



Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

An ISO 9001
Company

CAPITAL PURCHASE / MATERIALS MANAGEMENT / MANUFACTURING

ENQUIRY	Phone: +91 431 257 79 38 Fax : +91 431 252 07 19 Email : tvenkat@bheltry.co.in Web : www.bhel.com
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	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
	2620700081	18.08.2007	01.10.2007
You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order			

Item	Description	Quantity	Delivery (Item required at BHEL on)
10	Shrouded conductor Aluminium 400 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	120.00 M	30.10.2008
20	Current Collector Assembly 250 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	16.00 Nos.	30.10.2008
30	Erection and Commissioning of 400 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	120.00 M	30.10.2008
40	Shrouded conductor Copper 250 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	3060.00 M	30.10.2008
50	Current Collector Assembly 125 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	336.00 Nos.	30.10.2008
60	Erection and Commissioning of 250 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	3060.00 M	30.10.2008
70	Shrouded conductor GI 60 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	3180.00 M	30.10.2008



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Item	Description	Quantity	Delivery (Item required at BHEL on)
	www.bhel.com or http://tenders.gov.in		
80	Current Collector Assembly 250 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	148.00 Nos.	30.10.2008
90	Erection and Commissioning of 60 Amps as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	3180.00 M	30.10.2008

Note:-

1) BHEL commercial terms & conditions with Price Bid and Bank Guarantee formats along with technical specifications can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference “2620700081”.

2) Item SI.Nos.10 to 30 together will be evaluated as a single lot
Item SI.Nos. 40 to 60 together will be evaluated as a single lot
Item SI.Nos. 70 to 90 together will be evaluated as a single lot

3) However, prices shall be quoted for all the Item SI.Nos. (10 to 90) individually.

4) Offers will not be considered if erection & commissioning is not quoted.

Tenders should reach us before 14:00 hours on the due date
Tenders will be opened at 14:30 hours on the due date
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

Manager / Capital Purchase / MM / Manufacturing

TECHNICAL SPECIFICATIONS FOR SHROUDED CONDUCTOR SYSTEM

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
1.0	CONDUCTOR	Shrouded conductor 4-line DSL system for EOT / SEMI-GANTRY cranes i) 400 Amps Aluminium conductor ii) 250Amps Copper conductor iii) 60 Amps GI conductor	
1.1	Material	i)Aluminium ii) Copper iii) GI	
1.2	Cross sectional area	Shall be Adequate for the current rating.	
1.3	Standard length	4.5 mtrs Appx.	
1.4	Insulation	PVC	
1.5	Protection	IP21	
1.6	Conductor joint	Double bolted type	
1.7	Insulation cover	RYB&G Colors	
1.8	Support Pitch	1000 mm	
1.9	Hanger clamp	4 Pole.	
1.10	Power feeding	Center power feeding	
1.11	Minimum pitch of conductors	40 mm	
1.12	Installation	Indoor	
1.13	System voltage	500V AC	
1.14	Joints & ends shall be	With cover	
1.15	Shall be supplied with	Expansion joint and anchor clamp	
2.0	Quantity		
2.1	Total Requirement	i) 400Amps - 120 Mtrs Aluminium conductor R,Y, B & G – each 120 Mtrs ii) 250Amps. -3060 Mtrs Copper conductor R,Y, B & G – each 3060 Mtrs iii) 60 Amps. – 3180 Mtrs GI conductor R,Y, B & G – each 3180 Mtrs	
2.2	Split for 400Amps. - 120 mtrs	Required quantity of material shall be supplied for 1 bay 120 X 1 = 120 Mtrs	

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
2.3	Split for 250Amps.- 3060 mtrs The total length required for 17 bays	Requird quantity of material shall be supplied for all the 17 bays 120 X1 = 120 Mtrs 250X 1 = 250 Mtrs 240X 3 = 720 Mtrs 210X 8 = 1680 Mtrs 180X 1 = 180 Mtrs 50X1 = 50 Mtrs 30X 2= 60 Mtrs ----- Total = 3060 Mtrs	
2.4	Split for 60 Amps. - 3180 mtrs The total length required for 20 bays.	Required quantity of material shall be supplied for all the 20 bays 200 X 2 = 400 Mtrs 180 X 2 = 360 Mtrs 168 X 7 = 1176 Mtrs 150 X 2 = 300 Mtrs 120 X 2 = 240 Mtrs 96 X 7 = 672 Mtrs 32 X 1 = 32 Mtrs ----- Total = 3180 Mtrs	
2.5	Number of bays	1 for aluminium conductor 17 for copper conductor 20 for GI conductor	
2.6	Material supply shall be	For all the 1+ 17 + 20 =38 bays	
2.7	Angle support	Scope of supply includes angle support and hanger clamp of required quantity for mounting the conductor with 3% excess quantity	
3.0	Current collector		
3.1	Current rating	i) 250 Amps. For Aluminium conductor ii) 125 Amps for copper conductor iii) 60 Amps for GI conductor	
3.2	Collector movement	i) For 250 Amps Horizontal +/-200 mm Vertical +/- 60 mm ii) For 125 A mps Horizontal +/-200 mm Vertical +/- 60 mm iii) For 60Amps Horizontal +/-125 mm Vertical +/- 50 mm	

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
3.3	Mounting bracket	25 mm sq box	
3.4	Sintered copper shoe	250A, 125 A, 60A	
3.5	Shoe holder	Nylon	
4.0	ERECTION AND COMMISSIONING		
4.1	Location	BHEL / Thiruchy - 620014	
4.2	Manpower	Suppliers scope	
4.3	Welding machine with accessories	Suppliers scope	
4.4	Gas cutting set with accessories (if necessary)	Suppliers scope	
4.5	Tools and tackles	Suppliers scope	
4.6	Power (Electricity)	Free supply by BHEL	
4.7	All consumables like welding electrode, oxy-acetylene gases etc.	Free supply by BHEL	
4.8	Remarks	Any other requirement for erection and commissioning shall be clearly indicated by the supplier.	

NO OF CRANES

Sl no	CRANE TYPE	QTY (NOS)
1,2&3	EOT Cranes	2
4,5&6	EOT cranes	42
7,8&9	Semi-gantry / EOT cranes	37