



An ISO 9001  
Company

**Bharat Heavy Electricals Limited**  
(High Pressure Boiler Plant)  
Tiruchirappalli – 620014, TAMIL NADU, INDIA  
**CAPITAL PURCHASE / MATERIALS MANAGEMENT / MANUFACTURING**

<b>ENQUIRY</b>	Phone: +91 431 257 79 38 Fax : +91 431 252 07 19 Email : <a href="mailto:tvenkat@bheltry.co.in">tvenkat@bheltry.co.in</a> Web : <a href="http://www.bhel.com">www.bhel.com</a>
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	<b>Enquiry Number:</b>  <b>2620700040</b>	<b>Enquiry Date:</b>  <b>28.07.2007</b>	<b>Due date for submission of quotation:</b>  <b>30.08.2007</b>
Your 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 Schedule
10	3 Core 300 Sq.mm XLPE Cable as per the technical specification & 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> )	4.00 KM	28.02.2008
20	3 Core 95 Sq.mm XLPE Cable as per the technical specification & 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> )	10500.00 Mtr	28.02.2008

**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 “2620700040”.**

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
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Specification for High Voltage Power Cable				
Sl.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
	Supply of High Voltage, XLPE insulated, PVC inner/ outersheathed, armoured Power Cable conforming to the specification given below.			
1.0	<b>High Voltage Power Cable:</b>			
1.1	Nominal area of conductor	95 sq.mm / 300 Sq.mm as specified in the scope of supply		
1.2	Number of cores	3 core		
1.3	Voltage rating	11KV, 50Hz, a.c		
1.4	Type of system	Unearthed		
1.5	<b>Conductor</b>			
1.5.1	Material	Stranded, circular, Aluminium conductor as per IS 8130-1984		
1.5.2	Max. DC resistance at 20 deg.C (ohm/km)	0.32 for 95 sq.mm cable 0.10 for 300 sq.mm cable		
1.5.3	Conductor screen material	Non-metallic semiconducting tape or extruded semiconducting material		
1.6	<b>Insulation</b>			
1.6.1	Material	XLPE as per IS:7098-Part 2-1985		
1.6.2	Nominal thickness of insulation in mm	5.5		
1.6.3	Core identification	Coloured strips applied on the core		
1.6.4	Insulation screen	Extruded semiconducting material		

Sl.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
1.6.5	Metallic copper tape	Copper tape wrapped with suitable overlap on each core		
1.7	<b>Innersheath</b>			
1.7.1	Material	PVC innersheath		
1.7.2	Nominal thickness of innersheath in mm	0.6 for 95 sq.mm cable 0.7 for 300 sq.mm cable		
1.8	<b>Armour</b>			
1.8.1	Material & Type	Galvanized flat steel strip armouring		
1.8.2	Nominal strip size in mm	4x0.8		
1.9	<b>Outersheath</b>			
1.9.1	Material	PVC compound Type-ST2 as per IS:5831-1984		
1.9.2	Minimum thickness in mm	2.36 for 95 sq.mm cable 3.00 for 300 sq.mm cable		
1.10	Conformance to Indian Standard specification	IS:7098 -Part 2 -1985		
2.0	Technical leaflet of the cable indicating the approx. diameter, weight, thickness of insulation/ sheathing/ armour wire, current rating etc. to be enclosed with the offer.	Vendor to furnish		
3.0	<b>General Features of the H.V.Cable:</b>			
3.1	Cable shall have the manufacturer name embossed/ printed/ indented on the outer sheath at regular intervals.	Vendor to confirm		
3.2	Cable shall have Voltage grade, cable size embossed on the outer sheath.	Vendor to confirm		
3.3	Routine tests shall be conducted on the cables as per IS and test certificate shall be produced against supply	Vendor to confirm		

Sl.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
3.4	Make of the cable	Reputed make. Vendor to specify the make offered.		
4.0	<b>Reference List/ Qualifying Conditions:</b>			
4.1	Only those vendors who have supplied referred or higher size cables should quote.			
4.2	Information about the customers to whom referred cables have been supplied is to be submitted for qualification of the offer.	Vendor to furnish		
5.0	<b>Scope of Supply</b>	<b>Quantity</b>		
5.1	3 core, 95 sq.mm aluminium, armoured, 11KV, XLPE cable as specified above	<b>10500 meters</b>		
5.2	3 core, 300 sq.mm aluminium, armoured, 11KV, XLPE cable as specified above	<b>4000 meters</b>		