## Welding Laboratory Department of Mechanical Engineering Indian Institute of Technology Delhi

Dated: 29.02.2016

# Sub: Notice Inviting Quotation (NIQ) for Induction motors, VFDs and accessories (Five sets).

Sealed Quotations in **TWO BID** format (separate technical and commercial) are invited for **Induction motors**, **VFD and accessories**. The Induction motors will be interfaced with the existing manipulators in the Welding Laboratory.

#### **SPECIFICATIONS**

### 1) Induction Motor Specifications

- a. Output 0.75 KW / 1.0 HP
- b. Pole 4 (1500 RPM)
- c. Voltage 415V AC +/- 10%
- d. Frequency -50HZ +/-5%
- e. Degree of Protection IP55
- f. Insulation Class F
- g. Ambient  $-50^{\circ}$  C
- h. Mounting Foot mounted (IMB3)
- i. Method of Cooling IC 411
- j. Reference Standard IS:12615 / IEC:60034-1

## 2) Drive Specifications (VFD)

- a. Output 0.75 KW / 1.0 HP
- b. Voltage -3Ph AC 380 V -480 V (-15% /+10%)
- c. Control Mode V/f
- d. Overload Capacity 150% for 60 Sec within a cycle time of 300 Sec.
- e. Output frequency 0 550HZ (Resolution: 0.01 HZ)
- f. Input / Output Suitable to take Care of Application
- g. Degree of Protection IP20
- h. Mounting Wall Mounting
- i. Door Mounting Kit along with accessories Required (Pot along with start & stop Button Required )
- j. Input Choke / Line Reactor Required

### 3) Commissioning

a. Successful commissioning of the system in the Welding Laboratory.

## General

- Five sets are required
- Preferred make: Siemens, ABB, Schendier Electric, Allen Bradley, Bharat Bijlee
- Induction motors and VFDs should be preferably from the same manufacturer.
- All vendors are requested to furnish information in the same order as above.
- Vendors are also requested to highlight features which are extra and provide better versatility then the ones asked for in the NIQ.
- Only manufacturers / authorized dealers / channel partners need apply.

#### **TERMS & CONDITIONS**

- 1. Taxes as applicable.
- 2. CIF at IITD, New Delhi
- 3. Delivery period: 60 days.
- 4. Terms of payment will be against delivery and satisfactory installation for indigenous firms.
- 5. The supplier will provide free training to the Laboratory staff at IITD.
- 6. Installation and commissioning free of cost.
- 7. Failing to supply and commission the material in time will attract penalty clause.
- 8. IITD reserves the right to accept or reject any or all quotations without assigning any reason.
- 9. Force majeure as per IITD terms.

# Sealed quotations must reach the following address latest by 3.00 P.M. on or before 17<sup>th</sup> March, 2016. Late submissions will not be entertained.

Prof. Sunil Pandey (Convenor) Room No. WS-125 / WS-104 Central Workshop Block IITD, Hauz Khas, New Delhi 110016 India