

	<p align="center"> BHARAT COKING COAL LIMITED (A Subsidiary of Coal India Limited) Office of the Chief General Manager(MM) Materials Management Department Commercial Block L-III , Koyla Bhawan : Koyla Nagar Dhanbad : 826005(Fax No- 0326-2230183) </p>
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SUPPLY ORDER NO. BCCL/ PUR/300062/DGSET/10-11/55//12-13/191 dtd 15.01.2013

To,

M/S Sashi Commercial Co.,
GT Road,Punjabi More,
P.O:Searsole Rajbari-713358
Raniganj,Dist:Burdwan(WB)

By fax:0341-2444169

PCC:By Regd post

(Vendor Code: 1/12/D/T/257)

SUB: Supply,Installation,Testing & Commissioning of 320 KVA Capacity DG Set

REF: :

i)Our e tender no. BCCL/PUR/300062/ DG SETS/Bastacola/10-11/55 dated 14.07.11, Cover-I opened on 29.08.11(Off line)and on 30.08.11 (Online) and Cover-II(Price bid) on 27.08.12 for Supply,Installation,Testing & Commissioning of 320 KVA Capacity DG Set
ii)Your offer no. SCC/BCCL/11-12/173 dated 29.08.11and subsequent correspondence.
iii)Letter no.UMA/2011-12/BCCL/001 Dated 23.08.2011 of M/S United Machinery & AppliancesKolkatta-700013

iv) Your letter no. SCC/BCCL/11-12/261 dated 15.11.11 & No.340 dated 15.01.12

v) Your letter no. SCC/BCCL/12-13/290 dated 18.09.12 & dated 07.01.2013

vi)our letter no. BCCL/ PUR/300062/DGSET/10-11/55//12-13/1999-2000 dt- 24.08.2012 for price bid opening

Dear Sirs,

With reference to the above, we are pleased to place an order on you for **Supply,Installation Testing & Commissioning of 320 KVA Capacity DG Set** at the rates and scope of supply as indicated under as per the technical specification specified in the Annexure-I enclosed and

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as per the terms and conditions given hereunder alongwith general terms and conditions of NIT.

Sl. No.	Material Code	Item Particulars	Qty(No)	UNIT RATE(RS)	EXTENEDED VALUE(RS)
1	28706000003	320 KVA DG SET (Manufacturer M/S United Machinery & Appliances,Kolkatta) GREAVES Make Engine Model TBD2V12-IIP CROMPTON GREAVES Make Alternator Make of Control Panel: UNITED Detailed technical specifications and Technical Data as per Annexure-I Enclosed.	1(ONE)	23,52,250.00	23,52,250.00

1.TOTAL ORDER VALUE:RUPEES TWENTY THREE LAKHS FIFTY TWO THOUSAND TWO HUNDRED AND FIFTY ONLY.

2.PRICES: The above prices are on FOR destination basis i.e. inclusive of Packing& Forwarding and Freight & Insurance Charges. The materials shall be despatched directly from your principal/Manufacturer M/S United Machinery & Appliances,Kolkatta, directly to our destination against this order against E-1 transaction against CST.

3.EXCISE DUTY: Not applicable being ISt stage dealer,having not registered with excise authority.However,you shall submit the excise invoice of your principal/Manufacturer M/S United Machinery & Appliances,Kolkatta directly in the name of BCCL's consignee indicating all excise registration details of the manufacturer,enabling BCCL to avail CENVAT credit,if applicable as per provisions of CENVAT.

4.SALES TAX:CST shall be payable extra,as applicable at the time of delivery within the stipulated delivery period.The present/offered applicable rate of CST full rate is @13.5% without "C" form and the present/offered applicable rate of CST at concessional rate against "C" form,if issued by the consignee as per the scope ,is @2%.

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5.DELIVERY PERIOD: to complete the supply within 2 months, which shall be reckoned from the 10th day from the date of issue of the order

6.PAYMENT TERMS: 80% payment towards supply of equipment with accessories alongwith 100% taxes & duties against submission of Performance Bank Guaranty shall be payable within 21 days of receipt and acceptance of materials at site or the date of submission of the bill, whichever is later. Balance 20% payment shall be made after successful completion of installation, testing and commissioning and final acceptance of the equipment. The site for installation shall be made readily available by CGM(E&M), BCCL on receipt and acceptance of the materials at consignee's end. For payment you shall submit pre-receipted invoice in quadruplicate along with Installation and commissioning note in original duly certified by the user.

7.CONSIGNEE: Depot Officer, Ekra Central Store ,P.O:- Bansjora(Sijua), Dhanbad, Jharkhand, India (Phone NO:-0326-2330350).

7 A.ALLOCATION:CGM(E&M),BCCL (FOR BCCL HQ,KOYLA NAGAR)

8.PAYING AUTHORITY: GM(F)MM,BCCL, Koyla Bhawan .

9.GURANTEE /WARRANTY: The supply shall be covered by the maker's standard guarantee as follows:

The supplier shall warrant that the equipment supplied under the contract / supply order

(a) is new, unused and of current design not likely to be discontinued or become obsolete till the life of the offered equipment.

(b) Is in accordance with the contract specifications.

(c) Shall have no defects arising out of design, materials or workmanship.

The supplier shall guarantee for the satisfactory performance of the complete equipment/ stores for a period of 12 months from the date of commissioning or 18 months from the date of dispatch, whichever is earlier. In the event of any defects in materials, design and workmanship during the aforesaid period is found due to faulty design or poor workmanship, the defective part or parts will be replaced by the supplier at site free of cost within 30 days of settlement of warranty claims. The supplier will be required to stock spare parts to take care of warranty failures. Spares should be available within 2 weeks of the breakdown being intimated to them.

The guarantee/composite warranty shall be submitted along with the bill. The warranty shall cover for the total equipment so that the necessity of having to approach different manufacturers of various components/assemblies does not arise and all services under warranty clause shall be the responsibility of the ultimate supplier of the composite equipment. You will also replace the defective parts, if any, during the warranty period free of cost. The responsibility to collect the defective / rejected material will lie with the supplier and the cost for such collection will have to be borne by the supplier.

10.SECURITY DEPOSIT: You shall deposit as security money 10% of the value of the contract ie for Rs **2,66,981.00**(Rupees Two Lakhs Sixty six Thousand Nine hundred and eighty one only) in the form of Bank Draft /Bank Guarantee within 15 days from the date of order.The validity of B.G. will be for a period of three months beyond the expiry of delivery period. If the contractor fails to deposit the security deposit within 15(fifteen) days from the date of order, the same shall be recorded as unsatisfactory performance for future dealings apart from taking any other penal action as may be deemed fit by BCCL . For successful contractor,the Security Money shall be Refunded within 30 days of satisfactory execution of contract. For unsatisfactory execution of contract and/or failure of execution of contract, the security money shall be forfeited.The Security money may be converted into PBG.Your EMD furnished alongwith the tender shall be returned on submission of Security deposit.The BG format for security deposit shall be as was provided alongwith the NIT.

11.PERFORMANCE BANK GUARANTEE (PBG)- PBG on schedule/Nationalized Bank in India valid for three months beyond the expiry of Guarantee/Warranty period of the contract(ie valid for 15 months from the date of successful installation/commissioning of the DG set or 21 months from the date of receipt and acceptance of materials at destination site) for 10% value of the contract ie for Rs **2,66,981.00**(Rupees Two Lakhs Sixty six Thousand Nine hundred and eighty one only) shall have to be submitted to MM Division, BCCL, Koyla Bhawan on or before commencement of supply/ installation/commissioning. The format for PBG shall be as was provided alongwith the NIT

The original Bank Guarantee should be sent to the beneficiary directly by the issuing bank under registered post with A.D

12.Inspection and Tests:

- i)The purchaser or its authorised representative shall have the right to inspect and/or to test the goods to confirm their conformity to the contract. The purchaser shall notify the supplier in writing of the identity of any representative retained for these purposes.
- ii) The inspections and tests may be conducted on the premises of the supplier or its sub-contractors), 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.

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- iii) 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 or make all alternatives necessary to meet specification requirements free of cost to the Purchaser.
 - iv) The Purchaser's right to inspect, test and, where necessary, reject the goods after the Goods arrival in the Purchaser's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representatives prior to the Goods shipment from the country of origin.
 - v) 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.
 - vi) Nothing in these documents shall in any way release the supplier from any warranty or other obligations under this contract.
 - vii) The purchaser shall, at its discretion, have the right to test the ordered material in a Government Test House or in a test house nominated by the purchaser. In case of failure of the material after testing, the cost of tests as well as of the material shall have to be borne by the supplier.
- Final Inspection at destination site shall be arranged by the consignee within one week from the date of receipt of the material. Supplier's technical representative must be available at the time of inspection.

13. TRANSIT INSURANCE: Shall be arranged and covered by you for safe arrival of the materials to the consignee end at your cost and risk.

14. PENALTY FOR FAILURE TO SUPPLY IN TIME: Liquidated Damage(LD) Clause/Risk Purchase clause: The delivery of stores stipulated in Purchase order shall be deemed to be of the essence of the contract and delivery of the stores must be completed by the date specified. No materials should be supplied beyond the specified delivery period, unless specific approval has been obtained from the purchaser.

In the event of failure to deliver the stores within the stipulated date/ period in accordance with the samples and/or specification mentioned in the supply order, and in the event of breach of any terms and conditions mentioned in the supply order. Bharat Coking Coal Limited reserves the right:

- a) To recover from successful tenderer, as agreed liquidated damages, a sum not less than 0.5% (half percentage) of the price of the stores which successful tenderer has not been able to supply (for this purpose part of a unit supplied will not be considered) as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10%. Where felt necessary the limit of 10% can be increased to 15% at the discretion of Head of the Materials Management Division .

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- b) To purchase elsewhere, after due notice to the successful tenderer on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without cancelling the supply order in respect of consignment not yet due for supply or
- c) To cancel the supply order or a portion thereof, and if so desired to purchase the store at the risk and cost of the defaulting supplier and also
- d) To extend the period of delivery with or without penalty as may be considered fit and proper. The penalty, if imposed shall not be more than the agreed liquidated damages referred to in clause (a) above.
- e) To encash any Bank guarantee which is available for recovery of the penalty or
- f) To forfeit the security deposit full or in part.
- g) Whenever under the contract a sum of money is recoverable from and payable by the supplier, BCCL shall be entitled to recover such sum by appropriating, in part or whole by deducting any sum or which at any time thereafter may be due to the successful tenderer in this or any other contract with Bharat Coking Coal Ltd. or any subsidiary of Coal India Ltd. Should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay BCCL on demand the remaining amount. The supplier shall not be entitled to any gain under this clause.

15.PRICE FALL CLAUSE:

- i) The prices charged for the stores supplied under the contract by the supplier shall in no event exceed the lowest price at which the supplier offer to sell the stores of identical description to any other organization from date of offer till completion of supply under the contract.
- ii) If at any time during the said period the supplier offers lower sale price of such stores to any other organization at a price lower than the price chargeable under this contract, the supplier shall forthwith notify such reduction or sale to the consignee concerned under intimation to CGM(MM), Bharat Coking Coal Limited, Commercial Block, Level -III, Koyla Bhawan, Koyla Nagar, Dhanbad and the price payable under the contract for the stores supplied after the date of coming into force of such reduction or sale, shall stand correspondingly reduced. The above stipulated will not, however apply to exports by the supplier.

A certificate to this effect shall be submitted by you alongwith the supply bill.

16.SUBMISSION OF BILL: Pre-receipted stamped original bill for 100% value in four copies along with delivery challan in original, Guarantee/ Warranty certificate, and other relevant documents as indicated elsewhere in the order should be submitted to the Paying Authority through Consignee only.

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17.PACKING: Consignment shall be supplied in suitable standard proper packing.

18.FORCE MAJEURE CLAUSE: If the execution of the supply order is delayed beyond the period stipulated in the supply order as a result of out-break of hostilities, declaration of an embargo / curfew or blockade or fire, flood, acts of nature or any other contingency beyond the supplier's control due to act of God then BCCL 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.

19.ISSUE OF ROAD PERMIT: Road Permit if required may be obtained directly from the Consignee under intimation to this office.

20.SERVICE CENTER:You shall cater to the services from your nearest service center at the following address to facilitate immediate service and maintenance

M/S United Machinery & Appliances, City Center, Durgapur.

Contact Person: Mr Prasenjit Dutta, Mobile no. 9734095115

21.AFTER MARKET SUPPORT:You shall have factory trained team of engineers to extend after market support .

22.SPARE PARTS AVAILABILITY:You shall make the spare parts available for the entire period of service life of the generator. A certificate to this effect shall be submitted by you along with the supply bill

23.INSTALATION AND COMMISSIONING:Installation and commissioning of the DG set shall be done by you at no extra cost. The site for installation shall be made readily available by our CGM(E&M) on receipt and acceptance of the materials at consignee's end.

Enclosure: Annexure-I- Detailed technical specifications and Technical Data.

EFT DETAILS FOR EFT PAYMENT

Yours faithfully,

(C R Samantray)

Chief Manager(MM)

For & on behalf of Bharat Coking Coal Ltd.

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INDENT AND BUDGET REFERENCE:

Indent reference	Budget Certification no. & dt., & FC No.& dt.
No Nil dated 19.08.2010 registered vide MMD regn no.0119/10-11 dated 29.10.10,approved by FDs of BCCL as communicated by Company secy vide diary no.6513 Dated 10/26.06.2010	BC NO.BCCL/C&B/CAPITAL/12-13/2/P&M/HQ/8/167/355 ebc Dated 28.12.2012 For Value: Rs 26,69,803.75,given by Chief Manager(F)Cost & Budget Dept,BCCL FC given by Chief Manager(F)Op vide e-FC No.151 dated 08.01.2013(HQ P&P) for Rs 26,69,803.75

COPY:M/S United Machinery & Appliances

12,Ganesh Chandra Avenue,Kolkatta-700013

COPY:

1.CGM(E&M), Koyla Bhawan

2. GM(F),MM , Koyla Bhawan.

3.CHIEF MANAGER(F)C&B/CM(F)OP, BCCL HQ, Dhanbad.

4.Depot Officer, Ekra Central Store

5.MM(Tech Cell), MM Div, Koyla Bhawan.

6.IEM: Justice Ashok Kumar Chakraborty (Retd),BB-69, Sector I Salt Lake, Kolkata – 700 064

7.GM(MM)CIL/CCL/SECL/ECL/NCL/WCL/MCL/NECL

8.MF/Office Copy

ANNEXURE-I(THREE PAGES)

SUPPLY ORDER NO. BCCL/ PUR/300062/DGSET/10-11/55//12-13/191

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TECHNICAL SPECIFICATION AND TECHNICAL DATA OF 320KVA DG SET

(A)TECHNICAL SPECIFICATION

1. KVA-320
2. Voltage- 415V, 3Phase-50Hz
3. DG set should be silent type, compact, fully integrated
4. It should have less noise level and emission with maximum efficiency at normal operating load.
5. It should be environmental friendly.
6. It should be designed to work at maximum efficiency even at part load to give lowest operating cost.
7. DG set should be self standing floor mounted. Engine and alternator should be on fabricated MS base frame.
8. It should have painting and powder coating processes to ensure uniform paint, quality and superior finish for a longer and more durable life even at outdoor applications.
9. Minimum 3mm gauge CRCA sheets should be provided for greater strength and longer life.
10. Specially designed lifting points on the base frame to assist in load sharing during lifting.
11. Specially manufactured gasket fitting to prevent sound leakage.
12. Provision of an emergency push button on the outside of the enclosure in adherence to the required security and safety measures.
13. Enclosure should have flush styling, fluid drain for lube oil & fuel and fuel filling point.
14. Engine:-
Four Stroke , Direct injection, water cooled, turbocharged, after cooled, six cylinder, diesel engine developing not less than 393 BHP, rated at 1500 RPM under NTP condition of BS:649 suitable for generating set application on AMF mode. The DG set shall be capable of 42% bulk loading and complete with the following standard accessories
 - a) Turbo charged water cooled diesel engine.
 - b) Engine prime mover rating –Suitable to operate 320KVA Alternator
 - c) Nominal Generating set Output - 320KVA
 - d) The rating should be conforming to ISO 3046/BS5514 for generating set application .10% overload capacity should be available over the rating as per above standard.
 - e) Engine operating with diesel fuel corresponding to Grade No.2Das per ASTM-D975/IS 1460;2005
 - f) Engine should have following attachments
 - i. Battery charging alternator
 - ii. Hydro Mechanical Governor/ Electronic governor
 - iii. Dual Spin Oil filter
 - iv. Residential Silencer
 - v. Lube oil filter
 - vi. Dry type air cleaner
 - vii. Recovery Bottle
 - viii. Shut off coil with safeties for LLOP/hwt
 - ix. Flywheel and flywheel housing
 - x. First fill of lube oil and coolant
 - xi. Coupling with guard.
 - xii. Corrosion Resistor
 - xiii. Radiator and Fan (Blower Type)

xiv. Fuel injection Pump
 xv. Lubrication Oil- Low pressure- Safety Cut out
 xvi. Water Temperature High- Safety Cut-out
 xvii. Starter Motor 24 V DC
 xviii. Starting Battery: The battery shall be flooded type lead-acid for high discharge application and shall have a capacity for four nos of consecutive start attempts on the engine.
 xix. Common Base frame for mounting of diesel generator set: Sturdy, fabricated, welded construction, channel iron base frame for mounting the above engine & alternator.
 xx. Residential Silencer and exhaust piping with necessary bends, flanges etc insulated with mineral wool and covered with aluminium cladding.
 xxi. Exhaust pipe end shall be provided with gravity flap to facilitate automatic opening of exhaust pipe during engine running.
 xxii. Suitable rain hood shall also be supplied.

15. Fuel Tank

Fuel tank for external mounting made out of 3mm thick M S Sheet square/rectangle cross section of capacity to run 10 hours shall be provided with following arrangements.

1. Calibrated fuel level gauge preferably glass, with cocks on both top & bottom for easy replacement.
2. Fuel Inlet for filling with locking arrangement in the top lid.
3. Fuel Outlet with valve arrangement.
4. Air Vent
5. Drain Plug
6. Fuel Supply and return hose (wire braided) near the engine with suitable isolating valves for connecting rigid MS fuel inlet/Outlet lines from/to external fuel oil tank with complete accessories for connection.
7. Necessary stand for mounting the fuel tank, proper stiffeners shall be provided with channel sections at the bottom of the tank and tested for leak.

16. ALTERNATOR

- a) Brushless type, self excited and self regulated giving an out-put of 320KVA, at 0.8 pf lag, 415 Volts, 3 Phase, 4 Wire, 50 Hz at 1500 RPM.
- b) It should be confirming to BS5000/IS4722
- c) voltage regulation - +/- 10%
- d) Frequency -50Hz
- e) Phase-3
- f) Power factor-0.8Lag
- g) KVA-320
- h) Voltage-415
- i) System-3 phase 4 wire
- j) Standard enclosure-IP23
- k) Insulation- class-H
- m) The alternator shall have cable box suitable for 2 Nos of 3 1/2 core 300 sq.mm PVCA cable.
- n) The alternator shall have brushless excitation and a screen protected drip proof IP-23 S Enclosure
- o) Winding: Vacuum Pressure impregnation
- p) Excitation: Brushless Compound Excitation System/ Brushless Self Excitation System

<p>q) Manufacturing: Shall conform to the following standards</p> <p>:IEC 34-1</p> <p>:NFC 51.111</p> <p>:VDE 0530</p> <p>:BS 5000</p> <p>:IEC 2-3</p> <p>:IS 4722</p> <p>Protection: IP 23 S</p> <p>r) Short Circuit Sustenance: Shall have high sustenance of short circuit current of 3 times full load current by means of compound excitation for 3 seconds.</p> <p>s) Epoxy Coating: All wound components shall be epoxy coated after impregnation.</p> <p>t) Routine Tests: Shall be conducted on machine at no extra cost.</p>
<p>17.CONTROL PANEL</p> <p>a) Enclosure of control panel should be 16 swg CRCA sheet and painted in same manner as enclosure of DG set.</p> <p>b) It should contain breaker for output voltage of 415V.</p> <p>c) It should contain following</p> <p>i) MCCB of suitable rating with overload and short circuit protection.</p> <p>ii) Keyswitch/Autostart Generator Set Controller</p> <p>iii) Indication meters for Voltage, current, frequency, oil pressure, KVA, KW, water temperature.</p> <p>iv) Busbar of suitable capacity with incoming and outgoing termination.</p> <p>v) Indication Lamp for LOAD ON and SELF STARTING.</p> <p>vi) Fuses</p>

(B) TECHNICAL DATA	
1. Make of Engine	GREAVES
2. Make of Alternator	CROMPTON GREAVES
3. Make of Control Panel	UNITED
4. Model	TBD2V12-IIP
5. Prime Mover rating in KVA.	320KVA
6. Current in Ampere	445
7. No of Phases	3
8. Power Factor	0.9
9. BHP	256
10. Cooling	LIQUID COOLED FITTED WITH RADIATOR
11. Aspiration	TURBO CHARGED AFTER COOLED
12. No of Cylinders	12
13. RPM	1500
14. Fuel	AS PER IS 1460: 2005
15. Fuel Consumption (lt/hr) @ 75% of load unit radiator and fan	51 L/hr @ 75% of load
16. Governor	ELECTRONIC BACKED UP BY MECHANICAL AS PER ISO 8528-5-G2
17. Starting System	24V ESE
18. Lub Oil Specification	AS PER GREAVES MAXTHERM EQUIVALENT TO API CF-4
19. Lub Oil Sump Capacity (LPH)	41L AND LUB OIL CONSUMPTION:0.20L/hr
20. Total Coolant Capacity	85 L
21. Battery Capacity/Rating	24V

BANK DETAILS PROVIDED ALONGWITH THE OFFER FOR EFT

1	VENDOR/SUPPLIER/CONTRACTOR/CUSTOMER'S NAME & ADDRESS: (With Telephone No. & Fax No.)	<u>SASHI COMMERCIAL CO.</u> GT Road, Punjabi More, PO Searsole Rajbari- 713358, Raniganj. Dist: Burdwan (WB) Ph/FAX: 0341-2444169
2	PARTICULAR OF BANK ACCOUNT:	
	BANK NAME:	Union Bank of India
	BRANCH NAME: (Including RTGS Code)	Ezra Street Branch RTGS: UBIN0530158
	ADDRESS:	55, Ezra Street, 1st Floor, Kolkata – 700001
	9-DIGIT CODE NUMBER OF THE BANK & BRANCH (Appearing on MICR Cheque issued on the Bank) or 5-DIGIT Code Number of SBI	700026002
	ACCOUNT TYPE: (S.B. Account/Current Account or Cash Credit with Code 10/11/13) LEDGER NO./LEDGER FOLIO NUMBER: ACCOUNT NUMBER (CORE BANKING) & STYLE OF ACCOUNT (As appearing on the Cheque Book)	CURRENT A/c No : 301501010039330