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## AMENDMENT NR.1

**Date:** 21 January 2020

**Subject:** Amendment Nr.1 to Invitation to Bid (ITB) for “*Procurement of CNC Lathe Machine and CNC Vertical Milling Machine For Izmir SME Capability and Digital Transformation Center*” within the scope of “Turkey Resilience Project in Response to the Syria Crisis-C1: Job Creation” issued on 08 January 2020.

**Ref:** UNDP-TUR-ITB(MC1)-2020/01

Dear Madam/Sir,

In relation to subject ITB issued on 08 January 2020 for “*Procurement of CNC Lathe Machine and CNC Vertical Milling Machine For Izmir SME Capability and Digital Transformation Center*” within the scope of “Turkey Resilience Project in Response to the Syria Crisis-C1: Job Creation”, please find attached two components of this Amendment Nr.1;

Attachment-1: Revisions in Section 5a: Schedule of Requirements and Technical Specifications and Section 5b: Other Related Requirements of the ITB Document,

Attachment-2: Revised Technical Compliance Table (Section 2.1.) within Form E: Format of Technical Bid

You are kindly requested to prepare and submit your bids in response to our subject ITB with the consideration of this attachment, with all other clauses of the ITB remaining valid.

Please make sure that you submit your bid **via eTendering System** latest by **January 29, 2020 06:00 am -EST/EDT New York Time** (**January 29, 2020 14:00 pm-Turkey Local Time**).

Yours Sincerely,

UNDP Turkey Country Office

**ATTACHMENT-1: Revisions in Section 5a: Schedule Of Requirements and Technical Specifications and Section 5b: Other Related Requirements of the ITB Document**

Please be kindly informed that following changes have been made within Section 5a: Schedule of Requirements and Technical Specifications and Section 5b: Other Related Requirements of the ITB Document.

<b>Clause Nr.</b>	<b>Clause in the Original ITB</b>	<b>Revised Clause</b>
“Section 5a: Schedule of Requirements, Item 2: CNC Vertical Milling Machine”	1.17. Weight: max. 8.000 kg <i>1.17. Ağırlık: max. 8.000 kg.</i>	1.17. Weight: max. <b>6.000</b> kg <i>1.17. Ağırlık: max. <b>6.000</b> kg.</i>
“Section 5b: Other Related Requirements”	Exact Address of Turnkey Delivery:  Aegean Region Chamber of Industry (EBSO), Cumhuriyet Bulvarı No:63, 35210 İzmir/TURKEY (another address within the İzmir metropolitan area may be determined by EBSO, in that case machines will be delivered to that address). Transportation of machines to the delivery address shall be included in the bid price. No payment will be made separately for transportation of machines.	<b>Exact Address of Turnkey Delivery:</b>  <b>Ege Caddesi No: 39/3 Sarnıç Gaziemir İzmir/TURKEY.</b> Transportation of machines to the delivery address shall be included in the bid price. No payment will be made separately for transportation of machines.
“Section 5b: Other Related Requirements”	<b>Digitalization Requirements:</b>  The CNC machines shall be suitable for data connection using MODBUS or PROFINET communication protocols. The data that should be provided include minimum;  - Cycle Time, - Start Time - End Time - Spindle Speed - X,Y,Z axis speed  The bidders shall guarantee that, if they are awarded the contract, they will provide technical information	<b>Digitalization Requirements:</b>  The CNC machines shall be suitable for data connection using MODBUS or PROFINET communication protocols. The data that should be provided include minimum;  - Cycle Time, - Start Time - End Time - Spindle Speed - X,Y,Z axis speed  - <b>Cooling Water Quantity,</b> - <b>Vibration,</b>

	<p>support to UNDP free of charge (if needed) during installation of sensors to the machines. The digitalization works will be conducted under a separate procurement process after the delivery and installation of CNC machines.</p>	<p><b>- Inside Temperature and Humidity,</b></p> <p><b>- Power Analyser</b></p> <p>The bidders shall guarantee that, if they are awarded the contract, they will provide technical information support to UNDP free of charge (if needed) during installation of sensors to the machines. The digitalization works will be conducted under a separate procurement process after the delivery and installation of CNC machines.</p> <p><b>Before installation of sensors, the Contractor will be asked to review and approve the installation project of the company who will install sensors to CNC machines to be procured by this ITB.</b></p>
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**ATTACHMENT-2:** Revised Technical Compliance Table (Section 2.1.) within Form E: Format of Technical Bid

**2.1 Technical Compliance Table**

Bidders shall fill out below table by indicating the Brand Name and Model Number of the product offered and confirm conformance of the product with the technical requirements listed in below table.

**Product brochures and/or catalogues shall be submitted.**

#	Description/Specifications of the item to be supplied	Your Offer ( <u>Please confirm conformance with the required technical specifications and indicate if there is any deviation from the required technical specifications</u> )
<b>1</b>	<b>CNC LATHE MACHINE (Quantity = 1)/ CNC TORNA TEZGAHI (1 adet)</b>	<b>Indicate Brand Name and Model Number:</b>
1.1	Maximum Swing Diameter: 520 mm	
1.2	Maximum Turning Diameter: 340 mm	
1.3	Maximum Turning Length: 450 mm	
1.4	Stroke X/Z: X: 150 mm-200 mm; Z: 200-515 mm.	
1.5	Rapid Speed X/Z: X: 15-36 m/min; Z: 24-60 m/min	
1.6	Spindle Max Speed: 6.000 rpm	
1.7	Spindle Chuck Size: 150-210 mm.	
1.8	Spindle Motor Power: 10-15 kW.	
1.9	Spindle Torque: max 190 Nm.	
1.10	Tailstock Quill Diameter: 60-80 mm.	
1.11	Tailstock Tape: MK-4	
1.12	Tailstock Body Travel: 150-550 mm	
1.13	Turret Number of Tools: 8-12.	
1.14	Maximum Turning Bar Diameter: 40 mm.	
1.15	Turret C Axis Speed: max 6.000 rpm	
1.16	Turret C Axis Motor Power: 2,2-3,7 kW.	
1.17	Weight: max. 4.000 kg	
1.18	Hydraulic Tank Capacity: min 60 lt..	
1.19	Dimensions: Length: max. 2,6 mt Width: max. 2,4 mt. Height: max. 2,0 mt.	
1.20	Drawtube Capacity Diameter: 43-53 mm	
1.21	Control System: Siemens, Fanuc or Mitsubishi CNC Control Unit.	
1.22	Standard Accessories (included in the bid price): Chip conveyor, chip carriage, alarm system, hydraulic chuck system, min 15"LCD graphic display, dialog programming, linear guideway, toolholder and all other standard	

		accessories specified in the product catalogs.	
	1.23	The machine shall be new and unused.	
	1.24	The model year of the machine shall be either 2019 or 2020.	
	1.25	Delivery and installation shall be completed, and the machine shall be in a proper working condition and ready for the inspection <b>within 90 calendar days after signature of the contract</b> by UNDP and the Contractor.	
	1.26	Minimum 2 years of manufacturer's guarantee period against any part or labor related faults is required.	
	1.27	The Contractor and manufacturer/distributor shall guarantee after sales service and spare parts supply during the economic life of machines.	
	1.28	Following installation, training will be given to users. Training will be included in the bid price.	
	1.29	<p>The CNC machines shall be suitable for data connection using MODBUS or PROFINET communication protocols. The data that should be provided include minimum;</p> <ul style="list-style-type: none"> <li>- Cycle Time,</li> <li>- Start Time</li> <li>- End Time</li> <li>- Spindle Speed</li> <li>- X,Y,Z axis speed</li> <li>- Cooling Water Quantity,</li> <li>- Vibration,</li> <li>- Inside Temperature and Humidity,</li> <li>- Power Analyser</li> </ul> <p>The bidders shall guarantee that;</p> <p>if they are awarded the contract, they will provide technical information support to UNDP free of charge (if needed) during installation of sensors to the machines.</p> <ul style="list-style-type: none"> <li>- Before installation of sensors, they will review, provide feedback and approve the installation project of the company who will install sensors to CNC machines to be procured by this ITB.</li> </ul>	

#	Description/Specifications of the item to be supplied	Your Offer ( <b><u>Please confirm conformance with the required technical specifications and indicate if there is any deviation from the required technical specifications</u></b> )
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1	CNC VERTICAL MILLING MACHINES (Quantity = 2)/ <i>CNC DİKEY İŞLEME TEZGAHI (2 adet)</i>	Indicate Brand Name and Model Number:
1.1	Stroke X/Y/Z: X: 600 mm-850 mm; Y: 400-530 mm; Z: 400-560 mm	
1.2	Table Size: max. 1.020 mm x 540 mm	
1.3	Spindle Nose to Table: 100-710 mm	
1.4	Table Loading Weight: max 750 kg.	
1.5	T Slot: max 18x5x100 mm	
1.6	Feedrate XYZ: min 30 m/min	
1.7	Spindle Speed: 8.000-12.000 rpm	
1.8	Spindle Motor Power: 5,5-17 kW.	
1.9	Spindle Torque: max 108 Nm.	
1.10	Spindle Center to Column Surface: max 610 mm.	
1.11	Tool Diameter: max 150 mm	
1.12	Tool Length: max 300 mm	
1.13	Tool Weight: max 8 kg.	
1.14	Power Source: max 15 kW	
1.15	Coolant Pump Power: max 0,80 kW	
1.16	Tool Storage Capacity: 16-32.	
1.17	<b>Weight: max. 6.000 kg</b>	
1.18	Dimensions: Length: max. 3,0 mt Width: max. 2,8 mt. Height: max. 3,0 mt.	
1.19	Dimensions: Length: max. 2,6 mt Width: max. 2,4 mt. Height: max. 2,0 mt.	
1.20	Control System: Siemens, Fanuc or Mitsubishi CNC Control Unit.	
1.21	Standard Accessories (included in the bid price): Chip conveyor, chip carriage, alarm system, min 15"LCD graphic display, dialog programming, linear guideway, tools-toolbox, coolant equipment, lubrication equipment, lighting equipment and all other standard accessories specified in the product catalogs	
1.22	The machines shall be new and unused.	
1.23	The model year of the machines shall be either 2019 or 2020.	
1.24	Delivery and installation shall be completed, and the machines shall be in a proper working condition and ready for the inspection <b>within 90 calendar days after signature of the contract</b> by UNDP and the Contractor.	
1.25	Minimum 2 years of manufacturer's guarantee period against any part or labor related faults is required.	
1.26	The Contractor and manufacturer/distributor shall guarantee after sales service and	

		spare parts supply during the economic life of machines.	
	1.27	Following installation, training will be given to users. Training will be included in the bid price.	
	1.28	<p>The CNC machines shall be suitable for data connection using MODBUS or PROFINET communication protocols. The data that should be provided include minimum;</p> <ul style="list-style-type: none"> <li>- Cycle Time,</li> <li>- Start Time</li> <li>- End Time</li> <li>- Spindle Speed</li> <li>- X,Y,Z axis speed</li> <li>- <b>Cooling Water Quantity,</b></li> <li>- <b>Vibration,</b></li> <li>- <b>Inside Temperature and Humidity,</b></li> <li>- <b>Power Analyser</b></li> </ul> <p>The bidders shall guarantee that;</p> <ul style="list-style-type: none"> <li>- if they are awarded the contract, they will provide technical information support to UNDP free of charge (if needed) during installation of sensors to the machines.</li> </ul> <p><b>- Before installation of sensors, they will review, provide feedback and approve the installation project of the company who will install sensors to CNC machines to be procured by this ITB.</b></p>	