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SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

MECHANICAL TESTING

١.	Rubber & Rubber P	roducts		
1	a) Condoms	Length	ISO 4074/WHO UNAIDS	100 mm to 400 mm
	(Male and Female)	Width	/ISO 25841/WHO UNAIDS	20 mm to 200 mm
	b) Surgical/	Single Wall Thickness	2012/ Drugs & Cosmetics	0.001 mm to 1.00 mm
	Examination	Burst Volume (BA)	Act and Rules 1940 and	0.5 to 150Lits.
	Gloves	Burst Volume (AA)	Rule 1945 (Revised	0.5 to 150Lits.
		Burst Pressure (BA)	Schedule 'R')	0 to 10KPa
		Burst Pressure (AA)		0 to 10KPa
		Package seal Integrity		Visual
		Freedom from holes/Water Leakage Test		Visual
		Quantity of Lubricant		1 to 3500mg
		Visible Defects		Visual
		Packaging and Labeling		Visual
		Odour		Sensory inspection
		Colour Fastness Test	Revised Schedule 'R'	Qualitative
		Dimensions		
		Length	IS 13422 /IS 15354	100 mm to 500 mm
		Width	ASTM D 3577	10 mm to 150 mm
		<u>Thickness</u>	ASTM D 3578	0.01 mm to 2.0 mm
		Finger Palm Cuff	EN 455 Part 1, 2	0.01 mm to 2.0 mm
				0.01 mm to 2.0 mm
		Dimension (A to G) Position A Position B Position C Position D Position E	IS 4148	70mm to 170 mm 40 mm to 120 mm 40 mm to 150 mm 230 mm to 330 mm 40 mm to 130 mm
		Position F Position G	<u> </u>	140 mm to 230 mm 50 to 150

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		<u>Thickness</u>	IS 4148	0.01 mm to 2.0 mm
		Finger		0.01 mm to 2.0 mm
		Palm		0.01 mm to 2.0 mm
		Cuff		
		рН	IS 4148	0 to 14.0
		Tensile/Physical		
		Properties (Before		
		Accelerating and After		
		Accelerating)		
		Tensile Strength/ Force at	IS 13422	1 to 50/
		break (MPa)/N/Median	IS 15354	1 to 45
		Elongation at break (%)	ASTM D 3577	1 to 2500
		Stress at 500%	ASTM D 3578	0.01 to 20
		elongation (MPa)	EN 455-2	
			IS 4148	
		Water tightness/ Freedom		Visual
		from Holes	IS 15354	
		Powder content (g/glove)	ASTM D 6124 ISO 21171	Qualitative
2	Plastics &	Dimension		
	Plastics Products	Collection tube length	ISO 3826-1- Plastics	500 mm to 1500 mm
	a) Blood bag	Collection tube internal diameter	collapsible containers for human blood and blood	1.0 mm to 10 mm
		Collection tube Thickness	components	0.1 mm to 5.0 mm
		Transfer tube length	•	50 mm to 2000 mm
		Transfer tube internal		1 mm to 10 mm
		diameter		
		Transfer tube Thickness		0.1 mm to 5.0 mm
		Blood taking needle		10 mm to 50 mm
		Length		
		Blood taking needle outer		0.1 mm to 5.0 mm
		Diameter Design		
		Design		Qualitativa
		Air Content (ml)		Qualitative
	.	Emptying under	<u>i</u>	Qualitative

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		Pressure(Min.)		
		Rate of Collection		Qualitative
		Collection and transfer tube strength		Qualitative
		Blood taking needle Strength		Qualitative
		Suspension		Qualitative
		Outlet port		Qualitative
		Physical Requirements		
		Thermal stability		Qualitative
		Water vapour Transmission (%)		Qualitative
		Particulate contamination		Qualitative (Visual)
		Performance of Labeling	-	Qualitative
	b) Intra Uterine	Dimensions – T Frame		
	Devices - Cu T	Length of Horizontal arm	ISO 7439/Section 19(III) of	25 mm to 35.5 mm
	380A/ Copper T	Length of Vertical stem	Drugs & Cosmetics Act	25 mm to 39.5 mm
	/Cu 375 Series	Diameter of Horizontal arms	1940 and Rules 1945as per Schedule R/MOHFW/WHO/	0.5 mm to 10.0 mm
		Diameter of Vertical arm/stem	UNFPA 2010	0.5 mm to 10.0 mm
		T piece ball diameter	1	1.0 mm to 10.0 mm
		Thread		
		Length of thread		50 mm to 200 mm
		Strength of thread		0.5 to 200 N
		Diameter of thread		0.05 mm to 2.00 mm
		Copper Collars		
		Length		1.00 mm to 10.00 mm
		Sleeve position		0.5 mm to 10.0 mm
		Internal Diameter		0.50 mm to 3.00 mm
		External Diameter	l	0.50 mm to 5.00 mm
		Weight	I	10.0 to 200 (mg)
		Retention force(Kgf)		Qualitative
		Copper Wire		

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		Diameter		0.05 mm to 2.00 mm
	-	Weight		50 to 300 (mg)
		Surface area (copper wire + sleeves)		150 to 750 (mm ²)
		Insertion Tube		
		Length		100 mm to 250 mm
		Inner diameter		1.5 mm to 8.0 mm
		Outer diameter		2.0 mm to 9.0 mm
		Movable Flange		
		Diameter of center hole		.0 mm to 8.0 mm
		Flange displacement force		.0 to 100 (N)
		Displacement Rod		
		Solid rod length		170 mm to 210 mm
		Diameter of Rod at tip		1.0 mm to 3.5 mm
		Packaging and labeling		
		Sealed pouch peel strength		Qualitative
	-	Sealed pouch integrity	1	Qualitative
	-	Printing		Qualitative
		Cleanliness		Qualitative
		Labeling and inserts		Qualitative
	c) Tubal Ring	Dimension		
		Inner Diameter	IS 13009	0.05 mm to 2.50 mm
		Outer Diameter		1.00 mm to 5.00 mm
		Thickness		1.00 mm to 5.00 mm
		Load at Fracture		Qualitative
		Elongation at Fracture		Qualitative
		Friction force test		Qualitative
		Memory test		Qualitative
		Stain Capacity		Qualitative
	•	Fatigue test		Qualitative
		Visual Inspection		Visual

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	d) Surgical Suture	Length	USP 39/EP 9.0/IP 2014	1 mm to 800 mm
	(Absorbable/Non-	Diameter		0.001 mm to 2.00 mm
	absorbable)	Knot-Pull Tensile Strength		0.5 to 100(N)
		Needle attachment		0.5 to 100 (N)
3.	Miscellaneous -	Length	IS 5405	100 mm to 400 mm
	Sanitary Napkins	Width		30 mm to 100 mm
		Thickness (mm)		Qualitative
		Absorbency and Ability to withstand Pressure after Absorption		Qualitative
		Disposability		Qualitative
		рН		0 to 14
		Instructions		Qualitative (Visual)