

QATAR SCIENTIFIC CLUB
TC/CNC/01/2019 Purchase of CNC 4 Axis Machine
TITLE: INSTRUCTIONS TO TENDERERS

INSTRUCTIONS TO TENDERERS & TECHNICAL SPECIFICATION

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1. Training of Personnel:

The supplier shall provide the technical training to the personnel involved in the use of the equipment at the QSC premises, immediately after completing the installation of the equipment at the company cost.

2. Site Preparation:

The supplier shall inform to the QSC about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter. The supplier shall visit the QSC and see the site whether the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

3. Guarantee / Warranty:

Two-year warranty has to be provided by the firm from the date of the satisfactory installation / commissioning of equipment against the defect of any manufacturing, workmanship and poor quality of components. In case, there is any variation in the warranty as per the specification of the item equipment, the warranty as specified in the specifications shall be final.

4. Country of origin:

Country of origin of the quoted item should be mentioned in the offer in case of imported item

5. Familiarization with the Laws of Qatar:

Before submitting a Bid, the Bidder shall thoroughly familiarize itself with the laws, particularly Qatar Labour Laws applicable to the work or services to be performed. By submitting a Tender, The Bidder is deemed to have made the necessary allowances in the Bid price adhering to all laws regulations and procedures applicable to the State of Qatar.

6. Queries:

Any queries relating to the Tender Documents or Bid submission must not be raised by personal contact but must be submitted in *Writing*, preferably by email or fax, to the following address:

Qatar Scientific Club
Email: info@qsc.org.qa
P. O. Box 9769, Doha, Qatar
Fax : (+974) 44691900
Tel : (+974) 44696200

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7. Ruling Language

The Bid and all accompanying documents are to be in the English language.

8. Bid Rates

All Bid prices and rates shall be in Qatari Riyals. Prices and rates shall be entered in indelible ink. Prices and rates shall be submitted only on the pricing *schedule* sheets included in the Tender documents.

9. Submission of Bids

The Bid and accompanying documents shall be bound securely together and enclosed in a wax sealed envelope and shall be delivered to:

Qatar Scientific Club (Messaimer Wholesale Market St)
P. O. Box 9769
Fax : (+974) 44691900
Tel : (+974) 44696200
Doha, QATAR

(Not later than 06:00 PM on the closing date of Tender)

10. TECHNICAL SPECIFICATION COMPLIANCE

Note: Supplier MUST provide the model number of their product in the cover letter which complies with the tender specifications and an original printed manual of the same shall be submitted with the bid. Bidders should highlight the features in the printed manual using color text liner/manually mark which complies with the tendered specifications.

11. SPECIFICATION:

Specifications for CNC Vertical Machining Center

TRAVELS	METRIC
X Axis	1300 mm
Y Axis	550 mm
Z Axis	650 mm
Spindle Nose to Table (~ max)	750mm
Spindle Nose to Table (~ min)	107 mm
TABLE	METRIC
Length	1350 mm
Width	460 mm
T-Slot Width	16 mm
T-Slot Center Distance	80 mm

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Number of Std T-Slots	10
Max Weight on Table (evenly distributed)	1588 kg
SPINDLE	METRIC
Max Rating	22.4 kW
Max Speed	10000 rpm
Max Torque	122 Nm @ 2000 rpm
Drive System	Inline Direct-Drive
Max Torque w/opt Gearbox	339 Nm @ 450 rpm
Taper	BT or CT 40
Bearing Lubrication	Air/Oil Injection
Cooling	Liquid Cooled
FEEDRATES	METRIC
Rapids on X	25.4 m/min
Rapids on Y	25.4 m/min
Rapids on Z	25.4 m/min
Max Cutting	16.5 m/min
AXIS MOTORS	METRIC
Max Thrust X	11343 N
Max Thrust Y	11343 N
Max Thrust Z	18238 N
TOOL CHANGER	METRIC
Type	SMTC
Capacity	30+1
Max Tool Diameter (full)	64 mm
Max Tool Weight	5.4 kg
Tool-to-Tool (avg)	2.8 sec
Chip-to-Chip (avg)	3.6 sec
GENERAL	METRIC
Air Required	113 L/min, 6.9 bar
Coolant Capacity	208 L

12. Other Terms and Conditions:

- a. The structure of the machine should be rigid and free from vibration for smooth machining.
- b. The machine should be equipped with a coolant tank, chip tray, automatic lubrication system, counterbalance unit for Z-axis, machine lamp (preferably 3-tier), air gun, coolant gun and ring coolant around a spindle.
- c. The machine should be supplied and fitted with all electrical items and necessary mechanical attachments to carryout work immediately. 4. The bidder is required to quote for standard & optional essential mechanical and electrical spares and consumables.
- d. The bidder shall clearly