

**NSIC** राष्ट्रीय लघु उद्योग निगम लिमिटेड  
THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.  
(A GOVERNMENT OF INDIA ENTERPRISE)  
TECHNICAL SERVICES CENTRE.  
JAPANIGATE, BALITIKURI, HOWRAH - 711 113, WEST BENGAL  
Phone: ++91-33-2653 1126, 2653 4280, 2653 2962. Fax 033-2653 1314  
E-mail: ntschow @ nsic.co.in Website: http://www.nsic.co.in

Ref: NTSC(H)/GM/INCUB-PUR/10-11

Date: 01.03.11

To,

M/s. \_\_\_\_\_

**Most Urgent**

**Sub : Tender Document for Supply of CNC Trainer Lathe M/c and CNC Milling M/c.**

Dear Sir,

We are a Govt. of India Enterprise engaged in development & growth of Small & Medium Industries in the country since 1955. NSIC Technical Services Centre is running an Incubator for Small Enterprise Establishment at NTSC-Howrah. The main objective of this project is to develop new entrepreneurship and to create employment opportunity for young people in the region.

Twenty different Machines have already been installed and are being used for live demonstration on regular basis for the participants. Alongwith live demonstration a training programme on entrepreneurship also available to the participants. These training programme will help in promoting new entrepreneurship and also would create new job opportunities for many.

Considering the purpose as narrated above we are looking further for smaller capacity **CNC Lathe & CNC Milling** machines with all features of production machine remaining intact. **A set of Tender document for the same is enclosed for your reference.**

Under these circumstances, you are kindly requested to give your offer for a smaller capacity of **CNC Lathe & CNC Milling** machines and the price of the machine also should be very reasonable.

It is worth mentioning here that this project (Incubator for Small Enterprise Establishment) during its operation will generate lot of enquiries for the machines installed over there; which in turn would bring business opportunities for the machine suppliers.

Keeping in view of the above it is suggested that manufacturer/suppliers can offer a special price for the machines which we are going to install at our centre. This gesture of yours will encourage us in taking up many more new initiatives in this direction.

Anticipating your sincere response in the matter,

we remain,

Yours Sincerely,

(Niranjan Roy)  
General Manager

Encl: Tender document alongwith Technical  
Specification of the machines.

**TENDER**  
**FOR**  
**PLANT & MACHINERY FOR INCUBATOR FOR**  
**SMALL ENTERPRISE ESTABLISHMENT PROJECTS**

**NSIC Technical Services Centre, Howrah**  
**National Small Industries Corporation Ltd.**  
**P.O. Balitikuri, Japani Gate, Howrah-711 113**  
**Tel No. 26530304, 26538606,, Fax: - 091-033-26531314**  
**Email: ntschow @nsic.co.in**  
**Website : [www.nsic.co.in](http://www.nsic.co.in)**

**NSIC- Technical Services Centre, Howrah  
National Small Industries Corporation Ltd.  
(A Govt. Of India Enterprise )  
P.o. Balitikuri, Japani Gate, Howrah-711 113**

Ref. No. :- NTSC(H)/PUR-INCUB /10-11

Dated:- 01.03.11

M/s.

Subject : **Supply of (Name of the M/cs to be chosen from list of Machinery given in Page No. 9 ) machines for Incubator for Small Enterprise Establishment Projects.**

Dear Sir,

Tender document in respect of the supply of the above-mentioned item, **containing 11 pages** as detailed on **page 3 (Index)** are forwarded herewith. Please note that the sealed tenders duly filled in will be received in the office of the General Manager on or **before 10.03.11 up to 14.00 Hrs.** The tender should be signed, dated and witnessed in all pages wherever provided for in the document and also all other pages should be signed by the Authorized Signatory.

The General Manager reserves the right to award the supply order to the tenderer. This letter shall form the part of the contract and must be signed and returned along with the tender documents.

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General Manager

**NSIC- Technical Services Centre, Howrah  
National Small Industries Corporation Ltd.  
(A Govt. Of India Enterprise )  
P.O. Balitikuri, Japani Gate, Howrah-711 113**

**INDEX**

<b>S.No.</b>	<b>Description</b>	<b>Page No.</b>
1.	Covering Letter to Tender Document	2
2.	Index	3
3.	Notice Inviting Tender	4
4.	Instructions to the Tenderers	5
5.	Form of Tender	6 & 7
6.	Commercial and General Terms & Conditions	8
7.	<b>List of Machines</b>	9
8.	Detailed Technical Specification of the Machines	10 & 11

**NSIC- Technical Services Centre, Howrah  
National Small Industries Corporation Ltd.  
(A Govt. Of India Enterprise )  
P.O. Balitikuri, Japani Gate, Howrah-711 113**

**NOTICE INVITING TENDER**

Sealed tenders are hereby invited under two bids system (Technical bid & Commercial bid) on behalf of GM, NSIC Technical Services Centre (Howrah), Balitikuri, Japani Gate, Howrah from reputed manufacturers/suppliers having supplied similar kind of Plant & Machinery as listed in page no. 9 & 10 for **Incubator for Small Enterprise Establishment Projects** so as to reach to GM, NSIC-Technical Services Centre (Howrah), Balitikuri, Japani Gate, Howrah up to 14.00 Hrs. on 10.03.11.

- |    |   |   |
|----|---|---|
| a) | Name of the Supply                                    | Name of the machine to be quoted by the supplier (Choose from the list at page no. 9 and for specification page no. 10 & 11). |
| b) | Estimated Landed Cost at Howrah Centre                | As given in the page no. 9 .  |
| c) | Cost of Tender document                               | Rs. 500/-   |
| d) | Delivery Period                                       | Latest by 31 <sup>st</sup> March 2011.  |
| e) | Last date of submission of completed tender documents | 10.03.2011 up to 14.00 Hrs.   |
| f) | Date of opening of Technical Bid                      | 10.03.2011 at 16.00 Hrs.  |
- 
1. Tender Documents may be downloaded from our web site [www.nsic.co.in](http://www.nsic.co.in) or may be collected from our office against payment of Rs. 500/-.
  2. The other Terms and Conditions applicable to this tender have been incorporated in the tender documents.
  3. The Competent Authority reserves the right to reject all or any tender wholly or partly without assigning any reason whatsoever.
  4. Units registered with NSIC, under GP Registration Scheme are exempted from payment of Tender document cost.
  5. No "C" & "D" Form will be issued by us.

## **INSTRUCTION TO THE TENDERERS**

1. The Tender shall be submitted in accordance with these instructions and any tender not conforming thereto is liable to be rejected. This instruction shall form the part of the tender and contract.
2. The tender document should accompany the cost of Tender document of Rs.500/- by D.D. in favour of "NSIC Ltd.-NTSC A/c".
3. The tender shall be complete with all documents. The tender received without tender fee shall be rejected outright.
4. The tenders shall be submitted in two separate sealed covers in the following manner

### Technical Bid - Envelope- 1

Technical bid in one sealed cover containing the forwarding letter of the tender, list of latest customers who have been supplied Plant & Machinery for similar Projects, The Customer Feed Back, detailed description of the system, catalogue containing detail technical specification, list of essential spares to be supplied, ISO certification if any, details of manufacturing facility available in-house etc. along with the Demand draft for tender fee..

### Commercial Bid- Envelope- 2

One sealed cover containing Forwarding letter, complete tender document indicating ex-work price, excise duties, sales tax, other duties, Payment terms, freight, delivery period and installation charges, if any.

## **CRITERIA FOR QUALIFYING TECHNICALLY**

The following points shall be considered for qualifying the technical bids.

1. Specification of the Tenderers must match or be nearest to our specified technical specification.
2. Offered system should comprise of latest technology.
3. Tenderers should have sufficient infrastructure to justify their competence of manufacturing and supplying the system. If felt necessary their infrastructure facility shall be inspected by a team of NSIC officers.
4. Tenderers must give the list of customers whom they have supplied similar sort of Plant & Machinery for similar Projects along with their address, name of the contact person and tel. no, e-mail address, Fax etc..
5. If the Tenderers has supplied machinery to NSIC earlier, should provide those details.
6. ISO Certification would give an added weight age marks.

**Note:** While assessing technical Competency weight age marks will be assigned for all the above parameters.

## **FORM OF TENDER**

The General Manager  
NSIC- Technical Services Centre  
National Small Industries Corporation Ltd.  
(A Govt. Of India Enterprise )  
P.o. Balitikuri, Japani Gate, Howrah-711 113

**Subject : Supply of CNC Trainer Lathe Machine for Incubator for Small Enterprise Establishment Projects.**

Dear Sir ,

HAVING EXAMINED AND PERUSED THE FOLLOWING DOCUMENTS

1. NOTICE INVITING TENDER
2. INSTRUCTION TO THE TENDERERS
3. FORM OF TENDER
4. TECHNICAL SPECIFICATION AND SCOPE OF SUPPLY
5. COMMERCIAL AND GENERAL TERMS AND CONDITION OF THE SUPPLY

We hereby submit our quoted rates valid for 90 days from the date of submission of tenders. Should our tender be accepted I/We agree :-

1. The tender document along with your letter of award or supply order shall constitute the bind contract between us and NSIC Technical services centre, Howrah.
2. In the event of failure to supply this item in full within the committed delivery period the order will be treated as cancelled.

SUPPLIER's SIGNATURE  
Supplier Name & Seal

## **FORM OF TENDER**

The General Manager  
NSIC- Technical Services Centre  
National Small Industries Corporation Ltd.  
(A Govt. Of India Enterprise )  
P.o. Balitikuri, Japani Gate, Howrah-711 113

**Subject : Supply of CNC Milling Machine for Incubator for Small Enterprise Establishment Projects.**

Dear Sir ,

HAVING EXAMINED AND PERUSED THE FOLLOWING DOCUMENTS

1. NOTICE INVITING TENDER
2. INSTRUCTION TO THE TENDERERS
3. FORM OF TENDER
4. TECHNICAL SPECIFICATION AND SCOPE OF SUPPLY
5. COMMERCIAL AND GENERAL TERMS AND CONDITION OF THE SUPPLY

We hereby submit our quoted rates valid for 90 days from the date of submission of tenders. Should our tender be accepted I/We agree :-

1. The tender document along with your letter of award or supply order shall constitute the bind contract between us and NSIC Technical services centre, Howrah.
2. In the event of failure to supply this item in full within the committed delivery period the order will be treated as cancelled.

SUPPLIER's SIGNATURE  
Supplier Name & Seal



## **COMMERCIAL AND GENERAL TERMS & CONDITIONS**

**Price:** - Price should be most competitive (EX- WORK PRICE).

**Delivery Period:** Latest by March 31<sup>st</sup> 2011 if delayed 0.5% per week will be deducted from the basic price of the machine.

**Validity of the Offer:** - The offer should remain valid for a period of 90 days.

**Guarantee Period:** - The guarantee period should be minimum **two years** from the date of installation for any kind of defect, fault and malfunctioning.

**Taxes and Duties:** Taxes and duties if any shall be paid extra. No "C" & "D" Form will be issued.

**Transit Insurance:** - The machinery/ Equipment to be insured against damage during transit from the manufacturer's work to Howrah centre.

**Freight:** - Freight charges up to Howrah Centre should be at actual.

**Packing:** - The machinery/ Equipment shall be properly packed for safe arrival of the machine to Howrah centre.

**Payment Terms:-** In case the offer is accepted, payment would be released as under :

(A) 90% against the arrival of the item in the Howrah centre and submission of despatch documents.

(B) 10% balance payment within 30 days after satisfactory installation and commissioning.

**Installation and Commissioning:** The machines have to be commissioned and installed in Howrah centre by the manufacturer.

**Service Centres :** List of Service Centres has to be provided along with the contact person & address & phone numbers.

**Training to our officer:** The Manufacturer/ Supplier has to arrange and provide training to our Technician/Operator.

While quoting the rate the make of each item like motors, air compressor, hydraulic/ Pneumatic components/ PLC etc. also to be mentioned in the offer.

**LIST OF MACHINERIES IDENTIFIED FOR SETTING UP OF  
INCUBATOR FOR SMALL ENTERPRISE ESTABLISHMENT  
AT NTSC, HOWRAH.**

<b>Sl. No.</b>	<b>Name of the Machines</b>	<b>Estimated landed Cost At Howrah Centre. (Rs. In Lacs)</b>
1.	CNC Trainer Lathe Machine	---
2.	CNC Milling Machine	--

## **SPECIFICATION:**

### **CNC TRAINER LATHE MACHINE ( TRAINER MODEL )**

**CNC: PC Based 2 Axis continuous path**

**(Windows based FANUC Emulated Software with 3D Simulation facility).**

### **Tooling List**

Design : slant bed	45 degree
Swing over bed	Ø150mm
Swing over Crossslide	Ø50mm
Maximum turning Diameter/Length	Ø32mm / 120mm
Minimum Turning Diameter	6mm
Maximum boring bar Diameter	16mm
Tool Cross Section	12x12
Positioning Accuracy	0.015
Repeatability	0.005
Chuck size:	Ø100mm
Cross Travel (X-axis)	80mm
Longitudinal Travel (Z-axis)	180mm
Distance between centres	210mm
Rapid Traverse Rate (X/Z axis in m/min)	1.2 m/min
Tailstock Base Stroke	150mm
Tail stock Quill Stroke	40mm
Quill Diameter	Ø26mm
Tailstock Taper	MT2
Spindle Bore	20mm
Spindle Nose Taper	MT3
Programmable Spindle speed	150-3000 R.P.M
Programmable Feed Rate	0-1000 mm/min
Resolution	0.001 mm
Axis Motor (X and Z axis Motors – Stepper Motor)	400 Steps/Revolution
Spindle Motor	4.5Amps 3000 RPM
Spindle Encoder	2000 ppr
Drives for SPINDLE	MARTIN FRANK
Drives for X and Z axis	Smart Step Controller Card.
Spindle Motor Capacity	1 HP (746 W)
Turret Programmable	8 Station
Main Supply	230V, Single Phase, 50 Hz
Transformer for Controller	12V and 28V AC
Power supply	OMRAN 24V, 2.1Amps
Slides	Turcite “B” fitted
Bed	Casting
Lubrication	Single shot Manual System
Machine Weight (Approx.)	150 Kg.
Machine Dimensions (LxWxH)mm	880x575x615 mm

100mm 3 jaw self centering Chuck

1. Set of 5 external turning carbide tool holders with inserts  
( 1 No. Turning & Facing Tool holders, 3 Nos Copy Turning Tool Holder (LH, RH, N), 1 No. Threading Tool Holder)- 1 set.
2. Set of 3 Internal boring carbide tool holders with inserts (2 boring bars + 1 Internal threading) – 1 set.
3. Centre Drill dia shank dia 8mm – 1 No.
4. Twist Drill dia 6,8,16 & 12mm (each 1 no.)

## SPECIFICATION:

### CNC MILLING MACHINE ( TRAINER MODEL ).

**CNC: PC Based 3 Axis continuous path.**

**(Windows based FANUC Emulated Software with 3D Simulation facility).**

<b>Table size</b>	<b>360 mm X 132 mm</b>
<b>Travel X axis</b>	<b>225mm</b>
<b>Travel Y axis</b>	<b>150mm</b>
<b>Travel Z axis</b>	<b>115mm</b>
<b>Spindle to Table Distance</b>	<b>70mm to 185mm</b>
<b>Spindle Column</b>	<b>110mm</b>
<b>Spindle Nose Taper</b>	<b>ISO 30</b>
<b>Programmable Spindle speed</b>	<b>150-4000 R.P.M</b>
<b>Programmable Feed Rate</b>	
• X and Y axis	<b>0-500 mm/min</b>
• Z axis	<b>0-500 mm/min</b>
<b>Drives for X, Y &amp; Z</b>	<b>Next move card</b>
<b>Drives for Spindle</b>	<b>MARTIN FRANK</b>
<b>Transformer for Controller</b>	<b>12V and 28V AC</b>
<b>Repeatability</b>	<b>0.005mm</b>
<b>Positional Accuracy</b>	<b>0.001mm</b>
<b>Rapid Rate (X, Y and Z axis)</b>	<b>1.2M/min</b>
<b>Spindle Motor Capacity</b>	<b>0.5 HP 180V DC 4Amps 4000 RPM</b>
<b>Axis Motors X, Y &amp; Z (Stepper motor)</b>	<b>440 Steps / rev.</b>
<b>Main Supply:</b>	<b>230V, Single Phase, 50 Hz</b>
<b>Slides</b>	<b>Turcite “B” fitted</b>
<b>Bed</b>	<b>Casted</b>
<b>Lubrication</b>	<b>Single shot Manual System</b>
<b>Machine Weight (Approx.)</b>	<b>170 Kg.</b>
<b>Machine Dimensions (LxWxH) mm</b>	<b>1000x575x650 mm</b>

### Tooling List

1. Collet Chuck BT30/A45 RD25 with Pull Stud – 1 No.
2. Collet Chuck BT30/A45 RD16 with Pull Stud – 1 No.
3. RD25 Collets Dia 5,6,8,10,12,16mm (each 1 No.)
4. RD16 Collets Dia 3,4,5mm (each 1 No.)
5. 2 lipped carbide slot mill for facing shank dia 16mm
6. Clamping kit set – 1 set.
7. Set of HSS End Mills Dia 5,6,6,6, 8mm (each 1 no.)
8. Set of HSS End Mills Dia 10,12, 16mm (each 1 no.)
9. HSS slot Drills Dia 5,6,6,6, 8mm (each 1 no.)
10. HSS slot Drills Dia 10,12,16mm (each 1 no.)