



CENTRAL TOOL ROOM, LUDHIANA

Ministry of Micro Small & Medium Enterprises

Government of India

केन्द्रीय टूल रूम

सुक्ष्म, लघु एवं मध्यम उद्योग मंत्रालय.

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IMPORTANT: TENDERERS SHOULD READ THE TENDER PAPERS CAREFULLY; SUBMISSION OF TENDER SHALL MEAN THAT THE TENDERER HAS READ AND UNDERSTOOD ALL THE TERMS AND CONDITIONS OF THE TENDER AND AGREES AND BINDS HIMSELF/THEMSELVES TO THE SAME. ALL PAGES OF THE TENDER DOCUMENTS SHOULD BE SIGNED BY THE TENDERER(S) AND RETURNED WITH THE TENDER.

TENDER NO: CTR/LDH/1810/Mach/2017-127

DUE ON : 27.11.2017

DATED: 06.10.2017

AT: 02:00 p.m.

PART – I

INVITATION OF TENDER

From: The General Manager.
Central Tool Room
A-5, Focal Point
Ludhiana-141 010
India.

To :

- 1.0 Sealed Tender for “**Universal Cylindrical Grinding Machine**” as per specifications given in the attached Schedule (Part-III) are invited by the General Manager, Central Tool Room, Ludhiana, India (hereinafter called the “Tool Room and/or the Purchaser”). The tenders shall be received up to 02.00 p.m. on 27.11.2017 and shall be opened in the presence of intending tenderers at 3:00 p.m. on the next day i.e. 28.11.2017. Tenders received late will not be accepted. Tenders should be accompanied by interest free Earnest Money of an amount of Rs. 36,000/- (Rupees thirty six thousand only) in the form of Demand Draft / Bank Guarantee in favour of “Central Tool Room Ludhiana” payable at Ludhiana. Tenders without Earnest Money or bank guarantee in lieu thereof will not be accepted. Tenderers registered with DGS&D and/or NSIC for machine/equipment/goods mentioned in Part-III are exempted from depositing Earnest Money and Security Deposit on submission of proof of registration, alongwith the tender.

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- 2.0 Tenders must be submitted only on on-line on www.eprocure.gov.in portal before the stipulated date and time.
- 3.0 All pages of this tender document are to be signed and submitted with tender.
- 4.0 The tenders should be valid for acceptance for a period of 90 days from the date of tender opening (due date). It is understood the tenderers are being permitted to tender in consideration of the stipulation on their part that after submitting their tenders they will not resile from their offer(s) or modify the terms and conditions thereof. If the equipment tendered deviates from tender specifications, a deviation statement should be enclosed with the tender. If there is no deviation "Nil Deviation" confirmation should be enclosed with the tender.
- 5.0 a) If you are a firm (i.e. if you have a Partner or partner(s), the authorized partner holding the Power of Attorney must sign each page of tender. A copy of the partnership agreement should be enclosed. A copy of the Power of Attorney duly executed in his favour authorizing him to bind the firm in all matters pertaining to the contract, including the submission of any dispute relating to business of the firm to arbitration, should be attached to the tender. Original documents are to be shown if and/or when required.
- b) If you are not a firm, the following certificate is to be attached to the tender:
- "I certify that I am the sole proprietor and there are no other partner doing business jointly with me."
- c) In case of the limited company, tender documents should be signed by the managing director and the following certificate should be attached to the tender:
- "I certify that I am the managing director and I hold the power of attorney executed in accordance with the Articles of Association of the Company to sign all the documents on behalf of the company."
- d) THE REQUISITE CERTIFICATE AS PER (a), (b) OR (c) ABOVE, CURRENT INCOME TAX CLEARANCE CERETIFICATE AND CERTIFICATE OF REGISTRATION WITH DGS&D OR NSIC, IF APPLICABLE, ARE TO BE ENCLOSED WITH PART "A" OF THE TENDER.
- 6.0 The Tool Room reserves the right to reject any or all offers without assigning any reason whatsoever. The Tool Room also reserves the right to accept any tender in whole or in part without assigning any reason whatsoever. The successful tenderer shall be notified of the acceptance of the tender and till such intimation is received, tenderer(s) should not make any arrangement or incur any expenditure in anticipation of the receipt of notice of acceptance of the tender.
- 7.0 Machine are to be installed and used at Central Tool Room, Ludhiana
-

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Other conditions of the Tender are:

- i) The basic consideration and the essence of the contract shall be strict adherence to the stipulated time schedule for the supply of contracted machine/equipment/goods/software i.e. "Time is the Essence of Contract".
- ii) Failure and Termination: On acceptance of tender, if the tenderer whose tender is accepted fails to deliver the machine/equipment/goods/software within the period fixed for such delivery in the contract or as extended, or if the contractor repudiates the contract at any time before the expiry of such period, the purchaser may, without prejudice to their other rights-
 - a) Recover from the Contractor Liquidated Damages and by way of penalty a sum equivalent to 2% of the price of any machines /equipments/goods/software (including element of taxes, duties, freights, etc.) which the Contractor have failed to deliver within the period fixed for delivery in the contract or as extended, for each month or part of a month for which the delivery of such machine/equipment/goods/software may be in arrears when deliver thereof is accepted after expiry of the aforesaid period subject to maximum of 10.0% of the contract value.

OR
 - b) Cancel the contract or a portion thereof and, if so desired and purchase the machine/equipment/goods/software not so delivered or others of a similar description (where machine/equipment/goods exactly complying with particulars are not, in the opinion of the Purchaser [which shall be final] readily procurable) at the risk and cost of the Contractor. It shall, however, be the discretion of the Purchaser to obtain or not, the Performance Guarantee Bond from the firm/firms on whom the contract is placed at the risk and expense of the defaulting firm/firms.
- iii) Force Majeure: The Contractor shall not be liable to forfeiture of security deposit, liquidated damages or termination for default, if and to the extent the delay in performance or other failures to perform its obligations under the contract is the result of an event of Force Majeure. For the purpose of this clause "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Contractor shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Contractor shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

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- iv) Any dispute or difference arising in interpretations or applications of provisions of the Contract shall be referred to the sole arbitration of Development Commissioner, Ministry of MSME, Govt. of India or any other person appointed by him. The award of the arbitrator shall be final and binding on both the parties. Arbitration shall be governed by Indian Arbitration Act. In case of any litigation the jurisdiction shall be Ludhiana
- v) In case of any change in the constitution of firm tenderer/contractor shall notify the same to the Tool Room provided that such change shall not relieve any former member/partner of the firm from any liability under the contract and provided that no new member/partner shall be accepted by the firm unless he agrees to abide by all the terms and conditions of this contract.
- vi) These tender documents are non-transferable.

For GENERAL MANAGER

Dated, Ludhiana, 7th November, 2017

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PART – II(a)

TENDER

To
The General Manager,
Central Tool Room,
A-5, Focal Point,
Ludhiana-141010. (India)

Dear Sir,

I/We agree, on acceptance of the tender in whole or in part, to supply to Central Tool Room, Ludhiana, India, the machine/equipment/goods and accessories, detailed in the Tender enclosed herewith at prices quoted by me/us therein. I/We agree to hold the offer open for 90 days from the due date. I/We have read and understood the terms and conditions of the Tender Documents which shall become Contract on acceptance of tender, and agree to be governed by the same. I/We specifically undertake that I/We will not resile from my/our offer or modify the terms and conditions thereof.

Signature of the Tenderer

Place : _____
Date : _____

Name : _____
Designation : _____
Name & Address : _____
Of the firm _____

WITNESS

Signature : _____
Name : _____
Designation : _____
Name & Address : _____
Of the firm. _____

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Part-II (b)

Tender

Performa for commercial bid :-

(Tenderer need not use this document exclusively but the offer should be in this format to the extent possible)

1. Tender No. & Date
2. Particulars of item/machine offered:-

<u>Sr. No.</u>	<u>Particulars</u>	<u>Qty.</u>	<u>Rate</u>	<u>Amount</u>
----------------	--------------------	-------------	-------------	---------------

Total _____

3. Particulars of Standard and Essential Accessories and Spares:-

<u>Sr. No.</u>	<u>Particulars</u>	<u>Qty.</u>	<u>Rate</u>	<u>Amount</u>
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Total _____

4. Particulars of optional Accessories & Spares:-

<u>Sr. No.</u>	<u>Particulars</u>	<u>Qty.</u>	<u>Rate</u>	<u>Amount</u>
----------------	--------------------	-------------	-------------	---------------

Total _____

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5. Total Offer Price of Main items and Essential Accessories (2+3): -

<u>Amount</u>	<u>Rate</u>
i) Basic Amount	:
ii) Packing charges	:
iii) GST	:
iv) Forwarding charges	:
v) Freight (pl. mention mode of Transport also)	:
vi) Transit Insurance	:
vii) Installation charges	:
viii) Commissioning charges	:
ix) Training charges (Pl. specify free training and paid training for no. of personnel and days separately)	:
x) Any other charges (Pl. specify)	:

(CTR will be at liberty to load the bidders & overheads etc. in case these are not indicated explicitly)

Total _____

- xi) Delivery period
xii) Warranty/Guarantee: -

(Pl. specify the details of parts not covered and mention whether the warranty is for replacement or for repair. Responsibility for transportation etc. for replacement/repair should also be clearly mentioned)

- xiii) Inspection Details: -
xiv) Payment terms: -

(Our payment terms are within 30 days after successfully installation. Deviations can be accepted in certain cases. But parties accepting our payment terms shall be preferred)

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PART – III

Required Qty. 01 No.

Technical Specification for Universal Cylindrical Grinding Machine			
SPECIFICATION TYPES	SPECIFICATIONS	Specified Value	Offered Specifications (to be filled by the tenderer)
General Technical Data	Max. diameter ground	125 mm	
	Max. grinding length	550 mm	
	Height of Centres	130 mm (min.)	
	Max. distance between centres	550 mm	
	Open steady rest accomodates diameters	5 to 80 mm	
	Max. work piece weight without steady rest	60 kgs.	
	Max. work piece weight with steady rest	100 kgs.	
Table	Max. travel	510 mm	
	Min. travel (automatic)	1.5 mm	
	Max. swivel (included angle)	19 degrees	
	Rate of traverse (infinitely variable)	0.03-6 m/min.	
	Dwell at table reversal	0-20 sec.	
Grinding Wheel	Max. wheel diameter	300 mm	
	Width	40 mm (max.)	
	Wheel speed	2000 RPM	
Wheel head	Max. swivel	60 degrees towards work head	
	Rapid movement	45 mm (min.)	
	Hand Movement (1 revolution of hand wheel=0.5 mm)	40 mm (min.)	
	Plunge feed (infinitely variable)	0.05 mm/sec. (max.)	
Work Head	No. of speeds	8	
	Speeds	56-80-112-160-224-315-450-630 RPM	
	Swivels	90 degrees towards wheel and 30 degrees away from wheel	
	Centres	Morse taper, MT 3 or equivalent.	
Inernal grinding	Internal grinding Diameter	15 to 100 mm	
	Max. grinding depth	80 mm	
	Max. spindle speed	12000 RPM	

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Power	Wheel Head motor	4 KW (min.)	
	Oil Pump motor	1.1 KW (min.)	
	Work Head motor	0.5 KW (min.)	
	Coolant pump motor	0.2 KW (min.)	
Accuracies	Straightness of bed in longitudinal direction	0.02 mm per 1000 mm	
	Flatness of bed in transverse direction (No twist permitted)	± 0.02 mm per 1000 mm	
	Guide ways of headstock and tailstock parallel with table movement	0.01 mm per 1000 mm	
	Straightness of table movement (grinding convex only)	0 to 0.02 mm per 1000 mm	
	True running of the centre point of work headstock and spindle	0.005 mm	
	Taper of work spindle runs true: (1) Near to the spindle nose (2) At a distance of 300 mm.	0.005 mm 0.010 mm	
	Grinding wheel spindle: Taper of spindle for true running	0.005 mm	
	Axis of wheel spindle and headstock at same height (for internal grinding spindle)	0.020 mm	
	Working accuracy of machine- Machine grinds round work piece- (a) Up to 80 mm. dia (b) From 80 to 200 mm. dia	0.003 mm 0.005 mm	
	ACOUSTICS	Desired paint colour	Apple green
Standard equipments with machine	1. Service kit (Spanner, Hexagonal wrench, allen keys etc.	1 Set	
	2. Grinding Wheel flange	1 No.	
	3. Flange extractor with nut for extraction of wheel from spindle	1 Set	
	4. Table Mounted wheel truing attachment with diamond dresser	1 Set	
	5. Coolant collection and decantation tank with electric pump	1 Set	
	6. Table guard and wheel guards	1 Set	
	7. Wheel Dressing attachment	1 Set	
	8. Machine mounting anti vibration pads	1 Set	
	9. Machine manuals (operation and maintenance) in English language	2 Sets	
	10. Spare parts catalogue	1 No.	

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	11.	Machine test charts	1 Set	
	12.	Calibration certificate	1 No.	
	13.	Grinding wheels (Internal and External), of specified sizes for trial purpose	1 each.	
	14.	Adjustable 3-jaw scroll chuck (suitable for the machine)	1 No.	

Notes:-

1. Table traverse should be both, hydraulic and manual.
2. Longitudinal table traverse with adjustable traverse stop.
3. Table guide ways to be lined with antification, abrasion resistant turcite material.
4. Machine Movement should be smooth and vibration free.
5. Motors and electrical controls should be suitable for operating on 3-phase, AC supply, 220-240V, 50Hz.
6. The complete installation and commissioning must be carried out by the supplier at the final destination/premises.
7. A final accuracy test shall be conducted by the purchaser, on-site. The final accuracy test report is to be signed jointly by customer and supplier.
8. Training on operation and maintenance for 5 days shall be imparted to the staff of purchaser.
9. Training on machine maintenance for 3 days shall be imparted to the concerned staff of purchaser.
10. Machine should confirm to IS 9809 and ISO 2433:1999 or equivalent standards in respect of geometrical accuracies and practical tests for smooth and efficient running of the machine.
11. Deviations from specified specifications, if any, should be mentioned separately.
12. Warranty to be specifically mentioned.
13. PDI will be carried out at the supplier's works by the CTR's representative for conformity to the machine specifications, accuracy and proving out, of tooled up components, on receipt of inspection call from the supplier, at least 10 days in advance. Supplier shall send detail pre-inspection report including geometric accuracy report along with test charts, prior to PDI call.
14. The machine shall be dispatched only after written "Acceptance/ Inspection Note" issued by the PDI team with clearly worded "Cleared for Dispatch" instruction.
15. Erection and commissioning is to be done by the supplier as per technical specification, terms and condition within the time period as per supply order (supplier to quote the time frame for Erection/ Commissioning/ Trial/Prove-out).

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16. The supplied machine should be complete in all respects in ready-to-operate condition.
 17. Supplier should be OEM (Original Equipment Manufacturer) or authorized supplier.
 18. The supplier shall be required to submit a performance bank guarantee of value equal to 10% of the order value, for the warranty period.

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PART – IV

SPECIAL CONDITIONS:

1. Training of Purchaser's staff is tenderer's responsibility.
2. Delivery Schedule: As per the terms of purchase order.
3. The tender is required to give on a separate sheet for Total Life Cycle costing of the supply.
4. Position of availability of Service Engineer in case of break down / support, along with expected time to reach CTR and position of availability of spare parts in future should clearly be stated.

Signature of the Tenderer

Place: _____

Name :

Date: _____

Designation :

Name & Address of the firm : _____

WITNESS

Signature :

Name :

Designation :

Name & Address of the firm :

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