

**Government of India
Bhabha Atomic Research Centre
Pulsed Power & Electromagnetics Division**

Ref: BARC(V)/PP&EMD/2022-23/R&D71/MF/BGS/07

date: 14-06-2022

To

Sub: Support work for machining of field shapers in our CNC lathe and fitting and Support work for operation of CNC machines at BARC, Atchutapuram, Vizag as per the enclosed specifications

Dear Sir

- Quotations are invited for the minor fabrication job, as per the enclosed specification.
- Bidder shall quote for the fabrication with the mention of the components with materials. It should clearly indicate with details that it fulfils or not all our requirements as mentioned in our specifications.
- Taxes shall be quoted separately.
- The quotation must reach the Head, ESDS, BARC(V) by 24-06-2022 and must be sent in a sealed, printed envelope superscripted with reference number and the due date as is given above.
- The address of the envelop should read –

Head, ESDS

Kind attn: B Gowri Sankar, 08912832014

PEB-1

Bhabha Atomic Research Centre

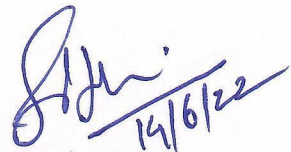
Gajuwaka- Yellamanchali Road

Near Nagavaram Junction

Atchutapuram

Visakhapatnam – 531011

- The components for the fabrication work shall be subjected to inspection by our Engineer. The component shall not be dispatched prior to approval of our engineer at bidder's premises. Necessary inspection facilities should be provided to our engineer during inspection at bidder's premises.
- The bidder shall complete the work within 6 months from the date of work order issued to the bidder.
- Head, ESDS reserves the rights to accept/ reject any or all quotations without assigning any reasons.
- Delivery charges if any, must be clearly mentioned with the offer.
- Quotation must also indicate the validity of offer. Vendors are requested to give at least 60 days of validity for their quotations.
- Drawing / sketches must be returned along with the offer.
- Quotations are to be in printed letter-head / quotation format only
- Quotation should consist of GST registration number & PAN number of the firm.


14/6/22
Head, ESDS

BARCF, Visakhapatnam

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Bhabha Atomic Research Centre (Government of India)
विशाखपट्टणम / VISAKHAPATNAM-531011

Detailed specification for support work for machining of field shapers on our CNC lathe, fitting and support work for operation of CNC machines

Description of CNC machines: There are two CNC machines one is Ezeewin model EW-800 CNC EDM wire cut machine and another is Spinner 15J CNC Turning. During the regular working of the machine, the following works are part of support work for operation of CNC lathe and CNC EDM wire cut machine. These works have to be done under our supervision

1. Support work for machining of field shapers on our CNC lathe is as per the following:

Support work for machining of field shapers may be read as support work for operation of CNC lathe for 20 man days. Field shaper is having 60mm outside diameter and 60mm length. Internal details include 8.8mm drill and a counter bore etc. The raw material (copper) of suitable size will be provided. The work may include support work for machining of other jobs, but the man days for CNC lathe will be for 20days only

Programming on CNC lathe: The following points have to be noted for CNC turning:

- a) The machine controller is Siemens Sinumerik 828D basic. The programmer should have hands on experience on the same or similar type of controller
- b) For the programming purpose the person should have experience of CNC lathe programming for different jobs.
- c) The quantity of field shapers is 20 numbers. However the programming and machining work for the CNC lathe will be for 20 days (on an average of 3-4 days/month). If the field shapers work is completed the man days will be utilised for general CNC turning jobs.
- d) The design/detail drawings or sketches will be provided with each job.
- e) Each job may be different as per the design.
- f) Programming will include one or few of the following works such as facing, turning, step turning, central hole, thread cutting, contour turning, combination of different contours etc
- g) The programming will include set up of job, taking offsets etc. Offset of the job has to be taken every time when job is held in chuck. The programming will also include execution of the job. Before executing the program, each program has to be explained to our supervisors

2. Support works for CNC EDM wire cut and CNC lathe: For both CNC EDM wire cut and CNC lathe the following works are involved.

- a) These works have to be carried out under our supervision.
- b) For these following works, a skilled labour/fitter is required. The requirement of these skilled labour works is for 80 days (average of 21-22 days/month).
- c) Job fixing: Fixing of various jobs in the EDM wire cut machine. Holding of the jobs with proper fixtures provided with the machine.

- d) Making some of the fixtures necessary for holding the jobs using the material provided. Existing facilities and material will be used for making such fixtures
- e) Alignment: Alignment of the jobs with respect to the table of the machine. Making fixtures for proper alignment of the job using the material provided. Existing facilities and material will be used for making such fixtures
- f) Measuring: Measuring of the job dimensions before fixing the jobs. Cutting the raw material to proper size if required. Existing facilities will be used for cutting of raw material
- g) Inspection of jobs: Inspection of jobs after cutting.
- h) Cleaning of the machine: Cleaning of table, bed and other parts of the machine
- i) Lubrication: Lubricating the machine parts and applying the grease to various parts
- j) Adjustment of jaws of chuck: Adjustment of jaws of the chuck as per the job
- k) Changing the jaws of the chuck: Change of the jaws of chuck to suit the job
- l) General Fitting and assembly: The operator has to work for general fitting and assembly work of the division

General Specifications

1) Quantity surveillance, inspection and inspection report

- 1) All work covered by the inspections shall be subjected to quality surveillance by the purchaser or his authorized representatives for which purpose the fabricator shall allow access at all reasonable times during manufacture to
- 2) The premises in which the work is being carried out.
- 3) The drawings and or tooling involved.
- 4) Gauges, instruments etc. required for inspecting the work.
- 5) Inspection and tests shall be carried out by the fabricator as per the requirements detailed in the drawings and the specifications.
- 6) Components found unsatisfactory as to workmanship or material shall be removed by the fabricator and replaced by the components which is satisfactory.
- 7) The finished components shall not be dispatched prior to approval by our Engineer.

2) Raw Material

- 1) There is no raw material supply involved in this purchase. The material belongs to purchaser

3) Delivery

- 1) The contractor shall deliver the finished components after approval of our Engineer *on or before 6 months after receipt of PO.*
- 2) In case any extension in delivery, contractor shall make a request for extension with justified reasons.
- 3) Any delay which is attributable to the contractor is liable for penalty @ ½% per week (max. 5%) to be imposed on the contractor.

4) Sub Contract

- 1) The fabricator shall not sub-contract any or all the work without written consent from the purchaser. The fabricator shall be responsible to the purchaser for all of the sub contractor of the fabricator, if at all allowed by the purchaser.

5) Taxes

- 1) GST as mentioned in the Order Copy against submission of GST undertaking.

6) Payment

- 1) Payment will be made within one month only after satisfactory completion of work and on production of invoice with the details of location of supply, separate tax components, GST no., PAN, advance stamped receipt and Guarantee/ Warranty Certificates.
- 2) It may be noted that Income Tax at 2% will be deducted from your bill.

7) Confidentiality

- 1) No party shall disclose any information to third party concerning the matters under this contract generally. In particular, any information identified as "PROPRIETARY" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party.
- 2) "RESTRICTED INFORMATION" categories under section 18 of the Atomic Energy Act, 1962 and "OFFICIAL SECRETS" under section 5 of the Official Secrets Act, 1923:-
Any contravention of the above mentioned provisions by any contractor, sub-contractor, consultant, advisor or the any employees of a contractor will invite penal consequences under the aforesaid legislation.
- 3) Prohibition against use of BARC's name without permission for publicity purpose:-
The contractor or sub-contractor, consultant, advisor or the employees engaged by the contractor shall not use BARC's name for publicity through any public media like press, radio, T.V., or internet without the prior written approval from BARC (vide circular ref: 2/Misc-9/Lg1/2001/92 dated April 30, 2001).

8. TDS Deduction

TDS is to be deducted at the rate of 2 percent on payments made to the supplier of taxable goods and/or services, where the total value of such supply, under an individual contract, exceeds two lakh fifty thousand rupees.

9. GST Exemption

Since the goods are to be supplied against the work order meant for research purpose of a research organization under DAE, the necessary GST will be exempted to the party.