



WESTERN COALFIELDS LIMITED

MATERIALS MANAGEMENT WING

COAL ESTATE, CIVIL LINES, NAGPUR-440001

CIN : U10100MH1975GO1018626

Phone : (0712) 2510501, 2510691 [EPBAX, Extn :5587] Fax : 0712 - 25 10284

Website : www.westerncoal.gov.in

Supply Order Reference No. 11000120818055

Regd.Post /AD

Dt.26.07.2018

To
M/s MECHANICAL MACHINERY MAKERS PVT. LTD.
19/1B KEYATALA ROAD,
KOLKATA-700029

Vendor Code :129006
FAX NO: 03371011901
Email: asim@mechanicalmachinery.com

Sub: Supply order for Main Mine Ventilation fan with discharge 90-110cum/sec operating pressure range 70-90 MM WG complete with all electrical 3.3 KV & 150 KW Motor & Starters etc.

- Ref: 1. Our e-tender no: WCL-hq-pur-kdp-e081-2017-18 opened on 27.11.2017 (Tender ID : 2017_WCL_82985_1)
2. Your offer Dt. 22.11.2017 (Bid id : 243974) and further correspondence through portal
3. Your Price justification letter no. MMM/WCL-081/MMV/132/PJ/29 Dt. 30.05.2018
4. Your Validity Extension letter NO. MMM/WCL-081/MMV/132/VE/30 Dt. 05.06.2018

Dear Sir,

With reference to above, we are pleased to place a firm order on you for supply of following Main Mine Ventilation fan at the rates and specifications and the terms and conditions stipulated hereunder;

1. DESCRIPTION OF STORES AND PRICES:

SN	Item Description	Qty (Nos)	All fig in Rs.	
			Basic rate	Extended Value
1	Main Mine Ventilation fan with discharge 90-110cum/sec Operating pressure range 70-90 MM WG complete with all electrical 3.3 KV & 150 KW Motor & Starters etc. Make: MMM, Model: AF-80	1	2619286	2619286.00
Freight Charges				78578.58
Insurance charges				2697.86
GST Extra @18% on Basic + Freight + Insurance				486101.24
Total				3186663.68
Pre dispatch inspection charges @1% on (Basic+Freight+Insurance +GST)				31866.64
Total cost				3218530.32

(Detailed technical specifications enclosed as Annexure 'A')

Note: Foundation drawing of the fan and Drive 2 sets (to be submitted after receipt of the supply order, Well before the supply of the fan).

Total Value : Total Procurement value: Rs. 32,18,530.32 (Rs. Thirty two lakhs Eighteen thousand Five hundred Thirty and Thirty two Paise)

2. BASIC PRICE: The above prices are on FOR Destination basis and shall remain firm till the complete execution of order. However Freight & insurance are payable extra as indicated above. The safe arrival of the consignment upto the destination stores shall be the responsibility of the vendor.

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3. **GST:** GST Shall be payable extra as legally applicable. The current applicable rate of GST is @ 18%. Input tax credit on GST shall be availed by WCL as per GST rule. You shall upload the tax invoices/debit note/Credit note in GST portal, make payment of GST & file necessary returns under GST in time, to facilitate WCL to avail Input Tax Credit (ITC) under GST. In case of any failure on your account, the penalty including interest (if any) borne by WCL shall be recovered from you. You will pass on the additional Input Tax Credit Duty on implementation of GST to Western Coalfields Limited which you will receive in future, if any.

4. **DELIVERY:** The ordered quantity should be supplied within 6 months from the date of supply order. The delivery period shall be reckoned from 7th (Seventh) day of order date.

5. **Inspection:**

A. **Pre-Despatch Inspection :** Pre dispatch inspection shall be carried out by M/s. CMPDIL, Ranchi at your works. The inspection fee @ 1 of the FOR destination price (Basic+Insurance+Freight+GST)+GST @18% shall be initially paid by the bidder to CMPDIL, which shall be reimbursed to the bidder along with the payment against documentary evidence.

You are eligible for Input Tax Credit on GST charged by the inspecting authority for Pre-dispatch inspection charges. Therefore, you should not charge the same when supplies are made. The rate applicable to the goods will be applicable to the inspection charges as this would be covered under the composite supply. GST on Pre dispatch inspection charges shall not be claimed by you vis-à-vis will not be reimbursed by WCL. You have to give a notice of 15 days in advance to CMPDIL, that the goods are ready for inspection complete in all respects and shall provide for every facility to the inspecting officer to carry out inspection.

Mode of payment – In the event the inspection agency is CMPDIL, then the payment of pre-despatch inspection fee shall be made through state bank collect in the hyperlink created on CMPDI website i.e. www.cmpdi.co.in. The e-receipt of the payment made towards pre-despatch inspection fee shall be submitted along with the invoice in order to claim the reimbursement of the same from WCL.

B. Final inspection shall be arranged by the consignee at destination stores. If there is any defect found in the materials supplied, you will arrange the replacement of the same free of cost.

6. **PAYMENT TERMS:**

I. 80% of the invoice value (landed value of the equipment including taxes and duties and excluding installation and commissioning charges if any) shall be made within 21 days after receipt and acceptance of material at the consignee stores and against submission of confirmed security deposit and acceptance of the same by WCL.

II. Payment for balance 20% of the Invoice value value (landed value of the equipment including taxes and duties) shall be made within 21 days after successful installation & commissioning of the equipment by WCL at the allocated locations (technical assistance for installation and commissioning to be provided to WCL if required) and against submission of confirmed Performance Bank Guarantee and acceptance of the same by WCL. However, if the equipment is not put to use by the area/project user within 120 days from the date of receipt and acceptance at consignee's end, the balance 20% shall be released.

7. **PAYING AUTHORITY:** GENERAL MANAGER (FIN)/c-I, WCL, HQRS

Bank details of the firm for making of EFT Payment (as per the offer)

Name of the Bank : INDIAN OVERSEAS BANK, BALLYGUNGE PARK ROAD BRANCH

Account no: 047702000001474

Nature of Account : Cash Credit

IFS Code : IOBA0000477

8. **SUBMISSION OF BILLS:**

For claiming payment, following documents are to be submitted along with original bills as per terms of the supply order to the consignee.

- Pre-receipted and stamped Invoice (as per GST laws).
- Packing list in original list giving details of bill of materials, if applicable. (Invoice should be strictly as per GST laws 2017)
- E-Way Bill as per Government notification
- Consignment note / RR/ LR in original, if applicable.
- Warranty / Guarantee certificate, if applicable.

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- Manufacturers test certificate, as per technical specifications.
- DGMS / BIS / Pre dispatch inspection certificates / any other document, if required as per the contract.
- Performance Bank Guarantee
- Any other document as per supply order and technical specifications, if any.

9. "e-way bill: In the event the delivery of goods by supplier is on 'FOR' Destination basis, the movement of the goods is to be initiated by the supplier and the supplier is liable to issue e-way Bill."

10. CONSIGNEE : Depot Officer, Regional stores (Pench Area) WCL,
Western Coalfields Ltd. P.O. Chandameta – 480447
Distt. Chhindwara, M.P.
GST No. 23AAACW1578L1Z4

11. GUARANTEE / WARRANTY: You shall be fully responsible for the manufacturer's warranty in respect of proper design, quality, workmanship of the materials and their proper fitment on the equipment for which these are intended for. Material shall be guaranteed /warranted for a period of 18 months from the date of receipt and acceptance of materials at ultimate destination or 12 months from the date of fitment / monitoring on the equipment /use, whichever is earlier. If it becomes necessary for the supplier to replace or renew any defective portion of the goods, such replacement or renewal should be made by you without any extra cost to Western Coalfields Limited.

12. LIQUIDATED DAMAGES cum Risk purchase clause:

In the event of failure to deliver the stores within the stipulated date / period in accordance with the samples and / or specifications mentioned in the supply order and in the event of breach of any of the terms and conditions mentioned in the supply order, WCL should have the right : -

- To recover from successful tenderer, as agreed liquidated damages, a sum not less than 0.5% of the price of the store 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 %. Wherever felt necessary the limit of 10% can be increased to 15% at the discretion of Head of Materials Management Division.
- To purchase from elsewhere, after due notice to the successful tenderer, on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without canceling the supply order in respect of consignment not yet due for supply or
- 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
- To extend the delivery period with or without imposition of Liquidated Damages as may be considered fit and proper. The penalty if imposed shall not be more than the agreed liquidated damages referred to clause (a) above.
- To forfeit security deposit in full or part.
- Whenever under the contract a sum of money is recoverable from and payable by the supplier, Western Coalfields 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, with Western Coalfields Limited. Should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay to Western Coalfields Limited, on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.

13. Force Majure: If the execution of the contract/supply order is delayed beyond the period stipulated in the contract/supply order as a result of outbreak of hostilities, declaration of an embargo or blockade, or fire, flood, acts of nature or any other contingency beyond the supplier's control due to act of God then Coal India Limited or its subsidiary companies any allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by the Coal India Limited and its subsidiary companies, the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended.

- The successful bidder will advise, in the event of his having to resort to this clause, by a registered letter duly certified by the local chamber of commerce or statutory authorities, the beginning and end of the causes of the delay, within fifteen days of the occurrence and cession of such force majeure conditions. In

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the event of delay lasting out of force majeure, WCL will reserve the right to cancel the contract, and provisions governing termination of contract as stated in the bid documents will apply.

- b) For delay arising out of Force majeure, the bidder will not claim the extension in completion date for a period exceeding the period of delay attributable to the causes of force majeure and neither WCL nor the bidder shall be liable to pay extra cost provided it is mutually established that the force majeure conditions did actually exist.
- c) If any of the force majeure conditions exist in the place of operation of bidder even in the time of submission of bid, he will categorically specify them in his bid, and state whether they have been taken in to consideration in their quotation.

14. **Mode of dispatch:** The materials should be dispatched by Road transport upto the destination stores on freight paid basis. The responsibility of safe arrival of the materials at destination stores will lie on you.

15. **Price Certificate:** A Price Certificate shall be submitted by the supplier along with their Invoice as under: "Certified that we have not offered the same products at a price lower than that offered in the present bill in respect of any other ministry/ department of the Govt. of India or a PSU. In case we offer the lower prices within the validity of this offer to ministry/department of the Govt. of India or a PSU, we undertake to notify such reduction to the buyer and the same will also be applicable against this order."

16. **SECURITY DEPOSIT :** You have to furnish the security deposit amount in the form of Demand Draft or Bank Guarantee of any scheduled bank for 10% (ten percent) value i.e., **Rs. 321853/-** of the awarded contract within 15 days' time from the date of supply order.

Format of Bank Guarantee is enclosed at Annexure-C. Security Money may be converted into performance bank guarantee (PBG). However, the amount of PBG should not be less than 10% (ten percent) of the landed value of the order.

Bank Guarantee shall be in proper format as well as in SFMS mode as indicated in PBG clause.

Security deposit money will be refunded to the firm within 30 days from the date of satisfactory execution of the contract. For unsatisfactory performance and / or contractual failure, the security money shall be forfeited.

17. **Performance Bank Guarantee:** You have to furnish a Performance Bank Guarantee as per the format at Annexure – 'C', for satisfactory operation and performance valid for 18 months from the date of supply of material, equivalent to 10% value of the contract including taxes and duties etc. to the FOR destination price of the equipment on order, covering the warranty period order i.e., for **Rs. 321853/- (Rs. Three Lakhs Twenty one thousand Eight hundred and fifty three only)**. The Bank Guarantee shall be released after successful completion of the guarantee/warranty period after confirmation from GM(E&M)HOD, WCL(HQ)s. Any short fall of performance availability, deduction shall be made as per technical specification. No Payment shall be made without submission of Performance Bank Guarantee.

NOTE:- The Bank Guarantee issued by the issuing Bank on your behalf in favour of Western Coalfields Limited shall be in paper form as well as issued under Structured Financial System (SFMS) mode. The beneficiary Bank Details are as under:

Name of beneficiary and details	
Name	Western Coalfields Ltd
Area	Head Quarter
Name of Bank	ICICI Bank
Bank Account No.	005905018053
Customer ID of Beneficiary	556096497
Department	Purchase
Bank A/c No: / Cust ID of beneficiary	ICICI Bank Ltd, Vishnu Vaibhav, 222, Palm Road, Civil Lines, Nagpur
IFSC code	ICIC0000059
Bank Manager Name & Ph no:	Hrushikesh Sakalkale Ph n: +91-9923202096
BG Advising Message- 760COV/767COV via SFMS	
Field Number	Particulars
7035	ICIC0000059
7037	WCL556096497

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The original bank guarantee issued by the issuing bank shall be sent by the issuing bank to the following address by Registered post /AD.

General Manager (MM) I/c
Materials Management Wing
Western coalfields Ltd HQ
Coal Estate, Civil lines
Nagpur – 440001
Maharashtra


Any extension / amendments to the BG shall be done following the same procedure as above.

18. Unless & otherwise specified above, the order shall be governed by General Terms and conditions for supply of material, enclosed as Annexure 'B'.

19. **Jurisdiction of Court:** Any dispute arising out of this contract shall be under the jurisdiction of Nagpur court only and as per the "law of the land".

Please acknowledge the receipt of this order within 15 days from date of receipt of this order and return the second copy of this order duly signed & stamped with seal of your company as a token of acceptance otherwise it will be presumed that you have accepted the order for execution as per terms and conditions stipulated above.

Yours faithfully,


(Alok Kumar)
Deputy Manager (MM)


(K.S.R.Divakar)
Chief Manager (MM)

- Encl: 1. Technical Specifications (Annexure A)
2. General Terms and conditions for supply of materials. (Annexure B)
3. Format of Bank Guarantee (Annexure 'C')


BUDGET CERTIFICATION DETAILS:


Name of Area	Budget Diary No.	Amount in Rs.
Pench (Jamunia Project)	WCL/FA/WCL/CAP/BC/017/148 DT. 20.7.2018	32,18,531.00

Copy to:

1. AGM / GM , WCL Pench Areas
2. GM (E&M) / GM(Fin)-I/ GM(Fin)-II,GM(P&P) WCL, HQRS
3. CM(Fin)FC, WCL Hqrs BC Ref,
4. SO(MM)/SO(E&M), WCL Pench Areas
5. Depot Officer, Regional stores Pench Area WCL,
6. GM(E&M), CMPDIL, Gondwana Place, Kanke Road, Ranchi -834008 with a request to inspect the items as per Predispatch Inspection clause.
7. GM(MM), CIL, SECL, MCL, CCL, NCL, ECL, BCCL
8. Sr. Manager(MM/Admn.), WCL(HQ), Nagpur – The total value of the order is Rs. **32,18,530.32**

This is issued with the approval of competent authority.


(Alok Kumar)
Deputy Manager (MM)


(K.S.R.Divakar)
Chief Manager (MM)

TECHNICAL SPECIFICATIONS (ANNEXURE A)

Mine ventilation fan with electricals for use in underground coal mines – 90-110 Cu M/sec discharge capacity	
A. Make of mine ventilation of fan	MAKE:-MMM
1-Make of motor:	MAKE:-MARATHON OR EQUIVALENT
2-Motor K.W. Rating:	150KW
3-Frame size of motor	FRAME SIZE:-DC280F710
4- Motor RPM on full load	RPM:-1488
5-Make of starter	SAIT MINE LINE OR EQUIVALENT
6-Make of contactors [Acceptable makes : : Government/Government approved test house tested make.	SAIT MINE LINE , MODEL NO.-SAVAC-4
7-K.W. Rating of starter	150KW
8- Rating of Busbar of starter	Rating:-300
9-Type of Starter	STAR-DELTA
10-Model of the Fan	AF-80
11-Speed of the fan in RPM	SPEED:-925
12-Number of blades	10 NOS.
13-Capacity of the fan when run in the reverse direction:	40% OF THE ORIGINAL DISCHARGE
14-Diameter of the main shaft:	Maximum Dia-116mm
15-Size and number of bearings:	No. of Bearing-2 size of Bearing:-22322cc/w33
16-Range of angle adjustment	12.5 Deg. to 30Deg.
17-The size and number of V-belts	Size of Belt:-C-260 No. of V-Belts:-10Nos.
Technical Specifications	
B-OPERATING RANGE OF THE FAN(APPROX):	
1-Discharge Range Cu.M /Sec : 90-110 M ³ /Sec.	
2-Pressure Range (mm W.G.): 70-90mm W.G.	
C-DUTY PARAMETER OF THE FAN :	
1- Discharge in Cu.M/Sec at duty pressure : 100 M ³ /Sec.	
2- Duty pressure in mm W.G. : 80mm W.G.	
3-Efficiency of fan at duty point not less than 75%	
D-SCOPE OF SUPPLY	
COMPLETE FAN (1 Set) CONSISTING OF	
1- Rotor assembly	
2- Casing	
3- Guide vanes	
4- Diffuser	
5- Collector	
6-V-belt drive, with fan pulley and drive pulley:1set	
7-V-belts of matched length : 1set	
8-Bed plate with slide rails for motor : 1set	
9-Electric motor : 1no	
10-Motor starter : 1no	
11-Any other item not indicated above but required for completeness of the equipment is /are included in the scope of supply	
12-Supervision for erection and commissioning	
13-DESIGN CONSIDERATION: The Ventilation fan being a life time installation for a mine, the same must be suitably designed for uninterrupted operation 365 days for more than 20 years	
E-ENVIRONMENTAL CONDITIONS	
1-Maximum ambient temperature; 48 deg C	
2-Minimum ambient temperature: 5 Deg. Cent.	
3-Maximum humidity: 98.00%	
4-Altitude(from MSL): within 1000M	
5-Atmosphere: Dusty(coal dust)	
6-Wind pressure : 10 to 100 kgf/ M ²	
F-DESIGN & CONSTRUCTIONAL DETAILS OF THE FAN:	
1-Type of fan: Axial flow type	

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2-No. Of stages: Single stage
3-Fan shall be suitable for running in reverse direction whenever required
G-ROTOR ASSEMBLY
1-The impeller hub shall be provided with suitable number of Aero-foil section fan blades
2-Provision for change of blade angle: Suitable provision shall be made for easy change of blade angle. Dowel hole with angle indication shall be marked on the fan hub.
3-Material of the main shaft.: Forged steel not lower than class-IV of IS:1875 2-The forging shall be tested ultrasonically.
H-BEARINGS
1- Type of the bearings: Heavy duty double row spherical roller bearings
2-working life of bearing to be considered for selection: Not less than 20000 Hours
3-Bearing housing : with four securing bolts
4-Lubrication: Arrangement for forced/ gravity grease lubrication from outside the fan casing shall be provided
I-CASING- 1- Shall be fabricated from heavy gauge M.S. Sheet with bolted joints
2-Thickness of the M.S. Sheet used for casing fabrication: 8.0 mm (Mini.)
3-The fan shall be provided with suitably designed Guide vanes, diffuser and collector
J-TRANSMISSION
1-Type of transmission: through V-belt drive
2-Drive pulley shall be mounted on motor shaft
3- No. of Bearings – 2 Size of bearings – 22322cc/w33
4-Diameter of Pulley: Drive Pulley: OD – 330mm Driven Pulley : OD – 533mm
K-MOTOR
1-Type of motor: Sq. cage induction motor
2-Operating voltage: 3.3 KV,3Ph,50Hz
3-Motor RPM(Syn) 1500
4-Class of duty: Continuous S-1 as per IS:325-1996
5-Class of insulation: Class F with temperature rise not exceeding class B limit.
6-Type of starting : Star-Delta
7-Type of enclosure: TEFC,NFLP
8-Degree of Protection: IP-55 as per IS:325-1996
9- Type of construction and mounting of Motor.: IMB 3 of IS:2253-1974 Horizontal foot mounted
10-Cable entry: Suitable for PVC/DWA mining cable of required size.
11-Standard Specification: IS:325-1996
L-MOTOR STARTER
1-Type of starter: Star-Delta
2-Voltage system: 3.3 KV,3Ph,50Hz
3- KW Rating: Suitable for Motor specified to be used : 150KW
4-Type of construction: Multi cubical (in two compartment)
5-Upper compartment shall house through going bus bar and off load isolator
6- Rating of isolator: 400A
7-Lower compartment shall house contactors and protective devices
8- In case of auto-transformer-starter, the auto-transformer shall be accommodated in second compartment and shall be accessible from rear side of the enclosure for maintenance
9-The door of the lower compartment shall be interlocked with isolator in such a way that the door can be opened only when the isolator is in OFF position.
10-Cable terminal boxes with sealing boxes shall be provided for both incoming and outgoing terminals suitable for PVC/DWA mining cable of required size
11-Type of enclosure: NFLP
12-Degree of Protection: For 3.3KV:IPH-6 of IS:3427-1997
13-Mounting: Floor mounted

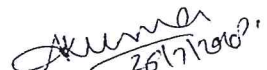
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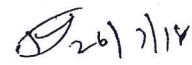
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14-Utilization category of starter: AC3
15-Type of contactors used: For 3.3 KV starter Vacuum break
16-Mode of operation : Electromagnetic
17- Current rating of the vacuum contactors(for AC3 only): Not less than 2 times the full load current: 400Amps
18- Only CPRI/ERDA tested make contactors shall be used
19-Details of Auto-Transformer (Applicable for Auto-Transformer starter only)
20-Type : Dry type
21-Winding material: Copper wound
22-Type of cooling: AN
23-Tapping : 40%, 60% and 80%
24- Cooling time : 15 seconds
M-PROTECTIONS
1-Over load: Magnetic over load relay with dash pot type time lag or Thermal relay
2-Range of current adjustment: 75% to 12%.
3-Earth leakage:: CBCT operated non self resetting type
4-Range of current adjustment: 0.5 A to 2.0 A in steps of 0.5 A
5-Testing and resetting of relay by: push buttons on the front cover
6-Indication of EL trip by: indicating lamps on the front cover
7- Short circuit protection: HRC fuses
8-Single phasing protection: By single phasing preventer
N-INSTRUMENTS TO BE PROVIDED
1- Voltmeter: Suitable range with selector switch
2-Ammeter: Suitable range with selector switch
3- Energy cum PF meter of suitable capacity and range
O-DOCUMENTS TO BE SUBMITTED ALONG WITH CONSIGNMENTS
1-Spare parts catalog and maintenance manual. 2 sets
2-Copies of tests certificate for ultrasonic test carried out on all rotating parts of the fan 2 sets
3-Copies of test certificate for dynamic balancing Of rotor assembly 2 sets
4-Foundation drawing of the fan and Drive 2 sets (to be submitted after receipt of the supply order, Well before the supply of the fan)


(Alok Kumar)
Deputy Manager (MM)


(K.S.R.Divakar)
Chief Manager (MM)