



BRAITHWAITE & CO LIMITED
(A Government of India Undertaking)

SUBSIDIARY OF BBUNL

Accredited with Quality Standards

ISO 9001 for Cranes / ISO 9002 for Railway Wagons

HEAD OFF. & REGD. OFF. : 5, HIDE ROAD, CALCUTTA - 43, TEL 2439-7415, 2439-4114, 2439-6613, 2439-7413

E MAIL : purchase@braithwaiteindia.com FAX : 91 (033)2439 7632 / 2439 5607.

ENQUIRY

Ref: Tender Enquiry No. BWT/CORP/CAP-PUR/SP-118/NPG/2005

Dt. 28.05.05

Dear Sirs,

Please quote your prices for the following articles :

Scope of Supply :

Supply, Testing & Commissioning of Circular Magnet with Control Panel, resistance (Punched stainless steel), Transformer Rectifier Unit, spring loaded CRD with flexible cable (15 M Length) for handling of scrap at Foundry for Arc Furnance for 1 No. 10 T EOT Crane	Quantity – 1 set
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The detailed Technical Specifications is shown in Annexure –1.

Your quotation shall comprise of two parts :

- a) **Part- I : Techno-commercial Bid**
- b) **Part – II : Price Bid**

Detailed technical specifications to be provided alongwith the offer.

Both the parts shall be submitted separately in two envelopes and these shall be put in a 3rd envelope and all the 3 envelopes shall be superscribed with our Tender Enquiry no.BWT/CORP/PUR-CAP/SP-118/NPG/2005 and due on **13.06.05** and name of the content bid(s).

The quotation will be considered as cancelled if the documents required for part-I & Part-II are not placed in respective envelopes.

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Sealed quotations addressed to OSD(Purchase), Braithwaite & Co. Ltd, 5 Hide Road, Kolkata – 700 043, may be dropped in our tender box no.2 (in case of hand delivery) or may be sent by registered post, but must reach us positively within 13.06.05.

An unconditional acceptance of commercial terms and conditions stipulated in Annexure-II of this tender enquiry is to be given alongwith the offer.

For Braithwaite & Co. Ltd.,

(N. P. Ghosh)
Assistant Manager (Purchase)

TECHNICAL SPECIFICATIONS

Circular Magnet with control panel, Registration & transformer – rectifier unit Spring loaded CRD & accessories for operation of magnet (copper conductor). The technical details of magnet is as follows:-

1. Dia – 1600mm.(approx)
2. Power consumption – 15 KW(approx)
3. Duty cycle – 75% ON & 25% OFF
4. Weight of Magnet – 2.5 T approx.
5. Amb temp. – 50 degree centigrade
6. Lifting capacity of magnet – 800 kg (approx) scrap (M.S/C.I)
7. Insulation – Class H

The panel will be dust, vermin & moisture proof, floor mounting type with front lockable hinged door having neoprene rubber gaskets. The panel will be fabricated from 2mm steel sheet and the enclosure will be IP54.

Panels will be front wired with readily bolted accessible terminal blocks for making external connection. Single core multi- strand HR-PVC copper conductor of minimum size 2.5 sq mm will be used for control wiring in the panels. The bottom most equipment mounted inside the panel will be at least 300mm above the bottom cover of the panel. Clearance of all live parts of different polarity will be minimum 75mm.

All Power wiring will be carried out with single core 1.1KV, grade ERP insulated cable with stranded copper conductor of adequate size or laminated copper strips insulated with HR-PVC sleeve. Power and control terminals will have to be segregated. All the foundation & other fixing bolts, nuts, washer etc. will be cadmium coated. Panel will have to be adequate number of lifting lugs. Heavy duty bolted type elmex /equiv. make terminals will be used.

Two single pole contactors of suitable rating in the positive and negative lines of the main d.c power to be provided. HRC fuse will be grip type with bolted protection.

The control panel comprising of heavy duty D C demagnetizing contactors, minimum. 150% rated DC contactor to be used.

The Rectifier-Transformer unit consists of a full wave 3 ph bridge rectifier together with double wounded Transformer mounted in a sheet steel ventilated cubicle. The unit is suitable for an input of 400 V+ 6%, 3 pH, AC and output of 230 V (tolerance on the voltage +6% & - 10%). D.C. Selenium rectifiers or silicon diode with 1200 PIV mounted on a suitable heat sink may be used. Tappings for primary & secondary side of transformer to be provided.

The discharge resistance punched stainless grid type will be housed in a separate IP – 33 enclosure with a weatherproof canopy.

The suitable master controller is to be provided for lift/drop the scrap.

Magnet: The conductor material of the magnet shall be of copper strips and free from burrs and will not have more than two joints in any single coil. The joints shall be lap joined and brazed all round. There shall be no joint in the portion of the coil immediately connecting to the leads for at least five turns. The last lap of the coil shall be reinforced with a phosphor bronze strip. The coil shall be in the form of cakes and the number of such coils in a magnet shall not be less than four. The coils shall be suitably insulated with nomex tape /eqv type as turn to turn and core insulation. For layer insulation between the cakes, mica insulation/eqv. Type shall be used. Flexible micanite shall be used for body insulation. The magnet shall have minimum class H insulation. The magnet shall be provided with non-linear type discharge device of rating adequate to suppress all transient voltages. The magnet body shall be cast from high permeability steel and periphery of the shell shall be heavily ribbed to give added mechanical strength and increased radiation surface. The suspension lugs to which chains are attached shall be integral with the magnet body. High tensile bolts shall be used wherever necessary in the magnet construction. Suitable clamping arrangements shall be made near the terminal box of the magnet to hold the feeding cable firmly against jerks of terminals.

PART-I : TECHNO-COMMERCIAL BID

GENERAL TERMS & CONDITIONS

Tender Enquiry No. BWT/CORP/CAP-PUR/SP-118/NPG/2005

1.0 EMD : Rs. 10,000/- : EMD is required to be deposited as Bid Security and to be submitted in the form of DD/Pay Order in favour of Braithwaite & Co. Ltd payable at Kolkata. However, for SSI Units with single point registration with NSIC, payment of EMD/Security Deposit can be considered for exemption to the extent of monetary limit granted on submission of valid NSIC registration certificate. Copy of the valid NSIC Registration Certificate should be furnished.

EMD will be forfeited or revoked if the tender is withdrawn and/or if the quoted prices is escalated later within the validity of the tender. EMD will be returned to the unsuccessful bidder only after finalisation of the contract. No interest will be paid against the EMD.

2.0 Security Deposit : 10% of order value in the form of Bank Guarantee from a Nationalised bank which will be valid till completion of the commissioning the machine to be submitted within 15 days of receipt of purchase order. This Security Deposit will be released after successful completion of the job and submission of Performance Guarantee.

3.0 Performance Guarantee : On completion of job, 10% of order value in the form of Bank Guarantee from an Indian Nationalised Bank to be submitted duly valid till completion of guarantee/warranty period. However, Security Deposit may be converted to Performance Bank Guarantee.

4.0 Payment Terms :

90% against receipt and acceptance of stores and 10% after successful commissioning

5.0 Prices :

Prices are fixed and not subject to variation on any account. Prices for equipments and accessories to be given in the separate enclosure (Price Bid). Break-up prices considering Basis Price, Excise Duty, Sales Tax, Packing and Forwarding, Freight & Insurance Charges etc. to be indicated separately.

6.0 Excise Duty :

In case of Price inclusive/exclusive of ED, vendor shall pass on the MODVAT benefit to Braithwaite by providing Transporters copy of ED invoice along with the supply. Otherwise, the same shall be deducted from vendors Bill.

0.0 Delivery : Within 45 days from the date of issue of LOI/Purchase Order. The materials will be delivered at our Angus Works free of cost.

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- 1.0 Loading & Unloading of materials : Loading and unloading of materials from the transport during delivery of the materials will be the responsibility of vendor.
- 9.0 Packing Identification Mark : Vendor should pack the materials so as to avoid loss or damage during handling and transport by Rail/Road. Each package should contain a packing note mentioning the name of the vendor, number and date of order , nomenclature of the stores etc.
- 10.0 Transportation & Insurance : Party's responsibility.
- 11.0 Operational Training : To be given by you at our works at free of cost.
- 12.0 Date of commissioning should be forwarded .
- 13.0. Inspection : Quality Assurance Plan to be submitted by vendors during Engineering and the same should be approved by Braithwaite. The materials will be inspected by our Inspecting Authority call from the vendors. All Inspection and test will be carried out as per approved procedure of Braithwaite. You have to bear all cost of Inspection and tests. Inspection certificate should be sent along with delivery challan.
- 14.0 Guarantee Period : All materials should be free from any defect from faulty design and/or materials and workmanship. Vendor should provide guarantee for their product against supply of defective material and workmanship for a period of 18 months from the date of delivery of materials or 12 months from the date of commissioning which ever is later. In case of any defectiveness towards material or workmanship vendor have to repair/replace the same at free of cost. TC/GC must be given alongwith the supply.
- 15.0 Penalty : If vendors are not able to supply/erect/commission of the equipment as per the delivery schedule a penalty @ 0.5% per week subject to maximum 10% that of unexecuted/non-supply part of the order.
- 16.0 Risk Purchase Clause : In case the vendor fails to execute the contract fully or partly, Braithwaite's shall have the right to procure/execute the work through other agencies as decided by Braithwaite at the risk and cost of vendor, after given appropriate notice in writing.
- 17.0 Bid shall remain valid for a period of 90 days from the due date of submission of bid.
- 18.0 Force Majeure : For the purpose of this clause, "Force Majeure" means and event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such event may include, but are not restricted to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situations arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical and shall seek all reasonable alternative means of performance not prevented by the Force Majeure event.

19.0 Termination & Suspension:

The Company may at any time on breach of the contract by vendor, give them a written notice of such breach. If vendor does not cure that breach within a period of 30 days after receiving such notice then the Company may terminate the contract at any time there after stating therein the date of termination.

On receiving the notice of termination, vendor will stop performance of the work order from the effective date of termination, hand over all drawings and documents and transfer all the rights of work to the Company.

In the event of termination, the Company and vendor will sit together to arrive at the fair solution in determining the claims and payments due to each other arising out of such termination. If no fair solution is arrived at within 2 months from the effective date of termination, the matter shall be referred to Arbitration.

The Company may suspend the work in whole or in part at any time by giving notice to vendor in writing of such effect stating the nature, the date and the anticipated duration of such suspension.

On receiving the notice of suspension, vendor will stop all such work which the Company may at anytime cancel the suspension notice for all or any part of suspended work by giving written notice. Vendor will resume the suspended work as expeditiously as possible after receipt of such withdrawal of suspension.

In the event of suspension, the Company shall not be liable to pay to vendor for any damage or loss or idle labour caused by such period of suspension of work.

20.0 Arbitration : All questions disputes on difference whatsoever shall arise between the Company and vendor upon or in relation to or in connection with the contract, either party may forthwith give to the other notice in writing of the existence of such question, dispute or difference and the same shall be referred to the sole arbitration of the Managing Director of Braithwaite & Co. Ltd. and his award shall be binding on both the parties. The M.D. shall have the right and authority to appoint an arbitrator any Officer of the Company, not below the rank of a G.M., who is not directly connected with the Purchase Order.

21.0 Any legal dispute that may arise will be settled within the jurisdiction of Court of Kolkata.

22.0 Price Bid Part shall be opened only if Part-I is qualified.

23.0 Alteration/inclusion/deviation will not be allowed once the bid is submitted.

24.0 BWT reserve the right to terminate the order by giving 7 days notice at any point of time.

26.0 Quantity variation : BWT reserve the right to split up the tendered quantity within more than one bidder without assigning any reason. Quantity as stated in the tender may vary as per discretion of Braithwaite.

27.0 Unconditional acceptance of the terms & conditions as mentioned above should be given by the tenderer alongwith their offer.

PART-II : PRICE BID :

- A) The Rate will remain firm till execution of the order.
- B) The Rate to be quoted both in figures and words.
- C) The bidder shall submit the price as per the following format :

Supply, Testing & Commissioning of Circular Magnet with Control Panel, resistance (Punched stainless steel), Transformer Rectifier Unit, spring loaded CRD with flexible cable (15 M Length) for handling of scrap at Foundry for Arc Furnance for 1 No. 10 T EOT Crane	Qty – 1 set	Amount (Rs.)
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BRAITHWAITE & CO. LIMITED

PART-I : TECHNO-COMMERCIAL BID

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90% against receipt and acceptance of materials and 10% after successful commissioning

5.0 Prices :

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7.0 Delivery : Within 45 days from the date of issue of LOI/Purchase Order. The materials will be delivered at our Angus Works free of cost.

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- 17.0 Bid shall remain valid for a period of 90 days from the date of bid opening.
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BRAITHWAITE & CO. LIMITED