



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

Purchase Order

Ref: PUR/413008/Motor Grader 280 HP/13-14/211

Dated 12.12.2013

To,
M/s BEML Limited,
KAMALKUNJ, KOLAKUSMA,
PO-SARAIIDHELA,
DHANBAD, JHARKHAND - 828127

Vendor Code-1/22/M/P/011
Vendor Type- OEM
Material Code- 12410990017

Ph No-0326 2208982
FAX NO-0326-2200182

EMAIL- bemldha@rediffmail.com, ghanbad@rm.beml.co.in

Sub: Supply of 280 HP Motor Grader with Spares.

Ref: Your offer No BEML/MFM/BCCL TENDER/BG825/13-14/831(OLB) Dated 22.08.2013 read with subsequent clarifications last being BEML/MF/BG825/13-14/1168 dated 22.10.2013 against this office Global E-Tender No PUR/413008/Motor Grader/13-14/37 dtd. 04/05.07.2013, offline due on 22.08.13 & online due on 23.08.13 read with subsequent letters Last being PUR/413008/Motor Grader 280 HP/13-14/3624 dated 10.10.2013.

Dear Sirs,

Your above referred offer for supply of 280 HP Motor Grader with spares has been accepted to the extent as indicated hereunder:-

1. SCOPE OF SUPPLY

A. Equipment:

Description	Qty-	Basic Ex Works Price / Unit(Rs)	Extended value (Rs)
Equipment Package – 280HP Motor Grader (BEML Model BG825) (Replacement/NCD) powered by BEML BS6d140-1, turbocharged, water cooled, 6 cylinder diesel engine developing 209KW(280HP) net power @2100rpm and as per scope of supply of order. Supplementary Items - First fill of all oils, grease and lubricants needed for test and commissioning of equipment, Information and Drawings, Erection/Assembly, Commissioning and Performance Testing, Training (detail scope & specifications as per Annexure A)	4 Nos	18659000.00	74636000.00
Excise Duty extra as applicable. Present rate is ED @ 12.36% inclusive of Education cess			9225009.60
CST extra as applicable. Present rate is @2% on Basic price + ED			1677220.19
Freight inclusive of Service Tax @ 12.36%		216590.00	866360.00
Transit Insurance Inclusive of service tax @ 12.36%		4355.07	17420.28
Total –Landed value of Equipment			86422010.07
Filters & O rings inclusive of standard Engine filters required for first 3000 hours of operation from the date of commissioning of the equipment as per Annexure B-1	4 Sets	FREE OF COST.	
End Bit and Cutting Edge along with Fastener- 24 sets per equipment as per Annexure B-2	4 Sets	FREE OF COST.	
TOTAL PURCHASE VALUE			86422010.07
		Rounded off to	86422010.00
Rs EIGHT CRORE SIXTY FOUR LAKHS TWENTY TWO THOUSAND TEN ONLY.			

Material Code- 12410990017

Supply Point:

Supply and billing will be from BEML Limited, Belvadi Post, Mysore,
Karnataka 570 018

2. **TOTAL PURCHASE VALUE (Equipment):** Rs 86422010.00 (Rupees EIGHT CRORE SIXTY FOUR LAKHS TWENTY TWO THOUSAND TEN ONLY.) The above price is on Ex- works Mysore basis & firm till completion of order, however the contract is concluded on F.O.R. destination basis. Duties & taxes and other charges are payable extra at the rate prevailing at the time of delivery as indicated in the scope of supply above.
3. **EXCISE DUTY WITH EDUCATION CESS:** Shall be paid extra at legally applicable rates at the time of delivery, subject to production of documentary evidence. Present rate is @ 12.36% on basic price of equipment.
Refund/Credit, if any, obtained shall be passed on to the buyer which shall be certified by your auditor and to be submitted along with your bill.
BCCL is entitled to avail CENVAT credit on account of Excise duty for Indigenous products and Countervailing Duty and Special additional duty for imported products. The invoice issued by the supplier should contain the following element as per Central excise rule:-
 - Name and address of assessee
 - Serial No. of Invoice (should not be hand written)
 - Central excise duty Registration No.(assessee & consignee)
 - Address of the concerned Central Excise Division
 - Range and commissionerate.(assessee & consignee)
 - Name and address of the consignee
 - Description and Classification of the goods
 - Time and date of removal
 - Mode of Transport and vehicle registration number
 - Rate of duty
 - Quantity and value of goods and the Duty payable thereon.
 - Education Cess and Higher Education Cess to be shown separately for complying with CENVAT Credit rules.
 - Five copies of invoice are to be submitted among those original copies being marked as the "original for buyer", duplicate as "duplicate for transporter".*Invoice issued by input service providers should contain the Following information:*
 - Serial No. of invoice(should not be hand written)
 - Name, address and registration no. of person providing taxable service.
 - Name and address of the person receiving taxable service.
 - Description, classification and value of taxable service provided or to be provided
 - Service tax payable thereon
 - Education Cess and Higher Education Cess to be shown separately for complying with CENVAT Credit rules.*Consignor/Service providers should show excise/service tax element separately and invoice should be raised as per Cenvat credit rules as stated earlier.*
4. **SALES TAX:** CST shall be paid extra @2% against form "C" on price of equipment.
NB: Any increase in duties & taxes after expiry of delivery period shall be to your account. Road permit for equipment and spares shall be issued by the consignee.
5. **PACKING & FORWARDING CHARGES:** NIL.
6. **FREIGHT/TRANSPORTATION CHARGES INCLUSIVE OF SERVICE TAX:** To be paid extra at actual subject to a maximum of Rs.2,16,590.00 (Rupees Two lakh Sixteen Thousand Five Hundred & Ninety only) per equipment subject to production of documentary evidence. The transport charge is inclusive of service tax at legally applicable rate. Freight/Transportation Charges are not applicable for spares.
7. **TRANSIT INSURANCE INCLUSIVE OF SERVICE TAX:** To be paid extra at actual subject to a maximum of Rs. 4355.07 (Rupees Four Thousand Three Hundred Fifty Five and paise Seven only) per Equipment subject to production of documentary evidence. The transit insurance charge is inclusive of service tax at legally applicable rate. Transit Insurance Charges are not applicable for spares.



8. **TERMS OF PAYMENT:**

FOR EQUIPMENT:

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

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

Name of the Bank.

Name of the Branch with complete address.

Party's Account Style.

Party's nature of Account.

Party's Account Number..

Your E-Payment mandate is enclosed as ANNEXURE-O

9. **DELIVERY:** 4 Numbers Motor Graders to be supplied within 06 months from the date of receipt of supply order. Delivery schedule shall be reckoned from the 10TH day from the date of order and the date of receipt of materials at our stores shall be treated as the date of delivery. Early delivery shall be accepted.

- 10 **LIQUIDATED DAMAGES CLAUSE:** The bidders will confirm their acceptance of the following: In the event of failure to deliver/dispatch the equipment/stores within the stipulated date/period to effect supply in accordance with the terms and conditions and the specifications mentioned in the supply order and in the event of breach of any of the terms and conditions mentioned in the supply order, Bharat Coking Coal Ltd., shall be entitled at its option either to enforce the following:

- a. To recover from the successful bidder as agreed liquidated damages, a sum not less than 0.5% (Half Percent) of the price of any stores which the successful tenderer has not been able to supply as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10% (TEN Percent) and where felt necessary by BCCL, it may be increased up to 15 %.
- b. To cancel the supply order or a portion thereof, and if so desired to purchase the stores at the risk and expenses of the defaulting supplier and also/or
- c. To purchase elsewhere after notice to the successful tenderer on the account and at the risk of the defaulting supplier, the equipment/stores not supplied or others of similar description without cancelling the supply order in respect of the consignment not yet due for supply/or
- d. To extend the period of delivery with or without liquidated damages as may be considered fit and proper. The liquidated damages if imposed, shall not be more than the agreed liquidated damages referred to in CLAUSE 10 (a) above except in case of force majeure condition
- e. Whenever under this contract any sum of money is recoverable from and payable by the supplier, Bharat Coking Coal Limited, shall be entitled to recover such sum by appropriating in part or in whole by deducting any sum or which at any time thereafter may become due to the successful tenderer in this or any other contract, should this sum be not sufficient to recover the full amount recoverable, the successful tenderer shall pay. Bharat Coking Coal Limited, the balance amount on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.
To forfeit the security deposit fully or in part.

11.

CONSIGNEE:

The equipment allocated to the mine /projects/ areas as follows which is subject to change as per the requirement of purchaser:

Sl No.	Area/Project	Company	Total Requirement	
			Under NCD	Under PCD
1	The Depot Officer, Regional Stores; Loyabad, Sijua Area V Dhanbad Katras Road, Sijua, Dhanbad-828 121 TIN No-20161500808 CST Regn No-KT-86(C), Katras Circle, Katras Service Tax Regn No-AAACB7934MST010 CED Regn No-AAACB7934MEM010	BCCL	01 No	-
2	The Depot Officer, Regional Stores; Barora Area I Bharat Coking Coal Limited Nawagarh,, Dhanbad -828 306 TIN No-20121500733 CST Regn No-KT-82(C), Katras Circle Katras Service Tax Regn No-AAACB7934MST018 CED Regn No-AAACB7934MEM003	do	01 No	-
3	The Depot Officer, Regional Stores, Block II Bharat Coking Coal Limited Nawagarh,, Dhanbad -828 306 TIN No-20121500736 CST Regn No-KT-254(C), Katras Circle Katras Service Tax Regn No-AAACB7934MST009 CED Regn No-AAACB7934MEM007	do	01 No	-
4	The Depot Officer, Regional Stores, Katras Area -IV Bharat Coking Coal Limited Dhanbad Katras Road, Sijua, Dhanbad -828 121 TIN No- 20851505091 CST Regn No-KT-85(C), Katras Circle Katras Service Tax Regn No-AAACB7934MST002 CED Regn No-AAACB7934MEM009	do	01 No	-
	TOTAL		04 Nos	NIL

12.

PAYING AUTHORITY: The General Manager (Finance)/MM, Koyla Bhawan: Koyla Nagar, Dhanbad

13.

SECURITY DEPOSIT: Exempted being a CPSU under the Ministry of Defence; Govt of India.

14.

COMPOSITE GUARANTEE / WARRANTY: as indicated in Technical Specification (ANNEXURE-A)

15.

PERFORMANCE GUARANTEE: In accordance with the provisions of clauses 7 of the Technical Specifications, you shall guarantee that the availability of the equipment shall be not less than 86% (eighty six per cent) for a period of 12 months from the accepted date of commissioning.

You shall furnish a Performance Guarantee equivalent to 10% of the total value of the supply order / contract (by adding Excise Duty and Sales Tax etc to the FOR destination price of the equipment ordered). The performance guarantee shall be submitted in the form of a Bank Guarantee issued by a scheduled bank in the format attached as **ANNEXURE-C** (on a non judicial stamp paper of value Rs.250.00 only). This Bank Guarantee shall be initially valid for a period of 15 months from the date of receipt and acceptance of equipment and the same shall either be released or extended depending upon the merit of the case. This Performance Guarantee shall be for the performance of the Supply Order.

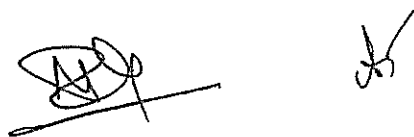
Submission of Bank Guarantee: The original Bank Guarantee should be sent to the beneficiary directly by the issuing Bank under Registered Post (A.D.).




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

The total value of PERFORMANCE BANK GUARANTEE is Rs. 86, 42,200.00 or Rs21,60,550.00/Equipment


16. **INTEGRITY PACT):** The Integrity Pact document has been signed by you and the same is deemed to have been signed by BCCL authorities.
17. **PRICE FALL CLAUSE** – The price charged for the Stores / Equipment supplied against the order, if placed, shall in no event exceed the lowest price at which the bidder shall sell or offer to sell the Stores / Equipment of identical description to its any customer during the pendency of the Contract / Supply Order. If the successful tenderer at any time during the pendency of the Contract / Supply Order sells or offers to sell such stores to any customer, at a price lower than the price stipulated in the Contract / Supply Order placed by BCCL, the successful tenderer shall forthwith notify to BCCL such reduction in sale price of stores / equipment supplied after such reduction coming into force shall stand correspondingly reduced.
18. **INSPECTION AND TESTS:**
 - a) The purchaser or its authorized representative shall have the right to inspect and/or to test the goods to confirm their conformity to the contract. The purchaser shall notify the supplier in writing of the identity of any representative retained for these purposes.
 - b) The inspections and tests may be conducted on the premises of the supplier or its subcontractors), at point of delivery and/or at the goods final destination when conducted on the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production date, shall be furnished to the inspectors at no charge to the purchaser.
 - c) Should any inspected or tested Goods fail to conform to the specifications, the purchaser may reject them and the supplier shall either replace the rejected goods and make all alternatives necessary to meet specification requirements free of cost to the Purchaser.
 - d) The Purchaser's right to inspect, test and, where necessary, reject the goods after the Goods arrival in the Purchaser's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representatives prior to the Goods shipment from the country of origin.
 - e) Materials are subject to inspection by the purchaser before dispatch. The materials may also be subject to stage inspection by a third party nominated by BCCL for the purpose. Final inspection shall, however, be carried out at the consignee's end by GM(Excv);BCCL or his authorized representative
 - f) Nothing in these documents shall in any way release the supplier from any warranty or other obligations under this contract.
 - g) The purchaser shall, at its discretion, have the right to test the ordered material in a Government Test House or in a test house nominated by the purchaser. In case of failure of the material after testing, the cost of tests as well as of the material shall have to be borne by the supplier.
 - h) Pre-dispatch inspection by CM (Excv), 40 Kempe Gowda Road, 4th Floor, Geetha Mansion, Coal India Ltd., Bangalore – 560 009
19. **GENERAL TERMS AND CONDITIONS:** Unless otherwise specified in the purchase order, the Purchase order shall be subject to the General Terms and Conditions of Supply of Stores given as ANNEXURE –D. In case there is a conflict in any particular term of the NIT with the General Terms, the terms of the NIT will prevail.




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

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

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


12/12/13
(Nayan D. Yadav)
MT(MM)


12/12/13
(A D Santhish)
Chief Manager (MM)

Enclosures:

SL	ANNEXURE	DESCRIPTION
1	ANNEXURE - A	<u>TECHNICAL SPECIFICATIONS</u> comprising SECTION-V SCHEDULE OF REQUIREMENTS; PART I,II, SCHEDULE OF REQUIREMENTS OF SERVICES, TECHNICAL SPECIFICATIONS PREFACE - INSTRUCTIONS TO BIDDERS A.SCOPE OF SUPPLY, B.GENERAL REQUIREMENT, PART C EQUIPMENT SPECIFICATION,
2	ANNEXURE B-1	List of Filters & O rings inclusive of standard Engine filters required for first 3000 hours of operation.
3	ANNEXURE B-2	List of End Bit and Cutting Edge along with Fastener- 24 sets per equipment.
4	ANNEXURE-C	Performa of Performance Bank Guarantee.
5	ANNEXURE -D	General Terms and Conditions of supply of stores.
6	ANNEXURE - E	Performance of equipment under performance guarantee during warranty period
7	ANNEXURE - F	Tool List
8	ANNEXURE - G	Quality Assurance Plan
9	ANNEXURE - H	Leaflet of BG825 Motor Grader.
10	ANNEXURE - I	Engine performance curves.
11	ANNEXURE - J	Hydraulic system & circuit diagram
12	ANNEXURE - K	List of major bought-out items for BG825 Motor Grader.
13	ANNEXURE - L	Training schedule.
14	ANNEXURE - M	Erection Program for BG825 Motor Grader .
15	ANNEXURE - N	Maintenance schedule for BG825 Motor Grader .
16	ANNEXURE - O	Authorization for E-Payment.





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Copy to:

- GM(Excv) /GM(Excv)Cap, Koyla Bhawan : Koyla Nagar,Dhanbad
- The General Manager (Finance)/MM, Koyla Bhawan : Koyla Nagar,Dhanbad.
- The GM(Areas), Barora Area /Block-II/Katras Area/ Sijua Area
- GM(Company Secretary), BCCL, Koyla Bhawan : Koyla Nagar,Dhanbad – in ref. to 301.4C of Ref No. BCCL:CS:F-1(A):831 dated 21.11.2013
- GM(MM/Stores), Koyla Bhawan : Koyla Nagar,Dhanbad: in ref. to Indent Registration No 413008 dtd 09.04.13


Indent No	IR No of MM Divn	Qty (No)	Project/Area
CE (Excv)/2012-13/36 Dated 26.12.12	413008 Dated	02 Nos	Barora
R/S-BII/15/P&M/524/12-13 dated 20.12.12	09.04.13	02 Nos	Block-II

- GM(UMD),CMPDI Ltd,Gondwana Place,Kanke Road,Ranchi-8
- GM / GM (MM), ECL/ CCL/WCL/SECL/NCL/MCL
- CM (Excv), 40 Kempe Gowda Road, 4th Floor, Geetha Mansion, Coal India Ltd., Bangalore – 560 009
- The Depot Officer, RS/ Barora Area /Block-II/Katras Area/ Sijua Area BCCL,Dhanbad.
- M/s IPI Ltd.,Regional Office,F-29,Ground Floor,Doorvani nagar,Bangalore-560016
- ✓ AM, Tech Cell,MM Divn, Koyla Bhawan : Koyla Nagar,Dhanbad
- The Independent External Monitor for Integrity Pact:-
Justice Ashok Kumar Chakra borthy (Retd)
BB-69, Sector-I, Salt Lake
Kolkata-700064

This issues with approval of agenda item No 301.4C of the 301st BCCL Board meeting by the Board of Directors of BCCL and minutes communicated by Co.Secy vide Ref No. BCCL:CS:F-1(A):831 dated 21.11.2013

Budget Certification

eBC no BCCL/C&B/CAP/REG/PN-127/SN-16/eBC No 488 dated 09.12.2013 (cap -13-14) for Rs 8,64,22,000.00/-
eFC No 155 Dated 09.12.2013 for Rs 8,64,22,000.00/-


12/12/13
MT(MM)


12/12/13
Chief Manager (MM)

BHARAT COKING COAL LIMITED					
Tender Ref no: PUR/413008/Motor Grader 280HP/13-14/ 37				Dated: 04/05 07.2013	
ANNEXURE-A					
TECHNICAL SPECIFICATIONS					
BIDDER SHOULD CONFIRM THE ACCEPTANCE/ CONFIRM SUBMISSION OF REVELANT DOCUMENTS					
NAME OF THE BIDDER				BEML LIMITED	
V - Schedule of Requirements					
Preferred Schedule of Requirements					
Part I					
SL No	Description			Bidder to Agree	
	S No	Brief Description of Goods & Services	Quantity	Delivery Schedule at Site	
	1	280 HP Motor Grader	4	4 (Four) nos Motor Graders to be supplied within 06 months from the date of receipt of supply order.	AGREED Noted and accepted
	2	Ancillary Equipment and other requirements for each of Item 1 as specified in Technical Specifications included in Section VI.	In accordance with item 1	Delivery to be made along with the machine.	AGREED Noted and agreed
The 280 HP Motor Graders allocated to the mine projects are as follows which is subject to change as per the requirement of purchaser:				AGREED	Noted and agreed
	Sl No.	Area/Project	Company	Total Requirement	
				Under NCD	Under PCD
	1	Block-II Area	BCCL	02 Nos	-
	2	Barora Area	do	02 Nos	-
	TOTAL			04 Nos	Nil
However consensee given at clause No. 11 of main order is applicable.					
Part II					
	S.No	Brief Description of Services	Period/Quantum	AGREED	Noted and agreed.
	1	Training of Purchaser's Personnel at the manufacturer's works or elsewhere outside India.	Please refer to Schedule of Requirements of Services later in this Section and to the Technical Specifications (Section VI).	AGREED	Noted and agreed.
	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 (Section VI).	AGREED	Noted and agreed.
	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 (Section VI) and the terms and Conditions of Contract.	AGREED	Noted and agreed.
	Note: 1. Price for 280 HP Motor Grader along with accessories should be quoted with Normal Custom Duty (NCD) for 04 nos. and Project Concessional Duty (PCD) for 0 nos. applicable for the imported contents 2. The bidder has to quote for Motor Grader in full quantity as given above; otherwise their offer will not be considered.			AGREED	Noted and agreed.

	<p>Schedule of Requirements of Services</p> <p>The Supplier's scope of the Contract will include the following -</p> <p>I. Type test on each equipment included in the technical specification and offered in the bid.</p> <p>II. Providing Services of Supplier's qualified engineer(s)/personnel for:</p> <p>A. unloading, transportation to site, storage at site and/or</p> <p>B. transportation from storage to erection site, installation, testing and commissioning.</p> <p>III. Training of Purchaser's Personnel: Training of Purchaser's personnel to be confirmed by the bidder in respect of training to be provided at manufacturer's works or at our site in the following format :</p>				AGREED	Noted and agreed. Training Schedule is uploaded and enclosed.	
Type of Personnel	At Manufacturer's Works				At Site		
	No	Period	Total		No	Period	Total
Mech Engineer		Weeks	Weeks			Weeks	
Elec Engineer		Weeks	Weeks			Weeks	
Mech Supervisor		Weeks	Weeks			Weeks	
Elec Supervisor		Weeks	Weeks			Weeks	
Mech Fitter						Weeks	
Electrician						Weeks	
Operator						Weeks	
Total		Weeks	Weeks				
	Definitions:				AGREED	Noted and agreed.	
	Mech/Elect Engineer-		Graduate Engineer having basic knowledge of the equipment		AGREED	Noted and agreed.	
	Elect/Mech Supervisor -		Diploma Holder Engineer having basic knowledge of the equipment		AGREED	Noted and agreed.	
	Mech Fitters/Electricians/Operators -		Un-skilled, semi-skilled and skilled.		AGREED	Noted and agreed.	
	Technical Specifications Preface - Instructions to Bidders 1. Introduction						
	These Technical Specifications identify the technical requirements of the Goods and Services which are the subject of this Tender. The Technical Specifications are presented in four parts as follows: A. Scope of Supply B. General Requirements 1) Geography and Climatic Conditions 2) Goods (Equipment and Machinery) 3) Standards 4) Supplier's Responsibility 5) Spare Parts Provisions 6) Composite Warranty / Guarantee 7) Performance Guarantee 8) Quality Assurance C. Equipment Specifications Conformity with Specifications The Equipment to be provided shall conform with the requirements defined in these parts. Where stated requirements conflict, the order in which the specifications shall prevail is as follows: Part A followed by Part B followed by Part C				AGREED	Noted and agreed.	
	Technical Response Bidders shall provide a Clause by Clause commentary demonstrating compliance with the Purchaser's Technical Specifications, identifying any deviations thereto, together with full supporting technical literature and data sheets. The Equipment offered by Bidders will be evaluated technically based on the information presented in the bid without reference to extrinsic evidence. Additionally Bidders shall provide the information specifically requested in the Attachment to the Technical Specifications. Failure to provide any information requested in any part of this specification may deem the bid non-responsive.				AGREED	Noted and complied.	

<p>Site Visits The Bidder prior to making any Bid calculation and as part of the preparation of its Bid, shall be deemed to have visited and inspected the Site(s), made all enquiries and collected all information documentary or otherwise, including climatic conditions, as considered necessary by the Bidder for the proper and accurate preparation of its bid.</p> <p>A Bidder may visit the Site(s) by prior appointment with the purchaser. The number of Bidder's representatives permitted to make visits to the Site(s) shall be limited to a maximum of two</p> <p>Bidders wishing to make appointments for Site Visits should do so in writing or by facsimile direct with BCCL and concerned officer as detailed in the following schedule. Copies of all such communications should be transmitted by facsimile to:</p> <p>General Manager (M&F) Bharat Coking Coal Limited Koyla Bhawan, Koyla Nagar Commercial Building (Level-III) Dhanbad-826005 (Jharkhand), India, Fax- 91 (0) 326 2230183</p>		AGREED		
	Subsidiary Company	Project	AGREED	Noted
	Bharat Coking Coal Limited Koyla Bhawan, Koyla Nagar Commercial Building (Level-III) Dhanbad-826005, Fax- 91 (0) 326 2230177 Tel- 91 (0) 326 2230177 Attention: General Manager (Excv)	All Projects	AGREED	Noted
	A. Scope of Supply A.1 Equipment Package The Supplier is required to bid as per the equipment package detailed in the Tender Document		AGREED	Noted and complied.
	A.2 Supplementary Items I. 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. II. First fill of all oils, grease and lubricants needed for test and commissioning of each equipment. III. All filters & O rings inclusive of standard engine filters required for first 3000 working hours .		AGREED	I. We shall supply one set of tools(along with each equipment) required for erection, commissioning and for the maintenance and repair of the equipment as per the tool list enclosed with our offer. II. The equipment shall be supplied with first fill of all oils grease and lubricants except fuel. Itop up (if any) customer has to provide). III. Agreed.
	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, Three (3) copies to each project site; and One (1) copy along with soft copy to the General Manager (Excv.), BCCL Hqrs. 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; Three (3) copies to 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, where appropriate the Supplier shall supply detailed drawings illustrating erection/assembly site(s), foundation and accommodation requirements for such items as drive motors, switch installations etc.		AGREED	Noted and agreed.

	<p>A.4 Erection/Assembly, Commissioning and Performance Testing</p> <p>The Supplier shall provide the Services of Specialist Technicians to supervise the installation/erection/assembly, commissioning and any performance testing of the plant, Equipment and accessories supplied.</p> <p>The Technicians shall remain at site following commissioning until all necessary personnel are fully conversant with the maintenance and operation of the Equipment.</p>	AGREED	Noted and agreed																					
	<p>A.5 Training</p> <p>The Supplier shall also be responsible for the provision and delivery content of any suitable training programmes necessary for operation and maintenance of the Equipment.</p>	AGREED	Noted and agreed																					
	<p>B. General Requirements</p> <p>B.1 Geography and Climatic Conditions</p> <p>Elevation</p> <p>The natural surface varies from 100 to 1000m above mean sea level</p> <p>Climate</p> <p>The climate is sub-tropical to tropical, dusty, with a hot and humid atmosphere.</p> <p>Monsoon rains occur in the period from June to October.</p> <p>Ambient Conditions</p> <table><tr><td>Relative Humidity</td><td>Maximum</td><td>98%</td></tr><tr><td>Temperature</td><td>Minimum</td><td>0o C</td></tr><tr><td></td><td>Maximum</td><td>50o C</td></tr></table> <p>Rainfall The mean annual rainfall is 1,000 mm, 90 to 95% of which may fall in rainy season from June to October.</p> <p>Wind</p> <table><tr><td>April to September</td><td>-</td><td>South to South Westerly</td></tr><tr><td>October to March</td><td>-</td><td>North Westerly</td></tr></table> <p>Speed</p> <table><tr><td></td><td>-</td><td>8 km per hr average</td></tr><tr><td></td><td>-</td><td>100 km per hr maximum</td></tr></table> <p>Under foot</p> <p>Slushy and highly abrasive.</p>	Relative Humidity	Maximum	98%	Temperature	Minimum	0o C		Maximum	50o C	April to September	-	South to South Westerly	October to March	-	North Westerly		-	8 km per hr average		-	100 km per hr maximum	AGREED	Noted
Relative Humidity	Maximum	98%																						
Temperature	Minimum	0o C																						
	Maximum	50o C																						
April to September	-	South to South Westerly																						
October to March	-	North Westerly																						
	-	8 km per hr average																						
	-	100 km per hr maximum																						
	<p>B.2 Goods (Equipment and Machinery)</p> <p>Detailed specifications of the Equipment to be supplied are given in as per Part-C.</p> <p>In general, all items shall be:</p> <p>new unused and of the current design (incorporating latest proven features) and not likely to be discontinued or become obsolete in near future</p> <p>designed and constructed to handle without overload and for the working hours stated, the maximum volumes/rates specified,</p> <p>designed to facilitate ready access, cleaning, inspection, maintenance and repair of component parts,</p> <p>designed to facilitate rapid changeover of consumable items.</p> <p>The component parts of all items shall, wherever possible, be selected from the standard ranges of reputable manufacturers.</p> <p>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.</p> <p>Electrical Equipment shall provide all protection devices, controls and interfaces for the Equipment to operate safely and efficiently.</p> <p>All workmanship and materials shall be of first class quality in every respect.</p> <p>All parts and surfaces which are exposed to corrosive environments shall be suitably protected to prevent any effects of corrosion or erosion.</p>	AGREED	Noted																					
	<p>B.3 Standards</p> <p>Beside conforming to the Standards specified in the Equipment Specification in Part C, the Equipment shall also has to meet approval of the Statutory Government Authorities including Director General of Mines Safety (DGMS) having jurisdiction over the Equipment and its use.</p> <p>The system of units for all measurements shall be the Système International d'Unités (S.I).</p>	AGREED	Noted																					

	<p>B.4 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 and safely. Any additional items the Supplier considers necessary to ensure compliance with such a requirement shall be identified and included.</p> <p>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.</p> <p>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</p>	AGREED	
	<p>B.5 Spare Parts Provisions B.5.1 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.</p>	AGREED	Noted
	<p>B.5.2 Provision of Spare Parts Within the Contract Price, the Purchaser shall agree to purchase all filters and O rings inclusive of standard engine filters required for first 3000 hours 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</p>	AGREED	Noted
	<p>B.5.3 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.</p>	AGREED	Noted
	<p>B.5.4 Lifetime Spare Parts The Supplier undertakes and guarantees to produce and maintain stocks, to be available for purchase by the Purchaser under separate agreement, of all Spare Parts and Consumables as may be required for maintenance and repair of the Plant throughout its working life. In the event that the Supplier wishes to terminate production of such Spare Parts, the Supplier shall:</p> <p>(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</p> <p>(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.</p> <p>(c) model of the equipment, year of modification if any done shall be indicated. This model should not be the obsolete model within 10 years. In any event, the Supplier shall not seek to terminate manufacture of spare parts for a period of not less than ten (10) years from Taking-Over.</p>	AGREED	Noted and agreed
	<p>B.5.5 Oils, Lubricants and Fluids Not less than one (1) month before the scheduled date for Acceptance, the Supplier shall provide to the Purchaser a detailed schedule of all necessary oils, lubricants, fluids and the like 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.</p>	AGREED	Noted
	<p>B.5.6 General Nothing in this Clause B.5 shall relieve the Supplier of any Guarantee, Availability, Performance or other obligations or liabilities under the Contract.</p>	AGREED	Noted
	<p>B.6 Composite Warranty / Guarantee The Bidder shall warrant that the equipment supplied under this contract is :-</p> <p>a) In accordance with the contract specifications .</p> <p>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.</p> <p>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 .</p>	AGREED	Noted and accepted.

	<p>B 7 Performance Guarantee B.7.1 Introduction</p> <p>B.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.</p>	<p>AGREED</p>	<p>Noted</p>
	<p>B.7.1.2 Where Equipment supplied under the Contract fails to meet the criteria of the Availability Guarantee, the Supplier shall, at it's own cost, provide suitably qualified and experienced personnel at Site to demonstrate to the Purchaser's satisfaction that the required level of availability can be achieved and maintained.</p>	<p>AGREED</p>	<p>Noted</p>
	<p>B.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 has not been met in any one (1) month.</p>	<p>AGREED</p>	<p>Noted</p>
	<p>B.7.2 Guarantee B.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.</p>	<p>AGREED</p>	<p>Noted</p>
	<p>B.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:</p> $\% \text{ Availability} = \frac{\text{Scheduled Available Time} - \text{Downtime}}{\text{Scheduled Available Time}} \times 100$ <p>Scheduled Available Time shall equate to 24 hours. 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.</p>	<p>AGREED</p>	<p>Noted</p>
	<p>b) planned preventative maintenance programmes; It shall not however include: I. damage due to abusive use or incorrect operation methods by the Purchaser; II. accidents; III. strikes or stoppage of work by the Purchaser's personnel; IV. natural disaster; V. lack of Spare Parts not attributable to a failure of the Supplier, it's Agents or Representatives.</p> <p>Downtime shall also specifically include all hours lost due to failures determined to be guarantee failures. The Supplier shall state the number of hours per day required to carry out (a) and (b) above. The time stated shall, with the agreement of the Purchaser, form the basis of the assessment of the availability. The Purchaser will assist the Supplier, without relieving the Supplier of any other obligations under the Contract, to achieve the guaranteed availability by:</p>	<p>AGREED</p>	<p>Noted and agreed</p>

	<p>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 genuine manufacturer's spares.</p> <p>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.</p> <p>3. Where appropriate, providing and maintaining such conditions as:</p> <ul style="list-style-type: none"> • Proper electrical Supply • Terrain Area • Bench preparation • Reasonable floor conditions <p>4. Providing all Supplier's authorised representatives access at all reasonable times to the machine service and repair facilities.</p> <p>Maintaining a log-book for each shift wherein the working hours, breakdown times, maintenance hours, idle time, etc. shall be recorded.</p> <p>This record will be available for examination and signature by the Supplier's representative.</p>	AGREED	Noted
	B.7.3 Effect and Duration of Guarantee	AGREED	Noted
	B.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.	AGREED	Noted
	B.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.	AGREED	Noted
	<p>B.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:-</p> <p>a) 1% of the delivered price of the equipment for every percentage reduction from the Guaranteed Availability for the first 5%</p> <p>b) 10% of the delivered price of the equipment for reduction beyond 5% from the Guaranteed Availability.</p> <p>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.</p>	AGREED	Noted
	B.7.3.4 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).	AGREED	Noted
	B.7.3.5 SPECIAL CONDITION The machines under supply against this tender should have the same major assys. / sub assys. which were fitted on the machines supplied against CIL's/ it's subsidiary's last supply order. In case any change is contemplated prior clearance of BCCL will be necessary.	AGREED	Noted
	<p>B.8 Quality Assurance</p> <p>B.8.1 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.</p>	AGREED	Noted and QAP uploaded.
	B.8.2 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.	AGREED	Noted
	B.8.3 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.	AGREED	Noted

PART C:- EQUIPMENT SPECIFICATIONS				
1. Scope of Specification This specification is intended to cover the technical requirements for the design, manufacture, testing, delivery, on-site erection and commissioning of a self-propelled, wheeled motor grader in the range 200 to 210 kW (280 HP).			AGREED	Our offer is for supply from our regular manufacturing line, testing, on-site erection and commissioning of tyre mounted BEML model BG825 MOTOR GRADER, powered by BEML BS6D140-1, turbocharged, water cooled, 6 Cylinder, Diesel engine developing 209KW (280 HP) net power @2100rpm.
2. References The following International Standards are referred to in, and form part of, the Specification: ISO 2867 Earth-moving machinery - Access systems ISO-3449 Earth-moving machinery - Falling-object protective structures - Laboratory tests and performance requirements ISO 3450 Earth-moving machinery - Wheeled machines - Performance requirements and test procedures for braking systems ISO 3457 Earth-moving machinery - Guards and shields - Definitions and specifications ISO 3471 Earth-moving machinery - Roll-over protective structures - Laboratory tests and performance requirements ISO 5010 Earth-moving machinery - Rubber-tyred machines - Steering requirements ISO 6014 Earth-moving machinery - Determination of ground speed ISO 6405-1Earth-moving machinery - Symbols for operator controls and other displays - Part 1 : Common symbols ISO 6405-2Earth-moving machinery - Symbols for operator controls and other displays - Part 2 : Specific symbols for machines, equipment and accessories ISO 6750 Earth-moving machinery - Operation and maintenance - Format and content of manuals ISO 7129 Earth-moving machinery - Tractors with dozer, graders, tractor scrapers - Cutting edges - Principal shapes and basic dimensions ISO 7457 Earth-moving machinery - Measurement of turning dimensions of wheeled machines ISO 7464 Earth-moving machinery - Method of test for the measurement of drawbar pull ISO 9249 Earth-moving machinery - Engine test code - Net power ISO 10570 Earth-moving machinery - Articulated frame lock - Performance requirements In case the offered model meets equivalent other International Standards, bidder must indicate the same.			AGREED	Noted and complied
3. Design Criteria The grader shall be capable of continuous operation for protracted periods on a system of 3 shifts each of 8 hours duration per day throughout the year. The grader will be used for road maintenance, handling soils, rock and coal. The grader shall meet the following minimum requirements:			AGREED	
a)	Blade dimensions	4850 x 680 x 25 mm	AGREED	4928X890X25mm
b)	Blade lift	400 mm	AGREED	490mm
c)	Shoulder reach, each side	2150 mm	AGREED	2400mm
4. Technical Requirements 4.1 Engine The grader shall be powered by a direct injection 4-stroke turbo-charged diesel engine of 200 to 210 kW net powers measured between 1700 and 2200 r/min according to ISO 9249. The engine shall be provided with 24V electric starting, dry type 2-stage air cleaner with suitable dust evacuator and dust level indicator and 2-stage fuel filter with water separator. The engine shall have a water jacket cooling system, thermostatically controlled, using an engine driven water pump, with the cooling water re-circulated through a heavy-duty radiator. The system shall be capable of providing sufficient cooling to allow the grader to continuously operate at the full rated output at the maximum ambient temperature. The moving parts of the engine shall be lubricated by an engine driven oil pump, with full flow oil filtration and cooling. The engine shall be equipped with an over-speed governor.			AGREED	The grader will be fitted with BEML engine Model BS6D140-1, 6 cylinders inline, 4-cycle water cooled, over head-valve, turbo charger, diesel engine of 209kW(280FHP)@2100r/min as per ISO-9249. Engine is provided with 24V electric starting system. Dry type 2-stage air cleaner with automatic dust ejector, dust indicator and 2-stage fuel filter with water separator is provided. The engine provided with cooling system and thermostatic control. Engine driven water pump re-circulates the water through a heavy-duty radiator. The system is capable of providing sufficient cooling to allow the motor grader to continuously operate at the full rated output at the maximum ambient temperature. An engine driven oil pump, with full flow oil filtration and cooling, lubricates the moving parts of the engine. The engine is equipped with mechanical type governor for over speed protection.
4.2 Transmission The grader shall be provided with a suitable efficient transmission having minimum 8 forward and 8 reverse speeds. Bidder should mention the type of transmission offered. The transmission shall be provided with a heavy duty removable belly guard designed to minimise the accumulation of dirt and debris.			AGREED	The grader is provided with the hydro shift transmission without torque converter consists of planetary gears and hydraulically actuated and force lubricated multiple disc clutches with 8 forward & 8 reverse speeds. Also having inching control for precise movement. The transmission will be provided with heavy duty removable belly guard to minimise the accumulation of dirt and debris.
4.3 Final Drives Double reduction final drives with spiral bevel gears, planetary gears and roller chain tandem drives for rear wheels shall be provided.			AGREED	The final drive comprises of double reduction spiral bevel gears with electric, over hydraulically controlled differential lock-unlock device and planetary gears. Roller-chain tandem drives for four rear wheels provided.

	4.4 Axles The axles shall be heavy duty with traction sensing or other suitable type differential	AGREED	Heavy duty reverse Elliot-type front axle and full floating rear axle with planetary drive have positive traction during operation
	4.5 Steering Full hydraulic power steering, which complies with ISO 5010, shall be provided. Three modes of steering shall be provided for improved manoeuvrability i.e. straight frame, articulated and offset steering	AGREED	Full hydraulic orbit-roll type steering control system which complies with ISO-5010 steering Performance requirements and three modes of steering will be provided for improved manoeuvrability such as straight, articulated and offset to meet varying needs
	4.6 Hoses All hoses and piping should be protected from damage. Fire/heat resistant/retarder hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conduits where cable/wire are passed shall be fire/heat resistant.	AGREED	The high pressure hydraulic hose conform to MHSH tilt code 30 is provided & sleeves/conduits are fire retardant type.
	4.7 Brakes Suitable reliable fail-safe, service, secondary and parking brakes, which comply with ISO 3450, shall be provided	AGREED	Air actuated foot operated oil disc brakes on 4 rear wheels and sealed for adjustment free operation. Secondary brake through dual line system protection in the event of total braking loss and spring actuated parking brake fulfil the requirements of ISO-3450.
	4.8 Tyres Tubeless, rock duty, cut-resistant (preferably L-3 / G-3 Type) tyres size 18.00 - 25 (12PR) shall be provided	AGREED	Tubeless, cut resistant 18.00 x 25-12PR(L-3) Rock type tyre provided.
	4.9 Frames An articulated frame with a locking device, which complies with ISO 10570, shall be provided.	AGREED	Articulated Box-section front and rear frame with locking device which meets ISO-10570 requirements.
	4.10 Blade Circle The blade circle shall be an internal gear type of adequate diameter with uniform heat-treated teeth. Top and bottom raised wear surfaces shall be provided to prevent the circle teeth from contacting the support shoes. The blade circle shall be hydraulically controlled to provide full 360o rotation in either direction and fitted with a mechanical lock operated from the operator's cab.	AGREED	Draw bar - A-shaped U section pressure formed and welded construction for maximum strength. The blade circle will be an internal gear type of adequate diameter with uniform heat treated teeth. Top and bottom raised wear surfaces will be provided to prevent the circle teeth from contacting the supporting shoes. The blade circle will be hydraulically controlled to provide full 360 deg rotation in either direction and all blade movements & position can be hydraulically controlled from the operator seat.
	4.11 Mouldboard The mouldboard shall be a heavy-duty reinforced construction with wear resistant steel and replaceable and reversible end bits and side edges. Heavy duty hardened steel wear resistant cutting edges, which comply with ISO 7129, shall be provided. Blade side shift and tip control should be by means of hydraulic cylinders.	AGREED	The mouldboard will be a heavy-duty reinforced construction with wear resistant steel and replaceable and reversible overlay end bits and side edges. Heavy-duty hardened steel wear resistant cutting edges which meets ISO-7129/J739b requirements. When the control valve operated, hydraulic pressure separates disc and plate and motive force is transmitted to pinion gear. Blade side shift and tip control is provided by means of hydraulic cylinders.
	4.12 Fuel Tank The fuel tank should be of sufficient capacity for 20 hours operation without re-fuelling and be provided with a level indicator. The filler opening in the fuel tank shall be in a protected location at the side of the machine, accessible from ground level and provided with a lockable-hinged cap. Construction of the tank should be such that it provides for easy accumulation and drainage of water with minimum loss of fuel.	AGREED	The fuel tank with 500 litres capacity shall be provided which is sufficient for 20 hours of operation. The fuel tank is located in a suitable protected location on the machine with lockable vadalisum cap, also tank design provides for easy accumulation and drainage of water with minimum loss of fuel. Fuel capacity gauge is provided.
	4.13 Operator's Cab A fully insulated, sound suppressed, lockable, air conditioned operator's cab with tinted safety glass, windshield wipers and washer should be provided. All doors, windows and vents shall have dust and weather proof seals. The operator's seat shall be a fully adjustable bucket type with foam rubber cushion and best quality upholstery. Internal and left and right external rear view mirrors, heavy duty rubber floor mats and a cooling fan shall also be provided. Both a ROPS which comply with ISO 3471 shall be provided. All operating controls, monitoring and working signals should be conveniently located in consoles within easy reach of the operator and shall comply with ISO 6405-1 and ISO 6405-2. Ladders and handrails, which comply with ISO 2867, shall be provided for access to the operator's cab. There should be provision of seat belt	AGREED	A fully insulated sound suppressed lockable Air conditioned walk through operator's cab with tinted safety glass, windshield wipers and washer will be provided. Rubber bedding will be provided to All doors, windows and vents will have dust & weather proof seals. The operator's seat will have suspension with a adjustable bucket type with foam rubber cushion and best quality upholstery. Internal and left & right rear view mirrors, heavy duty rubber floor mats and a cooling fan also furnished. ROPS complies with ISO-3471: 1994 and ISO 3449: 1992. All operating controls, monitoring and working signals are conveniently located in consoles within easy reach of the operator and comply with ISO-6405-1, & ISO-6405-2. Non slip type Ladders/step and hand rails are provided for access to the operator's cab which meets requirements of ISO-2867. There is a provision for seat belt.
	4.14 Gauges and Indicators The following shall be provided as a minimum:	AGREED	Noted
	a) Water temperature gauge		Provided
	b) Engine oil pressure gauge/indicator		Provided
	c) Converter oil temperature gauge/indicator		Provided
	d) Fuel capacity gauge		Provided
	e) Service meter		Provided
	f) Air pressure gauge		Provided
	g) Speedometer		Provided
	4.15 Warning Alarms/Lights The following audio/visual warning alarms shall be provided:	AGREED	Noted
	a) Front warning horn		Provided
	b) Reversing alarm		Provided
	c) Coolant level and temperature		Provided
	d) Engine oil pressure and temperature		Provided

4.16 Electrical Equipment The grader shall be provided with the following:	AGREED	Noted
a) 24V DC electrical system with suitably rated alternator of reputable make		Provided
b) Electric start		Provided
c) Reputable make high capacity batteries		Provided
d) Battery isolation switch All electrical circuits shall be protected by adequately rated fuses, which shall be easily accessible for maintenance. At least two spare fuses of each size shall be provided in each fuse box.		Battery isolation switch through key switch All electrical circuits will be provided with MCB protected electrical circuit. All electrical circuits are MCB protected electrical circuit and hence fuses are not required.
4.17 Lighting Adequate lighting shall be provided for safe nightshift operation. The lighting system should include the following:	AGREED	Noted
a) 4 (no) Headlights		Provided
b) 2 (no) Rear working lights		Provided
c) 4 (no) ROPS mounted working lights (2-front and 2-rear)		Provided
d) Cabin dome light		Provided
e) Blade floodlights Headlights and rear working lights shall be identical in type and size and fitted in steel protective enclosures.		Headlights & rear working lights will be fitted in steel protective enclosures.
4.18 Guards and Shields Adequate guards and shields, which comply with ISO 3457, shall be provided throughout the grader. There should be provision of turbocharger guard	AGREED	Guards and shields are provided which complies with ISO-3457. Provision for turbo charger guard provided.
4.19 Fire Extinguisher Adequate number of fire extinguisher shall be provided on the grader, suitably mounted in a heavy-duty bracket for ease of removal. The extinguisher shall be dry powder (cartridge type) with a minimum capacity of 5 kg and shall comply with Indian Standard IS: 2171.	AGREED	2 nos. portable 5 kgs dry powder (Cartridge type) fire extinguisher shall be provided. One No. Fire extinguisher shall be mounted on equipment in a heavy duty bracket and the other shall be supplied as spare in loose condition. The fire extinguisher shall comply with the Indian Standard IS:2171.
5. Ancillary Equipment and Other Requirements The following shall be provided on the grader:	AGREED	Noted
a) Front mounted push plate		Provided
b) Rear mounted rfid drawback		Provided
6. Additional Spares The following shall be provided along with each machine:	AGREED	Noted
a) End Bit and Cutting Edge along with Fastener - 24 sets		Noted and agreed.
6. Special Guarantees The following guarantee will apply for the different components i) Complete engine system - 24 months or 6500 hours from the date of commissioning (whichever is earlier) In case of failure of engine system beyond 6500 hrs the system will have to be replaced on prorata payment basis taking the life of the engine system as 7550 W/hrs. ii) Transmission Assy. - 24 months or 6500 hrs from the date of commissioning (Whichever is earlier) iii) Electrical item:- 6 months or 1000 hrs. (whichever is earlier) iv) Engine hour meter:- 12 months or 3000 hrs. (whichever is earlier) In case of any guarantee failure intimated reasonably in time to the bidder, the replacement or repair job (as per guarantee settlement) must be completed within 21 days at site by the bidder at no cost to the purchaser.	AGREED	Noted and agreed.
7.0. Performance Guarantee The Supplier shall guarantee that the availability of the equipment shall be not less than 86% (eighty-six per cent) for a period of 12 months from the accepted date of commissioning.	AGREED	Noted and agreed.
8.0. Composite Warranty / Guarantee The complete equipment shall be warranted for 12 months from the accepted date of commissioning.	AGREED	Noted and agreed.
9.0. Information To Be Provided By The Supplier The Supplier shall furnish the following information, which will be used for the assessment of bids and as guaranteed technical particulars in any subsequent contract. All technical information shall be in SI units.	AGREED	Noted and complied
9.1 General		
a) Model of equipment offered.		BG825
b) Number of similar model supplied during the last ten years.		List uploaded and enclosed with offline documents.
The information shall be given in the following format prescribed in Section VIII (Pro-Forma for Performance Statement).	AGREED	List uploaded and enclosed with offline documents.
<div>Company Mine Name Mine Location Mine Type No. Of machines Model Commissioning date</div>		
c) Details of nearest Depot/Warehouse and Service Facility available for the present offer, in the following format.	AGREED	Details uploaded and enclosed with offline documents.
<div>Major Depot/Warehouse Location Contact No Inventory Value (Aprox) Location Type of Facility Service Facility No. of Engineers*</div>		
* Engineers / Technicians employed to service the equipment either at the facility or on site.	AGREED	
d) Details of special tools to be provided with the equipment.	AGREED	
e) Details of erection programmes for the bid.	AGREED	

	9.2 Technical Details a) Latest engine performance curves showing net power, net torque and specific fuel consumption of the installed engine, measured according to ISO 9249. b) Maximum forward speed determined according to ISO 6014. c) Results of service and secondary brake stopping tests carried out according to ISO 3450, in the following format:	AGREED	a) Uploaded and enclosed b) Maximum travel speed, forward 44.9 km/hr and reverse 47.9 km/hr. c) Complied
Braking system tested	Slope (%)	Machine speed (km/h)	Stopping distance (m)
Service	0	30	14
Secondary	0	30	28
	d) Turning diameter as defined in clause 4.2 of ISO 7457. e) Maximum drawbar pull measured according to ISO 7454. f) Detailed technical descriptions of the grader. g) Comprehensive commercial literature specifications. h) Layout drawings and detailed technical descriptions of hydraulic systems and components. i) Detailed list of instrumentation, monitoring and alarm systems. j) Details of major bought-out assemblies and sub-assemblies including manufacturer, type, etc. k) Operation and maintenance manuals in accordance with ISO 6750.	AGREED	d) Turning diameter as defined in clause 3.2 of ISO-7457 is 15.8 m e) Draw bar pull measured according to ISO-7464 is 14420 kg f) Uploaded and enclosed g) Uploaded and enclosed h) Uploaded and enclosed i) Uploaded and enclosed j) Uploaded and enclosed k) Shall be supplied along with equipment.
	9.3 Dimensions, Weights and Performance Details	AGREED	Noted
	9.3.1 Dimensions		
	a) Overall length		10010mm
	b) Overall width		4928mm
	c) Ground clearance		440mm
	d) Drawbar height		1045mm
	e) Height to top of ROPS structure		3750mm
	9.3.2 Weights	AGREED	Noted
	a) On front wheels		7730Kgs
	b) On rear wheels		18020Kgs
	c) Total weight		25750Kgs
	9.3.3 Engine	AGREED	
	a) Manufacturer and model		BEML.B56D140-1
	b) Number of cylinders		6
	c) Bore		140mm
	d) Stroke		165mm
	e) Displacement		15240cc
	f) ISO net power at.....r/min		209Kw(280HP) @2100rpm
	g) Maximum torque		1236Nm @ 1400rpm
	9.3.4 Transmission	AGREED	
	a) Number of forward and reverse gears		8 Forward and 8 Reverse
	b) Maximum speed in each gear		Forward : 1st - 4.0, 2nd - 5.4, 3rd - 8.0, 4th - 11.5, 5th - 15.8, 6th - 21.4, 7th - 31.3, 8th - 44.9 Reverse : 1st - 4.3, 2nd - 5.8, 3rd - 8.5, 4th - 12.2, 5th - 16.9, 6th - 22.8, 7th - 33.4, 8th - 47.9
	c) Final drive types		Double reduction final drive of spiral bevel gear with electric over hydraulically controlled differential lock-unlock device and planetary gear.
	d) Axle types		Reverse Elliot-type front axle and full floatation rear axle.
	9.3.5 Steering	AGREED	
	a) Types		Orbit-Roll type full hydraulic
	b) Emergency steer method		Electrically operated pump motor is provided for emergency steering.
	9.3.6 Manoeuvrability	AGREED	
	a) Frame articulation		25° left and right
	b) Front wheel steering angle		50° left and right
	c) Wheel lean		18° each side
	9.3.7 Brakes	AGREED	
	a) Type		Oil disc brakes
	b) Actuating system		Foot operated air actuated on 4 wheels and sealed for adjustment free operation
	9.3.7.2 Secondary brakes	AGREED	
	a) Type		Dual line system protection type
	b) Actuating system		Two crossed brakes lines provided for sure braking in case of failure on one side
	9.3.7.3 Parking brake	AGREED	
	a) Type		Mechanical, dry, disc type on output shaft
	b) Actuating system		Actuated by spring application and air released

9.3.8 Tyres		AGREED	
a) Size and type			18.00-25-12PR Tubeless type L-3 Rock type
b) Tread			L-3
c) Ply rating			12 PR
d) Rim size			13.00 VA x 25 TB
9.3.9 Hydraulic System		AGREED	
a) Make, model, number, flow rates and operating pressures of pumps			Uchida Rex-Roth makes triple gear pump model no. G3P16-COC630RPR35WRTB30ABR-20, 131+ 74+ 63 lt./min flow
b) Make, model, number and ratings of motors			Sunntomo Eaton make, piston type hydraulic motor model no. ME300 & 49 kW (66 HP)
c) Make, model, number, piston diameters and stroke lengths of cylinders			Make : M/s BEML / reputed Type Qty(No.) Stroke x Bore(mm) a) Steering 2 380 x 60 b) Blade lifting 2 1388 x 100 c) Blade tipping 1 404 x 120 d) Blade side shifting 1 1700 x 100 e) Drawbar side shifting 1 753 x 100 f) Front wheel leaning 1 190 x 90
d) Relief valve operating pressures			Work equipment : 210 Kg/cm2 (20580 Kpa) Steering pressure : 175 Kg/cm2 (17150 Kpa) Transmission : 31 Kg/cm2 (3038 Kpa)
9.3.10 Blade Equipment		AGREED	
a) Circle diameter			1775 mm
b) Mouldboard length, height and thickness			4928 mm x 800 mm x 25 mm
c) Blade base			3100 mm
d) Blade load			13720 Kg
e) Cutting edge length, height and thickness			2 nos. , 2438 mm x 203 mm x 19 mm
9.3.11 Blade Range		AGREED	
a) Maximum lift above ground			490 mm
b) Maximum drop below ground			680 mm
c) Maximum shoulder reach, left and right			2400 mm each side
d) Maximum bank cutting angle			90°
e) Hydraulic blade tip			49° forward, 5° backward
f) Cutting angle			25.5° ~ 84°
9.3.12 Electrical System		AGREED	
a) Starter make and model			LUCAS-TVS make, model SM130PE/Deico Remy 42MT, 7.5 kW or any reputed make starter provided
b) Starter control make and model			LUCAS-TVS make 4ST relay reputed make switch
c) Alternator make and model			45Amp 24 V REIL/DELCOREMY/REPUTED MAKE
d) Batteries, numbers and rating			2 x 12 V, 200 Ah, low maintenance free batteries
e) Lighting details			4Nos. head light (square type) in the front, 2 Nos. rear working light square type, 4 Nos. rops mounted working light (square type-2 in front x 2 in rear) are provided, 1 No. cabin dome light and 2 Nos. working flood light on boom for blade operation are provided.

ANNEXURE-B-1

LIST OF FILTERS & O RINGS INCLUSSVE OF STANDARD ENGINE FILTERS
REQUIRED PER EQUIPMENT FOR FIRST 3000 WORKNG HOURS OF EQUIPMENT.

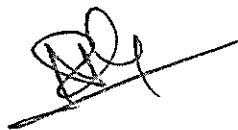
Sr. No.	Part No.	Description	Qty/ Eqpt	Change Intervals (in Hrs)	Qty required for 3000Hrs.	BCCL Material Code.
1	WA9652	Element Hydraulic	1	1000	3	10901090791
2	0700013098	O Ring	1	1000	3	12410990179
3	23B1611310	Element T/M	1	1000	3	12403993609
4	4196015250	Element Breather	1	1000	3	11602963098
5	41Z9900472	Engine Maint. KIT	1	250	12	12038990267
6	41Z1200244	Air Cleaner Element.	1	500	6	12041040035



ANNEXURE-B-2

LIST OF END BIT AND CUTTING EDGE ALONG WITH FASTENER- 24 SETS.

Sr. No.	Part No.	Description	Qty/Eqpt.	Qty for - 24 sets.	BCCL Material Code.
1	2347032260	Bolt	32	768	12403990281
2	2347032270	Bolt	10	240	12403990261
3	2357012140	Cutting Edge	2	48	12401990167
4	2347032280	Bolt	2	48	12403993814
5	2347032290	Nut	44	1056	12403993802
6	CFW0520060	Washer	44	1056	11212012581
7	2347032240	End Bit	2	48	12403990352
8	2347032230	Edge Side	2	48	12403990301



Format of Performance Bank Guarantee
(RS.250 non-judicial stamp paper)

Messrs _____, a Company having its office _____
 _____ (hereinafter called the Contractor) has entered into a Contract No. _____
 _____ dated _____ (hereinafter called the said Contract) with Bharat Coking Coal Limited (hereinafter

called BCCL, Buyer) to supply equipment on the terms and conditions contained in the said contract.

1. It has been agreed that hundred percent (100%) payment of the value of the equipment will be made to the Contractor in terms of the said contract on the Contractor furnishing to the purchaser a Bank Guarantee for the sum of _____
 _____ equivalent to 10% of the value of order by the Contractor, as security for the due and faithful performance of the terms of the said contract and against any loss or damage caused to or would be caused to or suffered by Purchaser by reason of any breach by the said Seller of any of the terms and conditions contained in the said contract.

The _____ having its office at _____ has at the request of Seller agreed to give the guarantee hereinafter contained.

2. We, _____ Bank Ltd. do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Purchaser stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of any breach by the said Seller or any of the terms and conditions contained in the said Contract or by reason of the Seller's failure to perform the said contract. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. We shall not withhold the payment on the ground that the Seller has disputed its liability to pay or has disputed the quantum of the amount or that any arbitration proceeding or legal proceeding is pending between purchaser and the Seller regarding the claim. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.

3. We, _____, further agree that the guarantee herein contained shall come into force from the date hereof and shall remain in full force and effect during the period that would be taken for the performance of the said contract and that it shall continue to be enforceable till all the dues of the Purchaser under or by virtue of the said contract have been fully paid and its claims satisfied or purchaser certifies that the terms and conditions of the said contract have been fully and properly carried out by the said Seller and accordingly discharge the guarantee.

Unless a demand or claim under this guarantee is made on us in writing on or before the _____ (date to be given), we shall be discharged from all liability under this guarantee thereafter.

4. We, _____ Bank Ltd., further agree with the Purchaser, that the Purchaser, shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the said seller (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser, against the said Seller, and to forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason or any such variation or extension being granted to the said Seller or for any forbearance act or omission on the part of the Purchaser, or any indulgence by the Purchaser, to the said Seller or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

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

5. We, _____ Bank Ltd., further agree to renew the Bank Guarantee from time to time at the request of the BCCL.

6. We, _____ Bank Ltd., lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Purchaser, in writing.

7.. The Bank has under its constitution power to give this guarantee and _____
 _____ who have signed it on behalf of the Bank have authority to do so.

7. This Bank Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

Dated :..... Day of 20.....
 for Bank Limited.

Signature of the authorised person
 for and on behalf of the Bank.

ANNEXURE "D"

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 Bharat Coking Coal Ltd. 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 pattern or sample sealed by the purchaser for guidance of the Inspector.
 - e. Trade pattern denoting a standard of the ISI or other standardizing authority 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.
- 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 feminine gender and work persons, shall include any company or association or body of individuals, whether incorporated or not.
- 5 Terms and expressions not herein defined shall have the meanings assigned to them in the 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.
- 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 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 upto 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 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 can not 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 installment 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.
 - (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 words 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.
- 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 caused 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 or place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of tender or supply order has been issued.
- (c) Jurisdiction of Courts: The courts of the place from the acceptance of tender has been issued shall alone have Jurisdiction to decide any dispute arising out of or in respect of the contract.
- (d) Marking of Stores: The marking of the stores must comply with the 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 relation 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 Penal Code, 1860 or the Prevention of Corruption Act, 1947 and any amendments thereto or any other Act enacted for the prevention of corruption by Public Servants shall entitle Coal India Limited and or its subsidiary companies to cancel the contract and all or any other contract with the supplier and to recover from the supplier the amount of any loss arising from such cancellation in accordance with the provisions of Clause 20.
- (b) Any dispute or difference in respect of either the interpretation effect or application of the above condition or of the amount recoverable, the re-under by the purchaser from the supplier shall be decided by Coal India Limited and its subsidiary companies whose decision 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".

30 PROFORMA FOR COLLECTING PAYMENT THROUGH ELECTRONIC MODE INCLUDING ELECTRONIC FUND TRANSFER (EFT) &ELECTRONIC CLEARING SYSTEM

(To be submitted off line in triplicate)

1	VENCOR/SUPPLIER NAME AND ADDRESS (WITH TELEPHONE NO. AND FAX NO.)	
2	PARTICULARS OF BANK ACCOUNT	
	A. BANK NAME	
	B. BRANCH NAME (INCLUDING RTGS CODE)	
	ADDRESS	
	TELEPHONE NO. AND FAX NO.	
	C. 9- DIGIT CODE NO. OF THE BANK AND BRANCH(Appearing on the MICR cheque issued on the Bank) or 5-Digit code No. of SBI	
	D. ACCOUNT TYPE (SB Account/current account or cash credit with code 10/11/13)	
	E. LEDGER NO./LEDGER FOLIO NO.	
	F. ACCOUNT NO. (CORE BANKING) AND STYLE OF ACCOUNT (As appearing on the cheque book)	

31. DATE OF EFFECT

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a participant under the scheme. Any Bank charges levied by the Bank of such e-transfer shall be borne by us.

Date_____

(_____)

Signature of the vendor/supplier

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

(_____)

Signature of the authorised officials of the Bank




ANNEXURE E

Performance of equipment under performance guarantee during warranty period

Supplier Name

M/c Model

M/cv No

D.O.C.

S.O.No

Project
Area

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

Certificate

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



STANDARD TOOLS LIST : BG825

(29)
ANNX: 'F'

SL. NO.	PART NO.	DESCRIPTION	Q/E
1	985-TI-01002	TOOL BOX	1
2	451-TI-11234	NON REVERSIBLE RACHET	1
3	451-TI-11259	UNIVERSAL JOINT 1/2" SQ DRIVE	1
4	451-TI-11275	EXTENSION BAR 1/2" SQ. DRIVE - 250 MM	1
5	451-TI-11283	SWIVEL HANDLE 1/2"SQ DRIVE	1
6	452-TI-11013	SINGLE ENDED OPEN ENDED JAW SPANNER - 75 MM	1
7	935-TI-11774	HEX SCREW DRIVER	1
8	985-TI-11128	BAR	1
9	985-TI-11322	PHILIPS SCREW DRIVER 0 8x150	1
10	CFB-02-23040	BOLT HEX HD. M30X140 - 3.5C.P - GR.10.9	1
11	CFN01-23026	NUT HEX M30 X 25.6 - 3.5CP - GR - 10	1
12	935TI02191	TYRE INFLATION KIT	1
13	CTW0208035	WRENCH FILTER	1
14	451-TI-02016	BIHEX SOCKET 1/2" SQ DRIVE	1 SET
a)	451-TI-11129	BI-HEX SOCKET 1/2" SQ.DR. - 10mm	1
b)	451-TI-11137	BI-HEX SOCKET 1/2" SQ.DR. - 13mm	1
c)	451-TI-11145	BI-HEX SOCKET 1/2"	1
d)	451-TI-11153	BI-HEX SOCKET 1/2" SQ.DR. - 17mm	1
e)	451-TI-11161	BI-HEX SOCKET 1/2" SQ.DR. - 19mm	1
f)	451-TI-11178	BI-HEX SOCKET 1/2" SQ.DR. - 22mm	1
g)	451-TI-11186	BI-HEX SOCKET 1/2" SQ.DR. - 24mm	1
h)	451-TI-11194	BI-HEX SOCKET 1/2" SQ.DR. - 27mm	1
i)	451-TI-11202	BI-HEX SOCKET 1/2"	1
j)	451-TI-11218	BI-HEX SOCKET 1/2"	1
15	452-TI-02006	DOUBLE ENDED OPEN JAW SPANNER SET	1 SET
a)	451-TI-11048	D.E.O.J. SPANNER - 8 X 10 MM	1
b)	451-TI-11056	D.E.O.J. SPANNER - 12 X 14 MM	1
c)	451-TI-11064	D.E.O.J. SPANNER - 13 X 17 MM	1
d)	451-TI-11072	D.E.O.J. SPANNER - 19 X 22 MM	1
e)	451-TI-11081	D.E.O.J. SPANNER - 24 X 27 MM	1
f)	451-TI-11097	D.E.O.J. SPAN - 30 X 32 MM	1
g)	452-TI-11021	D.E.O.J. SPANNER - 36 X 41 MM	1
h)	452-TI-11038	D.E.O.J. SPANNER - 46 X 50 MM	1

ANNEX: "G"

QUALITY ASSURANCE PLAN

MODEL : BG825 MOTOR GRADER
CLIENT : M/s BEML LIMITED
CUSTOMER :

QAP Ref : QAP/BG825/
Date of issue:

SL NO	COMPONENT	CHARACTER/ PARAMETER	NATURE OF CHECK	QUANTITY OF CHECK	ACCEPTANCE STANDARD	RECORDING G FORMAT	INSPN. AGENCY	REMARKS
A	Raw Material & Bought out item	Material, Dimensions, Defects , NDT	Measure/ Visual	As per plan	BEML acceptance stds.	Check sheets/ Mtl test	PERF 3 WIT 2 / 1	
B. 1.	Engine	Make & Model SL.No and damages, if any	Visual	100%	BEML acceptance stds.	Test Certificate	2 1	
2.	Transmission	Rated HP, Torque at rated speed	Test Bench Performance					
3.	Hydraulic System	Make, Model ,SL. No.	Visual	100%	BEML assembly stds.	Test Certificate		
4.	Gradeability	Tank flushing	Visual	100%	BEML assembly stds.	Test Certificate	2	
5.	Turning Radius	Pressure & Leak checks	Visual	100%	BEML assembly stds.	Test Certificate	2	
6.	Fuel system	1 in 4 in unleaded condition	Measure	100%	BEML assembly stds.	Test Certificate		
		As per specification	Measure	100%	BEML assembly stds.	Test Certificate		
		Tank flushing	Visual	100%	BEML assembly stds.	JIR	2 1	
		Pressure & Leak checks	Visual	100%	BEML assembly stds.	stage check sheets		
C.	Checks on completed equipment		Visual	100%	BEML assembly stds.	Test Certificate		
1	Engine	Engine High and Low Idle rpm. Engine HI and Lo Idle pressures.	Measure		BEML assembly stds.		2 1	
2	Transmission	Effective Gear shifting / Forward & Reverse	Measure Function	100%	BEML assembly stds.		2 1	
3.	Brake & Steering	Service & Parking Brake	Measure	100%	BEML assembly stds.	JIR	2 1	
4	Controls & Instruments	Electrical checks (working of accessories) Proper routing of Wire Harness . Air Pressure Gauge, Temp. Gauge, Fuel Gauge, Electrical display monitoring system	Function Visual Function	100%	BEML assembly stds.		2 1 2 1 2 1	

[Handwritten signatures]

SL NO	COMPONENT	CHARACTER/ PARAMETER	NATURE OF CHECK	QUANTITY OF CHECK	ACCEPTANCE STANDARD	RECORDING FORMAT	INSPN. AGENCY		REMARKS
							PERF	WIT	VERIFY
5	Blade / Draw bar	Draw Bar	Visual	100%	BEML assembly stds	JIR	2	1	
		Circle	Measure				2	1	
		Circle Dia.	Measure				2	1	
		Dimensions	Measure				2	1	
		Blade Base	Measure				2	1	
		No. of Cutting Edges	Check				2	1	
6	Safety devices & Lighting System	Availability & functioning of safety features	Function / Check	100%	BEML assembly stds	JIR	2	1	
		Standard tools & accessories	Visual	100%	BEML assembly stds	JIR	2	1	
7	Std. Accessories tools & Tackles								
8	Optional Items	Optional items as per Sale Order	Visual	100%	As per order terms.		2	1	

The QAP meets the requirements of ISO9001-2008 Quality Management System Standard.

SIGNATURE OF BEML REP.

SIGNATURE OF CUSTOMER REP.

Note : 1. CUSTOMER

2. BEML

3. SUB-SUPPLIER

JIR -- JOINT INSPN. REPORT

PREPARED BY	T.N. SRINIVAS (QAC) AGM - CORPORATE QUALITY	<i>[Signature]</i>	10/06/13
APPROVED BY	H.R. GURUNATHA NAIK (Q-1) GM - CORPORATE QUALITY	<i>[Signature]</i>	10/06/13

H. R. GURUNATHA NAIK
General Manager
CORPORATE QUALITY
BEML LIMITED
"BEML Soudha", 23/1, 4th Main,
S. R. Nagar, Bengaluru-560 027.

BG825

ANNEX: H

MOTOR GRADER



Salient Features

Performance :

- With its high engine horse power and operating weight, BG825, is ideal for heavy duty road construction/maintenance jobs at mining yards and demanding job sites.

Productivity :

- High Power BEML engine, high-performance blade equipment and frame articulation ensure high productivity.

Operating Ease :

- The finger tip control of a smooth, electrically controlled transmission provides high manoeuvrability.

Comfort :

- Rear frame mounted operator's compartment enables greater viewing ease of the machine's travelling direction. Operator's Comfort is enhanced by adjustable oil suspension seats and rubber pad mounted operator's compartment. Electronic display monitoring system facilitates daily maintenance checks and alerts the operator in the event of malfunction.



Flywheel power (net) : 209 kW (280 hp) @ 2100 rpm
Blade length : 4,928 mm
Operating weight : 25,750 kg

BG825

[Handwritten signatures]

BG825 MOTOR GRADER

Technical Specifications

Engine

Make	BEML
Model	BS6D140-1
Type	Diesel, 4-stroke, water cooled, overhead valve, turbocharged, direct injection mechanical all-speed governor.
Flywheel power	209 kW (280 hp) @ 2100 rpm (SAE J1349)
No. of cylinders	6, inline
Bore & Stroke	Ø 140 x 165 mm
Displacement	15,240 cc
Electricals	
Alternator	24 V, 45 A
Starting motor	24 V, 7.5 kW
Battery	2 x 12 V, 200 Ah maintenance free batteries.

Transmission

Make	BEML							
Type	Hydro shift transmission							
Travel speeds (km/h) at rated engine rpm								
	1st	2nd	3rd	4th	5th	6th	7th	8th
Forward	4.0	5.4	8.0	11.5	15.8	21.4	31.3	44.9
Reverse	4.3	5.8	8.5	12.2	16.9	22.8	33.4	47.9
Max Drawbar pull	14,420 kg							

Axles

Front axle	
Type	Reverse Elliot - type
Centre ground clearance	680 mm
Oscillation angle	32° (total)
Front wheel leaning	18° (each side)
Rear axle	Full-floating rear axle is made of forged heat treated steel.

Final Drive

Type	Double - reduction final drives of spiral bevel gears with electric - over hydraulically controlled differential lock-unlock device and planetary gear, roller-chain tandem drives for four rear wheels.
Tandem	Tandem case swings upto 15 degree assuring high machine stability and positive traction during operation

Wheels

Front & rear tyres	18.00 x 25 - 12 PR (L-3) rock-type tubless tyres
Rims	13.00 VA x 25 TB
Inflation pressure	2.6 kg/cm ² max.

Brakes

Service brake	Foot operated, oil disc brakes, air actuated on 4 rear wheels and sealed for adjustment - free operation. Two crossed brake lines for sure braking
Parking brake	Mechanical, dry, disc type actuated on transmission output shaft, spring applied and air released.

Steering

Type	Orbitrol, full hydraulic steering system
Cylinders	
Type	Double acting
Quantity	2 nos.
Max. steering angle	50° left and right of front wheels
Frame articulation angle	25° left and right
Min. turning radius (Frame articulated)	7.9 m

Frames

Type	Frames are articulated by two hydraulic cylinders. Box sectioned front and rear frames are of steel plate welded construction and connected with an articulation pin. One-piece frame design for the Front Frame in which hydraulic pipings are installed.
Front frame section	350 mm (width) x 400 mm (height)

Operating Weight

On front wheels	7,730 kg
On rear wheels	18,020 kg
Total weight (approx.)	25,750 kg

Coolant & Lubricant Capacity (Refill)

Systems	Capacity (Litres)
Coolant	58
Fuel tank	500
Engine	38
Transmission	25
Tandem case (each side)	190
Final drive case	34
Hydraulic oil	105

Hydraulics

Hydraulic pumps

Type	Three gear pump (landern) type
Capacity (total)	268 l/min (steering, work equipment control LH and RH)
1st pump	131 l/min - steering
2nd pump	74 l/min - control LH work equipment
3rd pump	63 l/min - control RH work equipment

Hydroshift transmission pump

Type	Gear type
Capacity	133 l/min

Differential pump

Type	Gear type
Capacity	17 l/min

Hydraulic motor

Type	Piston type hydraulic motor
Output power (for blade rotation)	49 kW (66hp)

Hydraulic cylinders

Type	Double acting piston type, each connected to pilot check valve for positive cylinder action.
------	--

Operation Qty. In numbers

Blade lifting	2 (without pilot check valve)
Blade side shifting	1
Drawbar side shifting	1
Front wheel leaning	1
Blade tipping	1
Frame articulation	2
Front wheel steering	2

Control valves

Type	5-spool type, two valves (LH & RH) with built-in relief valve
------	---

Relief valve settings

Work equipment	210 kg/cm ²
Steering	175 kg/cm ²
Transmission	31 Kg/cm ²

Blade Range

All blade movements and positions can be hydraulically controlled from the operator's seat.

Max. lift above ground	490 mm
Max. drop below ground	680 mm
Max. shoulder reach : left	2,400 mm
: Right	2,400 mm
Max. bank cutting angle	90°
Hydraulic blade tip	49° forward, 5° backward
Cutting Angle	25.5° ~ 84°

Blade Equipment

Drawbar

Type	A-shaped, U-section press - formed and welded construction for maximum strength
------	---

Circle

Type	Internal gear type, hydraulically controlled with six guide shoes for 360° smooth rotation.
------	---

Circle diameter (outer)	1,775 mm
-------------------------	----------

Mould Board

Type	Box - section construction with wear resistant steel. Hydraulic blade side shift and tip control. Reversible overlay end bits, side edges are attached.
------	---

Length x height x thickness	4,928 mm x 800 mm x 25 mm
-----------------------------	---------------------------

Blade Base	3,100 mm
------------	----------

Blade Load	13,720 kg
------------	-----------

Cutting edges

Type	Curved type cutting edges meet SAE standard J739b
------	---

No. of cutting edges	2
----------------------	---

Length x height x thickness	2,438 mm x 203 mm x 19 mm
-----------------------------	---------------------------

Standard Accessories

Adjustable console and work-equipment control levers, Adjustable seat, Horn, Back-up alarm, Stop and tail lamps, Panel lamp, Pilot check valves for blade lift, Blade tipping, Front wheel leaning, Drawbar sideshift and frame articulation cylinders, Turn signal lights, Front working lights, Rear working lights, Head lights, Rear view mirrors, Front pull hook, Rear drawbar, Fire extinguisher

OPTIONAL ATTACHMENTS

Rear Mounted Ripper :

Four, Parallel linkage type. With hydraulically controlled raise and lower functions, this ripper can be used to dig out rocks or hard ground not removed by a scarifier.

No. of shanks	3
(max. 4 shanks installable)	

Max. digging depth	480 mm
--------------------	--------

Max. lift above ground	675 mm
------------------------	--------

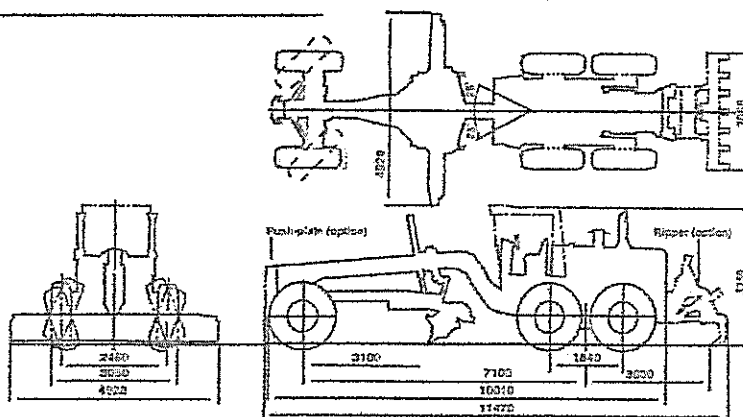
Max. digging width	2,980 mm
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Additional weight	2,585 kg
-------------------	----------

Push plate, Tyre inflation kit, A/C Cabin, Auto lube system, Auto fire suppression system, Rops mounted rear and front lamp.

Dimensions

in mm



Ground Clearance 440 mm

ROPS and Cabin (low-profile type), push-plate and rear mounted ripper are optionally available

1. Illustrations may include optional equipment & accessories and may not include all standard accessories.
2. Materials and specifications are subject to change without notice.
3. All the specifications meet relevant ISO standards.



www.bemlindia.com

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BHILAI :

Room No. 22/C, BGF Building, Near Ispat Bhawan,
Bhilai - 490 001 (CG). Ph. No. 0788-2223682
Fax No. 0788-2220055. E-mail : bhilai@rm.beml.co.in

BHUBANESWAR :

91/A1, Shishu Nagar, Bhubaneswar - 751 037.
Telefax No. 0674-2545227
E-mail : bhubaneswar@rm.beml.co.in

CHANDRAPUR :

Manikvar Tise Factory Compound, Ghugus Road,
Padoli, Chandrapur - 442 406(MS). Ph. No. 07172-367250
Fax No. 07172-367760, Email : chandrapur@rm.beml.co.in

DHANBAD :

Kamal Kuri, Kola Kusuma, Sakadaha, Dhanbad - 826 127,
Ph. No. 0325-2208952, Fax No. 0326-2200182
E-mail : dhanbad@rm.beml.co.in

GUWAHATI :

RG Baruah Road, G. Blyano (West), Tinsail,
Guwahati-781 024, Telefax No. 0361-2454668,
E-mail: guwahati@rm.beml.co.in

HOSPET :

No. 249, St Danuka Nilaya, No. 42, 1st Main Road,
Bassewasyra Badavara, Hospet-533 201(Karnataka)
Mobile No. 09446498605

JAMMU :

62C, Block DC, Gendhinagar, Jammu Tawi - 180 004.
Ph. No. 0191-2430447, Fax No. 0181-2450764
(JPF), E-mail : jammu@rm.beml.co.in

KOTHAGUDEM :

5-25/1, Rajaji Complex, Lakshminagar, Kothagudem-507 101 (AP).
Ph. No. 08740-242469, Fax No. 0874-245572,
E-mail : kothagudem@rm.beml.co.in

MADURAI :

9 - 4/43, Kalai Nagar, 2nd Main Road, Madurai - 625 017.
Tele No. 0452-2549453 / 2549125 / 2549125

NEYYVELI :

F4, Rajendra Prasad Road, Block 27, Neyyveli - 607 803,
Telefax No. 04142-268517, E-mail : neyyveli@rm.beml.co.in

PANJIM :

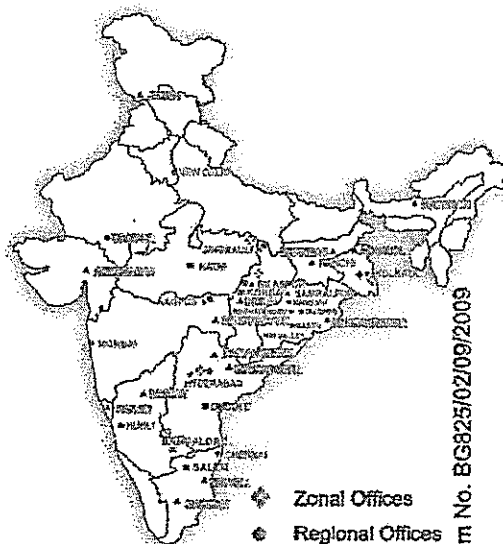
67-12, Dattaprasad Building, III Floor, MG Road, Panjim-403 001,
Telefax No. 0832-2225125, E-mail : goa@rm.beml.co.in

RAMAGUNDAM :

Opp. SCCL 11 A Mines, (PO) Jullaram, Godavari Khani - 505184,
(Vijayanthi), Kothnagar Dist (AP).
Telefax No. 08728 - 244578, E-mail : ramagundam@rm.beml.co.in

UDAPIUR :

No - 20 - 8, Uchhab Bhawan, Boda Road, Fazolepur,
Udipiur - 313004, Rajasthan,
Ph. No. 029-2452053/2452055, Telefax No. 0294-2452054



◆ Zonal Offices

◆ Regional Offices

▲ District Offices

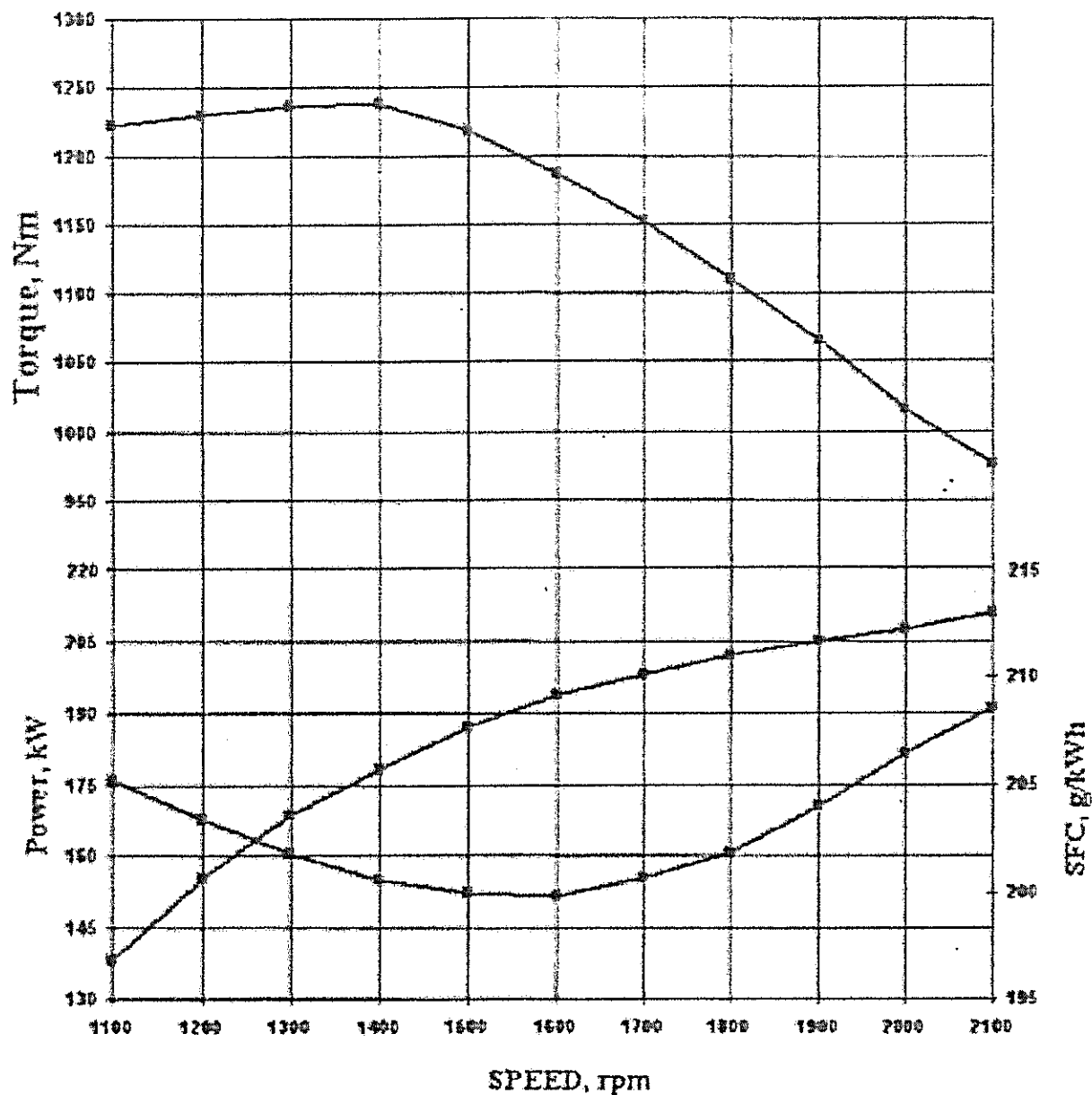
■ Activity Centres

● Service Centers

Form No. BG825/02/09/2009

Flywheel horsepower: 209 kW @ 2100 rpm
 Maximum Torque: 1236 Nm @ 1400 rpm
 Minimum specific fuel consumption: 203 g/kWh

BG825



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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[Handwritten signature]
 27/11/20
A.S. THAMIL SELVAN
 Dy. General Manager
 DEAL LIMITED
 Engine Design & Development
 Belavadi Post, MYSORE-570 018

BG 825 MOTOR GRADER

DESCRIPTION OF HYDRAULIC SYSTEM

The hydraulic system mainly consists of hydraulic reservoir, Triple gear pump, priority flow divider valve, directional control valves and safety valves. The hydraulic reservoir supplies oil to the whole system through triple gear pump. Triple gear pump supplies oil to the following work implements through control valves and priority valve.

1. Blade lift LH cylinder
2. Blade side shift cylinder
3. Ripper control cylinders (if equipped)
4. Power tilt control cylinders
5. Circle rotation motor
6. Drawbar shift cylinders
7. Articulate control cylinders
8. Blade lift RH cylinder
9. Leaning cylinder
10. Steering cylinders

The first section of the triple gear pump supplies oil to flow divider. The flow divider is a load sensing priority type. Flow divider. It supplies oil to steering control unit (Orbitrol) depending on the load requirements. In built Relief valve in priority flow divider is set at 175 kg/cm². A double relief valve is set at 210 kg/cm² is provided in the steering circuit to protect the system from shock loads.


The second and third section of the triple gear pump supplies oil to LH and RH control valve respectively. There is an in built relief valve set at 210 kg/cm² in both LH and RH control valve. The control valve is actuated through mechanical linkages.

The LH control valve controls the function of LH blade lift, blade side shift, ripper control (if equipped), power tilt and circle rotation.

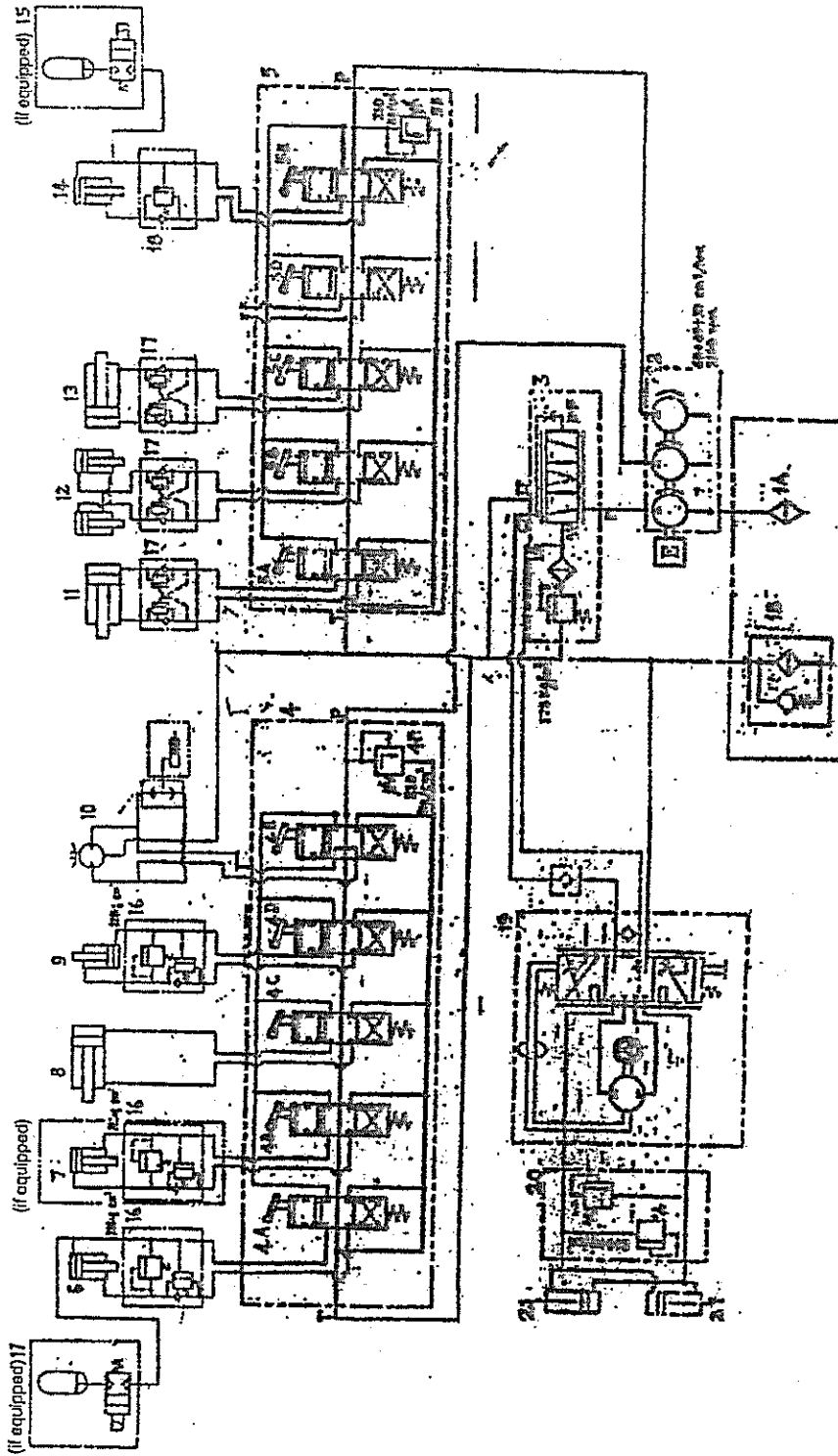
The RH control valve controls the function of RH blade lift, drawabar shift, articulation and leaning. One service spool is also provided in the RH control valve. The pilot check valves with safety valve set at 280 kg/cm² is provided in LH blade lift, power tilt & ripper (if equipped) circuit to protect the system.

Pilot check valve is provided in drawbar side shift, articulation, leaning and RH blade lift circuits. Hydraulically operated clutch plates arrangement for locking the blade rotation is provided in the circle rotation circuit.

-----○-----



HYDRAULIC CIRCUIT DIAGRAM



1. Hydraulic tank
- 1A. Strainer
- 1B. Hydraulic filter
2. Hydraulic pump (for work equipment and steering)
3. Priority flow divider valve (175 kg/cm²)
4. L.H. hydraulic control valve (5-spool)
- 4A. Blade lift (L.H.) control spool
- 4B. Ripper control spool (if equipped)
- 4C. Blade side shift control spool
- 4D. Power tilt control spool
- 4E. Circle rotation control spool
- 4F. Relief valve (210 kg/cm²)
5. R.H. hydraulic control valve (5-spool)
- 5A. Drawbar shift spool
- 5B. Articulate control spool
- 5C. Leaning spool
- 5D. Service spool
- 5E. Blade lift (R.H.) control spool
- 5F. Relief valve (210 kg/cm²)
6. Blade lift cylinder (L.H.)
7. Ripper cylinder (if equipped)
8. Blade side shift cylinder
9. Power tilt cylinder
10. Circle rotation motor
11. Drawbar shift cylinder
12. Articulate cylinder
13. Leaning cylinder
14. Blade lift cylinder (R.H.)
15. Accumulator
16. Pilot check valve (with safety valve) (set pressure 280 kg/cm²)
17. Pilot check valve
18. Pilot check valve
19. Steering valve
20. Double over relief valve (210 kg/cm²) at 10 l/min.
21. Steering cylinder

MAJOR BOUGHTOUT ITEMS : BC825

Sl. No.	Description	Source
1	18.00 X 25-12PR(L-3) TUBELESS TYRES	MRF/Reputed make
2	WHEEL RIMS	Wheels India / Reputed Make
3	HYD. CYLINDERS	Bailey/ Canara Hydraulics / Dantol Hydraulics / Reputed Make
4	AC	M/S RED DOT
5	CABIN	BEML designed Cabin / VILVANA VEHICULAR FABRICATORS / VILVANA VEHICULAR PARTS / MILITARY CRAFT / Reputed Make

Page 1

ANNEX : "K"

Training of Purchaser Personnel : (For 4 Equipments)

Type of Personnel	At Manufacturer's Works			At Site			
	No	Period	Total	No	Period	Total	
Mech Engineer	2	1 week	2 Man Weeks				
Elec Engineer				2	1 week	2	Man Weeks
Mech Supervisor	2	1 week	2 Man Week	3	1 week	3	Man Weeks
Elec Supervisor				4	1 week	4	Man Weeks
Mech Fitter				4	1 week	4	Man Weeks
Electrician				4	1 week	4	Man Weeks
Operator				4	1 week	4	Man Weeks
Total			4			21	Man Weeks







BG825- MOTOR GRADERDETAILS OF ERECTION PROGRAMME

The activity of erection programme will be as follows:

	<u>Time for each Activity</u>
➤ Machine unloading	1 day
➤ Inventory of consignment	2 days
➤ Tyres mounting	2 days
➤ Initial check of all oils and lubricants	2 days
➤ Start & Check	1 day
➤ Equipment load Test	2 days
➤ Equipment delivery	1 day

Erection work will be commenced after receipt of full consignment at site and commissioning will be completed within the period specified in the NIT.

Any delay in erection & commissioning due to non-availability of the facilities as indicated in tender, which are to be provided by the projects will not be to 'BEML' account.

**PERIODICAL AND PREVENTIVE MAINTENANCE SCHEDULE FOR BG825 GRADER**

SL.NO	TYPE OF MAINT.	DETAILS OF MAINTENANCES	Man Power Required	TIME REQUIRED FOR EACH TYPE (Hrs)
1	DAILY CHECKS	Perform walk around visual inspection. Check for fuel hydraulic leaks, hoses or components and general overall condition of dozer. Check radiator mounting & cap, hydraulic lines/cooler, drain water and contaminants from fuel filters daily or each shift.	2	0.5
2	EVERY 250 HOURS CHECKS	Daily checks + Change engine oil and lub filter, fuel filter clean air cleaner element. Check oil level of Transmission, Final Drive, Tandem Drive case LH & RH, blade swing reverse gear case & lubricate all greasing points.	3	3
3	500 HOURS	Daily checks + every 250 hours. Centrifugal oil filter clean, engine wiring check, replaces Air cleaner elements. Inspect the brakes. Check all hydraulic system pressures. clean breather	4	5
4	1000 HOURS	Every 500 hours + change hydraulic filter & oil. Change transmission oil and filter, replace breather element, check Front axle oil, check battery voltage and supply system.	4	8
5	2000 HOURS	Every 1000 hours + engine valve clearance check and adjust, engine breather cleaning.	4	14

PREVENTIVE MAINTENANCE:

Every 2000 hrs: check for leakages and pressure of all systems. This will be carried out along with 2000 hrs. periodical maintenance.

WEAR OUT PARTS REPLACEMENTS:

Every 1500 to 2000 Hrs: Replacement of end bits, cutting edges turn. Adjustment of swing circle, drive gear clearance between drive pinion & gear. This will be (Depending on wear) done concurrently with respective periodic maintenance.



बी ई एन एल लिमिटेड BEMIL LIMITED

(Formerly BHARAT EARTH MOVERS LIMITED)
(A Govt. of India Mini Ratna Company under Ministry of Defence)

ANNEX "O"
WINNER'S

Golden Peacock
Innovation Management Award

Corporate Office
Bemil, SCUBA-227
Plot No. 24, Sector
Bemil, SCUBA-227
Bemil, SCUBA-227
Bemil, SCUBA-227
Bemil, SCUBA-227

Regional Office - Bangalore
Bangalore, Complex
Tel: 081-2724241
e-mail: bangalore@bemil.co.in

CCF Complex
Tel: 0326-252000
e-mail: bemil@ccf.com

Mysore Complex
Tel: 0821-2452422
e-mail: bemil@mysore.com

International Business Division
Tel: 091-69-2252 2725 2223 2252
e-mail: office@intl.bemil.co.in

Technology Division
Tel: 031-22-2236 3100-100
e-mail: office@trading.bemil.co.in

Trading Division
Tel: 031-68-22933113
e-mail: office@trading.bemil.co.in

Regional Office - Bhopal
Bhopal
Tel: 07552-252000
e-mail: bhopal@bemil.co.in

Chennai
Tel: 044-25270791
e-mail: chennai@bemil.co.in

Hyderabad
Tel: 040-23227622
e-mail: hyderabad@bemil.co.in

Kolkata
Tel: 033-2325514
e-mail: kolkata@bemil.co.in

Mumbai
Tel: 022-22043430
e-mail: mumbai@bemil.co.in

Nagpur
Tel: 0712-2244401
e-mail: nagpur@bemil.co.in

New Delhi
Tel: 011-23218520
e-mail: delhi@bemil.co.in

Ranchi
Tel: 0651-2503370
e-mail: ranchi@bemil.co.in

Sambalpur
Tel: 0653-2521654
e-mail: sambalpur@bemil.co.in

Singrauli
Tel: 07695-265260
e-mail: singrauli@bemil.co.in

Bemil Service Centres
Bhopal
Tel: 07552-252000
e-mail: bhopal@bemil.co.in

Hyderabad
Mobile At Hyderabad
Tel: 040-27245973
e-mail: sh@bemil.co.in

Kolkata
Service Centre & Stores
Kolkata - 700088
Tel: 033-24010781
e-mail: kcs@bemil.co.in

Singrauli
Tel: 07695-265260
e-mail: singrauli@bemil.co.in

OPTIONAL FOR COLLECTING PAYMENT THROUGH ELECTRONIC MODE
INCLUDING ELECTRONIC FUND TRANSFER (EFT) & ELECTRONIC CLEARING
SYSTEM

1	VENDOR/SUPPLIER NAME AND ADDRESS (WITH TELEPHONE NO AND FAX NO)	BEMIL LIMITED KAMAL KUNJ SARAIDHELA DHANBAD PIN: 8260-2208882 2205750 FAX NO. 0326-2206182
2	PARTICULARS OF BANK ACCOUNT	
	A. BANK NAME	STATE BANK OF INDIA
	B. BRANCH NAME (INCLUDING RTGS CODE)	DHANBAD BRANCH MICR: 826002002
	C. 9- DIGIT CODE NO. OF THE BANK AND BRANCH OR 5-DIGIT CODE OF SBI	00066
	D. ACCOUNT TYPE (SB Account Current Account or cash credit with code 10/11/13)	CURRENT ACCOUNT
	E. LEDGER NO/LEDGER FOLIO NO.	NOT APPLICABLE
	F. ACCOUNT NO. (CORE BANKING) AND STYLE OF ACCOUNT (As appearing on the cheque book)	10976587403
3	DATE OF EFFECT	IMMEDIATE

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information. I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a participant under the scheme. Any Bank charges levied by the Bank of such e-transfer shall be borne by us.

Date-----

Signature of the vendor/Supplier

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

Signature of the authorized officials of the Bank

