



BRAITHWAITE & CO LIMITED  
(A Government of India Undertaking)

**SUBSIDIARY OF BBUNL**

Accredited with Quality Standards

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 : FAX : 91 (033)2439 7632 / 2439 5607

Ref: Tender Enquiry No. BWT/CORP/PUR/SP-161/NPG- 2008

Dt. 22 .07.2008

Dear Sirs,

Please quote your prices for Supply of –

Sl. No.	Brief description of items ( PF Compensation Systems)	Qty.
01	350 KVA, 400V 3 Phase Capacitor Panel & Capacitor Bank	1 Set
02	200 KVA, 400V 3 Phase Capacitor Panel & Capacitor Bank	1 Set

[The above items are required for improvement of Power Factor at BCL-Angus Works, Bhadreswar, Distt: Hooghly. The detailed Scope of Work/Specifications are mentioned in Annexure-I (enclosed). The details of drawing and materials list and interconnection drawing to be provided.]

Your quotation shall comprise of two parts:

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

Both the parts shall be submitted separately in two envelopes and these shall be put in a 3<sup>rd</sup> envelope and all the 3 envelopes shall be superscribed with our Tender Enquiry No. BWT/CORP/PUR/SP-161/NPG- 2008 Dated 22.07.2008 and due on

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

Quotation must be sent in sealed cover either by registered post or may be dropped in our tender box no. 2 in case of hand delivery.

Sealed quotations addressed to Dy. General Manager (BD), Braithwaite & Co. Ltd., 5 Hide Road, Kolkata 700043 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 06.08.2008. The techno-commercial bid may be opened on 07.08.08 at 2.30 p.m. You may present during opening of the tender.

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

For Braithwaite & Co. Ltd.,

Encl: Annexure-I & II

N. P. Ghosh  
Assistant Manager (Purchase)

Note : Rs. 100/- by way of DD/Pay Order in favour of Braithwaite & Co. Ltd – Kolkata should be given along with your offer towards the cost of tender documents.

**Supply of Automatic Power Factor Correction Meter Panel at Angus Works as per following specification :**

**1) Supply of Panel suitable for connection of 350 KVA Capacitor Bank as per following specification.** Qty : 1 Set

- a) 350 KVA 10 Stage 400V+\_6%, 3 Ph & Neutral, 50 c/s, cubicle type Automatic Capacitor Control Panel of 14 SWG sheet steel construction, floor mounted, dust and vermin proof complete with 3 Phase bus bars, interconnections, wiring and comprising of :

- 1 no. 800A TP Fuse Switch with HRC fuses for Incoming.
- 1 no. 10 Stage Automatic Power Factor correction relay PCR complete with supply failure protection and 230V AC reversible motorized switching unit with dual time mechanism for each stage for quick response/safe discharge time / antihunting characteristics with lag and lead LED in built in Auto/Manual – Test switch & Self test push button.
- 1 no. 250A TP switch fuse unit with 250A HRC fuses for 100 KVA fixed capacitor.
- 10 nos. 63A TP contactor with 230V AC coil for 25 KVA Units.
- 30 nos. 63A HRC fuses with fuse base.
- 1 no. 12 Pole selector switch for Auto/Off/Manual selection.
- 1 no. P.F. Meter.
- 1 set Voltmeter with selector switch.
- 1 set Ammeter with selector switch.
- 10 nos. Indicating lamp.
- 10 sets Manual Control Switch.
- 3 nos. Control fuses.

**b) Supply of 350 KVA L.T. Shunt Capacitor for Power System as per following specification:** Qty : 1 Set

Type : Heavy Duty Double Dielectric impregnated with H. V. Grade, NON-TOXIC, NON PCB & NON INFLAMABLE OIL and OIL FILLED in metallic container.

Construction : 1) Modular construction with Heavy Edge, LOW-LOSS, high dielectric constant. Metallised electrode with a Reinforced side and Self Healing properly.

2) Capacitors are to be provided with inductors. Modules are to be explosion proof. Discharge Resistors to be connected to reduce crest voltage as per I.S. Capacitors should be ISI Marked and quality assurance as per ISO 9001 – 2000.

3) Capacitor container in metallic, dust proof and Hermetically Sealed.

Contd....2

Technical Particulars	:	1) Rated output	- 350 KVAr.
		2) Rated voltage	- 400 VAC. +_ 6%
		3) Frequency	- 50 HZ.
		4) Phases connection-	Three phase. Delta connected.
		5) Temperature Category	- 45°C / 50°C (as per IS).
		6) Permissible over load	- As per IS.
		7) Standards	- IS 2834/1986 & IS 13340/1993

Following points to be mentioned in the offer :

- 1) Dielectric loss.
- 2) Total loss.

Note:-

- 1) Make of Contactors/Switches/Fuses – L&T/ SIEMENS/ GE/BCH
- 2) Make of Relay – AVOMEK/BCH/L&T/SIEMENS
- 3) Make of Capacitors – SUNNY/ L&T/ UNIVARSAL

**2) Supply of panel suitable for connection of 200 KVA Capacitor Bank as per following specification. Qty : 1 Set**

- a) 200 KVA 8 stage 400V+\_ 6%, 3 Ph & Neutral 50 c/s cubicle type Automatic Capacitor Control Panel of 14 SWG sheet steel construction, floor mounted, dust and vermin proof complete with 3 phase bus bars, interconnections, wiring and comprising of :

- 1 no. 630A TP Fuse Switch with HRC fuses for Incoming.
- 1 no. 8 stage Automatic Power Factor correction relay PCR compete with supply failure protection and 230V AC reversible motorized switching unit with dual time mechanism for each stage for quick response/safe discharge time/antihunting characteristics with lag and lead LED in built in Auto/Manual – Test switch. Self test push button.
- 1 no. 250A TP switch fuse unit with 125A HRC fuses for 50 KVA fixed capacitor.
- 6 nos. 63A TP contactor with 230V AC coil for 25 KVAr Units.
- 18 nos. 63A HRC fuses with fuse base.
- 1 no. 8 Pole sector switch for Auto/Off/Manual selection.
- 1 no. P.F. Meter.
- 1 set Voltmeter with selector switch.
- 1 set Ammeter with selector switch.
- 6 nos. Indicating lamp.
- 6 Nos. Manual Control Switch.
- 3 nos. Control fuses.

Contd....3

**b) Supply of 200 KVAR L.T. Shunt Capacitor for Power System as per following specification:**

- Type : Heavy Duty Double Dielectric impregnated with H. V. Grade, NON-TOXIC, NON PCB & NON INFLAMABLE OIL and OIL FILLED in metallic container.
- Construction : 1) Modular construction with Heavy Edge, LOW-LOSS, high dielectric constant. Metallised electrode with a Reinforced side and Self Healing properly.
- 2) Capacitors are to be provided with inductors. Modules are to be explosion proof. Discharge Resistors to be connected to reduce crest voltage as per I.S. Capacitors should be ISI Marked and quality assurance as per ISO 9001 – 2000.
- 3) Capacitor container in metallic, dust proof and Hermetically Sealed.
- Technical Particulars : 1) Rated output - 200 KVA.  
2) Rated voltage - 400+\_6% VAC.  
3) Frequency - 50 HZ.  
4) Phases connection - Three phase. Delta connected.  
5) Temperature Category - 45°C / 50°C (as per IS).  
6) Permissible over load - As per IS.  
7) Standards - IS 2834/1986 & IS 13340/1993.

Following point to be mentioned in the offer :

- 1) Dielectric loss.
- 3) Total loss.

Note:-

- 1) Make of Contactors/Switches/Fuses – L&T/ SIEMENS/ GE /BCH
- 2) Make of relay – AVOMEK/BCH/L&T/SIEMENS
- 4) Make of Capacitors – SUNNY/ L&T/ UNIVARSAL

For Braithwaite & Co. Ltd.,

**PART-I : TECHNO-COMMERCIAL BID****GENERAL TERMS & CONDITIONS:**

TENDER ENQUIRY NO. BWT/CORP/PUR/SP-161/NPG- 2008 Dt. 22.07.08

- 5) EMD : 5,000/- (Rupees Five Thousand only): 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 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.
- 6) Credentials: Tenderer must submit the following documents as part of techno-commercial bid:
  - a) Copy of VAT Clearance Certificate
  - b) Copies of Purchase Orders for similar type of job done .
- 7) Security Deposit : @ 10% of the order value only in the form of DD/Pay/ Order/Bank Guarantee from an Indian Nationalised Bank to be submitted by the successful bidder within 10 days from the date of receipt of purchase order.
- 4) Performance Guarantee : After completion of the 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.
- 5) Payment: 100% against Proforma Invoice.. Cheque would be handed over on receipt of materials at our Angus Works Stores in good conditions
- 6) Validity : Offer should remain valid for a period of 90 days from the date of opening of this tender.
- 7) Quoted rate should remain firm till completion of the job and price variation shall not be entertained.
- 8) Price should be quoted both in figures and words and your quotation must be free from any kind of overwriting, alteration and correction.
- 9) BWT shall reserve the right to increase or decrease the ordered quantity at the same rate and terms.
- 10) BWT shall reserve the right to split up the tendered quantity.
- 11) BWT shall reserve the right to accept or reject the tender partly or fully without assigning any reason.
- 12) Liquidated Damages : In the event of failure to complete the job within the stipulated completion period, BWT reserves the right to recover a sum of 0.5% for every week or part thereof by way of LD subject to maximum limit of 10% of the ordered value.
- 13) Risk Purchase : In the event of failure on the part of the contractor to complete the job, BWT reserves the right to get the job done by other agency/agencies as per the purchase order and shall recover the extra cost thereof, if incurred, from contractor.

Contd...2

- 14) Arbitration : Any dispute or difference whatsoever, arising between the parties and the purchaser out of relating to the construction, meaning, scope, operation or effect of the contract or validity or the breach thereof shall be settled by arbitration in accordance with the Rules of Arbitration in pursuance thereof shall be binding on the contractor.
- 15) Guarantee : The job shall be guaranteed for a period of 12 months from the date of commissioning. TC & GC to be provided.
- 16) Delivery: Within 30 days from the date of receipt of Purchase Order.
- 17) Loading & Unloading of materials : Loading and unloading of materials from the transport during delivery of the materials will be the responsibility of the vendor.
- 18) Any legal dispute that may arises should be settle within the jurisdiction of Court of Kolkata.
- 19) The tender is not transferable

**PART – II: PRICE FORMAT**

- 1) The rate will remain firm till completion of supply.
- 2) The rate to be quoted both in figures and words.
- 3) Overwriting in price figure of the quotation will be rejected.
- 4) The bidder shall submit rate in the following format.

Brief description of items	Quantity	Rate(Rs.)	Total Amount (Rs.)
<b>Supply of Automatic Power Factor Correction Meter Panel –</b>			
(1) 350 KVA, 400V 3 Phase Capacitor Panel & Capacitor Bank	1 Set		
(2) 200 KVA, 400V 3 Phase Capacitor Panel & Capacitor Bank	1 Set		
+ Taxes & Duties, if any			
<b>Total :</b>			

For Braithwaite & Co. Ltd.,