

F.No. 02/01(03)/2016/NISE-ST
NATIONAL INSTITUTE OF SOLAR ENERGY
(An autonomous Institute of Ministry of New & Renewable Energy)
Faridabad-Gurgaon Road, Gwal Pahari, Gurugram, Haryana-122003

TENDER NOTICE

NOTICE INVITING TENDER FOR SUPPLY OF WORKSHOP MACHINERIES

National Institute of Solar Energy, an autonomous institute of Ministry of New & Renewable Energy, Govt. of India, invites sealed quotations from manufacturers/suppliers for supply and installation of a equipment's/ machineries as per specification mentioned below for development and fabrication of solar thermal system.

Sl. No.	Equipment	Specifications	Quantity
1	Hand Drill	Rated power input: 600 W No-load speed:0 - 2600 rpm Power output: 360 W Chuck capacity:1.5 - 13 mm Drilling dia. Aluminium:13 mm Drilling dia. in wood: 30 mm Drilling dia. in steel: 13 mm	1 No.
	Rotary Hammer Drill	Rated power input: 900 W Max. impact energy: 4.2 J Impact rate at rated speed:0 – 3.600 bpm Rated speed:0 – 800 rpm Drilling diameter in concrete with hammer drill bits:6 – 31 mm Optimum range of applications in concrete with hammer drill bits: 14 – 25 mm Max. drilling diameter in masonry with core cutters:90 mm Max. drilling diameter in steel: 13 mm Max. drilling diameter in wood: 32 mm	1 No.
	Medium Duty-Drill (Cordless)	Torque, max. (hard screw driving applications) : 45-52 Nm Torque, max. (soft screw driving applications) : 15-20 Nm No-load speed:Low @ 0 – 500 / High@ 0-1600 rpm Chuck capacity, min./max. : 1.6-12 mm Drill spindle thread : 1-2" Battery voltage : 12-14 V	1 No.

		Max. drilling diameter in wood : 26-28 mm Max. drilling diameter in steel : 10-13mm Max. screw diameter : 3-7 mm	
	Bench Drill gear control (Portable Type)	Table width : 320-350 mm Category: Bench drill press Power: 500-700 W Drill chuck clamping range: 1.5 - 13 mm Table length: 300-330 mm Transmission type: 2-speed Tool holder : Keyless drill chuck Operating voltage: 230 V Nosing: 85-90 mm	1 No.
2.	Heavy Duty Angle Grinder	Grinding Disc Dia.: 230 mm Power Input : 2400 W No-load Speed : 6500 rpm Spindle Thread : M 14	1 No.
	Bench Grinder	Grinding disc diameter: 200 mm Grinding disc widths: 25 mm Grinding disc bore: 32 mm Rated power input: 600 W	1 No.
3.	Welding M/C (MIG) With (2 nos.) filling Tank	Input Voltage (V) AC415V Phase Single Phase Frequency (HZ) 50/60 Rated Input Current (A) 8.5 Output Current Range (A) 50-250 Output Voltage Adjustment (V) 26.5 Wire Feeding Speed (m/min) 2.5-18 Duty Cycle (%) 60 Efficiency (%) 80 Power Factor 0.73 Insulation Grade F Fill Tank 2 nos.	1 No.
4.	TIG/ARC Welding with (2 nos.) filling Tank	Input Voltage (V) AC415V Frequency (HZ) 50/60 Rated Input Current (A) 27.6/20 No-load Voltage (V) 65 Output Current Range (A) 7-400 Input Power Capacity (KVA) 18.2/13.1 Arc Force (A) 0-130 Duty Cycle (%) 60 No-Load Loss (W) 100 Arc Ignition HF Insulation Grade F Plate Thickness 0.3 to 0.6 Fill Tank 2 nos.	1 Nos.

5.	Spot Welding	Model: KVA Input Voltage: 220 Volt Throat Depth (mm): 32-300 Throat Gap (mm): 50	1 No.
6.	Angle Measurement Tool	Measuring Range 0-360 Degree Power supply: 9 Volt Electronics measuring accuracy: $\pm 0.2^\circ$ Electronics measurement accuracy: $\pm 0.05^\circ$ Measurement accuracy, vials: $0.055-0.057^\circ = \pm 1$ mm/m Automatic deactivation, approx.: 5-10 mins	2 Nos.
	Mechanical Bench Vice	Jaw Width (mm): 89 Jaw Opening (mm): 102 Jaw Depth Approximate (mm): 61 Heavy Duty Cast Iron Body Hardened Carbon Steel Jaws & are Interchangeable Properly Aligned Nut with leading Screw & is easily replaceable 360° Rotating Heavy Duty Base Drawn Steel Handle Polished Anvil Stoved Enamel Paint	2 Nos.
	Tool Kit	Spanner Set: (Size: 6 millimeters x 7 millimeters, 8 millimeters x 9 millimeters, 10 millimeters x 11 millimeters, 12 millimeters x 13 millimeters, 14 millimeters x 15 millimeters, 16 millimeters x 17 millimeters, 18 millimeters x 19 millimeters, 20 millimeters x 22 millimeters) Wrench: (Size: 23.4 x 7.6 x 1.6 cm) Screwdriver set: (32 screwdriver bits - L = 25 mm: PH 0/1/2/3, PZ 0/1/2/3, S 3/4/4.5/5/6/7/8/9, HEX 1.5/2/2.5/3/4/5/5.5/6, T 8/10/15/20/25/27/30/40, 12 nut setters for hex screws: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 6,7,8,10,11,13 mm, 1 universal holder - magnetic, 1 hand screwdriver (clockwise/counter clockwise) Hammer: (Material: Chromium Vanadium Steel, Dimensions: (In Inches) Length: 5, Width: 2, Height: 10) Sledge hammer: (Material: Chromium Vanadium Steel, Dimensions: (In Inches) Length: 5, Width: 2, Height: 10) Plier: (Size: 18.8 x 6.2 x 1.8 cm) Long Nose Plier: (21.2 x 6 x 1.6 cm)	1 No. each set
7.	Vacuum Cleaner	Motor and suction Power: 700 W Features: 1300 mm Suction Pressure, Powerful Suction, Dual Function	1 No.

		Body features: wheel	
8.	Petro Chain Saw	Product Type : Petrol Chain Saw Other Features : Entry class chain saw for home and garden with more power Chain blade Light weight and easy to handle Chain bar, length: 350mm, Chain pitch: 2/8-inch, Cable length : 2-2.5m and Chain gauge: 1-1.3mm, Chain speed: 10-12 m/s	1 No.
9.	Wood cutter	Wheel Dia. : 125 mm Max. Cutting Depth : 40 mm Power Input : 1300 W No-load Speed : 13000 rpm	1 No.
10.	Air Compressor	Power: 1.5 kW Air (Liters): 45 Pressure (bar):8 R.P.M : 1450 Volt/Ph: 230/1 Noise Level: 75+/-3 Motor 1,1 kW. Motor 1.5 HP Voltage 220V Input Frequency 50 Hz.	1 No.
11.	High Flow Booster Pump	Head: 2-6 meters Temperature Range: 50-180 °C Pressure: 2-4 bar Discharge: 50-100 LPH Power Rating: up to 0.5 H.P.	2 Nos.

2. SCOPE OF CONTRACT:

The supply should cover supply of equipments/machineries as per specifications, packaging and forwarding, installation, & trial testing at National Institute of Solar Energy providing training to personnel at National Institute of Solar Energy. The equipments/machineries should be installed at National Institute of Solar Energy, Ministry of New and Renewable Energy, Faridabad- Gurgaon Road, Gwal Pahari, Gurugram, Haryana- 122003, India.

Interested parties may visit laboratory for accessing scope of work.

3. Terms and Conditions:

1. Price should be quoted for complete system
2. Installation and commissioning of system will be vendor's responsibility.
3. Estimated Period of supply without penalty: 40 days
4. Security deposit: Rs.10,000/-

5. Sealed offers should be dropped in a drop box placed at Reception of the Institute before 12 Noon, 27th May, 2016. **Technical and Financial Bids should be submitted separately.** The Technical Bids will be opened on the same day i.e., 27th May, 2016. at 3.00 P.M. The Financial Bids of only technically qualified offers will be opened on 29th May, 2016.

6. Contact person for more information:
Sh. Umakant Sahoo, Research Scientist
National Institute of Solar Energy
Gwalpahari, Gurgaon (Haryana)
Ph. +91-8802760453
E-mail: uk.sec.mnre@gmail.com

7. Validity of offer should be 30 Days

8. Offer will be valid only if accompanied by security deposit of Rs.10000/- in the form of a Demand Draft. The Demand draft should be drawn in favor of “National Institute of Solar Energy” payable at Gurgaon.

9. The offer should include taxes, Insurance, Freight, Packing and Forwarding charges etc. if any and must be clearly mentioned.

10. The Institute experts will inspect the system after commissioning and acceptance is subject to their approval.

11. If the supply or any part thereof is rejected by the Institute, the supplier will have to bear all expenses incurred in the matter including all charges for return and replacement of the stores

12. The delivery period should be clearly stated.

13. A penalty of 2% per week of the invoice cost will be charged after failing to supply the material from sixty days from the date of supply order.

14. Right to reject any or all offers without assigning any reasons thereof is reserved by the Institute

15. In case of any dispute the decision of the Director General, National Institute of Solar Energy will be final and binding on both parties. Further dispute, if any, will be settled in the Court of Law at New Delhi jurisdiction only.

16. Incomplete, conditional, fax, late tenders and tenders without EMD will be rejected summarily. Director General, National Institute of Solar Energy reserves the right to reject any or all the tenders at his discretion without assigning any reason whatsoever.

17. The offer (both Technical and Financial Bids) should be sent in a sealed envelope mentioning the name of the firm, title of the work and the date of opening.

4. Documentation:

One set of operation manuals complete with drawing, parts list and other details and list of do's and don'ts. One set of maintenance manuals with full information in the form of hard (printed) copy in English Language as well as in electronic storage form (disc pen drive etc). A certificate for the adequacy of the manuals should be obtained and provided with the manuals. Such certificate must be signed by the QA engineer of the manufacturer.

5. General:

The installation & trials to demonstrate proper functioning of the system will be the responsibility of the supplier.

6. SECURITY DEPOSIT

A sum of Rs.10,000/- should be submitted as Security Deposit **along with the technical bid** in the form of nationalized bank's demand draft drawn in favor of "National Institute of Solar Energy and payable at Gurgaon, Haryana". The Security Deposit of the unsuccessful bidders would be refunded.

7. RATES: The rates should be quoted specifically on the following lines:

- a. Firm and final cost of the equipment/machineries.
- b. Taxes and freight etc. if any, applicable should be indicated separately and clearly.

8. DELIVERY PERIOD: The equipment/machineries as per the above specifications should be delivered in a single consignment at the site/consignee within forty days from the date of issue of confirmed supply order.

9. INSPECTION: The supplier should satisfy himself/herself that equipment/machineries as per the above specifications and features fully conforms to the specifications by carrying out complete pre-inspection before dispatch.

10. CONSIGNEE: Advisor (Shri S K Singh), National Institute of Solar Energy, Ministry of New and Renewable Energy, Faridabad-Gurgaon Road, Gwal Pahari, Gurgaon - 122003, Haryana, India.

11. GUARANTEE/WARRANTY: equipment/machineries supplied should be covered by standard terms of warranty for a period of 12 months from the date of installation or 18 months from the date of delivery, whichever is earlier for manufacturing defects/performance.

12. PENALTY:

- i. The supplier shall supply the stores in accordance with the particulars as expressly specified at the time/times and at the place/places only.
- ii. The time for and the date of the stores stipulated shall be deemed to be the essence of the supply/work order.
- iii. A penalty of 2% per week of the invoice cost will be charged after failing to supply the material from sixty days from the date of supply order.

13. DISPUTES: In case of any dispute the decision of the Director General, National Institute of Solar Energy will be final and binding on both parties. Further dispute, if any will be settled in the Court of Law at New Delhi jurisdiction only

14. VALIDITY: The Tenders should be valid for 30 days from the date of opening.

15. REJECTION: Incomplete, conditional, fax, late tenders and tenders without Security Deposit will be rejected summarily. Director General, National Institute of Solar Energy reserves the right to reject any or all the tenders at his discretion without assigning any reason whatsoever.

16. SUBMISSION OF TENDERS : Sealed tenders are to be submitted in two parts i.e. **Part-I containing Technical competence/literature along with Security Deposit, and Part-II containing only commercial invoice in a separate sealed envelope, super scribed as commercial bid.** Both the technical and commercial envelopes should be kept in large size sealed envelope super-scribed as tender for “Workshop Machineries” due for opening on **27th May, 2016** and addressed to:

Sh. S.K.Singh,
Sc. “G”/Advisor
National Institute of Solar Energy
Gwalpahari, Gurugram, Haryana-122003.

IMPORTANT DATES

- a.** Closing time and date for receipt of tenders at NISE 12.00 P.M. **ON 27th May, 2016.**
- b.** Opening of Technical Bids on the same day at **3.00 P.M. (27th May, 2016.)**
- c.** Opening of Financial Bids of technically qualified tenders will be (tentatively) on **30th May, 2016 at 2.00 PM.** In case of any delay the same will be informed to the bidders.