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HALL No. 7,
TROMBAY,

MUMBAI - 400 085

GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE

Ref: RED/THS/PP/ 1435 / 2BE/ MF/ 84418 /2017

May 19, 2017

Sub: Minor fabrication - invitation to quote
Last date for receiving quotations: 30/05/2017

Dear Sirs,

Head, Thermal Hydraulics Section, RED, BARC, on behalf of the President of India invites sealed quotations, for minor fabrication job as per the requirement given below:

Sr. No	Specification	Quantity
1	Fabrication, inspection, testing, guarantee and supply of cartridge type high watt heaters as per Annexure -II	As per the enclosed Annexure-II

The quotation must reach, Head, Thermal Hydraulics Section, RED by **30/05/2017**. The envelopes should be super scribed and indicate Ref. No., due date and date of opening clearly. The envelope should be sealed. The quotation shall be sent by **speed post/ registered post through Indian Postal Services only**. Address for sending quotation is as following:

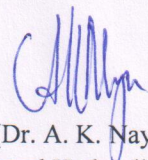
Head, Thermal Hydraulics Section,
RED, Engg. Hall No.7, Bhabha Atomic research Centre
Trombay, Mumbai-400 085
(Kind attention: Pradeep Pandey, SO/D, RED)

Note:

1. The quotation should be complete in all respects with regard to price, specification, time schedule and validity of offer.
2. The quotation shall be opened on 31/05/2017.
3. It is to be noted that persons engaged in fabrication work at BARC complex would be required to obtain police clearance certificates for issue of requisite identity cards. The responsibility of all the working personnel lies completely with the Fabricator/ Contractor while they are working at RED, BARC.
4. The taxes shall be quoted separately. Form H for sales tax and octroi exemption form and Excise duty exemption certificate will be provided if necessary.
5. The bidder shall complete the job within 2 months' time from the date of placement of order.
6. Free Issue Material will not be provided.
7. Payment will be made through ECS/RTGS as per Government rules after completion of the job satisfactorily and acceptance by the user.
8. Validity: The offer shall be kept valid for a period of 90 days from the date of opening of quotation.
9. The quotations must be submitted on printed letterheads. Quotations on computer-generated letterheads are liable to be rejected. Contact details must be provided in the quotation.

10. Quotations must have rubber stamp of the company. The quotations not having the rubber stamps will be rejected.
- 10a) No party shall disclose any information to any 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.
- 10b) any contravention of the above mentioned provisions by any contractor, sub-contractor, Consultant, adviser or the employees of a contractor will invite penal consequences under the Aforesaid legislation.
- 10c) The contractor or subcontractor, consultant, adviser or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like Press, Radio, T.V. or Internet without the prior written approval of BARC.
11. Head, Thermal Hydraulics Section, RED, BARC reserves the right to accept / reject any or all the quotations received without assigning any reasons.
12. The quotation must be submitted in the format mentioned in Table-1. **Consolidated quotations will not be valid.**
13. Confidentiality Clause: **Restricted information categories under section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under section 5 of the official secret act, 1923:**
14. The contractor or subcontractor should submit PAN card number, Service tax number and VAT number.
15. Any delay which is attributable to the contractor is liable for penalty @ 1/2% per week (maximum 5%) to be imposed on the contractor.
16. With your offer please furnish the detailed information regarding an employee of BARC is working in your organisation or whether any of your relative is working in DAE/BARC or you are an ex-employee of DAE/BARC. In absence of such information or wrong information, quotation or contract is likely to be rejected/cancelled.

Encl: 1. Annexure-II



(Dr. A. K. Nayak)

Head, Thermal Hydraulics Section

[For & on behalf of the President of India (the purchaser)]

- : 1. A.O. (GSS), BARC
2. APO, RED.
3. Stores keeper, RED.

Annexure - II

Scope of work:

Scope of work includes fabrication, machining, supply, inspection, testing, guarantee and delivery of cartridge type high watt heaters.

Heaters Technical specification

Detail technical specification given below

Type	High Watt density Cartridge Heater
Power rating	2.5 kW or more
Voltage	230V
Heated length	430
Cold Length	120
Total length	550
Outer Diameter	16 mm ± 0.5 mm
Sheath thickness	minimum 1.0 mm
Sheath tube material	Inconel 625 or equivalent
Insulation material	Alumina
Heating Element	Kanthal A1 or equivalent
Heater Operating temperature	above 1000°C (outer surface of heater) minimum 1 hour continuous operation
Electrical connection	3 meter Fiber glass insulated wire brazed with heating element
End connection	Ceramic end connector
Quantity	30

Working environment

These heaters should be suitable for very hostile corrosive environment such as high temperature glass molten melt application etc.

Inspection & Testing

The supplier shall provide all the service & facilities for all the inspection & test required under this specification. The inspection & testing shall be conducted in a manner satisfactory to, and shall be subject to the approval of purchaser's engineer. The purchaser's engineer shall

have right to specify additional inspection/testing if considered necessary to ensure that the quality of the job is consistent with this specification.

The following acceptance test shall be carried out for heater randomly selected from lot

- a) IR value (dry)
- b) Resistance value test
- c) Continuous rated duty test (min. 60 min)
- d) Hot and cold leg test
- e) Dimension test

Materials

All materials to be used shall be of tested quality. The material test certificates clearly indicating chemical composition & mechanical properties shall be submitted to the Purchaser for approval.

Guarantee

The supplier shall guarantee for a period of 12 months against defects in materials supplied by him, and workmanship. The supplier shall rectify any such defects, free of cost, to the entire satisfaction of the Purchaser.