

**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: Upgradation of workshops with industrial class/ latest training methodology equipments for Industrial Training Institutes to enhance Technical and Vocational Skills among the youth of Himachal Pradesh: **HPSDP-DOTE/13**, comprising of following lots:

Lot-1: CNC and related machinery

Lot-2: Simulation hardware and software

Invitation for Bids No.: 009/2019; Dated: 04/10/2019

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: 23rd October 2019 at 11:30 am.

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

Sl. NO.	Query raised by prospective bidders	Clarification by Technical committee
1.	<p>It is requested to clarify the specification for Item- 1 in Lot-1: 2 Axis CNC turning Centre: -</p> <p>Further clarify:</p> <p>2.a. Spindle nose,</p> <p>3.e. Rapid traverse- X & Z</p> <p>3.i. Ball screw - Z & X axes (diameter x pitch)</p> <p>3.n. Guideway precision - Z & X axes</p> <p>4.c. Tool shank size</p> <p>5.a. Quill Diameter</p> <p>5.c. Quill taper</p> <p>7.c. Geometrical Alignment</p> <p>7.d. Accuracy of finish test piece</p> <p>8.a. Control System</p> <p>8.g. CNC features</p>	<p>The part of the specifications has been clarified by the committee as under:</p> <p>2.a. Text "A2-4 / A2-5" stands amended as "A2-4/A2-5/Flat 110"</p> <p>3.e. Text "20m/min" stands replaced with "15m/min"</p> <p>3.i. Text "25 x 10 or higher" stands amended as "25 X 5mm or higher"</p> <p>8.a. Text "FANUC /Siemens" stands amended as "FANUC /Siemens (Latest version & model to be specified)".</p> <p>8.g. Text "Interfacing: USB and SD card" stands amended as "Interfacing: USB/SD card/PCMCIA card"</p> <p>Text "Safety Feature: (Accident proof, Emergency stop) prevent from dynamic & static collision" stands inserted.</p> <p>Rest of the specifications remains the same.</p>

Sl. NO.	Query raised by prospective bidders	Clarification by Technical committee
2.	<p>It is requested to clarify the specification for Item- 3 in Lot-1</p> <p>Item name: CNC Lathe</p> <p>Further clarify:</p> <p>2: Spindle</p> <p>5.a. Positioning accuracy for X, Y & Z axes</p> <p>5.b. Repeatability for X, Y & Z axes</p> <p>6.a. Control System</p> <p>6.d. CNC features</p> <p>Tailstock details, turning diameter and turning length, bed angle, turret details to be provided.</p>	<p>The part of the specifications has been clarified by the committee as under:</p> <p>2. Text "Spindle Nose: A2-4/A2-5/ Flat 110 Spindle bore: 50 mm or higher Spindle power (continuous): 5.5 KW or higher Minimum spindle speed @ full power: 1200rpm or higher" stands inserted.</p> <p>5.a. Text "Positioning accuracy for X, Y & Z axes" stands amended as "Positioning accuracy for X & Z axes".</p> <p>5.b. Text "Repeatability for X, Y & Z axes" stands amended as "Repeatability for X & Z axes".</p> <p>6.a. Text "FANUC /Siemens" stands amended as "FANUC /Siemens (Latest version & model to be specified)".</p> <p>6.d. Text "Interfacing: USB and SD card" stands amended as "Interfacing: USB/SD card/PCMCIA card".</p> <p>Text "Safety Feature: (Accident proof, Emergency stop) prevent from dynamic & static collision" stands inserted.</p> <p>Text "Quill Dia : 65 mm or higher Quill stroke : 100 mm or higher Quill taper : MT-4 or Higher Quill actuation : Hydraulic type Tail stock travel : 150 mm or higher Thrust : 300 KGF or higher" Turning diameter: 200mm or higher Turning length: 240mm or higher Bi-Directional Tool Turret: Electromechanical/Servo/Hydraulic No. of Tools: 8 or higher Tool shank size: 25mm x 25mm or higher Maximum boring bar diameter: 35mm or higher Bed angle: Inclined bed to be provided at 30⁰ to horizontal or higher" stands inserted.</p> <p>Rest of the specifications remains the same.</p>

Sl. NO.	Query raised by prospective bidders	Clarification by Technical committee
3.	<p>It is requested to clarify the specification for Item- 4 in Lot-1</p> <p>Item name: CNC Vertical Machining Centre</p> <p>Further clarify:</p> <p>1.b. Max. load on table</p> <p>2.a. Spindle nose</p> <p>2.c. Maximum spindle speed</p> <p>2.d. Spindle power, continuous</p> <p>2.e. Type of drive</p> <p>4.a. Number of tool pockets</p> <p>4.b. Max tool diameter</p> <p>6.a. Control system</p> <p>6.g. CNC Features</p>	<p>The part of the specifications has been clarified by the committee as under:</p> <p>6.a. Text "FANUC /Siemens" stands amended as "FANUC /Siemens (Latest version & model to be specified)".</p> <p>6.g. Text "Interfacing: USB and SD card" stands amended as "USB/SD card/PCMCIA card".</p> <p>Text "Safety Feature: (Accident proof, Emergency stop) prevent from dynamic & static collision" stands inserted.</p> <p>Rest of the specifications remains the same.</p>
4.	<p>It is requested to clarify the specification for Item- 1 in Lot-2</p> <p>Item name: Simulator</p> <p>Further clarify:</p> <p>Built in machining calculator, Built in USB port 2 no, Min 15" size LCD colour Monitor with soft keys, Compatible with smart board connectivity.</p> <p>Guide way precision - Z & X axes</p> <p>Class to be changed from P to H</p>	<p>The part of the specifications has been clarified by the committee as under:</p> <p>Text" Built in machining calculator, Built in USB port 2 no, Min 15" size LCD colour Monitor with soft keys, Compatible with smart board connectivity" stands amended as</p> <p>"Built in machining calculator (optional), Built in USB port 1 no, suitable colour Monitor with soft keys, Compatible with smart board/projector connectivity".</p> <p>Text "PCMCIA card" stands inserted.</p> <p>Rest of the specifications remains the same.</p>
5.	<p>It is requested to clarify the column "Installation & Training" in section 6 for Item no- 1,2,3 & 4 in Lot-1 & Item no-1 in Lot-2</p>	<p>The part of the specifications has been clarified by the committee as under:</p> <p>Text "To be installed at the specified institute in Himachal Pradesh. All costs involved for Installation including Civil work to be borne by the supplier. Training as required by the faculty to be provided at the place of Installation for duration as required."</p> <p>Stands Amended as</p>

Sl. NO.	Query raised by prospective bidders	Clarification by Technical committee
		"To be installed at the specified institute in Himachal Pradesh. All costs involved for Installation including Civil work to be borne by the supplier. Training support for the period of one year to be provided at the designated Institute after final Installation of the machine". Rest of the specifications remains the same.

Dated:06/11/2019

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Director