

## REQUEST FOR QUOTATION



**BHARAT HEAVY ELECTRICALS LIMITED**  
 Electronics Division  
 PB No. 2606, Mysore Road Bangalore - 560026  
 INDIA

RFQ NUMBER:  
 ANK0000240

RFQ DATE :  
 09.07.2019

Due Date/Day: 17.07.2019 WED  
 Time : 13:00 HRS  
 Tender Box : Reception Area  
 Opening Venue:  
 NEW ENGG. BLDG

MMI:PU:RF:003

(address for communication) :

(for all correspondence)

Purchase Executive : Ankita Reja  
 Phone : 08025146134  
 Fax :  
 E-mail: ankitareja@bhel.in

1. Please drop your offer before due date & time in the tender at the reception of BHEL-ESD, Electronic city-1, Bangalore.
2. Offers by e-mail are also accepted. The offers by Email shall be sent to Email ID defnesdmm@bhel.in.
3. Items should be delivered to  
 BHEL-ESD,  
 PLOT NO 98,  
 ELECTRONIC CITY PHASE 1,  
 HOSUR ROAD,  
 BANGALORE-560100,  
 KARNATAKA

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	DS0830006236 3x150 Sq.mm (HR PVC Copper), 1100V * HSN/SAC : 8517 Certificate Of Conformance Power Cable 3x150 Sq.mm, (HR PVC Copper), Voltage: 1100V	500	M	500	05.08.2019
2	DS0830006244 1x240 Sq.mm (HR PVC Copper), 1100V * HSN/SAC : 8517 Certificate Of Conformance Power Cable 1x240 Sq.mm, (HR PVC Copper), Voltage: 1100V	1,000	M	1,000	05.08.2019

Total Number of Items - 2

- 1.
- 2.

### TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS

**NOTES:**

1. This RFQ is governed by:
    - a) INSTRUCTIONS TO BIDDERS/SELLERS and GENERAL CONDITIONS OF CONTRACT FOR PURCHASE available at <http://edn.bhel.com> (**RFQ-PO Terms & Conditions**)
    - b) Any other specific Terms and Conditions mentioned.
  2. Bidders / Representatives who would like to be present during opening of offers are required to furnish authorization letter for the same.
- \* The HSN/SAC no mentioned against the line items in the RFQ are indicative only.

For and On behalf of BHEL.

Ankita Reja  
 Contrl Eqment - ESD

1 OF 1

## **RFQ No. ANK0000240 - SPECIAL INSTRUCTIONS**

1. The quotation is to be submitted in two part bids: “Techno-commercial bid” & “Price Bid” separately. Bid Shall Be Submitted as per the Instruction given In ITB & GCC - Instructions to bidders & General Terms and conditions. All Supporting documents related to PQC shall be enclosed in techno-commercial bid.
2. Please drop your offer before due date & time in the tender box named “**WEDNESDAY**” kept at the reception of BHEL-ESD, Electronic city, Bangalore.
3. QUOTATIONS SHOULD BE SENT TO:  
BHEL-ESD, PLOT NO. #98, ELECTRONIC CITY PHASE 1, HOSUR ROAD, BANGALORE- 560100.
4. Offers by e-mail are also accepted. Offers by email should contain separate files for techno-commercial and price bids. The offers by Email shall be sent to Email ID [dfnesdmm@bhel.in](mailto:dfnesdmm@bhel.in) with the subject ANK0000240\_17.07.2019\_Wednesday\_HR PVC Copper .
5. Tender opening Time is 01:30 PM on the tender due date, Place: Tender opening room @ BHEL-ESD, Electronic city Phase-1, Bangalore.
6. Please indicate the price both in figures and words clearly.
7. Please quote Price Bid as Per Price Bid Format Enclosed.
8. Please Submit Unpriced Bid (Copy Of Price Bid After Hiding Price) Along With Technical Bid.
9. Any deviations from or additions to the ITB & GCC - Instructions to bidders & GCC - Instructions to bidders require BHEL's express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
10. Non acceptance / deviations if any to the terms and conditions of the RFQ shall be clearly and explicitly mentioned in the offer, otherwise it will be treated that all the terms and conditions of the RFQ are accepted by the bidder in total.
11. Delivery Period- 5 weeks from the date of Purchase Order.
12. Individual L1 shall be considered.
13. Clause wise confirmation for BHEL Spec PS-460-0030 & PS-460-0029 is to be submitted along with the technical offer.
14. Items should be delivered to  
BHEL-ESD,Plot #98,  
Electronic City Phase 1,  
Hosur Road,Bangalore- 560100.



**PRE-QUALIFICATION CRITERIA &  
PURCHASE SPECIFICATION**

PS-460-0029

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**PRE-QUALIFICATION CRITERIA  
FOR  
HR PVC COPPER 3x150 Sq.mm  
POWER CABLES**

REVISION 00

APPROVED

PREPARED

ISSUED

DATE

11-06-19



**PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION**

PS-460-0029

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**REVISION HISTORY SHEET**

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REV NO	DATE	NATURE OF CHANGE	REASON	PREPARED BY	APPROVED BY
00	11-06-19	First Issue	-	V.V.VENKAT	P.BARADHI



## PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

PS-460-0029

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### Pre-Qualification Criteria for HR PVC Copper 3 x 150 Sq.mm Power Cables, 1100V (BHEL P/N: DS0830006236)

#### 1.0 Pre-Qualification Criteria (PQC)

The supplier shall necessarily meet the following conditions.

Sl. No	Particulars	Supplier's Confirmation (Y/N)
1	The vendor shall be an Original Equipment Manufacturer (OEM) or OEM's authorized dealers/representative. <i>A latest valid authorization letter from OEM giving full contact details shall be furnished along with offer (by dealer / representative).</i>	
2	Offer shall be for new cables and not for any refurbished or used cables. <i>A declaration to that effect to be furnished along with offer.</i>	
3	Routine test reports are to be submitted at the time delivery of cables. <i>Confirmation to be given in Techno-Commercial offer</i>	

#### Note:

- The Pre-Qualification Criteria (PQC) are mandatory requirements and the technical bid will be considered only if all the above PQC are met.
- All Supporting documents related to PQC shall be enclosed in techno-commercial offer.

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## PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

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### 2.0 Technical Requirements

Sno	Description	Unit	Value
<b>1</b>	<b>Conductor Details</b>		
1.1	Material & Type		Annealed High Conductivity Stranded Bare Copper Conductor as per latest IS:8130
1.2	Nominal Cross Sectional area	Sq.mm	150
1.3	No.of Cores	No	3
1.4	No. of Strands	No	Min number of Strands shall be as per latest IS:8130
1.5	Dia of each strand in conductor	mm	Dia.of Strands satisfying the specific resistance requirement as per latest IS:8130
1.6	DC Resistance of Conductor	Ohm/Km	< 0.1
<b>2</b>	<b>Insulation Details</b>		
2.1	Material & Type		HR PVC as per latest IS:5831
2.2	Nominal Thickness	mm	< 2.5
<b>3</b>	Type of Armour		Unarmoured
<b>4</b>	<b>Outer Sheath</b>		
4.1	Material & Type		Extruded PVC as per latest IS:5831
4.2	Colour		Black / Grey
<b>5</b>	<b>General</b>		
5.1	Rated Voltage	V	1100
5.2	Applicable standards		IS:1554, IS:5831, IS:8130, IS:3975
5.3	Core Identification		Red, Yellow & Blue
5.4	Standard Drum Length	Mtrs	500/1000 (±5%) – Wooden Drum
5.5	Printing on outer surface of cable		Brand Name, 1.1Kv (Size x No.of Cores), Year of Manufacture. Progressive marking over the length of the cable at every one meter length of the cable.
<b>6</b>	<b>Routine Tests</b>		
6.1	Conductor Resistance		As per latest IS:8130
6.2	HV Test at Room Temp.		As per latest IS:1554
6.3	Insulation Resistance		As per latest IS:5831
6.4	Annealing Test for Copper		As per latest IS:8130
6.5	Tensile Strength		As per latest IS:8130

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**PRE-QUALIFICATION CRITERIA &  
PURCHASE SPECIFICATION**

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**PRE-QUALIFICATION CRITERIA  
FOR  
HR PVC COPPER 1x240 Sq.mm  
POWER CABLES**

REVISION 00

APPROVED

PREPARED

ISSUED

DATE

11-06-19



# PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

PS-460-0030

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## REVISION HISTORY SHEET

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00	11-06-19	First Issue	-	V.V.VENKAT	P.BARADHI





## PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

PS-460-0030

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### Pre-Qualification Criteria for HR PVC Copper 1 x 240 Sq.mm Power Cables, 1100V (BHEL P/N: DS0830006244)

#### 1.0 Pre-Qualification Criteria (PQC)

The supplier shall necessarily meet the following conditions.

Sl. No	Particulars	Supplier's Confirmation (Y/N)
1	The vendor shall be an Original Equipment Manufacturer (OEM) or OEM's authorized dealers/representative. <i>A latest valid authorization letter from OEM giving full contact details shall be furnished along with offer (by dealer / representative).</i>	
2	Offer shall be for new cables and not for any refurbished or used cables. <i>A declaration to that effect to be furnished along with offer.</i>	
3	Routine test reports are to be submitted at the time delivery of cables. <i>Confirmation to be given in Techno-Commercial offer</i>	

#### Note:

- 1) The Pre-Qualification Criteria (PQC) are mandatory requirements and the technical bid will be considered only if all the above PQC are met.
- 2) All Supporting documents related to PQC shall be enclosed in techno-commercial offer.

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## PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

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### 2.0 Technical Requirements

Sno	Description	Unit	Typical Value
<b>1</b>	<b>Conductor Details</b>		
1.1	Material & Type		Annealed High Conductivity Stranded Bare Copper Conductor as per latest IS:8130
1.2	Nominal Cross Sectional area	Sq.mm	240
1.3	No.of Cores	No	1
1.4	No. of Strands	No	Min number of Strands shall be as per latest IS:8130
1.5	Dia of each strand in conductor	mm	Dia.of Strands satisfying the specific resistance requirement as per latest IS:8130
1.6	DC Resistance of Conductor	Ohm/Km	< 0.1
<b>2</b>	<b>Insulation Details</b>		
2.1	Material & Type		HR PVC as per latest IS:5831
2.2	Nominal Thickness	mm	< 2.5
<b>3</b>	Type of Armour		Unarmoured
<b>4</b>	<b>Outer Sheath</b>		
4.1	Material & Type		Extruded PVC as per latest IS:5831
4.2	Colour		Black / Grey
4.3	Min Thickness of Outer Sheath	mm	2.0
<b>5</b>	<b>General</b>		
5.1	Rated Voltage	V	1100
5.2	Applicable standards		IS:1554, IS:5831, IS:8130, IS:3975
5.3	Core Identification		Black
5.4	Standard Drum Length	Mtrs	500/1000 (+5%) – Wooden Drum
5.5	Printing on outer surface of cable		Brand Name, 1.1Kv (Size x No.of Cores), Year of Manufacture. Progressive marking over the length of the cable at every one meter length of the cable.
<b>6</b>	<b>Routine Tests</b>		
6.1	Conductor Resistance		As per latest IS:8130
6.2	HV Test at Room Temp.		As per latest IS:1554
6.3	Insulation Resistance		As per latest IS:5831
6.4	Annealing Test for Copper		As per latest IS:8130
6.5	Tensile Strength		As per latest IS:8130

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**Commercial Terms Discussion For ANK0000240 (HR PVC Copper)**

Sl. No.	BHEL Terms	Complied (Yes/No)	Remarks
1	<b>Payment Terms-For quotes in INR</b> 100% within 45 days after receipt and acceptance of material		
2	<b>Payment Terms-For quotes other than INR</b> 100% against sight draft with 45 days credit on negotiation of complete set of documents.		
3	<b>Penalty</b> (0.5% per week on the basic value of the undelivered quantity max upto 10%)		
4	<b>Delivery time</b> Within 5 weeks from the date of PO		
5	<b>Price Firm</b> (PVC not acceptable- Prices should be firm till execution of order)		
6	<b>Packing And Forwarding By Supplier</b>		
7	<b>For quotes in INR</b> -Free Door Delivery at BHEL ESD, Electronic City		
8	<b>For quotes other than INR</b> -FCA International Gateway Airport (For shipment by air, Refer Annexure II for details) OR CIF, ICD Bangalore. Port of discharge either Mumbai/Chennai (for shipment by sea)		
9	<b>Offer Validity</b> (90 days from the tender opening )		
10	<b>Taxes &amp; duties to be mentioned in offer (Applicable GST%)</b>		
11	<b>HSN Code</b>		
12	<b>Documents to be submitted along with offer</b>		
a	Datasheets/Catalogs		
b	Distributor's authorisation certificate, if any		
13	<b>Documents to be provided along with the supply of the item.Confirmation for the same is required in technical offer.</b>		
a	Routine Test Reports		

**PRICE BID**

**Price bid - ANK0000240**

<b>Sl. No.</b>	<b>Material Codes</b>	<b>Description</b>	<b>Quantity (M)</b>	<b>Currency</b>	<b>Unit Price</b>	<b>Total Price</b>	<b>Remarks</b>
1	DS0830006236	3x150 Sq.mm (HR PVC Copper), 1100V	500				
2	DS0830006244	1x240 Sq.mm (HR PVC Copper), 1100V	1000				
		GST (if applicable indicating %)					
<b>A</b>		<b>Total cost including equipment and applicable taxes (in figures)</b>					
		<b>Total cost including equipment and applicable taxes (in words)</b>					