



ISO 9001 Company

Heavy Engineering Corporation Limited
(A Govt. of India Enterprise)
Heavy Machine Building Plant
MM DIVISION

TENDER No. HMB/PUR/07/12/006/EL(Crane)-3563

DTD 19.12.12

To

Dear Sir

We request you to submit your most competitive offer for the following items as per the given schedule & Technical specification.

SI no.	Description	Qty.
1.	Armoured, XLPE insulated, class-2, copper cable	As per technical specification

Schedule of Tender receipt by 03.01.2013 up to 1 PM

Opening of Tender on 03.01.2013 at 3 PM

This enquiry consists of 2 parts as under:

- (1) **Schedule I** – Terms and conditions
(2) **Schedule II** – DAP No- 268/12M

Schedule – I

Terms & Conditions

1. The rate quoted shall be Inclusive of all packing & forwarding. Freight charges to be mentioned separately.
2. The Price quoted by the tenderer should be exclusive of Sales Tax / VAT. The rate and nature of sales tax applicable should be shown separately. Tax will be paid to the seller at the rate at which it is liable to be assessed or has actually been assessed on the date of supply provided the



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- transaction of sale is legally liable to sales tax and within the delivery period. Any change on the taxes & duty structure beyond the delivery period will not be considered by HEC.
3. The rates quoted must be firm and the offers made must remain open for acceptance for three months from the due date of opening of the tender.
 4. Quotations erased or over written are likely to be rejected unless all corrections are authenticated with the tenderers signature.
 5. Delivery date offered must be specified and guaranteed.
 6. Payment-Full payment will be made after 60 days of the receipt of supplies at destination duly inspected.
 7. Full particulars specifications, literature and / or drawing wherever applicable should be submitted along with the quotation. The brand and 'Make' name must be indicated.
 8. The Corporation does not pledge itself to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of tender or portion of the quantity offered and you shall supply the same at the rate quoted.
 9. Supplies will be subject to inspection by our Inspection wing/or Inspection agencies prescribed by us.
 10. Order placed as a result of this tender will be subject to the Corporation's General Terms and Conditions of contract, which can be downloaded from our web site www.hecltd.com.
 11. Corporation reserves the right to call for and examine at any time the books of accounts and other documents and papers of the firm for the purpose of ascertaining whether any excess payments has been made or the firm likely to be received/ received undue benefit out of execution of the particular contract.
 12. Earnest Money- Earnest money to the extent of 2% of the total value to be deposited by demand draft on the State Bank of India, Ranchi Hatia Branch, in favour of Heavy Engineering Corporation Ltd. Ranchi-4 along with the offer. EMD will be converted to security deposit in case of successful bidder. **Offer without EMD/Documents for exemption if any will not be considered.**
 13. Security Deposit- The firm has deposit a sum equal to a 5 percent of the total value of the contract as Security Deposit for the due fulfillment of the contract within 14 days after placement of order. Failing this the contract will be cancelled at the risk & expense of the supplier. This will be in addition to other remedies available to the purchaser for the successful completion of the contract. The validity of the security deposit shall be up to the receipt of the last consignment.
Note:-Incase the EMD is converted into security deposit the firm will have to deposit 3% amount of the total value (5% of the total value – 2% of the converted value)
 14. Delivery- The time for and the date of delivery of the Stores stipulated in the acceptance of tender shall be deemed to be the essence of the contract and delivery must be completed not later than the dates specified therein. Otherwise:
 - (a) The purchaser to recover from the contractor a sum of 0.5 % per week (completed week) of the price any stores (up to maximum 10%) as liquidated damages, which the contractor has failed to deliver as aforesaid or
 - (b) The purchaser may procure the un deliver stores/ similar items from elsewhere, without notice to the contractor at the risk of the contractor without canceling the contract in respect of the consignment not yet due for delivery or,
 - (c) To cancel the contract or a portion thereof.
 15. Income Tax Clearance Certificate- All tenderers shall submit along with their tender an Income Tax Clearance Certificate duly countersigned by the Income Tax Officer of the Circle concerned under



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the seal of the office. Copy of permanent A/c no. (PAN) (of income tax) to be enclosed with the bid.

16. There is no obligation on our part to accept delayed / late tenders received after the due date of opening and there are liable to be summarily rejected.
17. The rates quoted shall also be inclusive of embossing on the material. The Ownership namely "HMBP" at a predominant place of the material to a size/thickness depending upon the volumes of the material.
18. Guarantee-The stores supplied shall be guaranteed for a period of 12 months from the date of commissioning or 18 months from the date of supply which ever is earlier against defective materials or bad workmanship.
19. Performance Bank guarantee- Performance Bank guarantee amounting to 10% of the contract price is to be submitted in HEC's Format issued by any Nationalized Bank (Preferably State Bank of India) valid till guarantee period.

20. SPECIAL INSTRUCTIONS

- (a). The tender is to be submitted in Two bids. Part I- considering Techno commercial offer which shall cover all technical part as well as commercial terms & conditions except the prices and EMD (Earnest Money Deposit). Part-II Price Bid and EMD (Earnest Money Deposit) as per clause 12 of the enquiry.

Part I & Part II offers shall be in separate sealed covers. The tenderers are to clearly super scribe on the top of each envelope the relevant part number and description along with tender reference number and date of opening.

All the envelopes (Part I & Part II) shall be enclosed in one envelope. This envelope shall also be super scribed on the top with tender reference number and date of opening of enquiry, indicating that all the parts (i.e. Part I & Part II) are enclosed in the envelope and make of cable.

The complete and sealed tender is to be submitted by 1:00 PM of 03.01.13 in the tender box at the office of the Sr. DGM / Purchase /HMBP, Ground floor, HMBP ADM Building, HEC Ltd, Ranchi 4.

- (b). HEC reserves right to split the order depending upon the period of supply.

If the tender is bulky & voluminous the tenders are to be handed over to the following persons against receipt date & time:

1. Sri Lavakush
AM/Purchase
2. Sri K.K. Das
Jr. Manager/Pur/EL/HMBP

If the offer is not submitted as per the above instructions the same can be rejected.

Regards

(Upendra Nath)
SDGM/PUR/EL/HMBP



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Schedule II

(DAP No 268/12M)

1. SPECIFICATION OF CABLES

ARMOURED XLPE COPPER CABLES FOR DSL POWER FEEDING:-

1100V Grade, multi-core, **armoured, XLPE** insulated, copper cable, core laid up together provided with HRPVC type ST2 inner sheath, galvanized round steel wire/galvanized steel formed strip armouring as per IS:3975 and HRPVC outer sheath of ST2 type as per IS:5831-1984. The copper conductor shall be annealed high conductivity with stranded circular non compacted or stranded compacted circular or stranded compacted shaped conductor confirming to IS: 8130-84, flexibility class – 2. The insulation shall be with extruded cross linked polyethylene as per IS: 7098 (part-1) - 1988. The cable shall conform to the latest revision of IS: 7098 (part-1) - 1988. The cores shall be colored / numbered for core identification and interstices of the core shall be suitably filled up with non-hygroscopic material compatible with the type of insulation.

Cable size - (3^{1/2} x 240) sq.mm. XLPE insulated armoured Copper cable.

2.0 SCOPE OF SUPPLY:-

Armoured, XLPE insulated, class-2, copper cables of following sizes:-

Sl. No.	Item code	Cable size in sq. mm.	Total Qty.
1	5533309891	(3 ½ x 240) sq. mm	18875 M

Bay wise requirement of cables from Mill Floor Isolator to DSL (Cu. XLPE):-

BRM, BSP	Qty
Bay	
Billet Storage Bay(XY Bay)	150M
Billet Storage Bay (YZ Bay)	150M
Mill Bay (BC Bay)	2235M
Bundle Storage/Despatch Bay (CD Bay)	2490M



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Coil Storage / Despatch Bay (AB Bay)	1020M
Furnace Bay (AB Bay)	40M
URM, BSP	
Bay	Qty
Bloom Storage Area 3(A'A Bay)	210M
Cooling Bed Bay(BC' Bay)	640M
Bloom Storage Area / Roll Shop / Maintenance (AB Bay)	4325M
Shipping Area (AB Bay)	2240M
Bloom Storage Area 1 / Mill Bay (BC Bay)	4625M
Cross Transfer in shipping Area (B'C'' Bay)	60M
Visual Inspection Bay(C'E Bay)	410M
NDT Bay (CD Bay)	220M
Cross Transfer in shipping Area (BB' Bay)	60M

3.0 INFORMATION ALONGWITH THE OFFER:-

The tenderer must furnish data sheet as given in the format below for the cable.

CABLE DATA SHEET			
SL. NO.	PHYSICAL PARAMETERS	UNITS	3.5C x 240 SQ. MM.
1	Item Code		5533309891
2	Voltage Grade	KV	1.1
3	Reference Standard		IS-7098(Pt-1),1988
4	Type		AYWY
5	Number of Cores		3.5
6	Conductor		-
6.1	Material as per IS: 8130		Copper
6.2	Nominal Cross-sectional Area		-



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6.2.1	Main Core	mm ²	240
6.2.2	Reduced Neutral Core	mm ²	120
6.3	Flexibility Class as per IS: 8130		Class-2
6.4	Shape of the Conductor		-
6.4.1	Main Core		*
6.4.2	Reduced Neutral Core		*
6.5	No. & Nominal Diameter of Wire		-
6.5.1	Main Core	No/mm	*
6.5.2	Reduced Neutral Core	No/mm	*
7.0	Insulation		-
7.1	Material		Extruded Cross Linked Polyethylene as per IS-7098 (part-1) - 1988
7.2	Min. Average(Nominal) Thickness		-
7.2.1	Main Core	mm	*
7.2.2	Reduced Neutral Core	mm	*
8	Core Identification		
9	Laying Up		*
10	Inner Sheath		-
10.1	Material		HR-PVC,ST2 as per IS-5831
10.2	Minimum Thickness	mm	*
11	Armouring		-
11.1	Material as per IS: 3975		Galvanized steel round wire / Galvanized steel formed strip

CABLE DATA SHEET			
Sl. NO.	PHYSICAL PARAMETERS	UNITS	3.5C x 240 SQ. MM.
11.2	Nominal Diameter of Armour Wire	mm	*
12	Outer Sheath		-
12.1	Material as per IS: 5831		HR-PVC, ST2 as per IS-5831
12.2	Minimum Thickness	mm	*
12.3	Colour of Outer Sheath		Black
13	Overall Diameter of the cable	mm	*
	Electrical Parameters		
14	Max. D.C. Resistance of the Conductor at 20°C		
	Main Core	Ohm/km	*
	Reduced Neutral Core	Ohm/km	*



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15	Recommended Continuous Current Ratings under Conditions		
	In Ground at 30°C	A	*
	In Duct at 30°C	A	*
	In Air at 40°C	A	*
16	Conductor Temperature		-
	Continuous Operation	°C	85
	Short Circuit	°C	*
17	Short Circuit Current Carrying capacity of Conductor	KA for 1 sec	*
18	Approx. A.C. Resistance	Ohm/Km	*
19	Approx. Reactance at 50 Hz	Ohm/Km	*
20	Approx. Impedance at 50 Hz	Ohm/Km	*
21	Approx. Capacitance	MicroF/Km	*
22	Recommended Minimum Bending Radius	mm	*
23	Approx. weight of Cable	Kg/Km	*
24	Voltage Drop	V/A/Km	*
25	De-rating Factors for Ambient Temperature Variation	Temp	-
		45°C	*
		50°C	*
		55°C	*
		60°C	*

NOTE:- Column marked “ * ” should be filled up by the tenderer.