

## Bid invitation

### Information

Description:EMNP/HP/EMN3/1060017406/THYRISTO  
R POWER  
Bid invitation number:6300029632

### Bid invitation rules

Bid invitation currency: INR  
**Timezone:** UTC+53  
**Submission period:** 22.10.2019 17:00:00  
**Opening date:** 22.10.2019 17:00:00  
**Created On:** 01.10.2019 04:18:51

### Bid invitation text:

#### GENERAL TERMS & CONDITIONS:

1. Delivery Terms: FDD/ FOR BEML, KGF.
2. Payment Terms: 60 days from receipt & acceptance of item. For Micro / Small Enterprises, it is 30 days.
3. Micro & small enterprise bidders to indicate Udyog Adhaar Memorandum number (UAM) and declaration of UAM on CPPP in their bid.
4. Quote should be valid for minimum 60 days from the date of Bid opening. Bids with validity of less than 60 days are liable for rejection.
5. Firm to indicate GSTIN and applicable GST in their bid.
6. Firm to indicate HSN code for the items in the bid invitation.
7. Firm to indicate the time requirement for supply.
8. Warranty for the material to be specified.
9. Firm to indicate complete specification, make, and other connected details in their bid. If not indicated in the bid liable for rejection.
10. L-1 evaluation will be based on item wise landed cost of technically accepted bids.

#### NOTE:-

- 1) In e- Bidding system - If you need any type of assistance, Please contact Mr. Krishna Mohan (Ph No – 080-22963269 / 22963141& Email – admin.srm@beml.co.in).
- 2) Please contact given below mail IDs for any type of technical clarification.  
i) hn@beml.co.in & ii) emnp@beml.co.in

### SCOPE OF MATERIAL SUPPLY

Specification: 130A, 3 Phase, 415V Thyristor Power Controller for Constant Resistive Load (Nickel Chromium Heating Elements) of OPEN DELTA Connection with Display indicating Output Current & % of Output Power, with

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Current Limiting options, Firing Method options,4-20mA output, Relay for Alarms, suitable Semiconductor fuses, inbuilt cooling Fan. Make: CCI/ PMA/ AEG/SIEMENS Only. Warranty: Minimum 1 Year from the Date of Commissioning.

INSTALLATION/ COMMISSIONING OF 130A, 3 PHASE THYRISTOR POWER CONTROLLER IN THE EXISTING ELECTRICAL HEATING SYSTEM OF NITRIDING FURNACE AT HT SHOP

Specification of the Furnace:

- 1. Process: Nitriding
- 2. Rating of Total Heating System: 130 KW, 415V.
- 3. No. Of Zones: 2
- 4. Rating of each Zone: 65 KW & 3 Heating Elements per zone
- 5. 2 No's of Thyristor Power Controllers for 2 Zones
- 6. Heating Elements: Nickel Chromium Wire Type

Scope of Work:

- 1. Supply of 1 No. of 130A, 3 Phase, 415V Thyristor Power Controller as per Specification.
- 2. Installation & Fixing of Thyristor Power Controller in the existing Panel.
- 3. Cable Connections to the Thyristor Power Controller.
- 4. Necessary Interfacing of the New Thyristor Power Controller with the existing Yokogawa UP 550 Temp/ Time Programme Controller for Smooth Operation of both Zones' Thyristor Power Controllers from a single Temp/ Time Programme Controller.
- 5. Change of Heating System Control (Existing Contactor ON/ OFF to PID Control)
- 6. Necessary changes in the settings/ Parameters of Yokogawa Temp/ Time Programme Controller to be done in order to have better Temperature Control as per our requirement. If assistance of Yokogawa Service Personnel/ Engineer is required, the charges for the same have to be borne by the firm only.
- 7. Connections to the Ammeters to indicate Phase Currents.
- 8. Prove out the working of Thyristor Power Controllers & Heating Control System including Retort & Zone Temperature Control.
- 9. Training of Operation, Setting & Trouble Shooting of Thyristor Power Controller to our Maintenance Staff.
- 10. Electrical Circuit drawing of Furnace will be provided if necessary after release of PO.

NOTE:

- 1. Firm may visit our works/ Furnace to study the exact requirement & quantum of work involved.
- 2. Purchase Order will be released on a single Firm only for both Supply & Installation.

Bid invitation details

| Item | Product Price Condition | Description | Vendor product number | Delivery date/ performance period | Quantity |
|------|-------------------------|-------------|-----------------------|-----------------------------------|----------|
|------|-------------------------|-------------|-----------------------|-----------------------------------|----------|

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| Item | Product<br>Price Condition | Description                                  | Vendor product<br>number | Delivery date/<br>performance period | Quantity |
|------|----------------------------|--|--------------------------|--------------------------------------|----------|
| 1    | 8774873015                 | THYRISTOR POWER<br>CONTROLLER: 130A,<br>415V |                          | 00:00:00                             | 1 NO     |
|      | Basic Price                |  | INR                      | _____                                |          |
|      | IGST -Integrated GST       |  | %                        | _____                                |          |
|      | CGST - Central GST         |  | %                        | _____                                |          |
|      | SGST - State GST           |  | %                        | _____                                |          |
| 2    |                            | INSTALLATION &<br>COMMISSIONG<br>CHARGES     |                          |                                      | 1 JOB    |
|      | Basic Price                |  | INR                      | _____                                |          |
|      | CGST - Central GST         |  | %                        | _____                                |          |
|      | SGST - State GST           |  | %                        | _____                                |          |
|      | IGST -Integrated GST       |  | %                        | _____                                |          |