

Government of India
Department of Atomic Energy
Nuclear Fuel Complex
BPS & Bar Op.
NOTICE INVITING TENDER

Tender No: NFC/BAR Op. (43)/Contract/04/2017

Dt: 29.12.2017

To
M/s.

Dear Sir,

On behalf of the President of India, sealed item rated tenders are invited from competent and well experienced contractors for the following work on works contract basis.

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|----|-----------------------|--|
| 1) | Name of Work | : Grinding and Material Movement of bars
at Bar Operations |
| 2) | Scope | : Complete scope of work as is given Annexure-I |
| 3) | Duration of Contract | : 12 months |
| 4) | Estimated Cost | : Rs 33,74,000/-
(Rupees thirty three lakhs and seventy four thousand only) |
| 5) | Earnest Money Deposit | : Rs.67,480/- (Rupees sixty seven thousand
four hundred and eighty only) |

EMD in the form of Fixed Deposit Receipt / crossed demand draft drawn in favour of "Pay and Accounts Officer, NFC" payable at Hyderabad shall be submitted. Offers without EMD will be summarily rejected. [Name & A/c no. of contractor may be written at back side of DD submitted towards EMD] and the DD to be submitted shall be drawn after the date of release of NIT to ensure that it is valid for entire offer period.

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| 6) | Issue of tender document | : From 03.01.2018 to 13.01.2018 |
| 7) | Last date for submission of tender | : 18.01.2018 up to 14.00 hours. |
| 8) | Date of opening the sealed tenders | : 18.01.2018 at 14.30 hours. |
| 9) | Cost of tender document | : Rs 500/- (Demand draft or banker's
cheque payable at Hyderabad drawn in
Favour of "Pay &Accounts Officer, NFC") |

Quotations are to be submitted strictly in the format enclosed. Tender and EMD shall be placed in two separate envelopes clearly indicating tender No. and each marked as TENDER & EMD respectively. Both the envelopes shall be submitted together in another sealed envelope super scribing Tender No. & description of work along with due date and time of submission on the outer cover.

Tenders shall be dropped in tender box kept at BPS Stores, NFC, Hyderabad. Tenders will be opened at Works Section, III floor, Aadhar Building, NFC. Late/delayed & tenders not accompanied by EMD shall not be considered. Tender document issued to the contractor is non transferrable.

SM (EPP, BPS, BAR OP & M/C SHOP)
For & On behalf of the President of India

Note: NFC is committed to a corruption free work environment. "All the purchase and contracts commitments of NFC will be honored without the citizen having to pay any bribe". "In case any person demands any bribe, it is the duty of a responsible citizen to inform the matter to the Vigilance Officer, NFC, Hyderabad". Telephone No. 040-27122181 & 040-27184314 (Office) and 040-27137012 (Residence). Email: vo@nfc.gov.in

Scope of Work for Work Order Tender No. NFC/BAR Op. (43)/Contract/04/2017

The Scope of work is as follows:

- a) Loading bar lot into the inlet table of grinding machine. (A Lot contains 28-35 rods of 24 mm dia rod or 70-120 rods of 16 mm dia)
- b) Setting of the machine for grinding operation with necessary process parameters.
- c) Carry out grinding operation for required number of passes with required process parameters.
- d) Unloading of bar lot from out let side of grinding machine.
- e) Bundling the bar lot with identity tag, route card etc.
- f) Assist in transportation of bar lot for cleaning, Quality inspection.
- g) Carry out any rework / re-grinding as required for quality inspection for bar acceptance.
- h) Cleaning of grinding machine from time to time.
- i) Material movement of bar material between various work stations., i.e., swaging machine, grinding machines, straightening machines, cutting machines, degreasing & pickling section, annealing furnaces, quality section for quality inspection which are located at various locations in various plants such as BPS, ZFP, STP and NZFP.
- j) Assisting the bar material movement while transferring the bar material using forklift and cranes
- k) Assisting in bundling the processed bars lot-wise for processing at various machines.
- l) Packing the final accepted lots and assisting the material movement to stores for dispatch.
- m) Segregation of rejected bars into drums and shifting the same to re-processing section.
- n) Lifting of grinding dust from machines into drums and assisting in transferring for burning station.

Note:

1. **a) In view of stringent quality and safety requirements in processing of critical product in the contract and as the Zircaloy material is pyrophoric in nature, the approximate optimum work/product output has been worked out based on previous experience and the productivity required as below:**
 - i. **skilled - 0.25 lots/day/person**
 - ii. **unskilled persons - 0.17 lots/day/person**
 - iii. **Highly skilled - 0.5 lots/day/person**
- b) At least one lot has to be processed per day.**
- c) Offers not meeting above criteria will not be considered.**
2. This complete work requires 1400 man days of ITI qualified (fitter/turner) skilled and 2100 man days of unskilled persons under the supervision of 700 man days of highly skilled person. The contractor has to deploy manpower as per work requirement.
3. The contractor shall have experience in handling/processing of zirconium alloy bars such as swaging, grinding etc. The offers without experience will not be considered. Document proof i.e., earlier work order copies shall be submitted along with offer.
4. On every day, two supervisor (one in each shift), Diploma in Mechanical or B.Sc. qualified shall be deployed for taking care of safety and supervision of work. Hence 700 supervisor man-days are required for this work.
5. Supervisors employed shall be in position to understand all the safety instructions issued by Safety Engineering Division, NFC from time to time and shall implement the same. They shall maintain log books of work carried & attendance on daily basis and shall make sure that all the legal & safety requirements are adhered as issued by NFC.
6. The work order is for performing the work only. The machinery and tools will be provided by the NFC.