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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)

SUPPLY ORDER NO. BCCL/PUR/560242/500KVA DGSET/ETENDER/08-09/114/302

dtd 18.03.2014

To,
M/S SHARDA DIESELS PVT. LTD,
22/23P, TATISILWAI INDUSTRIAL AREA,
PHASE-II, TATISILWAI, RANCHI-835103

BY FAX
PCC:BY REGD POST
(Vendor Code: 1/22/D/T/267)

SUB: SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 500 KVA CAPACITY DG SET

REF: :

- i) Our E tender no. BCCL/PUR/560242/500KVA DGSET/ETENDER/08-09/114 dtd 07.01.11, Cover-I opened on 23.02.11 and Cover-II opened on 28.09.12 for Supply, Installation, Testing & Commissioning of 500 KVA Capacity DG Set
- ii) Your offer no. SDPL/10-11/BCCL dated 21.02.11 and subsequent correspondence.
- iii) Letter no. M&M/EAB/R/10-11/20 Dated 21.02.11 of M/S Mahindra & Mahindra Ltd, Ranchi
- iv) our letter no. BCCL/PUR/560242/500KVA DGSET/ETENDER/08-09/114/4022 dt-18/19.03.2011
- v) Your letter no. SDPL/11-12/BCCL dated 11.04.11
- vi) our letter no. BCCL/PUR/560242/500KVA DGSET/ETENDER/08-09/114/552 dt-28/29.04.2011
- vii) Your letter no. SDPL/11-12/BCCL dated 06.05.11
- viii) our letter no. BCCL/PUR/560242/500KVA DGSET/ETENDER/08-09/393 dt-07.06.2011
- ix) Your letter no. SDPL/11-12/BCCL dated 27.09.11
- x) our letter no. BCCL/PUR/560242/500KVA DGSET/ETENDER//114(08-09)/12-13/2508 dt-27.09.2012 for price bid opening
- xi) Your letter no. Nil extending the validity of offer upto 31.03.14

Dear Sirs,

With reference to the above, we are pleased to place an order on you for Supply, Installation Testing & Commissioning of 500 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 as per the terms and conditions given hereunder alongwith general terms and conditions of NIT.

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Sl. No.	Material Code	ITEM DESCRIPTION	QTY(NO)	UNIT RATE(RS)	EXTENDED VALUE(RS)
1	28704000002	DG SET 500KVA 415V 50HZ Silent Type ,self standing floor mounted ,compact ,fully integrated weather proof acoustic enclosures easier serviceable and maintenance ,lesser noise levels. Mahindra DG set with Greaves make engine and Mahindra Powerol DG set (co branded Mahindra Greaves) Detailed technical specifications and Technical literature with technical Data as per Annexure-I (four pages)Enclosed.	1(ONE)	29,25,000.00	29,25,000.00
		ED including Cess @10.3% as per offer			3,01,275.00
					32,26,275.00
		JVAT @4% as per offer			1,29,051.00
		FREIGHT			35,000.00
		INSURANCE			7,312.50
		FOR DESTINATION VALUE			33,97,638.50

1.TOTAL ORDER VALUE:RUPEES THIRTY THREE LAKHS NINTY SEVEN THOUSAND SIX HUNDRED THIRTY EIGHT AND PAISE FIFTY ONLY.

2.PRICES: The above prices are on FOR destination basis.However, Freight & Insurance Charges shall be payable extra at actuals against documentary evidence to a maximum ceiling as indicated above for FOR Destination supply .

3.EXCISE DUTY:Shall be payable extra at actuals against documentary evidence as legally applicable at the time of delivery during the stipulated delivery period of the contract.BCCL may avail CENVAT credit,if applicable ,as per provisions of CENVAT.

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4.SALES TAX: JVAT shall be payable extra, as legally applicable at the time of delivery within the stipulated delivery period. The offered applicable rate of JVAT is @4%.

5.DELIVERY PERIOD: to complete the supply within NINE months, which shall be reckoned from the 10th day from the date of issue of the order. However, you may improve upon the delivery.

6.PAYMENT TERMS: 80% payment towards supply of equipment with accessories along with 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 within 30 days after successful completion of erection, testing and commissioning and final acceptance of the equipment. The site for installation shall be made readily available by GM(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 to the paying authority.

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

7 A.ALLOCATION: Central Hospital, Jagjivan 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.

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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 3,49,317.00 (Rupees Three Lakhs forty nine Thousand Three hundred and seventeen 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 along with the tender shall be returned on submission of Security deposit. The BG format for security deposit shall be as was provided along with 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 3,49,317.00 (Rupees Three Lakhs forty nine Thousand Three hundred and seventeen 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 along with 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.
- 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.

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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.

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

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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.

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.

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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 Friends Power, Ashadeep Building, Ground Floor, Vikash Nagar Road, Road no.4, Matkuria, Dhanbad.

Contact Person: Mr Khurshid Ahmed, Contact no. 9470119735, 0326-2301258


21.AFTER MARKET SUPPORT: You shall have factory trained team of engineers to extend after market support from your Tatisilwai works, Ranchi. .

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.INSTALLATION 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 GM(E&M)/C on receipt and acceptance of the materials at consignee's end.

Enclosure: 1. Annexure-I- Detailed technical specifications and Technical literature with technical Data.

2. EFT DETAILS FOR EFT PAYMENT


(Nadeem Khan)
MT(MM)

Yours faithfully,


(C R Samantray)
Chief Manager(MM)

For & on behalf of Bharat Coking Coal Ltd.

INDENT AND BUDGET REFERENCE:

Indent reference	Budget Certification no. & dt., & FC No. & dt.
No Nil dated 18.05.2007 registered vide MMD regn no. 560242/ 07-08 dated 04.02.2008, approved by CMD, BCCL .	BCNO.BCCL/C&B/CAP/REGPN36/SN-297/e bc no.047(CAP 13-14)/Head P&M/Unit code(system)-GM(MM)Hq CHD Dated 17.02.14 For Value: Rs 34,93,169/-, given by Dy GM(F)Cost & Budget Dept, BCCL FC given by Dy GM(F)Cost & Budget Dept, BCCL vide e-FC No.08 dated 05.03.2014 for Rs 34,93,169/-

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COPY: M/S Mahindra & Mahindra Ltd, Farm Equipment Sector, C-50, Road No.1, Ashok Nagar, Ranchi-834002

COPY:

1. GM(E&M)I/C, Koyla Bhawan

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

3. DY GM(F)C&B, BCCL HQ, Dhanbad.

4. Depot Officer, Ekra Central Store


5. CMS, BCCL HQ, Dhanbad

✓ 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


MT(MM)


Chief Manager(MM)

TECHNICAL SPECIFICATION

This specification covers the requirement for 3 phase Diesel Generator, 500KVA, 415V, 50HZ Silent Type, self standing floor mounted, compact, fully integrated weather proof acoustic enclosures easier serviceable and maintenance, lesser noise levels. AC power supply system of the following specification.

Painting and powder coating processes to ensure uniform paint quality and superior finish for a longer and more durable life even at outdoor application, Minimum 2mm gauge CRCA sheets should be provided for greater strength and longer self life. Specially manufactured gasket fitting to prevent sound leakage. Specially designed lifting points on the base frame to assist in load sharing during lifting. Provision an emergency push button on the outside of the enclosure in adherence to the required security and safety measures.

Engine:-

Turbo charged after cooled diesel engine.

Engine prime power rating – Suitable to operate 500KVA Alternator

Normal Generating set electrical

Output - 500KVA

Specific Fuel Consumption at rated load- (As per BS-5514) as indicated under detailed technical specification attached

Typical average specific oil consumption at rated load : as indicated under detailed technical specification attached

The rating should confirm to ISO 3046/BS5514 for generating set

Application 10% overload capacity should be available over the rating as per a above standard.

Engine operating with fuel system, Water pump lubricating oil pump, air cleaner.

Exhaust silencer, battering charger alternator

Engine operating with diesel fuel corresponding to Grade No.2 Das per ASTM-

D975/IS 1460;2005

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ANNEXURE-I

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ALTERNATOR

Voltage regulation	- (+)/(-) 10%
Phase frequency	3.50Hz
Power factor	0.8Lag
KVA/KW	500/400
Voltage	415
System	3 phased 4 wire system
Insulation	class-H
Standard enclosure	IP23

Crompton Greaves make 500 KVA/400 KW, Brushless, Synchronous, A.C. Generator continuously rated 415 Volts, 3 Phase, 4 Wire system, 50HZ, 0.8 Power factor (lagging) at 1500 R.P.M, 4 Pole, screen protected, Drip proof, Horizontal foot-mounted type, single bearing, self-excited, self regulated with static excitation system, Class 'H' insulation. The Alternator is capable of developing rated output & able to take 10% overload for one hour at every 12 hours of operation. The Alternator shall conform to IS:13346(Part 2), IS 4722, BS:5000(Part 99), IEC 34 and will be suitable for Tropical condition.

CONTROL PANEL: Details of control panel as detailed under :

Manual Control Panel

Outdoor type, totally enclosed, floor mounted, dust & vermin proof Control Panel fabricated from 14/16 gauge CRCA steel sheet body, duly painted with high quality powder coated paint, with incoming & outgoing cable connection of suitable size from bottom and end termination with cable glands & lugs, complete with the following:

- 800 Amps, 415 volt 4 Pole MCCB with overload, under & short circuit protection.
- Aluminium Bus bars of adequate size and suitable rating on DMC insulation support.
- The Panel shall be fitted with full safety system and complete with Procom make digital multifunctional unit indicating voltage, current, frequency, Power factor, KVA, KW, KWh, RPM battery voltage, water temperature, Lube oil Pressure, Fuel level measurement, Service Hour due, button selector switch, CTS of suitable rating.
- Indicating lamps, load "ON" Set running.
- LED Phase indicating lamps with toggle switches & MCB.
- The Control Panel shall be complete with internal wiring of suitable rating.

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ANNEXURE-I

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However the control panel should contain breaker for output voltage of 415V with ammeter, Voltmeter, Selector switch ,frequency meter, KWmeter. KWH meter and necessary safety feature with all indicators.

ACOUSTIC ENCLOSURE

The Engine Alternator Set would be placed inside an Acoustic Enclosure. The acoustic enclosure shall be fabricated from 14/16 Gauge CRCA sheet and the design is certified by ARAI, Pune, an accredited body of CPCB and Type Certificate concerning noise pollution shall be provided.

The sound level at 1 meter distance from the enclosure surface ,under free field condition would be less than 75 db.

The fuel tank and the Control Panel may be placed outside the canopy.

Attenuators are placed in the hot air outlet and cooling air inlet. Residential type Exhaust Silencer is mounted on the enclosure. All joints are sealed with fireproof Neoprene gaskets, to withstand high temperature and pressures. All high temperature exposed surfaces are insulated by glass wool with Aluminium cladding. The enclosure is painted with weatherproof, acidproof, heat-resistant Powder coating after pretreatment for degreasing, de-rusting, pickling, phosphating and passivity for durability inside the Canopy.

Emergency Push button shall also be provided on the outside of the enclosure for exigency. The insulating material used shall conform to IS/CPCB Specification.

Base Frame

The Diesel Engine and the Alternator will be mounted on a suitable base frame of sturdy design made of Steel channel all welded and stress relieved.

Other Items

Fuel Tank of adequate capacity with provision for supply and return lines.
First fill of Lube Oil.

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ANNEXURE-I

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Technical Specifications

Mahindra Higher kVA Range (250kVA to 500kVA)

Mahindra Higher kVA Range				
Genset				
	250kVA	320kVA	400kVA	500kVA
Prime Power Rating kVA/kW	250/200	320/256	400/320	500/400
Voltage, Volts	415 (3 Phase)			
Frequency, Hz	50			
Power factor	0.8			
Canopy				
Length, mm	4000	4750	5600	5600
Width, mm	1800	2000	2000	2000
Height, mm	2150	2200	2200	2200
Dry weight Genset (approx), kg	3700	5175	6200	6500
Fuel Tank Capacity in Liters	400	480	990	990
Engine Specifications - Mahindra Higher kVA Range				
Engine Model	TBD3V6 MK-II	TBD3V8 MK-II	TBD3V12 MK-I	TBD4V12
Rated Output HP (kW)	313(230.2)	396(291.3)	484(356)	604(444)
Aspiration	TCI			
Cooling System	Water Cooled			
Starting System	24 DC			
Battery Capacity in AH	120	120	180	180
No. of Cylinder	6	8	12	12
Bore x Stroke mm	126x130	126x130	126x130	126x140
Displacement Liters	10.5	13.4	20.07	21.65
Compression Ratio	14.6	14.6	14.6	16
Fuel	IS-1460 2005, Caloric value 10200kcal/kg, Density 0.835gm/cc			
Fuel Consumption, litres/hour @ 75% load	41.8	52.9	66.5	79.8
Lube Oil Sump Capacity in Liters	25	30	50	50
Total Coolant Capacity in Liters	48	60	67	84
Alternator Specifications				
Alternator efficiency at 75% load	93	94	93.9	94.8
Type	Brushless	Brushless	Brushless	Brushless
Voltage	415	415	415	415
Rpm/Frequency, Hz	1500 / 50	1500 / 50	1500 / 50	1500 / 50

SFC (gms/bhp/hr) of 500 KVA at rated load (as per BS5514) - 146.4 @ 100% load

Typical average specific oil consumption of 500 KVA at rated load - 0.14gm/kw-hr

Engine Make of 500 KVA-Greaves

Owner's manual with Details of the equipment along with all the features associated with construction & maintenance of the equipments will be provided by you during the supply ,along with DG set.

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BANK DETAILS PROVIDED ALONGWITH THE OFFER FOR EFT

1	VENDOR/SUPPLIER/CONTRACTOR/CUSTOMER'S NAME & ADDRESS: (With Telephone No. & Fax No.)	M/S Sharda Diesels Pvt. Ltd, 22/23P, Tatisilwai Industrial Area, Phase-II, Tatisilwai, Ranchi-835103 Ph/FAX: 0651-2283546
2	PARTICULAR OF BANK ACCOUNT:	
	BANK NAME:	Indian Overseas Bank
	BRANCH NAME: (Including RTGS Code)	Purulia Road Branch RTGS: IOB A 0001508
	ADDRESS:	Purulia Road, Ranchi-834001
	9-DIGIT CODE NUMBER OF THE BANK & BRANCH (Appearing on MICR Cheque issued on the Bank) or 5-DIGIT Code Number of SBI	834020005
	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)	CASH CREDIT A/c No : 150802000002223

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