**Hub cutter, Syringe / String Destroyer.**
Following are the minimum requirements. Products offered must meet these parameters herein.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Technical specifications/composition of tender enquiry</th>
<th>Compliance on each parameter with detailed substantiation how the offered product meets the requirement.(Simply writing as YES/Complied/As per BIS/CE/ISO terms is not allowed)</th>
<th>Remarks, if any</th>
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<td><strong>Hub cutter, Syringe</strong></td>
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<td>1) Material use will have</td>
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<td>• The cutting blade of the cutter will be made of stainless (IS 6911 of 1992).</td>
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<td>• The thickness of the blade will not be less than 0.5 mm one side sharpen to cut minimum of 10,000 cuts.</td>
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<td>• All other metal if used in the hub cutter will be made of galvanized carbon steel which will withstand rusting even in rough weather with high humidity coastal region for a minimum of five year (IS 277 of 2003 – galvanized steel sheet specification)</td>
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<td>• The spring if used in the hub cutter will made of steel wire for mechanical spring (oil harden and tampered steel wire) ISI-4454 of 2001 revision part.</td>
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<td>• The sharp container should be made of polypropylene (PP) of not less than 4 mm thick and should be white/translucent. The material should be non-toxic and pyrogenfree, the material will not wear out with normal usage.</td>
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<td>• <strong>Shape</strong>: The shape of the container will be such that the lid is tightened with the body with a twist and containing the cut hub along with</td>
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needle of various size will be \( \frac{3}{4} \) full when filled with 500 cut hub with needles.

- **Capacity range**: Able to destroy from hub of AD syringe with needles from 18-28 gauge diameter and from 10-25 mm length and fitted with all types of needle fittings, eg. Fixed luer lock luer ship of snap – on

- **Resistance of piecing**: Container shall accept 500 cut needle along with the hub when it is \( \frac{3}{4} \) th full (filling line). Needle shall not penetrate container walls when filled up to the filling line. The average of forces needed to penetrate samples shall be not less than 15 N.

- **Tamper-proofing**: When contaminated needles are being dropped into containers, it shall remain sufficiently sealed so as to prevent a hand from entering. Needle should not protrude from the container when the box contains 500 needles with hub.

- **Capacity of the container**: Have sufficient capacity to hold 500, 148-25 gauge, 10-25 mm long needles with hub.

- **Colour**: The container shall be translucent white in colour and will allow visual inspection from outer surface to determine when the container is full.

- **Technique**: The device shall be designed to facilitate the location and entry of the needles so that the AD syringe is cut from hub by having:
  - a non-critical angle of the needle relative to the entry point.
  - An entry target area which is recessed, concave and diameter is such that it allows all type of
AD syringe available in the market to cut from hub

- Handling: Able to be carried in one hand and portable
- Instructions: Pictorial instructions is major Indian languages to be printed on the surfaces of the container to clearly describe:
  - Use of the hub cutter
  - Biohazard symbol as stipulated in schedule III of the Bio Medical Waste management and Handling rules:
  - Govt supply not for sale.
- Packaging: Carton containing 20 hub cutters. A separate sheet is to be provided with pictorial instructions on how to use. Each carton will contain at least twenty sheets of instruction. Each lot will have 1000 units and the lot number and manufacture details outside the unit.
- Biodegradable Polythene Bag (Red/Blue/Yellow): The container should comprise of an inner plastic bag of varied color depending on the type of waste according to the schedule –II and labeled according to Schedule –III of Bio medical waste (Management & Handling) Rules 1998. It should be of a minimum gauge of 55 micron (if of low density) of 25 micron (if of low density) or 25 micron (if of high density) leak proof, and should match the chosen outer container. The outer container is plastic bin with handle & lids, and of a size which will depend on the amount of waste generated. The inner polythene bag should fit into the container with
one –fourth of the polythene bag turned over the rim. The capacity of the bag should vary according to the quantity waste generated.

- Durability: The performance and safety of the device shall be compromised by Exposure to ambient conditions of +43°C, 90% relative humidity for one week.

**Supplied with:**
1) Necessary tools for maintenance
2) Biodegradable polythene Bag (Red/Blue/Black/Yellow as applicable) -100 per unit.

Note: 1. Technical Specifications mentioned above are of minimum parameter, Products offered must meet these or exceed all requirements herein.