores or works 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. Specification

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 patter or sample sealed by the purchaser for guidance of the Inspector.

e. Trade pattern denoting a standard of the ISI or other standardizing authority of Bharat Coking Coal Ltd and / or a general standard of the Industry and obtainable in the open market.

f. Proprietary make denoting the product of an individual manufacturer 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 & 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.

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- **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.
- 3. Words in the singular include the plural and vice-versa.
- **4.** Words denoting the masculine gender shall be taken to include the famine 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 India 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 communications are to be sent 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 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 the 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 Six months from the date of submitting quotations unless otherwise specified.
- vi. Tender must invariably be submitted along with illustrated literature giving complete and detailed specifications, particulars etc. of the main unit and of the standard accessories to be supplied with the stores.

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- vii. Tender must clearly specify their recommended spare parts that will be supplied along with the main unit and item wise prices of the spares 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 initialled 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 quotation.
- ii. All samples required for inspection or test shall be supplied by the successful tenderer free of cost.
- iii. All samples must be clearly labelled 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, assign the contract or any part thereof or interest therein or benefit or advantage thereof in a 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 as 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 for compensation against the purchase.
- iii. If the contract is not determined as provided in the sub-clause 1.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) of this sub-clause, it shall be lawful of the purchaser to cancel the contract and purchase or authorise 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.
- 11. 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 CIL and or its subsidiary companies by purchase or under arrangement made or permit, license, 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

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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 may 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 up to such destination as may be determined by CIL 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 CIL and or its subsidiary companies all money, 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 question 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. For orders placed directly on overseas suppliers, the tenderers should separately indicate 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. The 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
- 14. 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 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.
- 15. 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 authorised and specified and specified in the contract or supply order or any amendment thereof. a) Facilities for Test and Examination: The supplier shall, at his own expenses, afford to the Inspector all responsible facilities and such accommodation as may be necessary for satisfying it, that the stores are being and/or have been manufactured in accordance with particulars. The Inspector shall have full

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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.

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 examination 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 suppliers 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 cannot be in accordance with the contract owing to the adoption of any unsatisfactory method of manufacturer.

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

iii. To reject the whole of the instalment tendered for inspection, if after inspection 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 resubmitted.

(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 resubmit the stores, in replacement of those rejected, within a specified time, the suppliers bearing the cost of freight, if any, on such replacement without being entitled to any extra payment

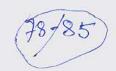
on the account; or

- ii. Purchase or authorise 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 instalment due under the contract; or
- iii. Cancel the contract and purchase or authorise the purchase of the stores or others of a similar description (when stores exactly complying with particulars are not in the 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) Inspector's Decision as to Rejection Final: The Inspector's decision as regards the rejection shall be final

and binding on the supplier.

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(j) Where under a contract, the price payable is fixed on FOR station of despatch 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 shall be notified to the supplier.

(l) 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 recognised Government or purchaser's mark. The stores which can not 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 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 for the moment 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 note duly completed, for being attached to the supplier's bill thereof.

16. 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 despatched. He will not book any consignment on a "said to contain" basis. If he does so, he does it on his own responsibility. Bharat Coking coal Ltd 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 package 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.
- 17. **Delivery**: The time for and the date of delivery of the stores stipulated in the 'Purchase Order' shall be deemed to be the essence of the contract and delivery of the stores must be completed by the date specified.

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- 18. 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 any embargo or blockage, or fire, flood, acts of nature or any other contingency beyond the suppliers' control due to act of God then CIL or its subsidiary Companies may 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 CIL 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.
- 19. 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 officer) 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.

20. 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.

- 21. The supplier shall at all times indemnify CIL 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 Patent, Registered Design, or Trade Mark being made against CIL 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
- 22. 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.
- 23. 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, CIL 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.
- 24. 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.

25. 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.

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(d) Marking of Stores: The marking of the stores must comply with the requirement of the law relating to merchandise marks for the time being in force in India.

26. 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 in 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 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 the behalf under Chapter IX of the Indian Panel 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 shall be final and binding on the supplier.

27. Insolvency and Breach of Contract

- a) Coal India Limited and or its subsidiary companies may at any time by notice in writing, similarly determine the contract without compensation to the supplier in any of the following events that is to say If the supplier being an individual or if a firm any partner thereof shall at any time be adjudged insolvent or shall have a receiving order or order of 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 wound up voluntarily by the order of a court or a receiver, Liquidating 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.

28. Progress Report

- 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 shall operate an estoppel against the purchaser merely by reason of the fact that he has not taken notice of or objected to any information contained in such report.
- **29.** 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".

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Annexure-J
(Bank Details for Electronic Payment)

VENDOR / SUPPLIER / CONTRACTOR / CUSTOMER'S NAME & ADDRESS: (With Telephone No. & Fax No.)	Hinduethan Technologies Put, Ltd. Shivapuri, N'mpur, jagatpur, Cuttak 79101 Ph.: 0671-2411348, Fax No0671-2490348	
PARTICULARS OF BANK ACCOUNT: A. BANK NAME:	AXIS Bank Ltd.	
B. BRANCH NAME:	Tagatpun, UTTB 8000 859	
ADDRESS:	Jagatpur, Kerdinipana Road, Cutalk-75401	
C. 9-DIGIT CODE NUMBER OF THE BANK & BRANCH (As appearing on MICR Cheque issued on the Bank) Or 5- DIGIT Code Number of SBI	753211004	manus
D. ACCOUNT TYPE: (S.B. Account/Current Account Or Cash Credit with Code 10/11/13)	Cush credit	
E. LEDGER NO./LEDGER FOLIO NUMBER:		
F. ACCOUNT NUMBER (CORE BANKING) & STYLE OF ACCOUNT (As appearing on the Cheque Book)	417030028740418	
DATE OF EFFECT:	11-02-2020	
hereby declare that the particulars given above as ffected at all for reasons of incomplete or incompanies, and incomplete or incompanies, and in the second invitation letters.	e correct and complete. If the transaction is delayed or no prect information, I would not hold the user institution and agree to discharge responsibility expected of me as wied by the bank of such e-transfer shall be borne by us.	a
late: 4 - 02 - 2020	672	ECHNOLO

Signature of the Authorized Officials from the Bank

Bibhu Ketan Panda Sr.Manager & Operation Head S.S.No-8813, Emp ID-54145

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Annexure-K Security Deposit Bank Guarantee Proforma

(Name & address of the Purchaser)Company)
Re: Bank Guarantee in respect of Agreement datedDay of20between . (Name Of Purchaser Company) and (Name of Supplier Company)
Messers
on the terms and conditions contained in the said agreement.
It has been agreed that
as
security for due repayment of the said sum in terms of the said agreement, and also interest as therein provided.
The
We(Name of the Bank)(hereinafter called' the Bank) do here by unconditionally agree with the Company that if the Contractor shall in anyway fail to observe or perform the terms and conditions of the said agreement regarding repayment of the said sum of Rs
Delay in deliveries or shall commit any breach of its obligations there under, the Bank shall on demand and without any objection or demur pay to the Company the said sum of Rs
or
such portion as shall then remain unpaid with interest without requiring the company to have recourse to any legal remedy that may be available to it to compel the Bank to pay the same, or calling on the company to compel such payment by the contractor.

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

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claim.

The Bank further agrees with the Company that the Company shall have the fullest liberty without the consent of the Bank and without affecting in any way the obligation share under to vary any of the terms and conditions of the said agreement or to extend the time for performance of the said agreement from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the contractor and to forbear to enforce any of the terms and conditions relating to the said agreement and the Bank shall not be relieved from its liability by reason of such failure or extension being granted to the contractor or through any forbearance, act or omission on the part of the Company or any indulgence by the Company to the contractor or any other matter or thing whatsoever which under the law relating to sureties would but for this provisions have the effect of relieving or discharging the Guarantor.

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

Notwithstanding anything herein contained the liability of the Bank under this guarantee is restricted to Rs.....only. The guarantee shall remain in force till the....... Day of and unless the guarantee is renewed or a claim is preferred against the

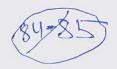
Bank within 3 months from the said date all rights of the company under this guarantee shall cease and the Bank shall be released and discharged from all liability hereunder except as provided in the preceding clause.

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

Place......Signature of the authorized person

For and on behalf of the Bank.

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Annexure-L Performance Bank Guarantee Proforma

Re: Bank Guarantee in respect of Agreement dated
Messers
It has been agreed that
The(Name of the Bank) having its office at
We

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

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We, the Bank- further agree that the guarantee shall come into force from the date hereof and shall remain in full force and effect till the period that will be taken for the performance of the said agreement which is likely to be theday of
but if The period of agreement is extended either pursuant to the provisions in the said agreement or by mutual agreement between the contractor and the Company the Bank shall renew the period of the guarantee failing which it shall pay to the Company the said sum of Rs, or such lesser amount out of the said sum of Rs as may be due to the Company and as the Company may demand. This guarantee shall remain in force until the dues of the Company in respect of the said sum of Rs and
interest are fully satisfied and the company certifies that the agreement regarding repayment of the said sum of Rshas been fully carried out by the contractor and discharges the guarantee.
The Bank further agrees with the Company that the Company shall have the fullest liberty without the consent of the Bank and without affecting in any way the obligations hereunder to vary any of the terms and conditions of the said agreement or to extend the time for performance of the said agreement from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the contractor and to forbear to enforce any of the terms and conditions relating to the said agreement and the Bank shall not be relieved from its liability by reason of such failure or extension being granted to the contractor or through any forbearance, act or omission on the part of the Company or any indulgence by the Company to the contractor or any other matter or thing whatsoever which under the law relating to sureties would but for this provisions have the effect of relieving or discharging the Guarantor.
The Bank further agrees that in case this guarantee is required for a longer period and it is not extended by the Bank beyond the period specified above the Bank shall pay to the Company the said sum of Rsor such lesser sum as may then be due to the Company out of the said advance of Rsand as the Company may require.
Notwithstanding anything herein contained the liability of the Bank under this guarantee is restricted to Rs
Dated this day of 20 Place Signature of the authorized person

For and on behalf of the Bank.

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