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Date: 02.11.2017

CORRIGENDUM

Ref No. (Tender No.) IITT/ELE/07/2017/01 Published on 14-10-2017

Sub: Setting up of Electrical Machines Laboratory at Transit Campus, IIT Tirupati

The existing tender has 5 parts as given below

Parts
Instructions to the bidder
Schedule
Electrical Machines Lab for IIT Tirupati
Appendix
Eligibility criteria for the Bidder

Please Note the following:

There are no changes to the above parts of the tender document.

1. We have now added our additional requirement of 8 units of AC Drives and 8 units of DC drives with specifications. Bidder should also quote for these items along with other items already listed in our original tender document.

2. The AC and DC drives tendered herewith, should be fully compatible with the ratings and the other specifications of the AC and DC Machines (Composite machine workbench) listed in the existing tender.

3. In view of the additional items specified in the tender(Corrigendum), **the DUE DATE for the tender changed** from 10th Nov 2017 **to 16th November 2017, time 3:30 PM.**

4. There will be no pre-bid meeting for the added items.

DRIVES SPECIFICATIONS

The vendor shall supply drives housed in a cabinet with size of the cabinet not exceeding 700 mm (width) X 600 mm (height) X 550 mm (depth). The cabinet shall be made of MS and have a proper earth connection. All power metal boxes within shall also have a suitably designed earth connection point.

AC Drives : 8 Units

The specification of the AC drive unit is as follows. The vendor shall specify the time duration the machine can be operated on full load under inverter supply at various speeds.

Input	:	415V±10%,50±5%Hz,3 wire
Output	:	0-415V, Variable Frequency
Rated Power	:	As per specifications of machines in composite work bench
Control Type	:	V/F, Sensor-less Vector Control, and Vector Control
Input Section	:	Diode Bridge
Output Section	:	3 Phase IGBT Inverter
Braking	:	Dynamic Braking Resistor Should be provided
Speed Feedback	:	DC Voltage
Speed Reference	:	Adjustable in control panel (10V for maximum speed)
Controller Gains	:	Adjustable by the user

The drive shall also have facility to be run as a multiple motor and drive system accepting reference command on a common communication bus for future use. The drive shall have the capability to use all popular communication protocols – Ethernet/IP, / PROFIBUS / Devicenet / MODBUS.

DC DRIVES : 8 Units

The specification of the DC drive unit is as follows. The vendor shall specify the time duration the machine can be operated on full load under drive operation at various speeds.

Input Voltage	:	415V±10%,50±5%Hz,3 wire
Output Voltage	:	0 to 220V
Output Power	:	As per specifications of machines in composite work bench
Drive Type	:	Dual Converter
Braking	:	Regenerative
Speed Feedback	:	DC Voltage
Speed Reference	:	Adjustable in control panel (10V for maximum speed)
Controller Gains	:	Adjustable by the user

The drive shall also have facility to be run as a multiple motor and drive system accepting reference command on a common communication bus for future use. The drive shall have the capability to use all popular communication protocols – Ethernet/IP, / PROFIBUS / Devicenet / MODBUS.