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| भारत कोकिंग कोल लिमिटेड (कोल इंडिया लिमिटेड की एक अनुषंगी इकाई) एक मिनीरत्न कंपनी पंजीकृत कार्यालय : कोयला भवन, कोयला नगर धनबाद-826005, CIN : U10101JH1972GOI000918 सामग्री प्रबंधन विभाग कमर्शियल ब्लॉक L-III, फ़ैक्स- 0326-2230183 फ़ोन नंबर-0326-2230181 ईमेल: gmmm@bcclweb.in, वेबसाइट: www.bcclweb.in |  | BHARAT COKING COAL LIMITED (A Subsidiary of Coal India Limited) A Mini Ratna Company Regt. Off: Koyla Bhawan, Koyla Nagar Dhanbad-826005, CIN: U10101JH1972GOI000918 Materials Management Department Commercial Block L-III (Fax No- 0326-2230183) Phone No. 0326-2230181 Email. Id: gmmm@bcclweb.in Website: www.bcclweb.in |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SUPPLY/PURCHASE ORDER

ORIGINAL BY REGD. POST/BY E-MAIL

Ref. No.: BCCL/PUR/ 816059/MB/16-17/CS Valve/17

Date: 25.05.2018

To,

M/s Natraj Iron & Casting Pvt Ltd

GSTIN No.: 20AAACN9871H1ZG

Address: 146, Patliputra Colony,

Vendor Category : NSIC & MSME

Patna, Bihar-800013

PAN: AAACN9871H

Tel. (0612)2266826/2270126

Mobile No. 08101048541

Email: natrajsteel@gmail.com

Sub. : Supply of 100mm Cast Steel Sluice Valve Class 150**Ref:** 1. Our Tender no: BCCL/PUR/ 816059/MB/16-17/CS & NR Valve/101 dtd :03.02.2017

Opened on 07.03.2017 [Tender Id: 2017_BCCL_61273_1].

2. Your online Bid no. 175105 dated 04.03.17 & subsequent correspondence on the above subject.

Dear Sir,

With reference to the above, we, for and on behalf of BCCL, hereby place PURCHASE ORDER on you for supply of following items as per rate, terms and conditions indicated below :

1. SCOPE OF SUPPLY: 100mm Cast Steel Sluice Valve Class 150

The detailed description along with specification of the items, Qty. to be supplied, Unit Rate and Extended Value will be as under:

| SN | Description | Qty. (Nos) | Unit Basic Rate (Rs) | Extended Landed Value (In Rs) |
|----|---------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------|-------------------------------------|
| 1 | 100 mm Cast Steel Sluice Valve class 150 [Make: Natraj] (Detailed technical specification will be as per Annexure-"A") | 150 | 8,500.00 | 12,75,000.00 |
| | GST @ 18 % [9% SGST+9% CGST] | | | 2,29,500.00 |
| | Sub Total | | | 15,04,500.00 |
| | CMPDI Inspection charges @ 1% | | | 15,045.00 |
| | GST @ 18% on CMPDI inspection charges | | | 2,708.10 |
| | Total Landed Value | | | 15,22,253.10 |
| | Total Landed Value on FOR Basis (rounded off) | | | 15,22,253.00 |

2. TOTAL ORDER VALUE: The total material value will be **Rs 15,22,253.00/-** (Rupees Fifteen Lakh Twenty Two Thousand Two Hundred Fifty Three only) on F.O.R. Destination basis.




3. GST:

- a) GST shall be paid extra as legally applicable during the scheduled delivery period. Presently applicable GST rate is 18% as above.
- b) The invoice shall be raised by you giving all the details as per GST Act/ Rules so as to enable BCCL to avail Input Tax Credit.
- c) You have to ensure proper uploading in your return so that BCCL may be able to avail Input Tax Credit.
- d) You have to ensure that if BCCL does not be able to avail Input Credit due to your fault then the loss amount to be recovered from you.
- e) The benefit of any extra input tax credit earned by you, if any, in future shall be passed on to BCCL.
- f) E-Way bill, if required, shall be arranged by you.
- g) HSN codes and GST rates of the items covered in the above supply order placed will be as under:

| SI no. | Item | HSN code | GST rate |
|--------|--------|----------|-----------------------|
| 1 | Valves | 8481 | 18% [9% SGST+9% CGST] |

h) Your GST details are as under:

| SN | Particulars | Firm's Details |
|----|---------------------------------------------------|-----------------------------------|
| 1 | Name | M/s Natraj Iron & Casting Pvt Ltd |
| 2 | Constitution of Business | Company |
| 3 | Trade Type (Manufacturer/Dealer/Service Provider) | Manufacturer |
| 4 | PAN | AAACN9871H |
| 5 | GSTIN | 20AAACN9871H1ZG |

4. Input Tax Credit: BCCL is entitled to avail Input tax credit of above GST amount and it will be availed on the submitting of all the necessary documents required as GST act.

5. Freight & Insurance Charges: Nil & Unloading charges will be borne by you

6. Mode of Dispatch: By Road on F.O.R. Destination, Freight paid basis.

NOTE: You will ensure safe & sound delivery of stores at consignee's end.

7. Road Permit: if required it will be arranged by you.

8. Delivery Period: 50% quantity to be completed within 3(Three) months or earlier from the date of receipt of supply order and balance 50% quantity to be completed within next two months. However Earlier delivery will be appreciable.

Delivery period will be reckoned from 10th day from the date of placement of order and the date of receipt of materials at our stores shall be treated as the date of delivery. However, keeping in view of our extreme urgency, earliest delivery will be highly appreciated.

(Any increase in the rate of taxes beyond delivery period will be to your account).

9. Consignee & Paying Authority: Consignee & Paying Authority for this

Order will be as under:

| Consignee | Paying Authority |
|------------------------------------------------|------------------------------------------------------------------------|
| Depot Officer Central Store, Ekra, B.C.C.L. | HOD(F) (MM), Purchase Finance , Koyla Bhawan , B.C.C.L. , Dhanbad |

10. Payment Term: 100% within 21 days from the date of receipt and acceptance of the material at site or within 21 days from the date of receipt of suppliers' bills at consignee end, whichever is later.

11. Submission of Bill: 100% value of bill duly stamped, signed & pre-receipted in quadruplicate, as per terms of the order should be submitted for payment to the paying authority through consignee.

Bill should be submitted along with receipted delivery challan in original, Consignee note (if any), packing list if any, Guarantee/ Warranty certificate, Copy of valid BIS licence, Test Report as per relevant IS, Price Certificate, Copy of Inspection Note and money receipt of CMPDIL, documentary evidence of taxes payment if claimed and other relevant documents, as per order should be submitted to the Consignee for payment through Paying Authority (*Note – All documents to be submitted shall be duly authenticated*).

NB: all documents to be submitted shall be authenticated. No payment will be made without submission of performance Bank Guarantee & security deposit, if covered in order.

12. Guarantee /Warranty: Materials supplied should be guaranteed for a period of 12 months from the date of commissioning or 18 months from the date of receipt & acceptance of materials at consignee and against any manufacturing defects/workmanship/ Inferior quality. Any defects observed on this account shall be attended within 07 days from the date of receipt of report and immediately replace the material within 30 days free of cost.

13. Price Certificate: You should submit a certificate along with bill as stated below:

"The rates of the stores under this contract are the lowest at which we are selling to any other customer/Govt. Deptt./ Subsidiaries of CIL/ Other PSUs. If the materials are sold at any lower rate than that mentioned in this contract to any other agency, the same will automatically be applied to this contract from that date"

14. Security Deposit: - Exempted being registered with NSIC and you are required to submit valid NSIC at the time of supply otherwise you have to submit SD for 10% of total order value including all taxes within 15 days from the date of issue of this supply order as per NIT.

15. Inspection – Pre-dispatch Inspection shall be carried out by CMPDIL, Ranchi at your Works premises. Inspection Fees @1% on FOR destination price and GST @18% on inspection charges shall be paid initially by you along with your Inspection Call, which shall be subsequently reimbursed by BCCL along with your supply bills against documentary evidence e.g. money receipt etc. Final inspection shall be carried out at the consignee end after receipt of materials. The material shall also be subject to pre dispatch inspection by CMPDIL as per details indicated in Appendix II.

Final inspection shall be carried out at the consignee end after receipt of materials by the concerned technical head [i.e. GM (E&M)/I/C or their authorized representative].

16. Packing - Consignment shall be supplied in suitable standard proper packing as per NIT.

17. Transit Insurance – Shall be arranged and covered by you for safe arrival of materials to the consignee end at your cost and risk.

18. Penalty for failure to supply in time:

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 this office.

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 you, as agreed liquidated damages, a sum not less than 0.5% (half percentage) of the price of the stores which you have 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 you, on your account and risk, 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 your risk and cost 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 you, 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 you 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, you will pay BCCL on demand the remaining amount. You will not be entitled to any gain under this clause.

19. 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 GM(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.

All other remaining commercial terms & conditions and technical specifications along with scope of supply will strictly be as per our notice inviting tender and as confirmed in your techno-commercially acceptable offer & as per company norms.

ALL DISPUTES ARE SUBJECT TO DHANBAD COURT AND JHARKHAND HIGH COURT JURISDICTION ONLY.

This contract is concluded with the issuance of this order. Two copies of the order is being sent to you. You are advised to acknowledge the receipt and acceptance of the order by returning one copy duly signed and stamped to this office positively within 15 days, failing which this order shall be deemed to have been accepted by you for execution.

Encl:-1. Annexure-"A" (Technical Specifications & Parameters)
2. Appendix-II (Pre Dispatch Inspection clause)



INDENT & BUDGET CERTIFICATION REFERENCE

| Indent no. and Date | e. BC & e. FC Ref. |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Indent No.MB/03/16-17 dated 01.07.16 | B.C.No. BCCL/Hq/Pur-FIN/Store Budget/Advance Rev Budget/18-19/Other Store (U/G)/No.03 dtd 14.05.18 Rs 62,81,628.00 , e.B.C.No.65 dtd 14.05.18 |
| IR No.816059 dtd 21.07.16 | F.C.No:BCCL/PURFIN/FC/02 Dtd:21.05.18 for Rs 62,81,628.00 e.F.C. No.33 dtd:21.05.18 |

Yours faithfully,

For & on behalf of Bharat Coking Coal Ltd.

Alok Kumar
25/05/18
(Alok Kumar)
Dy Mgr (MM)

N S Saini
25/05/18
(N S Saini)
GM(MM)

(This has got the concurrence and approval of competent authority)

Copy to:

1. Depot Officer, Central Store, Ekra, BCCL
2. HOD(F)(MM), MM DIV, Koyla Bhawan.
3. GM(E&M)I/C, E&M Deptt, Koyla Bhawan
4. MM(Tech Cell), MM Div, Koyla Bhawan.
5. Master File/Office Copy.
6. GM(MM) CCL/NCL/WCL/SECL/ECL
7. Prof (Dr) L.C. Singhi, IAS (Retd) ,Address: L-31 Third Floor Kailash Colony, New Delhi-110048
8. Shri Pramod Deepak Sudhakar, IAS (Retd.) ,Address: A-002, Stellar Park Apartments, C-58/24 Sector-62, Noida (UP)- 201 301
9. GM (E&M) Inspection, CMPDIL, Gondwana Place, Kanke Road, Ranchi-834008, Jharkhand. Ph: 0651-2792298; Fax No: 0651-2230127

ANNEXURE-"A"**(A) SCHEDULE OF REQUIREMENT:**

| Sl no | Item Description | Quantity (In Nos) |
|-------|------------------------------------------|----------------------|
| 1 | 100 mm Cast Steel Sluice Valve class 150 | 150 |

(B) Technical Specifications & Other Parameters:

This specification broadly covers design, manufactures and supply of Cast steel Sluice Valve to be used for mines dewatering operation, water supply system and other similar application in coalfields Area in BCCL. The surface quality of steel casting shall be as per IS: 8092/1992 with latest amendment.

1. **SERVICE CONDITION:**-The valve offered shall be compact and of robust construction to withstand the service conditions. It shall be capable of performing satisfactory service in heavy dust laden atmosphere; ambient temperature of 45 degree C and related humidity of 90% and other service conditions prevalent in coalfield Area.

2. **DESIGN, CONSTRUCTIONAL, FEATURES AND MATERIAL SPECIFICATION:** -

a. The Valve shall conform relevant I.S. specification/B.S. Specification/ASTM

b. The material of valve parts shall be so chosen so as to be compatible and match tri-biologically to provide prolonged trouble free service life. All the parts shall be manufactured to standard manufacturing practices to ensure interchangeability of the parts (Annex-A1). All the parts shall strictly conform to relevant IS Specification/B.S. Specification /ASTM, whichever applicable.

c. The valve design shall be such that it provides quick operation and requires very less maintenance. Taper plug valves design incorporating suitable and proven lubricating system shall be preferred. The design of the valve shall be such that it eliminates possibilities of corrosion and erosion at all seating surfaces and shall provide leak proof tightness. It shall provide least resistance to flowed pressure loss shall be minimum.

d. All casting shall be clean and sound without any defects that may impair their service. No plugging, welding or repairing of such defects is allowed.

e. **DIMENSIONS;** the valves with flanges on both sides, shall be to standard dimensions and shall conform to relevant ISS/BSS/ASTM

f. The flanges dia, thickness & dimensions of drilling shall be in accordance with Para 6.3 of I.S.780- 1980 & IS :1538 (specification for sluice valves for water works purpose -50 to 300 mm size) and shall suit the standard sizes drilled (to same specification) flanges of the corresponding/matching pipe sizes of the .M S .Pipe ranges(to relevant ISS) where these valves are to be used.

3. **Valve sizes Class/Type and nominal pressure:-**

a. The sluice valves covered to this specification shall be of 100 mm(4") size

b. Size of the valve refers to the nominal bore of the waterway. The actual bore at any point shall not be less than that of nominal size of the valve indicate in Para -a.

c. The class of the valve shall be as per relevant B.S. Specification corresponding pressure ratings shall be as follows:-

| Class | Pressure Rating |
|-------|--------------------------------|
| 150 | 20±1.0 Kg./Cm .sq(275 lbs/sq.) |

d .Pressure rating indicated above means maximum working pressure of the valve.

e. All the parts of the valve shall be designed so as to withstand the test pressure indicated herein the specification.

f. The tenderer shall offer for the following class of valve for the sizes indicated against each unless otherwise specifically mentioned:

| Class | For valve sizes to be offered |
|-------|------------------------------------|
| 150 | Up to and including 100mm.(4") dia |

4. HANDWHEEL:

a. Hand Wheel shall be cast finished and shall have on the upper side of the rim, the words 'OPEN 'and 'SHUT' with direction arrow (clockwise). The letters and arrow shall be cast in recess so that their surfaces shall be level with the surface of the hand wheel rim.

b. The hand wheel shall be to standard size as detailed in relevant I.S .Specification/BSS/ASTM specification for the size of the valve offered.

5. TESTING:-All the valves shall be subjected to hydrostatic tests and other tests specified in the relevant ISS/BSS/ASTM and to the test pressure indicated below:-

| <u>Class</u> | <u>Hydrostatic Test Pressure</u> | |
|--------------|----------------------------------|-----------------------------------|
| 150 | Body | Seat |
| | 1.5 times the rated Pressure | higher than the rated pressure |

The valves shall be show no sign of leakage under these tests.

a. The valve parts like stem shall be subjected to flow detection test as per the standard testing practices and in accordance with the sampling procedures laid down in relevant ISS/BSS.

6. MOC & Dimensions: as per Annexure-A1

7. PACKING:-All valves shall be supplied with the wedge closed. Bright parts shall be protected against rust. Valves of small diameter may be packed in wooden cases. Valves with smooth finished flanged joint faces shall be suitably protected against damage. Parts liable to injury in transit shall be wrapped with wood wool or similar material as a protection, Hand wheels of valves forwarded loose shall be removed before dispatch.

8. SCOPE OF SUPPLY:-

a. The scope of supply shall include non-raising spindle type sluice valve complete in all respects.

Handwritten signature

Handwritten signature

GENERAL

1. Name & Address: M/s Natraj Iron & Casting Pvt Ltd, Address: Laikdih, P.O.-Chirkunda , Dhanbad-828202
2. Name & Address of the manufacturer: As above
3. Collaboration, if any and name & address of collaboration: Not applicable

TECHNICAL DETAILS

1. Make, type & model of the valve: Natraj Iron & Casting Pvt Ltd , Cast Steel Sluice Valve , Non Rising Stem.
2. Class and size of the valve: Class 150 for 100 mm size
3. M S Pipe size for which suitable for: 4 Inch
4. Working pressure for which suitable: 20 Kg/sq Cm
5. Designed Pressure: 35 Kg/sq cm.
6. Test Pressure
 - Body : 30 Kg/sq cm
 - Seat : 22 Kg/sq cm

MATERIAL SPECIFICATION AND ISS/BS REF. OF MAIN PART

1. Body : ASTMA 216 Gr. WCB
2. Valve Seat/Disc: ASTMA 216 Gr. WCB+ 13 Cr.
3. Cover: ASTMA 216 Gr. WCB
4. Gasket: Compress Asbestos
5. Hinge and Hinge Pin: ASTM A 276 Type 410
6. Body Ring: SS 6603
7. Bolts & Nuts, etc, etc.: Carbon steel , ISI Marked to IS:1363 , Part-1 &3
8. Dimensions and ISS/BSS to which those conform: BS 1868 ,IS 5312, IS 1538
9. All major dimensions like;
 - a) Face to Face/between the flanges: 292mm \pm 2
 - b) Flange dia & thickness and drilling (No. Of holes X dia): Flange dia-220 mm, Thickness-25.4 mm, PCD-180mm , Hole dia-19 mm, No. of Holes-8 Nos
 - c) Other major dimensions: Overall Hieght-190 mm (aprox.)
10. Sectional view and nomenclature of main parts: As per your enclosed drawing no. NACL/SGV/CS/BCCL/K003-GA
11. Weight of the valve in working condition: 66 Kg (aprox.)
12. Scope of supply – Cast Steel non return Value-100 mm as per our NIT.
13. Optional accessories quoted for and price of each (to be separately quoted in price bid):N.A.
14. Details of lubrication arrangement: As per your enclosed drawing no. NACL/SGV/CS/BCCL/K003-GA
16. Technical literature of the valve offered: As per your enclosed drawing no. NACL/SGV/CS/BCCL/K003-GA
17. Any other technical details/ Special feature tenderer may like to mention about the valve offered: N.A.



Annxure-A1

MOC & BROAD DIMENSIONS OF THE COMPONENT FOR 100 MM SIZE SLUICE VALVE

MOC

1. Body - ASTM A 216 Gr. WCB.
2. Bonnet - ASTM A 216 Gr. WCB.
3. Stem - ASTM A182 Gr. F6a/AISI 410.
4. Disc - ASTM A 216 Gr. WCB + 13% Cr.
5. Seat Ring - ASTM A105 + Stellite, SS6603,04 Cr.18 Ni10.
6. Gland - ASTM A276 Type 410.
7. Bonnet Bush - ASTM A 276 Type 410.
8. Yoke - ASTM A216 WCB.
9. Wedge - ASTM A216 WCB.
10. Hand Wheel - A216 WCB/IS:1865 Gr.SG400/15.
11. Nut & Bolt - ISI Marked IS: 1363.
12. Gland Packing - Die mounted graphite with end ring.
13. Gasket - SS316/Compressed Asbestos.
14. Minimum wall thickness - 17 mm.
of Shell.
15. Weight of the dry Valve - 100mm (#150) – 65-70 Kg.

IMPORTANT NOTE: -

- (1) Hydrostatic Test pressure report for each valve as per clause no.5 of the specification shall be submitted with the consignment.
- (2) BCCL may get few valves tested as per the specifications, if felt necessary, at any Govt. test House, to check the conformity of the test report.

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APPENDIX -I**PRE-DESPATCH INSPECTION CLAUSE**

Pre-dispatch inspection of each consignment shall be carried out by M/s. Central Mine Planning & Design Institute Ltd (CMPDIL), Ranchi/their Regional Office as per the terms and conditions indicated hereunder:

Pre-dispatch inspection shall be carried out by M/s. CMPDIL (the above firm) as per their methodology. The third Party Inspection shall include examination of raw material, test certificate verification, continuous monitoring of quality assurance by manufacturer which will include regular and surprise visits. In brief, the scope and condition of inspection by M/s.CMPDIL will be as follows :

Checking and approval of test procedures/quality assurance plans.
Verification of records and documents of your works.
Verification of documents and test certificate of bought out items and cross checks.

You shall provide facilities for carrying out all necessary tests as required in the specification at your works else these will be carried out at an independent test house at your cost.

Final testing and checking of materials as per specifications.
M/s.CMPDIL will have full and free access to the premises of manufacturer during the process of manufacturing and during inspection activities.
Inspection fee @ 1% of total consignment billing (plus statutory levis like GST etc,as applicable on inspection fee) is to be paid to M/s.CMPDIL along with inspection call letter payable by SBI Collect as per enclosed appendix-II(a) which will be reimbursed subsequently by BCCL together with consignment billing.

Minimum 7 calendar days notice shall be given by the manufacturer to M/s.CMPDIL for arranging inspection within valid delivery period as per contract.
The ultimate responsibility for supply of correct materials as per requirement of relevant specification lies solely with the manufacturer inspite of clearance/acceptance by inspection authority i.e. M/s.CMPDIL. The manufacturer will be required to replace the material free of cost if found defective/unserviceable/not according to relevant specifications.

The charges for third party inspection and the cost of materials that would be required for destructive tests, if any, shall be reimbursed by BCCL together with the consignment billing. Such cost shall be reimbursed only if it is duly certified by M/s.CMPDIL.

Please send inspection call to M/s.CMPDIL, Ranchi/ their Regional. Office as per appendix-II(b).
Final inspection shall be arranged by the consignee after receipt of the material at our destination.
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.

FOR AND ON BEHALF OF BCCL



Appendix-II(a)

The manufacturer/firm, intending to submit the Pre-Dispatch Inspection (PDI) Fees online through SB collect has to follow the following steps:-

i. Visit CMPDI site (www.cmpdi.co.in).

ii. Click on the link of State Bank Collect to pay Inspection Fee

iii. Click the acceptance of terms & conditions and then click the proceed button.

iv. Next page will open. Here you select the state as *Jharkhand* and then select the type of institution as *PSU-Public Sector Undertaking*, then press go button.

v. Next page will open requesting to you select PSU name, here you select *CMPDI Ltd.* & then press the submit button.

vi. Next page will open, requesting to select the payment category. Here you select "*INSPECTIONN FEES*".

vii. Automatically you will be transferred to next page requesting to you to provide details of payment. Here you are required to fill the data as requested in each row including the remarks.

viii. After filling all the required data, press the *submit* button, you will be transferred to next page, which will request to verify the details and confirm the details. Press *confirm* button if entry made are correct otherwise press cancel If you press Confirm then you will be transferred to next page where payment option will appear.

ix. On this page you will find the various modes of e-payment of different banks i.e. net-banking, debit card, credit card etc.

x. At this page you are requested to make the payment by selecting the appropriate mode of payments offered by different banks as per your choice.

xi. After making the payment please take out the prints of e-receipt which should subsequently be submitted to us as a proof of payment made to CMPDI along with inspection call letter.

Xii. The inspection call is required to be submitted online on the email id gmenm.cmpdi@coalindia.in, with a copy to paresh.saxena@coalindia.in in in the following manner:

- a) A Covering letter on your letter head giving the details of inspection.
- b) Inspection call duly stamped and signed, addressed to GM (E&M) CMPDI in the required format on your letter head.
- c) Copy of e-money receipt for the PDT Fee deposited online.
- d) Copy of the respective complete supplied order against which inspection call is raised.

All the above four documents are to be submitted in separate POF files.

Xiii. Simultaneously a copy of e-money receipt for the POI Fee deposited online must be mailed on the email id: hqfinance@yahoo.com, with a copy to Sandeep.aru@coalindia.in

Note: - The facility for submission of POI Fee on State Bank Collect will be available from 1st to 28th of every month.

Appendix-II (b)

To

The General Manager (E&M),
CMPDI Ltd.
Gondwana Place, Kanke Road
Ranchi 834031
(Ph 0651-2230876, Fax 0651-2230127)

INSPECTION CALL
(to be typed in Company's Letter Head)

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of Subsidiary Company of CIL | Inspection Call Ref No. & Date: |
| Manufacturer's Name with Address & Tel/Mobile phone No.: | P.O. No./R.C. No./Amendment/etc.: Date: |
| Contact Person Details: • Tel. /Mobile Phone No.: • email id: | Status of supply order: Running Order/ New Order: (Please tick the appropriate one.) |
| Place of Inspection: | Brief Description of Material : |
| Qty. of Offered Material: | Value of Offered material: Basic Value: Consignment Value (Inclusive of all Taxes, Packaging & forwarding charges ,Transit Insurance, Freight etc) |
| Date of readiness of Material: Proposed date of Inspection: | |
| 1.Inspection Fee @1% of Consignment Value: Rs..... 2.GST as applicable on the date of submission of PDI Fee: Rs..... Total (1+2): | Details of e-receipt payment generated after paying the inspection Fee on SB collect: 1. e-receipt no.: 2. Date:..... 3. Amount in Rs..... |
| Note: 1. Inspection fee and GST charges is being sent on email id: gmenm.cmpdi@coalindia.in , with a copy to paresh.saxena@coalindia.in 2. Copy of Purchase order to be enclosed with inspection call. | |




Signature with seal

ANNEXURE 'A'Technical specification for Batteries

| Sl no. | Item description in brief | Unit | Quantity |
|--------|---------------------------------|------|----------|
| 01. | Cast Steel Sluice Valve – 100mm | Nos. | 150 |

The tenderer shall furnish the following details of the valve offered. The offers which are without these information / incomplete information are likely to be ignored.

GENERAL

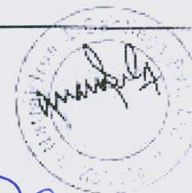
| | |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. Name & Address of the tenderer. | Natraj Iron & Castings Pvt.Ltd, Vill.-Laikdih, P.O.-Chirkunda, Dist.-Dhanbad-828202 (Jharkhand) |
| 2. Name & Address of the manufacturer. | Same as above |
| 3. Collaboration, if any and name & address of collaboration. | NA |

TECHNICAL DETAILS

| | |
|------------------------------------------|-----------------------------------------------------------------------------------|
| 1. Make, type & model of the valve | Natraj Iron & Castings Pvt. Ltd., Cast Steel Sluice Valve, Non Rising Stem. |
| 2. Class and size of the valve | Class – 150 and Valve Size – 100 MM |
| 3. M S Pipe size for which suitable for. | 4 inch |
| 4. Working pressure for which suitable. | 20 Kg/Cm ² |
| 5. Designed Pressure | 35 Kg/Cm ² |
| 6. Test Pressure | |
| Body | 30 Kg/Cm ² |
| Seat | 22 Kg/Cm ² |

Add

100



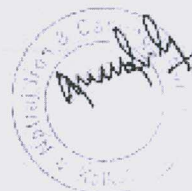
MATERIAL SPECIFICATION AND ISS/BS REF. OF MAIN PART

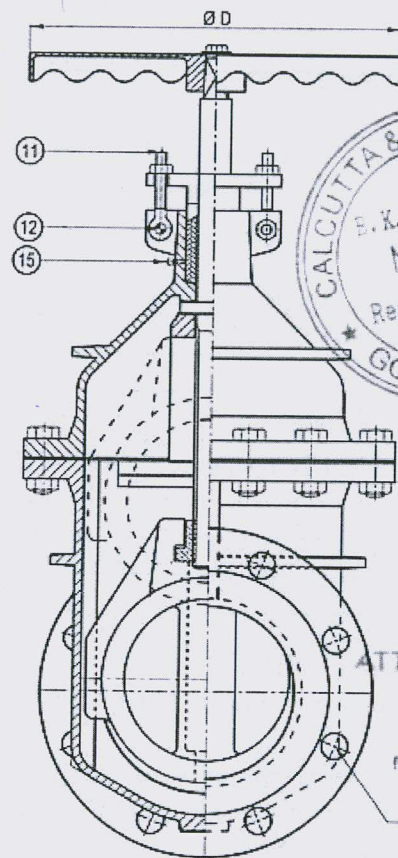
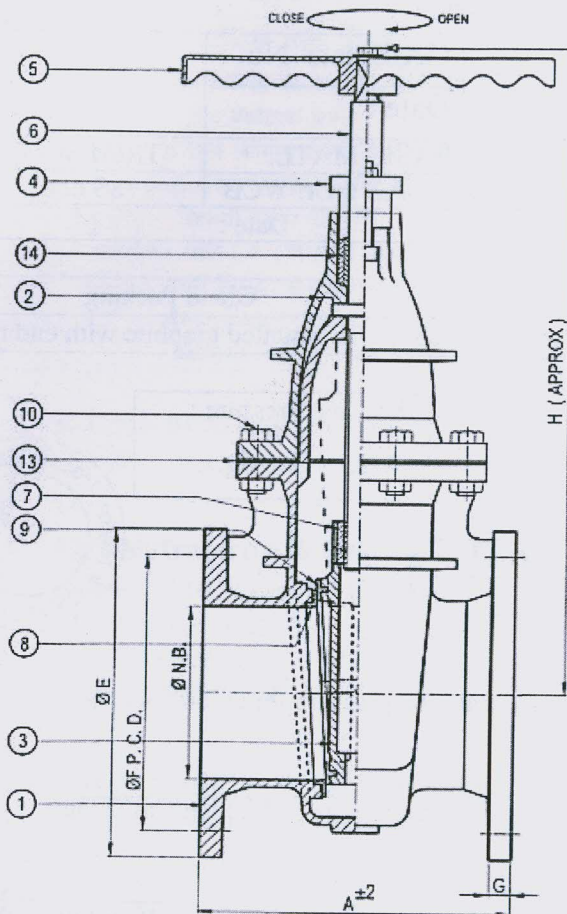
| | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1. | Body | ASTM A216 Gr. WCB. |
| 2. | Valve Seat/Disc | ASTM A 216 Gr. WCB + 13% Cr. |
| 3. | Cover | ASTM A216 Gr. WCB. |
| 4. | Gasket | Compressed Asbestos. |
| 5. | Hinge and Hinge Pin. | Not required |
| 6. | Body Ring | SS6603 |
| 7. | Bolts & Nuts, etc, etc. | Carbon Steel, ISI Marked IS: 1363. Part - 1 & 3 |
| 8. | Dimensions and ISS/BSS to which those conform | BS 1414, IS 9884, IS 1538 |
| 9. | All major dimensions like; | |
| | a) Face to Face/between the flanges. | 229 mm \pm 2. |
| | b) Flange dia & thickness and drilling (No. Of holes X dia) | Flange Dia. - 220 mm, Thickness - 25.4 mm, PCD - 180 mm, Hole Dia. - 19 mm, No. of Hole 8 Nos. |
| | c) Other major dimensions. | Overall Height - 435 mm (Approx) |
| 10. | Sectional view and nomenclature of main parts. | Attached Drawing. No. NICL/SGV/CS/BCCL/K001-GA. |
| 11. | Weight of the valve in working condition | 68 Kg. (Approx) |
| 12. | Scope of supply - standard. | Cast Steel Sluice Valve - 100mm as per requirement |
| 13. | Optional accessories quoted for and price of each (to be separately quoted in price bid) | NA |
| 14. | Details of lubrication arrangement. | Attached Drawing. No. NICL/SGV/CS/BCCL/K001-GA. |
| 15. | Details of past experience /supplies (Please indicate P. O. ref. & Quantity, etc.) to BCCL & Other Subsidiaries of Coal India and Govt. Dept./ Organisations. | GPL-HO:AIZWAL/NICPL/2016-17:007 Dated 01.03.2017 Quantity : 114 Nos. |
| 16. | Technical literature of the valve offered. | Attached Drawing. No. NICL/SGV/CS/BCCL/K001-GA. |
| 17. | Any other technical details/ Special feature tenderer may like to mention about the valve offered. | NA |

Note: - MOC of our quoted item will be as per your NIT.

Hd22

da





ATTESTED BY ME

E.K. BANERJEA
NOTARY

H NOS. Ø 1 DRILLED HOLE ON Ø P.C.D. OFF CENTER.

NOTE :-

- 1) FACING SURFACE ARE SMOOTH M.C. & FINE FINISHED
- 2) VALVE SHOULD CLOSED WITH CLOCK WISE ROTATION OF HAND WHEEL, DIRECTION OF OPEN & SHUT MARKED SHOULD BE CAST ON HAND WHEEL
- 3) ALL VALVE SHALL BE TESTED AT THE FACTORY FOR SMOOTH & TROUBLE FREE OPERATION IN FULLY OPEN & FULLY CLOSED POSITION OF GATE.
- 4) PAINTING : TWO COATS OF PRIMER SUITABLE FOR EPOXY PAINTS FINISH SHALL BE APPLIED TO ALL METAL SURFACE & FINALLY TWO COATS OF APPROVED BRAND EPOXY PAINT.

BILL OF MATERIALS

| NO. | COMPONENTS | QTY. | MATERIALS |
|-----|---------------------------------|----------|----------------------------------------------------|
| 1. | BODY | 1 | ASTM A 216 Gr. WCB. |
| 2. | BONNET | 1 | ASTM A 216 Gr. WCB. |
| 3. | WEDGE | 1 | ASTM A 216 Gr. WCB. |
| 4. | GLAND | 1 | ASTM A276, Type 410. |
| 5. | HANDWHEEL | 1 | ASTM A 216 Gr. WCB. / IS 1865, Gr. 400/15 |
| 6. | SPINDLE | 1 | AISI 410 |
| 7. | WEDGE NUT | 1 | AISI 410 |
| 8. | BODY SEAT RING | 2 | SS 6603 |
| 9. | WEDGE SEAT RING | 2 | SS 6603 |
| 10. | BOLTS & NUTS | Set | CARBON STEEL, IS : 1363 (PART - 1 & 3), |
| 11. | EYE - BOLTS & NUTS | 2 | CARBON STEEL, IS : 1363 (PART - 1 & 3), |
| 12. | PIVOT BOLTS & NUTS FOR EYE BOLT | | CARBON STEEL, IS : 1363 (PART - 1 & 3), |
| 13. | GASKET | 1 | COMPRESSED ASBESTOS. |
| 14. | GLAND PACKING | As reqd. | DIE MOUNTED GRAPHITE WITH END RING. |
| 15. | STUFFING BOX PLUG | 1 | LEADED TIN BRONZE, IS : 318 - 1981, GRADE - LTB 2. |

NON RISING SPINDLE TYPE SLUICE VALVE

TECHNICAL SPECIFICATION

| | |
|----------------------|---------------------|
| GENERAL VALVE DESIGN | IS 14846 / BS 1414. |
| FACE TO FACE | IS 9884:1981. |
| FLANGE DESIGN | IS 1538:1993. |
| MATERIAL | ASTM |

NOTE :-

* ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE SPECIFIED.

| HYDROSTATIC TEST PRESSURE | | | |
|---------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| PRESSURE RATINGS | HYDROSTATIC BODY (Kg/Cm ²) | HYDROSTATIC SEAT (Kg/Cm ²) | WORKING PRESSURE (Kg/Cm ²) |
| CLASS - 150 | 30 | 22 | 20 |
| CLASS - 300 | 75 | 55 | 50 |

VALVE TYPE : NON RISING
SPINDLE TYPE SLUICE VALVE
VALVE SIZE : 100 NB, CLASS - 150,

| SIZE | FACE TO FACE | STEM DIA | OVERALL HEIGHT | FLANGE | | | | | SIZE OF HAND WHEEL |
|------|--------------|----------|----------------|--------|--------|-----------|-----------|-----------|--------------------|
| | | | | O.D. | P.C.D. | THICKNESS | HOLE NOS. | HOLE DIA. | |
| NB | A | d | H | E | F | G | H | I | D |
| 100 | 229 ± 2 | Ø25.4 | 435 | Ø220 | Ø180 | 25.4 | 8 | Ø19 | Ø360 |



NATRAJ IRON & CASTINGS LTD.

Village - LAIKDIH, P.O. - CHIRKUNDA, DEHRAAD - 828 202.

| | | | | | | | |
|-----------|--------------------------------------------------------------------------|--------|--------|------------|---------------------------|------|-----------|
| Title | G A DRAWING OF NON RISING SPINDLE TYPE 100 NB SLUICE VALVE, CLASS - 150, | | | | | | |
| Component | 100 NB SLUICE GATE VALVE | | | | | | |
| Design By | Approved By | Scale | Brand | Projection | Drawing No. | Rev. | Sheet No. |
| S. SAHA | C.L. Verma | N.T.S. | NATRAJ | 1st Ang | NICL/SGVCS/BCCL/K001 - GA | 0 | 1 OF 1 |

CHIRKUNDA COURT CAMPUS
2, Bankshell Street
Kolkata-700 001

| | | | | | | | |
|-------------------------------------------------------------------------------|-----------------|--------|------------------------------------------|------------------|--------------|-------------------------|------------|
| M/S NATRAJ IRON & CASTINGS PVT. LTD. P. O.: CHIRKUNDA, DHANBAD, JHARKHAND. | | | Hydrostatic Test Pressure Report. | | | Certificate No. : _____ | |
| | | | | | | Date : _____ | |
| Valve : | Type : | Size | Pressure Rating : | Testing Standard | Quantity : | BASIC MATL. | TRIM MATL. |
| Sluice Valve | Non Rising Stem | 100 NB | Class - 150 | As per IS | | ASTM A216 Gr. WCB | SS 6603 |
| Customer Name : M/S _____ | | | P.O. No. - _____ | | Date : _____ | | |

Valve Parts Material:

| | | | | |
|--------------------------|-------------|---------------------------------|-----------------------|------------------------------------|
| Body/Bonnet/Wedge /Gland | Stem | Stem Nut/Body & Wedge Seat Ring | Bolt & Nut | Gland Packing |
| ASTM A 216 Gr WCB | SS AISI 410 | SS 6603, 04Cr 18 Ni 10 | Carbon Steel, IS 1363 | Die mounted graphite with end ring |

Method of Testing:

| | | | | | |
|-----------------|-------|-----------------------|---------------------|-------------------|--------------------|
| Testing Media : | Water | Testing Temperature : | Ambient Temperature | Pressure Rating : | Working Pressure : |
| | | | | Class - 150 | 20 Kg. / Cm. Sq. |

HYDROSTATIC TEST PRESSURE ::

| | | | |
|-----------------|-----------------------------------------|-----------------------------------------|--------------------------|
| Pressure Rating | Hydrostatic Body (Kg/Cm ²) | Hydrostatic Seat (Kg/Cm ²) | Test Duration (Second) |
| CLASS - 150 | 30 | 22 | 60 |

Test Procedure :

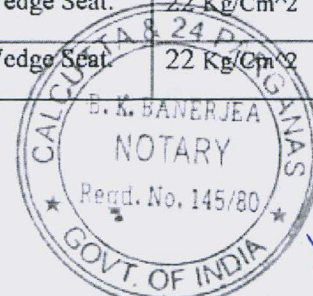
- Step 1 : Closed the both end of the Valve, with the obturator fully open condition.
- Step 2 : Increase the water pressure inside the valve Body until it reaches pressure of 30 Kg/Cm² and maintain the pressure for at 60 Seconds and check Leak-tightness of Shell.
- Step 3 : Release the water and replace one side flange by a ring to observed Leak-tightness of Seat.
- Step 4 : Fully closed the obturator and increase the water pressure closed side of the valve until it reaches a minimum pressure of 22 Kg/Cm² and maintain the pressure for at 60 Seconds and check Leak-tightness of Seat .
- Step 5 : Step 4 is Repeated on the other side of the Valve Seat and check Leak-tightness of other side of Seat.

| Type of Testing | Inspection Stage | Area | Test Pressure | Actual Observation | Remarks |
|------------------------------------------|------------------|---------------------------------|-----------------------|--------------------|---------|
| Leak - Tightness of Shell : | In Step 2 | Gland Packing, Body and Bonnet. | 30 Kg/Cm ² | | |
| Leak - tightness of one side of Seat : | In Step 4 | Between Body and Wedge Seat. | 22 Kg/Cm ² | | |
| Leak - tightness of other side of Seat : | In Step 5 | Between Body and Wedge Seat. | 22 Kg/Cm ² | | |

Note :



HIMAL KUMAR BANERJEA
NOTARY
2, Bankhall Street
Kolkata-700 001



Signature Of QC Inspector.

B. K. BANERJEA
NOTARY

24 DEC 2015