

Government of India
Department of Atomic Energy
Nuclear Fuel Complex
New Zircaloy Fabrication Plant

NOTICE INVITING TENDER

Tender No. NFC/NZFP/49/Cont/FO/02/2018

Dt. 02.02.2019

To
M/s.

Dear Sir,

On behalf of the President of India, sealed item rated tenders are invited by competent authority Nuclear Fuel Complex, Department of Atomic Energy, ECIL Post, Hyderabad –500 062 from competent and well experienced contractors for the following work on works contract basis.

- 1) Name of Work : Assistance in production of PHWR fuel tubes at NZFP, NFC Hyderabad.
- 2) Scope : (As per annexure-1)
- 3) Duration of Contract : 12 months
- 4) Estimated Cost : Rs. 62,37,000/- (Rupees Sixty Two Lakh Thirty Seven Thousand only)
- 5) Earnest Money Deposit : Rs.1,24,740/- (Rupees One Lakh Twenty Four Thousand Seven Hundred and Forty 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 & account no. of the contractor may be written at the back side of DD submitted towards EMD. **The DD to be submitted shall be drawn after the date of release of NIT.**

- 6) Issue of tender document : From 18.02.2019 to 28.02.2019
- 7) Pre-bid conference meeting : On 12.02.2019 (at NZFP conference room @ 1000hrs)
- 8) Last date for submission of tender : On 08.03.2019 up to 14.00 hours.
- 9) Date of opening the sealed tenders : On 08.03.2019 at 14.30 hours.
- 10) 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.

Your offers shall be deposited in tender box kept at office of SM, NZFP, Nuclear Fuel Complex, ECIL Post, Hyderabad – 500062, on or before 08.03.2019 up to 14.00 hours.

Tenders will be opened at Works Section, III floor, Aadhar Building, NFC. Late/delayed & tenders not accompanied by EMD shall not be considered.

(Sr. Manager, NZFP)
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

Terms and Conditions of NIT No NFC/NZFP/49/Cont/FO/02/2018

1. The contractor will be completely responsible for the job. The contractor shall deploy sufficient no. of skilled and semiskilled man power required in first and second shifts for completion of the work. The contractor shall authorize a competent person as supervisor (having minimum qualification of B.Sc/Btech/Diploma) who shall fully be responsible for carrying out the jobs safely. Authorization shall be furnished in writing. The contractor shall deploy only those qualified man powers who have prior experience in the works as brought out in the scope of work.
2. No child labour should be engaged.
3. Contractor shall engage 13 skilled operator, 4 semiskilled operators and 4 highly skilled supervisor per day (all together in 1st and 2nd shift). Contact labour are to be engaged in first Shift and second shift, including Sundays and public holidays (as per plant requirement).
4. The workers engaged by the contractor should wear uniform which is distinct from NFC uniform. Safety shoes and other PPE as required for the job are to be provided by the contractor for all the workers engaged by him and ensure its usage. The contractor has to ensure safe working practices and follow all safety rules and regulations stipulated by SED, NFC from time to time.
5. The Contractor must follow all Labour Laws such as Contractor (Regulation & Abolition Act), Payment of Wages Act, EPF & MP Act, ESI Act, Payment of Bonus Act, Employees Compensation Act etc. NFC reserves right to ask Contractor to furnish proofs /documentary evidence for following the above laws. Clarifications on statutory provisions if any, may be sought from Welfare Officer, NFC, Hyderabad on 040-27183059 or wo@nfc.gov.in on any working day during office hours. Payment of minimum wages, as circulated by RLC (C) Hyderabad to the labourers.
6. Wages are to be paid & revised as per Minimum Wages Act, notified by RLC (C)/ State government of Telangana whichever is higher from time to time.
7. The contractor shall make the payment to the labourers through their bank account only. Photo-copy of the transaction from contractor to individual labourer / deposit statement of laborer's bank pass book shall be required as documentary evidence. If there is no bank a/c of the labourer, the same must be opened; as payment evidence through bank only shall be accepted.
8. All the contract labourers engaged shall be covered by ESI & EPF compulsorily. The charges towards ESI, EPF has to be indicated separately. Payment towards ESI & EPF will be made after producing documentary evidence only.
9. Earnest Money Deposit at the rate of 2% of estimated cost put to tender shall be submitted along with tender in the form of Fixed Deposit Receipt / crossed demand draft drawn in favour of "Pay and Accounts Officer, NFC" payable at Hyderabad. Offers without EMD will be summarily rejected.
10. Certificate from Officer-in-charge at NFC regarding payment of minimum wages to the contract labour is to be enclosed along with the claim.
11. The contractor shall produce necessary police verification certificates from the local police station for the manpower being engaged for the purpose.
12. Valid Medical fitness certificate from at least an MBBS doctor for the workers engaged shall be submitted. The contractor shall ensure that all his labour who are engaged in work are covered under ESI and EPF. Proof of the same shall be produced before start of the work.

13. The quoted value shall be **exclusive of ESI & EPF and inclusive of GST & all other mandatory duties and levies of the Government**. The bills will be released against submission of documentary evidence towards payment of ESI & EPF to the concerned authorities.
14. The contractor shall provide the registration details of Income Tax, ESI, EPF, GST etc. while collecting tender document and copies of the same shall be submitted along with tender document.
15. Performance Guarantee @5% of Work Order value shall be submitted within 15days from the date of issue of letter of acceptance or before the commencement of work whichever is earlier in the form of Fixed Deposit Receipt or Demand Draft or Bank Guarantee. (Extension of time for submission of Performance guarantee at the request of contractor for a maximum period ranging 1 to 15 days shall be charged @0.1% per day of performance guarantee amount).
16. In case of non-submission of Performance Guarantee within prescribed/extended time, the Earnest Money Deposit submitted will be forfeited.
17. Security Deposit @ 2.5% of the Work Order Value shall be recovered from Running Account bills. The Security Deposit amount recovered shall be released after Three (3) months from the date of completion of entire work, or after payment of final bill, whichever is later.
18. Income tax and GST as applicable at source shall be deducted from the payments made. Contractor shall furnish his PAN No. and bank details along with a photo-copy of the same duly countersigned by him.
19. Payment for the work done by the contractor shall be made based on the work done by contractor which was accepted and measured by the Officer in charge, duly approved by the Competent authority.
20. Offers received will be evaluated based on the total cost quoted exclusive of EPF&ESI and inclusive of GST
21. The offer should be kept valid for a period of three months from the date of opening of tender.
22. Incomplete and conditional tenders shall be rejected. However unconditional rebates are acceptable.
23. Contractors shall quote the rates both in words and figures.
24. In case there is a variation between the rates in figures and words, the rate which corresponds to amount worked out by the contractor shall be taken as correct.
25. When the amount of an item is not worked out by the contractor, or if it does not correspond with the rates written either in figures or in words, then the rate quoted by the contractor in words shall be taken as correct.
26. When the rate quoted by the contractor, in figures and in words tallies, but the amount is not worked out correctly, the rate quoted by the contractor shall be taken as correct and not the amount.
27. Though the tender is for one year, the same can be extended with same terms and conditions for another year based on the performance of the contract work.
28. Contractor shall sign each page of the tender document along with the Schedule of quantities & Rates.
29. In case the contractor fails to commence the work within the prescribed time schedule as specified in the tender document, then the Government shall without prejudice to any other right or remedy be at liberty to forfeit whole EMD absolutely.
30. The contractor shall ensure that labour deployed for the contract would confine themselves to their respective places of work and not indulge in activities that would be harmful to NFC.
31. NFC reserves right to accept or reject any quotation, either completely or partly, without giving any reasons.

32. If on acceptance of the tender, owing to the circumstances if the scope of the work remains altered, reduced or abandoned for any reason NFC shall give a notice in writing to that effect to the contractor who shall act accordingly. Also, if the workmanship is not satisfactory, the contract shall be cancelled.
33. Before quoting, the contractor may visit NFC for assessment of work with prior permission of DCE/Sr. Manager. He may be contacted at 040-2718 4134/4060/3036 (phone nos.)
34. If the contractor fails to execute the work completely, then the Government shall without prejudice to any other right or remedy be at liberty to forfeit whole Security Deposit and Performance Bank Guarantee absolutely.
35. The quoted rates shall not be less than the minimum wage fixed/notified by the state Government - where the service is performed and shall include all statutory obligations. However bids without any element of cost over and above such minimum wage (or below it) shall be treated as "Nil" price quotation and would be rejected. The contractor shall be liable for all kinds of dues payable in respect of all personnel provided under the contract and NFC shall not be liable for any dues for availing the services of the personnel. The contractor should ensure that the persons to be deployed are not alcoholic, drug addict and not indulge in any activity prejudicial to the interest of NFC. The contractor shall ensure to get the police verification for all the manpower deployed by them and the contractor should ensure that the manpower deputed should bear good moral character.

36. Eligibility Criteria :

- (i) The contractor should have satisfactorily completed similar works (i.e. Turning / Welding / machine operations) of magnitude in the last 7 years ending last day of the month previous to the one in which the tenders are invited as specified below:
- (a) Executed minimum three similar works each of value of not less than 40% of the estimated cost. **OR**
 - (b) Executed minimum two similar works each of value not less than 60% of the estimated cost. **OR**
 - (c) Executed minimum one similar works of value not less than 80% of the estimated cost.
- Details and documental evidence (copy of work order and work completion certificate if any) of such works shall be submitted while collecting the tender documents and also along with the offer. It may please be noted that experience of running contract will not be considered.
- (ii) The contractor shall deploy only ITI certified skilled and semi-skilled technicians. Documental evidence of ITI certification of the technicians shall be submitted before execution of the work..
- (iii) The contractor shall provide the valid contractor's registration certificate, latest Income Tax returns, valid PAN details, ESI, EPF, GST registration details etc. while collecting tender document and copies of the same shall be submitted along with offer. The tender document will be issued to contractors only against submission of these documents.

(Note: Tender document will be issued to the contractors who meet the eligibility criteria and submit the required documents).

37. Pre bid conference meeting will be conducted at NZFP conference room on 12.02.2019. All the prospective bidders are requested to attend the same.
38. The contractor shall ensure availability of operator and supervisor in first and second shifts on all working days and holidays (if required). In case Contractor fails to provide minimum manpower required or fails to comply with safety and quality requirement resulting in loss of production will lead to penalty as per the annexure-II. Penalty will be levied from the monthly bill as per the details given in annexure-II.

Scope of works

Tender No: NFC/NZFP/49/Cont/FO/02/2018

Sub: Operations of various machines for production of PHWR fuel tubes at NZFP- Reg.

S N	Description of Item	Unit	Production Capacity per operator / shift	Total Quantity for 1 year (no. of days X quantity/day)	Operator Skill requirement
1	Cutting of outgoing tubes of pilger mills to specified lengths.	Nos. of tubes	300 tubes	350 X 600 = 210000 tubes	Semiskilled
2	Operation of straightening machine for straightening of tubes of size 28mm and 26mm diameter.	No of tubes.	150 tubes	350 X 150 = 52500 tubes	Skilled
3	Operation of straightening machine for straightening of tubes of size 15.2mm and 13.1mm diameter.	No of tubes.	600 tubes	350 X 600 = 210000 tubes	Skilled
4	Operation of De-burring machines for following sizes of tubes 15.2 mm X 0.4 mm WT 13.08 mm dia. X 0.4 mm WT	No of tubes	1300 tubes	350 X 1300 = 455000 tubes	Skilled
5	End facing of tubes (both sides) on beveling machines for size 63mm, 50mm and 41 mm diameter.	No of tubes	50 tubes	350 X 50 = 17500 tubes	Skilled
6	End facing of tubes (both sides) on baby lathe for size 28 mm dia. and 26mm dia.	No. of tubes	150 tubes	350 X 150 = 52500 tubes	Skilled
7	End cutting and facing of tubes (both sides) on baby lathe for size 15.2 mm dia. and 13.1mm dia.	No. of tubes	500 tubes	350 X 1000 = 350000 tubes	Skilled
8	Final cutting of fuel tubes on baby lathe of size 15.2mm and 13.1 mm dia.	No of tubes	1200 tubes	350 X 2400= 840000 tubes	Skilled
9	Tube polishing on cut tube polishing machine of tube size 15.2mm and 13.1 mm	No of tubes	3000 tubes	300 X 6000 = 1800000 tubes	Skilled
10	Plug inserting in tubes from both sides for wet polishing on tube sizes 15.2mm and 13.1mm dia.	No. of tubes	1000 tubes	350 X 1000 = 350000 tubes	Semiskilled

11	Welding of components and fabrication of components.	No. of components	6 components	300 X 6 = 1800 components	Skilled
12	Fitter for assistance in fabrication of the components	No. of components	6 components	300 X 6= 1800 components	Semiskilled
13	EOT crane operation for loading and unloading of lots at different work stations.	No. of lots	36 lots	350 X 36 = 12600 lots	Skilled
14	Visual inspection of surface quality of ingoing and outgoing tubes at pilgering of size 13.1 mm to 63mm diameter.	No. of lots	7 lots	350 X 14 = 4900 lots.	Highly skilled
15	Monitoring of execution of machine operations and fabrication work.	No. of operations per day	7 operations	350 x 14 = 4900 operations	Highly skilled

Note:

1. Work is required to be carried out at NZFP and the work shall be completed in a period of approx. 12 months (350 working days including Sundays and public holidays).
2. Payment shall be made based on specified work completed successfully & effectively. Contractor / Supervisor of contractor shall be present at the workplace compulsorily to ensure safety & effective work.
3. In order to ensure safe working practices, carry out precise parameter setting and produce quality product, the work output per shift of the operator is indicated in the above table.
4. The bidders may note this Standard Operating Rates (SOR) and ensure that the labors employed are not overloaded beyond this work output. Offers quoting more than maximum permissible quantity per person/ shift shall be rejected.
5. All safety precautions as specified by Safety Engineering Division, NFC have to be followed while carrying out the job.
6. Contract will be awarded to the cumulative lowest bidder.
7. Cutting of outgoing tubes of pilger mills involves tube cutting in VMR, CPM and CRTM pilger mills at NZFP.
8. Operation of straightening machine involves loading the lot and spreading the tubes on the charging table followed by operation of straightening machine. 03 nos. of straightening machines are available at NZFP for processing of different size of tubes.
9. Operation of de-burring machine involves loading of cut tubes from boxes on the machine followed by operation of de-burring machine and then putting the de-burred cut tubes into the boxes.

10. End facing and final cutting is carried out on baby lathes and involves loading the lot and spreading tubes on charging table and the operation of baby lathe to carry out end facing on both sides of the tube.
11. Polishing of cut tubes is carried out on cut tube polishing / buffing machine which involves loading of tubes on the inlet trough, machine operation and quality monitoring.
12. Supervisor (Highly skilled with minimum qualification B.Sc/B.Tech/Diploma) is required for ensuring safety and monitoring of work output and quality of the tubes.
13. Supervisor ((Highly skilled with minimum qualification B.Sc/B.Tech/Diploma) is required for checking the quality of in-going and out-going tubes at different size stage.
14. EOT crane operator is required for loading and unloading of lots to and from different work stations.
15. ITI certified welder is required for welding and fabrication of components required for different machines.
16. Fitter is required for assistance in welding and fabrication works.
17. Tool box (containing spanners, Allen keys, wrenches etc.) shall be provided by the contractor to all the operators. The same shall be brought inside NFC on returnable basis.
18. Arc welding machine (minimum 200 Amps capacity) shall be provided by supplier to the welder. The same shall be brought inside NFC on returnable basis.

SM (FT- NZFP)
For & On Behalf of President of India

Penalty clause for non-compliance and deviation from conditions of contract

Incase of non-compliance or deviation from contract conditions, penalty will be levied from the bill of the contract.

1. Safety Compliance:

The following guidelines to be followed by all contract workmen and Supervisor

- a. All contract workers should always wear PPE's like safety shoes, ear plug and nose mask etc. The PPE's shall be given to every operator by contractor.
- b. Attend safety Training.
- e. Always wear Uniform.
- f. Should restrict themselves to concerned area only.
- g. Crane should be operated by dedicated operator only.
- h. Follow work - specific do's and don'ts.

Any deviation of the above by any of the contract workman / supervisor will lead to penalty as per below table-2.

Table -1

Safety - Non compliance	Penalty
Once / month	Oral Warning
Twice / month	0.5% of the monthly bill
2-5 times / month	2.0 % of the monthly bill
More than 5 times / month	20% of the monthly bill

2. Quality Compliance :

Quality of the output work shall be monitored and penalty will be levied as per below table-3 incase of non-compliance.

Table -2

Tube Quality	Penalty
If Rejection due to the operation by contract workman less than 0.5% of the total quantity processed.	Nil
If Rejection due to the operation by contract workman less than 0.5-5% of the total quantity processed.	20% of the daily wage of the workman
If Rejection due to the operation by contract workman more than 5% of the total quantity processed.	100% of the daily wage of the workman

3. Attendance Compliance:

Contract workers will be engaged in first and second shift on all working days and holidays and as a substitute for operators who are on leave and weekly off, the contractor need to have stand by operators with requisite approvals / permissions. Non availability of the operators and supervisor resulting in loss of

production will lead to penalty as given under table 3 from the monthly bill in addition to deduction of minimum wages as applicable on that day.

a. Supervisor : Total 1400 man shifts / year (i.e. about 116 man shifts / months)

b. Operator: Total 5750 man shifts / year (i.e. about 480 man shifts / month)

The attendance will be monitored through labour entry permit system of NFC.

Attendance (manshifts) / month	Penalty	
	Supervisor	Operator
90%-98%	2%	1%
80%-90%	5%	2%
70-80%	10%	5%
Less than 70%	20%	10%

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