



Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

An ISO 9001
Company

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:
	2620800043	25.06.2008	25.07.2008

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	3.5 Core, 185 sq.mm Aluminium Armoured PVC Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	43,200 M	30.09.2008
20	3.5 Core, 50 sq.mm Aluminium Armoured PVC Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	7,200 M.	30.09.2008
30	3.5 Core, 25 sq.mm Aluminium Armoured PVC Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	12,600 M	30.09.2008
40	4 Core, 10 sq.mm Aluminium Armoured PVC Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	12,000 M	30.09.2008
50	3 Core, 6 sq.mm Aluminium Armoured PVC Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	10,000 M	30.09.2008
60	3 Core, 4 sq.mm Aluminium Armoured PVC Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	5000 M	30.09.2008



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Item	Description	Quantity	Delivery (Item required at BHEL on)
70	3 Core, 185 sq.mm 11 KV XLPE Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	2,500 M	30.09.2008
80	3.5 Core, 95 sq.mm Copper Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	500 M	30.09.2008
90	3.5 Core, 50 sq.mm Copper Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	500 M	30.09.2008
100	3.5 Core, 6 sq.mm Copper Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	500 M	30.09.2008

Note:

1. The length of Cable in a drum shall be 500 meters.
2. The quantity tolerance for each drum shall be +/- 5%.
3. The warranty for the Cables shall be 18 months from the date of despatch or 12 months from the date of put into actual use.
4. Routine tests and acceptance tests should be conducted and test certificates to be furnished along with the supply of Cables.

BHEL commercial terms & conditions with Price Bid and Bank Guarantee formats 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 “2620800043”.

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 Equipment / MM

Specification for 3 core, 11KV, 185 sq.mm 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	High Voltage Power Cable:			
1.1	Nominal area of conductor	185 sq.mm		
1.2	Number of cores	3 core		
1.3	Voltage rating	11KV, 50Hz, a.c		
1.4	Type of system	Unearthed		
1.5	Conductor			
1.5.1	Material	Stranded, circular, Aluminium conductor as per IS 8130-1984		
1.5.2	Conductor screen material	Non-metallic semiconducting tape or extruded semiconducting material		
1.6	Insulation			
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		
1.6.5	Metallic copper tape	Copper tape wrapped with suitable overlap on each core		
1.7	Innersheath			

Sl.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
1.7.1	Material	PVC innersheath		
1.7.2	Nominal thickness of innersheath in mm	0.7mm		
1.8	Armour			
1.8.1	Material & Type	Galvanized flat steel strip armouring		
1.8.2	Nominal strip size in mm	4x0.8		
1.9	Outersheath			
1.9.1	Material	PVC compound Type-ST2 as per IS:5831-1984		
1.9.2	Minimum thickness in mm	2.68		
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	General Features of the H.V.Cable:			
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		
3.4	Make of the cable- Reputed make acceptable to BHEL	Vendor to specify.		
3.5	Length variation in the quantity of supply, if any	Vendor to specify.		
4.0	Reference List/ Qualifying Conditions:			

SI.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
4.1	Only those vendors who have supplied same or higher size cables should quote.	Vendor to confirm		
4.2	Information about the customers to whom same cables have been supplied with copy of sample purchase order is to be submitted.	Vendor to furnish		
5.0	Scope of Supply	Quantity		
5.1	3 core, 185 sq.mm aluminium, armoured, 11KV, XLPE cable as specified above	2500 meters		

Specification for Medium Voltage Power Cable				
Sl.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
	Supply of Medium Voltage, PVC insulated, PVC outersheathed, armoured Power Cable conforming to the specification given below.			
1.0	Medium Voltage Power Cable:			
1.1	Nominal area of conductor	4/ 6/ 10/ 25/ 50/ 185 sq.mm as specified in the scope of supply		
1.2	Number of cores	3.5 core/ 4 core as specified in the scope of supply		
1.3	Conductor	Stranded, Circular/ shaped, Aluminium as specified in the scope of supply.		
1.4	Voltage rating	1.1KV, 50Hz, a.c		
1.5	Dielectric Insulation	Thermoplastic dielectric PVC compound		
1.6	Innersheath	PVC innersheath		
1.7	Armouring	Galvanized steel wire/ strip armouring		
1.8	Outersheath	General purpose, PVC compound outersheath		
1.9	Conformance to Indian Standard specification	IS:1554 (Part I & II)		
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 confirm		

SI.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
3.0	General Features of the M.V.Cable:			
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	Vendor to confirm		
3.4	Make of the cable. Reputed make acceptable to BHEL.	Vendor to specify		
4.0	Reference List/ Qualifying Conditions:			
4.1	Only those vendors who have supplied same or higher size cables should quote.			
4.2	Information about the customers to whom cables have been supplied with copy of Purchase orders is to be submitted for qualification of the offer.			
5.0	Scope of Supply	Quantity		
5.1	3.5 core, 185 sq.mm aluminium armoured PVC cable as specified above	43200 meters		
5.2	3.5 core, 50 sq.mm aluminium armoured PVC cable as specified above	7200 meters		
5.3	3.5 core, 25 sq.mm aluminium armoured PVC cable as specified above	12600 meters		
5.4	4 core, 10 sq.mm aluminium armoured PVC cable as specified above	12000 meters		
5.5	3 core, 6 sq.mm aluminium armoured PVC cable as specified above	10000 meters		
5.6	3 core, 4 sq.mm aluminium armoured PVC cable as specified above	5000 meters		

Specification for Medium Voltage Power Cable (Copper)				
Sl.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
	Supply of Medium Voltage, PVC insulated, PVC outersheathed, unarmoured Power Cable conforming to the specification given below.			
1.0	Medium Voltage Power Cable:			
1.1	Nominal area of conductor	6/ 50/ 95 sq.mm as specified in the scope of supply		
1.2	Number of cores	3.5 core/ 4 core as specified in the scope of supply		
1.3	Conductor	Stranded, Circular/ shaped, copper as specified in the scope of supply.		
1.4	Voltage rating	1.1KV, 50Hz, a.c		
1.5	Dielectric Insulation	Thermoplastic dielectric PVC compound		
1.6	Innersheath	PVC innersheath		
1.8	Outersheath	General purpose, PVC compound outersheath		
1.9	Conformance to Indian Standard specification	IS:1554 (Part I)		
2.0	Technical leaflet of the cable indicating the approx. diameter, weight, thickness of insulation/ sheathing/ current rating etc. to be enclosed with the offer.	Vendor to confirm		
3.0	General Features of the M.V.Cable:			

SI.No.	Description for BHEL Requirement	Specified/ To be confirmed by	Offered	Deviations
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	Vendor to confirm		
3.4	Make of the cable. Reputed make acceptable to BHEL.	Vendor to specify		
4.0	Reference List/ Qualifying Conditions:			
4.1	Only those vendors who have supplied same or higher size cables should quote.			
4.2	Information about the customers to whom cables have been supplied with copy of few Purchase orders is to be submitted.			
5.0	Scope of Supply	Quantity		
5.1	3.5 core, 95 sq.mm copper unarmoured PVC cable as specified above	500 meters		
5.2	3.5 core, 50 sq.mm copper unarmoured PVC cable as specified above	500 meters		
5.3	3 core, 6 sq.mm copper unarmoured PVC cable as specified above	500 meters		