DIRECTORATE OF TECHNICAL EDUCATION VOCATIONAL & INDUSTRIAL TRAINING HIMACHAL PRADESH SUNDERNAGAR

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Clarifications to Pre-Bid Queries

Project No: 3573-IND; Himachal Pradesh Skill Development Project

Name of Goods/Package: Supply of Electrical and Electronics related equipment's for Industrial Training Institutes to enhance Technical and Vocational Skills among the youth of Himachal Pradesh: HPSDP-DOTE/03 (Package-03), comprising of following lots:

Lot-1: Electronics Appliances

Lot-2: Electronics Lab equipment

Lot-3: Electrical Lab equipment

Lot-4: Electrical machinery

Invitation for Bids No.: 007/2019; Dated: 12/06/2019

Employer: The Director, Directorate of Technical Education Vocational and Industrial Training, Circular Road, Lalit Chowk, Sunder Nagar, District: Mandi, Himachal Pradesh -

ZIP code: 175018

Date and Time of Pre-Bid Meeting: 21st June 2019 at 11:30 hrs

Pursuant to Section 1; Instructions to bidders, Sub clause 7, and Section 2; Bid data sheet, Sub clause ITB 7.1 followings are the Purchasers clarifications on the Queries raised by Various Bidders on the bidding document for the aforementioned package:

SI. NO.	Query raised by prospective bidders	Clarification by DOTE
1.	It is requested to clarify the specification for Item-5 in Lot-2 , <i>C.R.O Dual trace/ Double beam.</i>	No Change in Specifications
2.	It is requested to clarify the specification for Item-6 in Lot-2 , <i>C.R.O Single beam</i> .	No Change in Specifications
3.	It is requested to clarify the specification for Item-11 in Lot-2 , <i>Digital trainer kit</i> .	No Change in Specifications
4.	It is requested to clarify the specification for Item-12 in Lot-2 , <i>Discrete Component Trainer</i> .	No Change in Specifications
5.	It is requested to clarify the specification for Item-17 in Lot-2 , <i>Function Generator</i> .	No Change in Specifications
6.	It is requested to clarify the specification for Item-18 in Lot-2 , <i>Function Generator</i> .	No Change in Specifications

No Change in Specifications
No Change in Specifications
Following text "Sensor Kit with Min. following components: Mounting Plate Power Distribution Box Counter Box Indication Box Material Box Inductive Sensor Capacitive Sensor Magnetic Sensor Ultrasonic Sensor Connecting Wires Motor with Control Unit" stands amended as "Sensor Kit with Min. following components with Min.: Mounting Plate Power Distribution Box: 24V DC, 4A Counter Box: 10-30V DC/0.05A Indication Box: 24V Dc Material Box Inductive Sensor: 10-30 V DC, PNP, NO, 5mm (Range) Capacitive Sensor: 10-30 V DC, PNP, NO, 2-8mm (Range) Magnetic Sensor: 10-60 V DC, PNP, NO, 60mm (Range) Ultrasonic Sensor: 20-30 V DC, PNP, NO, 80-300mm (Range) Ultrasonic Sensor: 20-30 V DC, PNP, NO, 80-300mm (Range) Connecting Wires Motor with Control Unit: 24V DC,1A" Rest of the specifications remained unchanged.

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10.	It is requested to clarify the specification for Item-39 in Lot-2 , <i>Sensor Trainer Kit</i> .	No Change in Specifications
11.	It is requested to clarify the specification for Item-42 in Lot-2 , Signal Generator with Digital Display for Frequency Amplitude.	Following text " • Wide Frequency Range: 20 MHz - 20MHz" Stands amended as "• Wide Frequency Range: 10 Hz - 100 KHz" Rest of the specifications remained unchanged.
12.	It is requested to clarify the specification for Item-46 in Lot-2 , <i>Wheat Stone Bridge</i> .	No Change in Specifications
13.	It is requested to clarify the specification for Item-1 in Lot-3 , 0-30 V, 2 Amp, Regulated DC Power Supply.	No Change in Specifications
14.	It is requested to clarify the specification for Item-2 in Lot-3 , 3- Point D.C. Starter.	No Change in Specifications
15.	It is requested to clarify the specification for Item-3 in Lot-3 , <i>4- Point D.C. Starter</i> .	No Change in Specifications
16.	It is requested to clarify the specification for Item-22 in Lot-3 , Ammeter 300A/ 60A DC with external shunt.	No Change in Specifications
17.	It is requested to clarify the specification for Item-23 in Lot-3 , Ammeter 300A/ 60A DC with external shunt.	No Change in Specifications
18.	It is requested to clarify the specification for Item-24 in Lot-3 , Ammeter 300A/ 60A DC with external shunt.	No Change in Specifications
19.	It is requested to clarify the specification for Item-25 in Lot-3 , Ammeter DC with external shunt.	No Change in Specifications
20.	It is requested to clarify the specification for Item-55 in Lot-3 , DC Regulated Variable Programmable DC Power Supply 0 - 30V / 3A.	No Change in Specifications

SI. NO.	Query raised by prospective bidders	Clarification by DOTE
21.	It is requested to clarify the specification for Item-69 in Lot-3 , <i>Dimmer starter</i> .	No Change in Specifications
22.	It is requested to clarify the specification for Item-71 in Lot-3 , Dual DC regulated power supply.	No Change in Specifications
23.	It is requested to clarify the specification for Item-73 in Lot-3 , <i>ELCB and RCCB</i> .	No Change in Specifications
24.	It is requested to clarify the specification for Item-100 in Lot-3 , <i>Magnetic Flux</i> .	No Change in Specifications
25.	It is requested to clarify the specification for Item-1 in Lot-4 , <i>A.C. Series type Motor.</i>	No Change in Specifications
26.	It is requested to clarify the specification for Item-2 in Lot-4 , AC 3 Phase motor with control panel.	No Change in Specifications
27.	It is requested to clarify the specification for Item-3 in Lot-4 , AC Motor Trainer Kit ¼ HP motor, Single Phase Contactors, Relays, MCB, DOL Starter.	No Change in Specifications
28.	It is requested to clarify the specification for Item-5 in Lot-4 , AC Squirrel Cage Motor with Mechanical Load along with control panel.	No Change in Specifications
29.	It is requested to clarify the specification for Item-11 in Lot-4 , Capacitor start induction motor.	No Change in Specifications
30.	It is requested to clarify the specification for Item-14 in Lot-4 , <i>D.C. Compound Generator with AC Motor along with control panel.</i>	No Change in Specifications
31.	It is requested to clarify the specification for Item-15 in Lot-4 , <i>D.C. Shunt Generator with AC Motor along with control panel.</i>	No Change in Specifications
32.	It is requested to clarify the specification for Item-25 in Lot-4 , <i>Generator (DC to AC) set.</i>	Appendix-N. The following Text "

SI. NO.	Query raised by prospective bidders	Clarification by DOTE
		"Further, Suitable Electrical loading arrangement shall be provided for DC/AC generators for performing experiments." Stands inserted.
33.	It is requested to clarify the specification for Item-26 in Lot-4 , <i>Motor-Generator (AC to DC) along with Control Panel.</i>	Appendix-N. The following Text " "Further, Suitable Electrical loading arrangement shall be provided for DC/AC generators for performing experiments." Stands inserted
34.	It is requested to clarify the specification for Item-27 in Lot-4 , Oil Testing Kit.	Following text "• Output: Continuously variable from 0 to 50 Kv or 0 to 60 Kv, or 0 to 100 Kv • Capacity: Min. 60 VA" Stands amended as "• Output: Continuously variable from 0 to 50 Kv • Capacity: Min. 500 VA"
35.	It is requested to clarify the specification for Item-28 in Lot-4 , <i>Over Current Relay</i> .	No Change in Specifications
36.	It is requested to clarify the specification for Item-29 in Lot-4 , Single Phase 220 V Capacitor type AC Meter squirrel cage Induction motor.	No Change in Specifications
37.	It is requested to clarify the specification for Item-32 in Lot-4 , Split phase induction motor with Control panel.	No Change in Specifications
38.	It is requested to clarify the specification for Item-36 in Lot-4 , Three Phase 50 Hz, 5 HP AC squirrel cage induction motor with star delta starter.	No Change in Specifications
39.	It is requested to clarify the specification for Item-40 in Lot-4 , <i>Universal Motor along with control panel</i> .	No Change in Specifications
40.	It is requested to clarify the specification for Item-8 in Appendix – C , Variac for field and armature.	No Change in Specifications
41.	It is requested to clarify the specification for Item-8 in	No Change in Specifications

SI. NO.	Query raised by prospective bidders	Clarification by DOTE
	Appendix – D , Variac for field and armature.	
42.	It is requested to clarify the specification for Item-1 in Appendix – D , <i>4-point starter for DC Motor</i> .	No Change in Specifications
43.	It is requested to clarify the specification for Item-6 in Appendix – F , <i>HRC fuses Bakelite</i> type base.	No Change in Specifications
44.	It is requested to clarify the specification for Item-8 in Appendix – G , <i>HRC fuses Bakelite</i> type base.	No Change in Specifications
45.	It is requested to clarify the specification for Item-7 in Appendix – H , (AC side) RPM Meter	No Change in Specifications
46.	It is requested to clarify the specification for Item-6 in Appendix – H , (AC side) <i>HRC</i> fuses Bakelite type base	No Change in Specifications
47.	It is requested to clarify the specification for Item-5 in Appendix – I , Frequency Meter	Frequency meter is needed "for supply frequency"
48.	It is requested to clarify the specification for Item-7 in Appendix – J , HRC fuses Bakelite type base	No Change in Specifications
49.	It is requested to clarify the experiments to be performed on Electrical Machine Trainer and	The Trainer shall be suitable for demonstrating construction, functioning of machines mentioned in specifications.
	Generator set up in Appendix – K	Minimum experiments to be performed are as follows:
		For Motors:
		Speed torque curves of all the Motors. Further, speed torque curves for Induction motor with rotor shorted & with different rotor resistance, and with DOL/star delta starters. Application of Synchronous motors as PF improvement. Also, Running characteristics, No-Load Test, Blocked Rotor, Load Test, Measurement of Slip in a case of Induction Motor.
		For generators:

SI. NO.	Query raised by prospective bidders	Clarification by DOTE
		Its Operational Working Principle
		short circuit characteristics
		open circuit characteristics
		Study and measure of voltage regulation Etc.
50.	It is requested to clarify the specification for Item-5 in Appendix – L , (AC side) <i>HRC fuses Bakelite type base</i>	No Change in Specifications
51.	It is requested to clarify the specification for Item-6 in Appendix – L , (AC side) <i>RPM Meter</i>	No Change in Specifications
52.	It is requested to clarify the specification for Item-5 in Appendix – M , <i>HRC fuses Bakelite</i> type base	No Change in Specifications
53.	53. It is requested to clarify the specification for <i>Control Panel Board</i> in Appendix – N.	The Following Text
		" Control panel board shall consist of high grade FRP material or better material in compliance with relevant IS/IEC safety standards."
		Stands amended as
		"Control panel board shall consist of high grade FRP or better material in compliance with IS 302 or IEC60335 or equivalent IS /IEC safety standards."
		The following Text: "The Electrical Control Panel dimensions: Minimum size of size Length = 900 mm; Depth = 250 mm; Height = 750 mm." stands amended as
		"The Electrical Control Panel dimensions: Minimum size of size Length = 900 mm; Depth = 250 mm; Height = 750 mm. However, for a standard manufactured product of standardized size, bidder to provide test reports complying IS/IEC safety standards."
54.	It is requested to clarify the specification for Item-11 in Appendix – K , <i>DC compound Generator of 1 KW, separately excited with field variac coupled</i>	Appendix- K point no. 11 text "DC compound Generator of 1 KW, separately excited with field variac coupled with Suitable AC motor."
	with Suitable AC motor.	Stands amended as

SI. NO.	Query raised by prospective bidders	Clarification by DOTE
		"DC Shunt Generator of 1 KW, separately excited with field variac coupled with Suitable AC motor."
55.	It is requested to clarify the specification for Item-54 in Lot – 1 , <i>UPS Trainer kit</i>	No Change in Specifications/Lot
56.	It is requested to clarify the specification for Item-1 in Lot – 2 , 20 MHz Dual Trace Oscilloscope	No Change in Specifications/Lot. Please refer to the note below.
57.	It is requested to clarify the specification for Item-29 in Lot – 2 , 20 MHz Dual Trace Oscilloscope	No Change in Specifications/Lot Please refer to the note below.
58.	It is requested to clarify the specification for Item-5 in Lot – 2 , <i>C.R.O Dual trace/ Double beam</i>	No Change in Specifications/Lot. Please refer to the note below.
59.	It is requested to clarify the specification for Item-26 in Lot – 2 , <i>Multi Scan Tool with oscilloscope</i>	No Change in Specifications/Lot
60.	It is requested to clarify the specification for Item-27 in Lot – 2 , <i>Multi Scan Tool with oscilloscope</i>	No Change in Specifications/Lot
61.	It is requested to clarify the specification for Item-31 in Lot – 2 , <i>PCI Slot Testing Tool</i>	No Change in Specifications/Lot
62.	It is requested to clarify the specification for Item-32 in Lot – 2 , <i>PCI slot Testing tool</i>	No Change in Specifications/Lot
63.	It is requested to clarify the specification for Item-33 in Lot – 2 , <i>Post error debugging card</i>	No Change in Specifications/Lot
64.	It is requested to clarify the specification for Item-41 in Lot – 3 , <i>BLDC motor with controller</i>	No Change in Specifications/Lot
65.	It is requested to clarify the specification for Item-97 in Lot – 3, <i>LED lighting system</i>	No Change in Specifications/Lot
66.	It is requested to clarify the specification for Item-127 in Lot – 3 , Reverse current Relay	No Change in Specifications/Lot
67.	It is requested to clarify the specification for Item-142 in Lot – 3 , Solar panel with Battery	No Change in Specifications/Lot

SI. NO.	Query raised by prospective bidders	Clarification by DOTE
68.	It is requested to clarify the specification for Item-165 in Lot – 3 , <i>Under Voltage Relay</i>	No Change in Specifications/Lot
69.	It is requested to clarify the specification for Item-19 in Lot – 4 , <i>Diesel Generator set</i>	No Change in Specifications/Lot
70.	It is requested to clarify the specification for Item-20 in Lot – 4 , Dual Magnetization Yoke	No Change in Specifications/Lot
71.	It is requested to clarify the specification for Item-21 in Lot – 4 , <i>Dual Magnetization Yoke</i>	No Change in Specifications/Lot

Note: Bidders may refer Section 1 ITB Clause 18.2 and 18.3 for further deviation and improvement in specifications.

Date:03/07/2019

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Director