



# Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

An ISO 9001  
Company

## ENQUIRY

## NOTICE INVITING TENDER

Phone: +91 431 257 79 38

Fax : +91 431 252 07 19

Email : [tvenkat@bheltry.co.in](mailto:tvenkat@bheltry.co.in)

Web : [www.bhel.com](http://www.bhel.com)

### TWO PART BID

Tender to be submitted in two parts.

**Enquiry  
Number:**  
2621100031

**Enquiry  
Date:**  
22.02.2011

**Due date for submission  
of quotation:**  
22.03.2011

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

**Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.**

Item	Description	Quantity	Delivery (Item required at BHEL on)
10	Supply of Copper Conductor – 250 A as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	936 M	25.04.2011
20	Supply of Current Conductor – 125 A as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	104 Nos.	25.04.2011
30	Erection and Commissioning of Copper Conductor – 250 A and Current Conductor – 125 A as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	936 M	25.04.2011
40	Supply of GI Conductor – 60 A as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	948 M	25.04.2011



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Item	Description	Quantity	Delivery (Item required at BHEL on)
50	Supply of Current Conductor – 60 A as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	72 Nos.	25.04.2011
60	Erection and Commissioning of GI Conductor – 60 A and Current Conductor – 60 A as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	948 M	25.04.2011

## Important points to be taken care during submission of offer

1. Checklist to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
2. Subsequent to the hosting of this Enquiry, any corrigendum to the Enquiry that may be hosted in the BHEL Web-site as well as Government Tenders-portal shall be viewed by the vendors regularly to know the details of corrigendum. In case if any vendor without seeing the corrigendum quoted as per original Enquiry and intimate that they have wrongly quoted will not be considered and rejected. However as per the appropriate Policy of BHEL action will be taken on them in this regard.
3. Item Sl. No. 10 to 30 together will be evaluated as a single lot  
Item Sl. No. 40 to 60 together will be evaluated as a single lot
4. However, the prices shall be quoted for all the item sl. Nos. (10 to 60) individually.
5. Offers will not be considered if erection & commissioning is not quoted.

BHEL's General guidelines / instructions (refer MM/CE/GT/001) including bank guarantee formats and list of consortium banks, commercial terms check-list 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 referred above.

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**  
  
Sr. Manager / MM / Capital Equipment

**Technical Specification For 4-line DSL Shrouded Conductor system  
required for new EOT cranes for THIRUMAYAM Plant**

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
1	<b>4-LINE SHROUDED CONDUCTOR DSL SYSTEM FOR EOT &amp; SEMI-GANTRY CRANES</b>		
1.1	Total requirement	i) 250Amps. – 936 Mtrs Copper conductor R,Y, B & G – each 936 Mtrs ii) 60 Amps. – 948 Mtrs GI conductor R,Y, B & G – each 948 Mtrs	
1.2	Material	i) Copper ii) GI	
1.3	Current Rating	i) 250Amps ii) 60Amps	
1.4	System voltage	500V AC	
1.5	Standard length	4.5 mtrs Appx.	
1.6	Insulation	PVC	
1.7	Protection	IP21	
1.8	Conductor joint	Four bolted type	
1.9	Insulation cover	Red, Yellow, Blue & Green Colors	
1.10	Support Pitch	1000 mm (Appx.)	
1.11	Hanger clamp	4 Pole type	
1.12	Power feeding	Centre Power feeding	
1.13	Minimum pitch of conductors	40 mm	
1.14	Ambient temp.	Suitable for 50°C Ambient Temperature rise.	
2	<b>CURRENT COLLECTOR</b>		
2.1	Total requirement	i) 125Amps Current collector 104Nos. ii) 60Amps Current collector 72Nos.	
2.2	Current rating	i) 125 Amps ii) 60Amps	

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
2.3	Current Collector Type	Sliding contact with sufficient Contact pressure while on Movement	
2.4	Tolerance in Collector movement	i) For 125Amp Current collector Horizontal +/-200 mm Vertical +/- 60 mm ii) For 60Amps Current collector Horizontal +/-125 mm Vertical +/- 50 mm	
2.5	Mounting bracket	40/25 mm square bar	
2.6	Shoe Holder Material	NYLON	
3	SCOPE OF SUPPLY		
3.1	Shrouded Conductor	i) The 250Amps Shrouded Conductor set shall be supplied as 234Mtrs X 4sets ii) The 60Amps Shrouded Conductor set shall be supplied as 111Mtrs X 8sets and 60Mtrs X 1set.	
3.2	Angle support	The Angle support and Hanger clamp for mounting the conductor shall be supplied with 3% excess of required quantity.	
3.3	Expansion joints	The required numbers of Expansion joints to accommodate Temperature Change shall be supplied for each bay.	
3.4	Accessories for Shrouded Conductor fitting	The required quantity of Conductor joints, Anchor Clamps, Centre power feed assembly, Expansion joints, Joint Cover, End Termination Joints & End Covers shall be supplied.	
3.5	Accessories For Current Collector Fitting	The required Quantity of Current collector mounting bracket [40/25 mm square box] shall be supplied for fitting 8nos of current collector for one EOT / semi gantry Crane	

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
3.6	Tools	The required special tools if any and manual for Installation and Maintenance shall be supplied.	
4.0	<b>ERECTION AND COMMISSIONING</b>		
4.1	Location	BHEL / Thriumayam Plant	
4.2	Manpower	Suppliers scope	
4.3	Welding machine with accessories	Suppliers scope	
4.4	Gas cutting set with accessories	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.	Suppliers scope	
4.8	Personal Protective Equipments	Suppliers scope	
4.9	Remarks	Any other requirement for erection and commissioning shall be clearly indicated by the supplier during technical discussion itself.	

**Requirement.**

1. 250A COPPER SHROUDED CONDUCTOR-----936 MTRS
2. 125A CURRENT COLLECTOR-----104 NOS
3. INSTALATION OF 250A COPPER SHROUDED CONDUETOR---936 MTRS
4. 125A GI SHROUDED CONDUCTOR-----948MTRS
5. 60A CURRENT COLLECTOR----- 72 NOS
6. INSTALATION OF 60A GI SHROUDED CONDUETOR-----948 MTRS

**NOTE:** ORDER TO BE PLACED FOR ALL THE 6 ITEMS TO A SINGLE VENDOR OR S.N 1,2 & 3 TO A VENDOR & 4,5&6 TO ANOTHER VENDOR.