

Notice Inviting e-Tender

West Bengal Medical Services Corporation
Limited
Swasthya Sathi,
GN-29, Salt Lake, Sector-
V Kolkata-700091

Phone No (033) 40340307 /
40340308

E mail:
procurement@wbmsc.gov.in

SUPPLY OF PPIUCD FORCEPS
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL / NIT-01 / 2020

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Amendment IV

Technical Specifications

Standards for PPIUCD Insertion forceps

(IIT KHARAGPUR MDS 05)

1. Introduction

Every specialty instrument in the obstetrics and gynecology section combines old world craftsmanship with modern manufacturing processes to make certain that the instrument has the correct feel which is rendered vital to the various procedures undertaken and surgeries done. This specification document covers the general measurements of the PPIUCD insertion forceps instrument fabricated from stainless steel and intended for reuse during surgery.

2. Scope

Because there is a clinical need for a variety of instruments for general and surgical procedures, they are manufactured in various configurations and from various types of stainless steel. For practical purposes and patient safety, these devices supplied by different manufacturers necessitate a defined system of specification, materials, and performance requirements

3. Terms and Definitions

Box lock - the junction where the female member and the male member are secured, forming the pivoting feature.

Ratchets - the portion of both the female and male members at the proximal end possessing inclined teeth and that form the locking mechanism.

Serrations or teeth - the gripping or clamping surfaces of the jaws or ratchets

4. Surface finish, workmanship and appearance

4.1 Surfaces of the instruments shall be uniformly finished and free of burrs, sharp edges, cracks, coarse marks and processing materials.

4.2 The final surface visual appearance of the instrument should be classified as matte and have reduced reflected surfaces.

4.3 *Symmetry*: Excluding functional differences, both halves of the forceps shall be symmetrical.

4.4 *Handle serrations*: they shall be uniform in depth and spacing.

4.5 *Joints*: the instrument shall have a smooth moving joint and should close and open easily.

4.6 The inside surface of the PPIUCD insertion forceps shall be well rounded and polished and no sharp cutting edge or cracks should be present.

5. Dimensional Specification

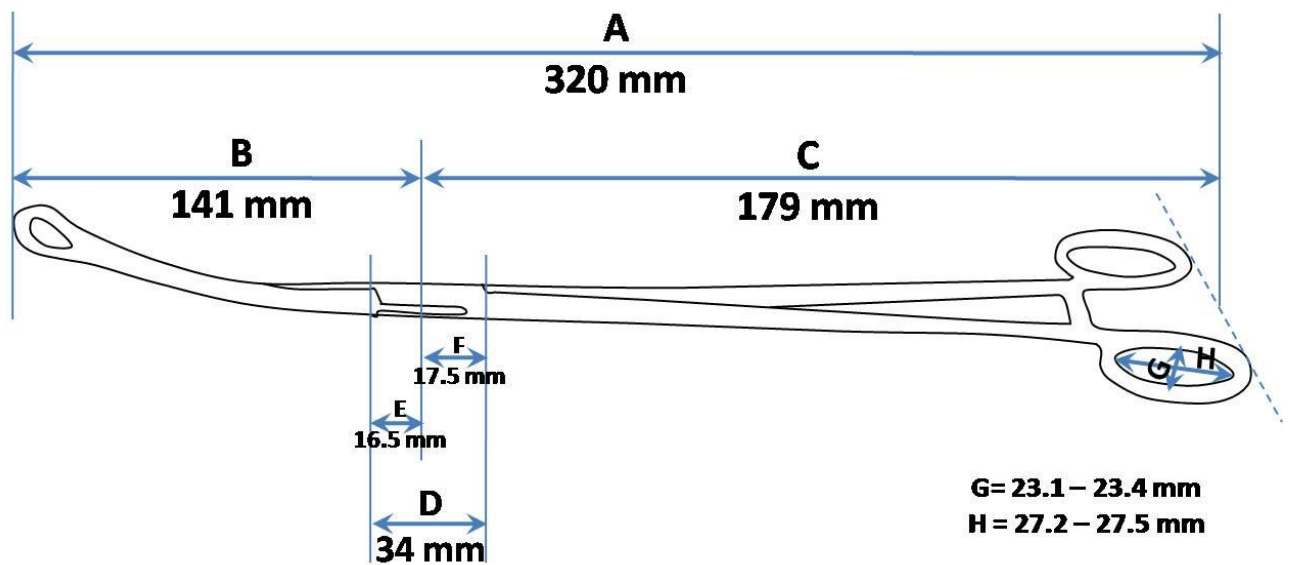
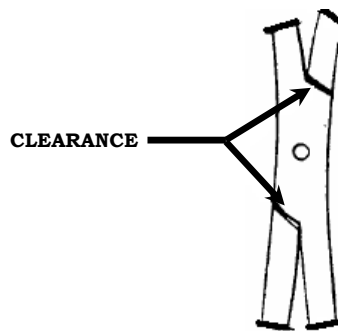
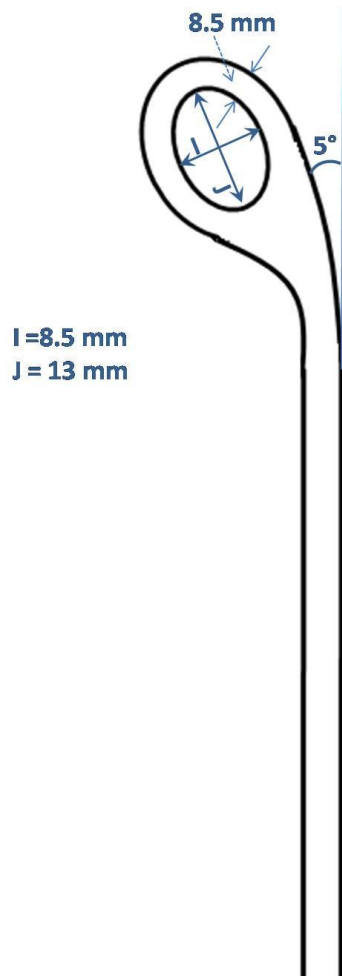


Figure: Dimensions of the PPIUCD insertion forceps

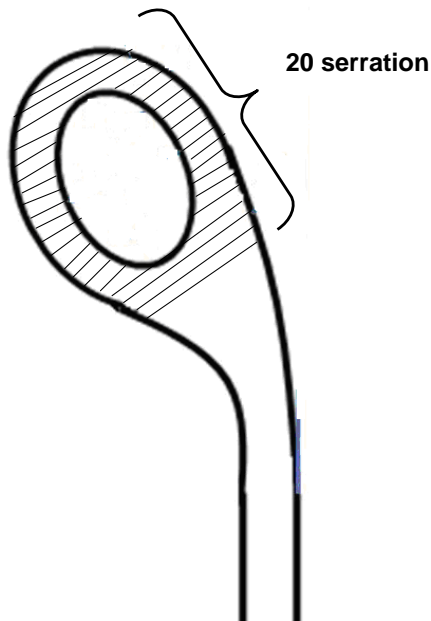


<i>Name of specification parameter</i>	<i>Range</i>
a. Weight of forceps	: 110 -115 g
b. Diameter of inner ring (J)	: 11 to 15 mm (major diameter)
c. Diameter of inner ring (I)	: 8.0 to 8.8 mm (minor diameter)
d. Thickness of ring	: 3.5 to 4 .00 mm
e. Length of the clearance of forcep (D):	33 to 35 mm
f. Tip to box joint length (B)	: 141 to145 mm
g. Box joint to end of grip length (C)	: 177 to181 mm
h. Tip to end of grip length (A)	: 315 to 325 mm (Overall length)
i. Diameter of the finger rings(G)	: 27.2 - 27.5 mm (major diameter)
j. Diameter of the finger rings (H)	: 23.1 - 23.4 mm (minor diameter)
k. Thickness of the finger rings	: 3.5 – 3.8 mm

1. Angle of the forcep tip on plane : 5°

Serration in the jaws

Serrated ring jaws, slightly curved at the tip



Number of serration : 20
Distance between the serration : 0.65 to 0.75 mm
Depth of the serration : 0.9 to 1.08 mm

Metal Specifications

The metal should be lightweight surgical alloy, non-staining, corrosion free, non-rusting and should be able to withstand the temperature of autoclaving. It should be non light reflecting (surface should not be shiny) with a buff coating. It should not be brittle.

Mechanical property requirements, heat treating requirements, hardness requirements and all other requirements are governed by the appropriate material/metal standards.

Classes—Stainless steel material requirements for surgical instruments shall conform to one of the following classes, as specified:

Class 3—Austenitic Stainless Steel.

Class 4—Martensitic Stainless Steel.

Class 5—Precipitation Hardening Stainless Steel.

Class 6—Ferritic Stainless Steel.