

TENDER NOTICE

18/02/2016

Tender No. NIF/Adm/04

National Innovation Foundation India (NIF), is an autonomous body of the Department of Science and Technology, Govt. of India providing institutional support to grassroots innovators and outstanding traditional knowledge holders.

NIF invites quotations for the following machines/equipments in two bid system in two separate sealed envelopes (one for technical and one for financial). The interested vendors/companies can submit their quotations in sealed envelope by 10:30 AM, 29th Feb, 2016 at National Innovation Foundation India (NIF), Bungalow No. 1, Satellite Complex, Jodhpur Tekra, Near Mansi crossroad, Ahmedabad, Gujarat -380015.

The bids will be opened on 29th Feb, 2016 at 11:00 AM, at address given above. The term and conditions are as follows:

Any queries related to this tender may be addressed only through email to pc@nifindia.org.

Terms & Conditions:

1. The tenderer/bidder may be a proprietary firm, Partnership firm, Limited Company, Corporate body legally constituted engaged in manufacturing /marketing of production machines /equipments(copy of registration of firm to be attached).
2. Applicant should not have been blacklisted by the Deptts/Ministries of the Govt. of India/State Govt./PSUs (A declaration has to be submitted).
3. The tenderer /bidder should submit duly filled check list of technical bid (annexure 1) along with supporting documents and catalogues of machines quoted.
4. The bidder shall furnish, as part of the bid, an interest free EARNEST MONEY DEPOSIT (EMD) of amount mentioned in annexure 2 for each machine /equipment separately in the form of Demand draft /Account payee cheque at par (valid for 90 days) drawn in favour of National Innovation Foundation, payable at Ahmedabad.
5. The EMD of the unsuccessful bidders will be discharged/returned at the earliest after completion of the tender process. The successful bidder's EMD will be discharged upon the bidder's acceptance of the Letter of Intent satisfactorily. The EMD may be forfeited:
 - a. If the bidder withdraws his/her bid during the period of bid validity specified by the bidder in the Bid form;
 - b. In the case of successful bidder, if the bidder fails to sign the contract or fails; or Fails or refuses to honour his/her own quoted price for any of the items or part thereof.

- c. In both the above cases bidder will not be eligible to participate in the tender for one year from the date of issue of Letter of intent.
6. The technical and price bids should be quoted separately in different sealed envelopes for each machine. Both envelopes must be kept in an envelope which should be superscripted as "Tender for supply of (Name of machine)"
7. Sealed Bid may be submitted to the address given above.
8. The financial bids of those bidders will be considered who qualify under technical bid. The date of opening the financial bids of qualified technical bidders will be informed separately.
9. The prices quoted must be inclusive of all taxes, cost of software, training /machine demonstration, loading & unloading, transport insurance (wherever applicable) and transportation charges to deliver the equipment/machine at NIF's office - Grambharti, Near Grambharti Crossing, Gandhinagar-Mahudi Highway, Amrapur, Teh: Mansa, Dist: Gandhinagar, Gujarat - 382721
10. The 80 % payment will be released after delivery of machines/ equipment in good condition, successful commissioning, installation, testing of machines or equipment.
11. The remaining 20% payment will be released after satisfying all the conditions as per the tender terms and condition, satisfactory functioning of the machines/equipment supplied and after furnishing of Guarantee/ Warranty documents.
12. The quotation should include comprehensive warranty for at least 2 years from date of delivery and one year free service effective from the date of delivery.
13. Submitted quotations should be valid for atleast 90 days
14. Vendor has to set up and demonstrate equipment before that the delivery would not be deemed to be complete.
15. In case the quotation is being submitted by authorized agent of the principal manufacturing company, the authorised sales agencyship certificate from the principal should be furnished along with the quotation. Quotations without this authorization certificate will be rejected.
16. Special discount/rebate wherever admissible keeping in view that items are being procured for educational purpose in respect of Public Institution of national importance may please be indicated.
17. Vendors should attach the relevant brochure/leaflet for the models/options quoted.
18. Vendors should attach users list with their contact details.
19. Necessary certificate should be enclosed by the vendor in case of proprietary nature of the quoted items.

20. Incomplete and conditional submitted tenders would be summarily rejected.
21. Late/delayed tenders received at the venue mentioned above due to any reason whatsoever will not be accepted under any circumstances.
22. The Bidder shall bear all costs associated with the preparation and submission of its Bid. NIF shall, in no case, be responsible or liable for these costs, regardless of the conduct or the outcome of the Bidding process.
23. The tenderer should sign (not initials) at each page of the technical and financial bid documents and all its annexures. No page should be removed/ detached from the tender document.
24. In case two or more agencies are found to have quoted the same rates, the competent authority, NIF shall decide about the agency to which the offer shall be granted based on the past credentials/ report on the past performance of the firm, and length of experience etc. The decision of the competent authority, NIF shall be final and binding, and no communication in this regard will be entertained.
25. NIF reserve the rights to cancel the tender process, without giving any reasons.
26. The conflicts or disputes that may arise in relation to the subject, content, interpretation, implementation and enforcement of this agreement will be solved, firstly, by the Monitoring Committee setup jointly for good governance and then, by equity arbitration. In the event, efforts by Monitoring Committee and an equity arbitration attempt fails, then the legal jurisdiction to be approached shall be within the jurisdictions of Ahmedabad only.

Annexure 1

Format for technical bid of the tender (NIF/Adm/04)

Tender submitted for supply of(name of machine /equipment)

| Sl.No. | Description of requirement | Enclosed | Enclosure No. |
|--------|---|----------|---------------|
| 1. | Whether the firm is registered with proprietary firm, Partnership firm, Limited Company, Corporate body legally constituted engaged in manufacturing / marketing of production machines / equipment | Yes/No | |
| 2. | Declaration by the bidder that he / she has not been blacklisted by the Deptts/Ministries of the Govt. of India/State Govt./PSUs | Yes/No | |
| 3. | Copies of Balance Sheet and Income Tax Return for last 3 years duly certified by CA-whether enclosed? | Yes/No | |
| 4. | Copy of Registration Certificate/ Allotment Letter of PAN / TAN from Income Tax Dept. | Yes/No | |
| 5. | Copy of Registration Certificate/ Allotment Letter of Service Tax Document relating Service Tax Number. | Yes/No | |
| 6. | Partnership deed, if applicable | Yes/No | |
| 7. | Details of other organizations where similar machines have been supplied | Yes/No | |
| 8. | Demand draft / Cheque of Rs...../- as EMD enclosed in separate envelope along with Technical Bid | Yes/No | |
| 9. | Technical specification of the machine | Yes/No | |
| 10. | Financial Bid proforma / quotation completed and sealed in a separate envelope | Yes/No | |

Declaration of the Tenderer:-

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

(Signature of Tenderer with seal) Name:

Place:

Seal :

Date:

Office Address:

Annexure 2

List of machines /equipments

| S No | Machine name | EMD, Rs |
|------|----------------------------------|---------|
| 1. | Plant for powder coating | 30,000 |
| 2. | CNC Vertical Machining Centre | 45,000 |
| 3. | CNC Wire cut EDM Machine | 15,000 |
| 4. | Power press (3.5 lakh) | 7,000 |
| 5. | Laser cutter | 15,000 |
| 6. | Plate bending machine | 5,000 |
| 7. | Horizontal metal cutting bandsaw | 2500 |
| 8. | Pipe bender | 2000 |
| 9. | 3D scanner | 3000 |
| 10. | Tractor trailer | 3000 |

Annexure 3

Details of machines along with specifications

1) PLANT FOR POWDER COATING

| Sl No. | Particular | Detail |
|--------|----------------------------------|---|
| 1. | | Plant for powder coating plant suitable for Mild Steel/ Stainless Steel, Aluminum, Zinc alloys, Cast iron, etc. |
| 2. | | The plant should include all sub systems / equipment / accessories required for fulfilling the job, desired specification of major subsystems is given below |
| 3. | Pre-treatment Tanks | <ul style="list-style-type: none"> Minimum Five tanks (Degreasing Tank, , Derusting Tank, water rinse tank, Activation Tank, Passivation tank, etc) each of size around 3000 lit (3000 x 1000x 1000), made from 3 mm MS sheet having inside surface/lining of durable FRP and stiffened by 5 mm angle/channel. The tanks should have water inlets, overflow connection and drain connections with valves and pipes of appropriate quality and length. |
| | Moisture Separator | <ul style="list-style-type: none"> Compressor - 5 HP -15 CFM @ 150 PSIG along with electric motor and stand with Air Pipe Line , Air Gun for Cleaning the Booth Chamber |
| | Powder Spray System | <ul style="list-style-type: none"> It should have light weight Electrostatic Powder Spray Gun (100 kV) able to absorb power voltage spikes and surges and filter out most unwanted power signals. The gun should have filter/sieve in the line to provide uncontaminated powder for coating. It should have powder delivery rate around 400 g /min at bulk density around 0.7 g/cc. It should have 5 m long power hose of 12 mm dia (ID). It should have LED display for high voltage, Spraying Current and other necessary parameters. All necessary accessories should be provided with the gun. |
| | Powder Spray Booth with Recovery | <ul style="list-style-type: none"> Single Cyclone, Batch Type Booth having minimum dimension of (1600 mm W x 1400 mm H x 1150 mm L) with doors of adequate size in front and sides). The recovery system should ensure that over-sprayed powder should be recovered properly through cyclone, filter or after filter accessories and ensures that the air exhausted from the recovery booth is clean enough to be circulated back into the shop-floor. Required size of motor and necessary accessories like filters, hoses, Exhaust ducting, conveyor track, etc to be provided by the supplier. |
| | Powder Curing Oven | <ul style="list-style-type: none"> Batch Type Floor Mounted, Direct Gaseous fuel fired oven of minimum internal dimensions 2000 mm x 1500 mm x 1500 mm. It should be able to provide heat load 28000-30,000 kcal/h, hot air upto 220-225 degree C in a period of 60-70 minutes. |

| | |
|--|--|
| | <ul style="list-style-type: none"> • It should have burner of capacity 75000 kcal/h and hot air blower of capacity 2 hp. • It should have digital type temperature controller and control panel consisting of TIC, Timer, Contactor, Relay, Push buttons, On-Off switch etc. • It should be energy efficient, having proper insulation so that outside surface temp. shall not exceed 10 to 12 degree C above the ambient temperature. • It must provide uniform temperature throughout the working area of the oven ensuring uniform powder curing. Adequate number of ducts should be provided. • Required number of gas cylinders, gas pipes of required length, regulators, manifold, pressure gauges and other necessary accessories to be provided by the supplier. |
|--|--|

2) CNC VERTICAL MACHINING CENTER

| Particular | Detail | |
|----------------|--|-------------------------------|
| Model | Medium Duty CNC Vertical Machining Center | |
| Make | HMT, Jyoti or equivalent | |
| Specifications | Table size | (850 to 900 x 450 to 500) mm |
| | Traverses X, Y & Z axes | {750 x 500 x (450 to 500)} mm |
| | Rapid rate | 20-25 m/min |
| | Cutting feed | 10 m/min |
| | Positioning accuracy | ± 0.010 mm |
| | Repeatability accuracy | ± 0.005 mm |
| | Spindle speed | Upto 8000 rpm |
| | Spindle power | 5.7 / 7.5 |
| | Spindle nose | BT -40 |
| | Number of tools in Automatic tool changer | Upto 20 |
| | Max load on table | 500 kg |
| | Max. tool weight | 7 to 8 kg |
| | Max tool length | 250 mm |
| Max. tool dia. | 80 (all pocket full), , 125 (alternate pocket empty) | |
| Control System | SIEMENS / Fanuc | |
| Accessories | All standard accessories should be included | |

3) CNC WIRE CUT EDM MACHINE

| Particular | Detail |
|--------------------------|------------------------|
| Type | CNC with LCD monitor |
| Wire electrode dia | 0.12, 0.15 and 0.18 mm |
| Dielectric capacity | Minimum 50 lit |
| Table travel (X, Y Axis) | 200 x 250 mm |

| | |
|-------------------------|---------------------------------------|
| Work table size (L x W) | 300 x 400 mm |
| Work piece thickness | Upto 300 mm |
| Taper | Upto 3 degree (+/-) |
| Work piece weight | Upto 200 kg |
| Axis control | 4 axis (X, Y, U and V) |
| Cutting speed | Minimum 60mm ² /min |
| Resolution | 0.001 mm |
| Least input increment | 0.001 mm |
| Machining accuracy | 0.01 mm |
| Data input | USB Port, regular key board and mouse |
| Operating system | Windows 7 and above |
| Data format | AutoCAD and equivalent formats |

4) POWER PRESS

| Particular | Detail |
|---------------------|---|
| Capacity | 50 ton |
| Minimum bed size | 800 x 500 mm |
| Minimum bed height | 175 mm |
| Type | H Type |
| Stroke length | 85-90 mm |
| RAM adjustment | 25 mm |
| Strokes per minutes | 35 mm |
| Electric motor | 5 hp, 1440 rpm |
| Weight | Around 2500 kg |
| Accessories | All standard accessories (electric motor, belt and pulley, electric wires, safety guards for flywheel and gear, lubrication system, etc) should be included |

5) LASER CUTTER

| Particular | Detail |
|------------------------|--|
| Working area | 2500 x 1250 mm |
| Z axis height | Upto 50 mm |
| Suitable for materials | Acrylic, SS, MS, Bamboo, Wood, MDF, Runner, Leather, etc. |
| Cutting thickness | Minimum 1.5 mm in SS, 2.0 mm in MS and suitably for other materials |
| Laser power | 250-300 W |
| Accuracy | <0.06 mm/30 m |
| Power supply | Single phase AC (220 V, 50 HZ) |
| Cutting head | Auto focus |
| Cooling type | Water cooling |
| Accessories | All standard accessories (electric motor, belt and pulley, electric wires, safety guards, lubrication, cooling system, stand, tools suitable for different materials, software, etc.) should be included |

6) PLATE BENDING MACHINE

| Particular | Detail |
|------------------------|--|
| Width of roller /plate | 2500 mm |
| Thickness of sheet | Upto 4 mm |
| Roller diameters | 150-180 mm (top roller) 125-150 mm (Bottom roller) |
| Power requirement | Upto 5 hp |
| Accessories | All standard accessories (electric motor, belt and pulley, gear box, electric wires,starter switches, vibration pads, lubrication, stand, etc.) should be included |

7) HORIZONTAL METAL CUTTING BANDSAW

| Particular | Detail |
|--------------------------|--|
| Cutting capacity (width) | 300 mm |
| Blade size | 3 m x 27 mm |
| Power requirement | 2 hp |
| Accessories | All standard accessories (electric motor, belt and pulley, electric wires, switches, vibration pads, safety guards, lubrication, cooling system, stand, etc.) should be included |

8) PIPE BENDER

| Particular | Detail |
|------------------------------|--|
| Capacity | 16 to 75 mm round pipes 16-50 mm square pipes Pipe wall thickness : 05 to 2 mm |
| Electrical power requirement | 1.5 hp |
| Accessories | All standard accessories (electric motor, belt and pulley, electric wires, switches, vibration pads, safety guards, lubrication, cooling system, stand, etc.) should be included |

9) 3D SCANNER

| Particular | Detail |
|----------------------------|---|
| Capacity | Upto 150 mm diameter and 250 mm height |
| Mode | Objects should be kept on the table, scanner should have moving HD camera head |
| Resolution/Precision | Minimum 1500 points /second |
| Export formats | STL, OBJ, PLY, XYZ, etc. |
| Camera and video projector | Industrial camera with high quality lens. Video projector with special lens for large focal range, including remote control, etc. |
| Accessories | High quality tripod, connecting cables, adapters for power supply, calibration panels, etc. |

10) FOUR WHEELED 05 TON CAPACITY HYDRAULIC LIFT TROLLEY (TRACTOR TRAILER)

| PARAMETERS | SPECIFICATION |
|--------------------------------|--|
| Type | Four wheeled hydraulic lift type trolley fulfilling BIS standard (IS 8213:2000) |
| Capacity | 5 ton capacity |
| Hydraulic Cylinder | Single acting hydraulic cylinder along with high- pressure pipe with adopters fitted at end. |
| Size of the Trailer | Min. Length - 3500 mm, Width - 2000 mm, Height - 750 mm, Rectangular box type three side opening arrangement by hinge joints |
| Chassis and main Base Frame | Base chassis size may be min 150 mm X 75 mm of C type channel. Cross channel over chassis should be of min. 100 mm X 50 mm size having at least six cross members and two longitudinal member. Additional suitable longitudinal member size 120 X 65 mm may also be provided for hydraulic jack fittings, if required. |
| Side Wall Sheet | M.S Sheet of min 5 mm, all side open type on hinges except front one. |
| Floor Sheet | M.S Sheet min 6 mm |
| Suspension | Suitable heavy type leaf spring fitted on post rigidly welded with rear side load body and on rotating table in front side. |
| Brake | Mechanical Brake at Rear Wheels to be provided with easy operating hand lever |
| Wheels | Front and rear axle with disk and drum fitted on wheel hub, bearings etc to be provided with 4 nos tyre size 7.50 x16 (16 PR) of Branded lick JK/MRF/ Apollo. |
| Axles | M S square 75X75 mm (min) or round 80 mm dia (min) |
| Towing hook | Spring loaded towing hook of min 35 mm MS round |
| Jack | Provision of two suitable jack as per the capacity mentioned |
| Lighting requirement | <ul style="list-style-type: none"> • Two red coulored reflectors should be fitted at rear side and two while coloured reflectors at front sides at a proper distance. • Two tail lights of red coulor should be provided at rear at a proper distance. • Two turn indicator lamps should be provided at the rear side |
| Painting | One Coat of Red Oxide and 2 coats of super synthetic enamel paint of sky blue |
| Overall workmanship and finish | The sharpness of the edges and corners shall be removed properly. Welding shall not be porous. There should not be any visual defects. |