

**Government of India**  
**Bhabha Atomic Research Centre**  
**Chemical Technology Division**

Ref: CTD/MDS/HZF/1184

Date-10/11/2021

**Tender enquiry for Fabrication & Supply of Material**

Sealed quotations are invited on behalf of President of India for the work as per following technical specification Annexure-1.

Annexure-I

Technical Specification

Supply of Hydroiodic Acid (HI) and Iodine as per the technical specifications given below

1. Hydriodic Acid 57%(wt/wt) in water AR GRADE:

- Appearance (Color): Colorless to Pale Yellow
- Appearance (Form): Liquid
- HI minimum assay  $\geq 57\%$  (wt/wt)
- Sulfur compounds  $\leq 0.005\%$
- Nonvolatile Matter  $\leq 0.05\%$
- Chloride and Bromide (as Cl)  $\leq 0.03\%$
- Heavy metal  $\leq 0.001\%$
- Iron (Fe)  $\leq 0.0005\%$
- The material shall be free from dirt, foreign matter and visible impurities.
- The material shall be of analytical reagent grade material.
- The material should qualify the IS/BIS tests and specifications
- Quantity required: 100 kilograms

2. Iodine Solid AR GRADE:

- Appearance (Color): Grey to Very Dark Grey
- Appearance (Form): Beads
- Iodine minimum assay  $\geq 99.8\%$  (wt/wt)
- Titration by  $\text{Na}_2\text{S}_2\text{O}_3$   $\geq 99.8\%$
- Nonvolatile Matter  $\leq 0.015\%$
- Chlorine and Bromine (as Cl)  $\leq 0.005\%$
- The material shall be free from dirt, foreign matter and visible impurities.
- The material shall be of analytical reagent grade material.
- The material should qualify the IS/BIS tests and specifications
- Quantity required: 125 kilograms

Notes:

1. Each container shall be legibly and indelibly marked with the following information:
  - Name of the product including the words 'AR Grade';
  - Name and address of the manufacturer;
  - Source of manufacture;
  - Minimum net contents;

- Date of manufacture;
  - The words 'Best before . . . . . ' (month and year to be indicated); and
  - The product may also be marked with the Standard Mark.
  - Grade and mass of material in the container;
  - Recognized trade-mark, if any; and
  - Batch number or the month and year of manufacture
2. All the material tests shall be carried out in reputed and renowned test laboratories only, approved by BARC. Vendor has to take the written consent from the purchaser for the laboratory.
  3. All material test certificates shall be submitted during inspection
  4. Any deviations from the specifications shall be brought out clearly during quotation.
  5. The purity of the offered chemicals shall be mentioned in the offer along with impurities present.
  6. The quantity in each pack/bottle and purity of offered chemicals shall be mentioned at time of quotation.
  7. The make of the chemicals offered shall be mentioned in the quotation.
  8. Any deviation from the specifications shall be mentioned clearly.
  9. The analysis report showing all the impurity levels shall be submitted along with the supply.
  10. Assay certificate should be submitted by the party at the time of inspection.
  11. All chemicals should be analytical reagent grade (AR) only.
  12. A packing list in duplicate with details of the content shall be supplied.
  13. No material shall be dispatched without prior written consent of purchaser or his representative
  14. Catalogues, technical specifications, MSDS etc where ever required has to be submitted at the time of inspection.
  15. Details of packing procedure and packing are subject to purchaser's approval.
  16. All packing cases and packing material shall become the property of the Purchaser, after delivery.
  17. Vendor shall be responsible for any damage to the component/boxed/packs during transit due to improper and inadequate packing.
  18. All items shall be protected for the entire period of dispatch, storage (in transit delay) and transportation; against corrosion, sun-light, rain, high temperature, humid atmosphere, rough handling in transportation and storage in the open.
  19. Any special instruction for handling shall be marked boldly on the package.
  20. **Inspection of the above material to be carried out at vendors premises, necessary arrangements has to be made for the same at the time of inspection.**
  21. Post supply inspection in respect of supplies made is not permitted. Any offer containing the condition of post supply inspection will be out-rightly rejected. It is therefore, mandatory for the bidders, while quoting, to indicate in clear terms the requirement of post supply inspection by any outside agency.
  22. Sealed quotations by speed post only, to be sent to '**Head CTD, BARC, Trombay, Mumbai-85**, marked as '**kind attention Shri. H.Z Fani., SO/E, CTD**', so as to reach **before 22-november-2021**. Quotations will be opened at **14.00 hrs on 23-november-2021**.