



TECHNICAL SPECIFICATIONS OF MEDICAL DEVICES FOR POSTMORTUM DEPARTMENT



Ministry of Health and Family Welfare Government of India

INDEX

S.No	DETAILS	Page No
	List of contributors	
	Introduction	
1	Autopsy (Mortuary) Table	
2	Post-Mortem Equipment Set	
3	Autopsy Weighing Machine – Organ	
4	Measuring Jar- liquid	
5	Post Mortem Personal Protectives (Aprons, Gloves, Goggles, Boots, Mask)	
6	Spot Light	

LIST OF CONTRIBUTORS

S.NO	EXPERTS	DESIGNATION	ORGANIZATION			
RADIO	RADIOTHERAPY DEPARTMENT					
1	Dr. Arvind Kumar	Professor Forensic Medicine	LHMC Delhi			
2	Dr.MK Wahi	Professor & HOD	Safdarjung VMMC Delhi			
3	Dr Shalini Girdhan	Associate Professor Forensic Medicine	PGI & RML			
4	Dr Bijay Kumar Dhal	M.O (Equipment)	OSMCL, Odisha			
5	Er.Prakash Mallick	Biomedical Engineer-State Drug Management Unit	DHS, Odisha			
INDUS	STRY ASSOCIATION EXP	ERTS				
1	Representatives from HLL-	HITES				
2	Representatives from IPC					
3	Representatives from FICCI Association.					
4	Representatives from MTAI Association.					
5	Representatives from AIMED Association.					
INTE	RNAL EXPERTS					
1	Dr. S.B.Sinha	Ex- Advisor - Healthcare Technologies	NHSRC, New Delhi			
2	Er. Mohammed Ameel	Senior Consultant- Healthcare Technologies	NHSRC, New Delhi			
3	Er. Anjaney	Consultant- Healthcare Technologies	NHSRC, New Delhi			
4	Er. Ajai Basil	Consultant- Healthcare Technologies	NHSRC, New Delhi			
5	Er. P.S.Vigneshwaran	Consultant- Healthcare Technologies	NHSRC, New Delhi			
6	Er.Bharat Bhushan	Consultant- Healthcare Technologies	NHSRC, New Delhi			
7	Er. Pawan Kumar	Fellow- Healthcare Technologies	NHSRC, New Delhi			
8	Er. Purnima Dhamija	Fellow- Healthcare Technologies	NHSRC, New Delhi			

INTRODUCTION

Medical devices are a very important part of health care and their use is increasing by the day. Technical specifications play an important role in identification, selection and procurement of appropriate and cost effective medical devices. Consistency and standardization in technical specifications promotes positive competition and reduces effective costs. It also promotes uniformity in user training and smooth maintenance of equipment. In order to address the variation in technologies many of which could be add-ons, separate exercises were undertaken for specific categories of medical devices procured under National Health Mission. The experts consulted for specifications formulation exercises included clinicians, medical technologists, maintenance experts and also representatives from manufactures' industry associations/government organizations.

National Health Systems Resource Centre which is also a WHO collaborating centre for priority medical devices & health technology policy; in consultation with experts has formulated technical specifications for commonly used medical devices. Specifications are suggestive in nature and any specific requirement needs to be incorporated at the time of procurement. While effort has been made to make the specifications as generic as possible and consensus and technical appropriateness has been the corner stone of this technical exercise.

In the consultative meeting experts has mentioned the following activities needs to be considered wisely while procuring medical devices.

(1) The public health facility that intend to house medical devices (especially electrical/electronic based) must ensure before installation ,

(a) Proper grounding at electrical sockets,

(b) Wherever generator or UPS or solar power is used as back up energy source, should ensure the stabilizer/surge protector to prevent malfunction of medical devices. The same may be undertaken at facilities having voltage/energy fluctuations.

(2) Procurer may form rate contract on reagents/consumables anticipating yearly demand, on Medical devices which require periodic supply of reagents/consumables for its day to day operation.

(3) Appropriate filtering mechanism to be housed at public facility to ensure maximum longevity on Medical devices which operates efficiently depending on quality of pneumatics/water supply source.

(4) Ensure compliance for Medical devices which are regulated under various laws/regulatory body like CDSCO, AERB, Pollution control Board, PC PNDT, PESO etc.

(5) Procurer/public health facility must ensure scheduling calibration and preventive maintenance (incl. replacement of parts that are expected to be worn out after certain operation) as recommended in Medical device manufactures operational/service manual.

(6) Wherever necessary warning/safety information required, has to be placed at public health facilities.

(7) User/ In-house service training to be procured along with Medical devices for effective utilization.

(8) Public health facility may actively engage with MoHFW initiative, Post market surveillance /Materiovigilance program of India.

(9) Public health facility have to rely on manpower availability or utilization or IPD/OPD load factor to decide on quantity of medical devices to be procured and not just on number of bed at each level.

Αι	Autopsy (Mortuary) Table			
Version no. :		Draft_1		
Date:		03/09/2018		
Done	by : (name.institution)	HCT/NHSRC		
20110		NAME, CATEGORY AND CODING		
	NS name	Autopsy Tables		
0	VS code(s)	5246		
UND		GENERAL		
		1. USE		
	Clinical purpose			
1.1		This tables are used mostly for post-mortem examination pathologic investigations and for demonstration purposes.		
	Used by clinical	Postmortem Department		
1.2	department/ward			
		TECHNICAL		
		2. TECHNICAL CHARACTERISTICS		
	List of instruments	1. Elevating with stainless steel dissection board (straight table, not L type),		
	Technical Characteristics	Dimension:100"L x 40"W. Integrated sink should also have same length and		
		width.		
		2. Elevating height 32" to 40' up and down pedestal control. All thick gauge heavy duty anticorrosion stainless (SS 304) construction with		
		Elevating/rotating down draft table.		
		3. Table top and integrated sink fabricate of minimum 14 gauge stainless		
		steel, anticorrosion pedestal of minimum 11" gauge stainless steel with satin		
		finish. Minimum 1/2" removable perforated grid plate with 3/8" diameter		
		hole on 2" centres (4 each). 4. Large double wall Sink with regular removable sprinkle system, Handy		
		spray, rinse facility. Faucets stainless steel. Hand shower: heavy duty chrome		
		plated hand piece durable minimum 8' long flexible hose Hand piece with		
		hose drop in deck. Concealed pressure control hot and cold water		
2.1		mixture/swing spout/tap. Hot/cold mixing valve. down draft canes Hydro		
		aspirator with reverse flow having built in vacuum breaker. Access panel 2		
		outlet curved moulded sides of table (Stainless Steel). 4. Dissection Station 'L' shaped extension. Same gauge stainless steel		
		extension with drainage facility and water supply (Hot and Cold)		
		5. (L) 70"X30" (W) for dissection of internal organs. Extension should have		
		independent fixed pedestal and not attached to autopsy table as pedestal is		
		fixed. The edger should be curved, moulded and raised. Electrical outlets		
		should be water splash proof.		
		Table should be able to mount in position that allow surgeon to move around the table.		
		7. Table should have engraved scale for cadaver measurement in centimetres		
		and inches.		
		8. Rivets or bolts on table should not enable bacterial or microorganism		
		growth or accumulation.		
2.2	User's interface	Table should be height adjustable.		

3. PHYSICAL CHARACTERISTICS 3.1 Dimensions(metric) As mentioned in technical characteristics, if the room size permits. 3.2 Weight (Ibs, kg) 200Kg or less. 3.3 Noise (in dBA) Less than 50dbA. 3.4 Heat dissipation Not applicable 3.5 Mobility, portability Fixed. 4.1 Power requirements 230V AC/1 phase/ 50Hz. 4.2 Battery operated Not required Not required 4.3 Protection NA 4.4 Power consumption Less than 100W. 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck ress body support sheet and head rest.	rensions(metric) / ight (lbs, kg) 2 se (in dBA) 1 t dissipation 1	s mentioned in technical characteristics, if the room size permits. 00Kg or less. ess than 50dbA.
3.2 Weight (lbs, kg) 200Kg or less. 3.3 Noise (in dBA) Less than 50dbA. 3.4 Heat dissipation Not applicable 3.5 Mobility, portability Fixed. 4.1 Power requirements 230V AC/1 phase/ 50Hz. 4.2 Battery operated Not required 4.3 Protection NA 4.4 Power consumption Less than 100W. 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck res body support sheet and head rest.	ight (lbs, kg) 2 se (in dBA) 1 t dissipation 1	00Kg or less. ess than 50dbA.
3.3 Noise (in dBA) Less than 50dbA. 3.4 Heat dissipation Not applicable 3.5 Mobility, portability Fixed. 4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2) 4.1 Power requirements 230V AC/1 phase/ 50Hz. 4.2 Battery operated Not required 4.3 Protection NA 4.4 Power consumption Less than 100W. S. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck ress body support sheet and head rest.	se (in dBA) L t dissipation	ess than 50dbA.
3.4 Heat dissipation Not applicable 3.5 Mobility, portability Fixed. 4.1 Power requirements 230V AC/1 phase/ 50Hz. 4.2 Battery operated Not required 4.3 Protection NA 4.4 Power consumption Less than 100W. 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck resbody support sheet and head rest.	t dissipation	
3.5 Mobility, portability Fixed. 4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2) 4.1 Power requirements 230V AC/1 phase/ 50Hz. 4.2 Battery operated Not required 4.3 Protection NA 4.4 Power consumption Less than 100W. S. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck rest body support sheet and head rest.		
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2) 4.1 Power requirements 230V AC/1 phase/ 50Hz. 4.2 Battery operated Not required 4.3 Protection NA 4.4 Power consumption Less than 100W. 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck rest body support sheet and head rest.		ot applicable
4.1 Power requirements 230V AC/1 phase/ 50Hz. 4.2 Battery operated Not required 4.3 Protection NA 4.4 Power consumption Less than 100W. 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck rest body support sheet and head rest.	plinty, portability	ixed.
4.2 Battery operated Not required 4.3 Protection NA 4.4 Power consumption Less than 100W. 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck rest body support sheet and head rest.	4. ENERGY SOU	CE (electricity, UPS, solar, gas, water, CO2)
4.3 Protection NA 4.4 Power consumption Less than 100W. S. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck resbody support sheet and head rest.	ver requirements	30V AC/1 phase/ 50Hz.
4.4 Power consumption Less than 100W. 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck rest body support sheet and head rest.	tery operated	lot required
S. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Organ cutting table, sprinkle system with wrist control water tap, neck res body support sheet and head rest.	tection	A
Accessories, (mandatory, standard, optional);Organ cutting table, sprinkle system with wrist control water tap, neck res body support sheet and head rest.	ver consumption	ess than 100W.
standard, optional); body support sheet and head rest.	5. ACCES	SORIES, SPARE PARTS, CONSUMABLES
5.1 Spare parts (main ones); Consumables/reagents (open, closed system)	ndard, optional); re parts (main ones); sumables/reagents (open,	
BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS		
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
Atmosphere/Ambience (air Capable of working in 50-100% humid condition and in temperature range	osphere/Ambience (air	apable of working in 50-100% humid condition and in temperature range of
6.1 conditioning, humidity, dust) 5-40 degree Celsius.	ditioning, humidity, dust)	-40 degree Celsius.
6.2 User's care, Cleaning, Disinfection & Sterility issues hydrogen peroxide solution.	_	hould be compatible with Medical grade disinfectant solutions like Cidex or vdrogen peroxide solution
7. STANDARDS AND SAFETY		
 7.1 7.1 7.1 7.1 Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or international 1. Should be FDA/Europen CE/BIS approved product. The medical devices laid H organization like BIS/CDSCO/AERB is not available). 2. Manufacturer and Supplier should have ISO 13485 certification for qualistandards. 3. Electrical safety conforms to the standards for electrical safety IEC 6060 1-General requirements(or equivalent BIS Standard). 4. Comply with IS 7036 autopsy table. 4. Shall meet IEC 60601-2-38 General Requirements of Safety for Medical Electrical Equipments part 2-38 Particular requirements for safety of Electrical Supplier. 5. The manufacturer must have a management system certified to ISO 9000 5. History of adverse events and actions (Recall/Filed safety correction etc taken by manufacturer on the product should be made available to procure in the product shou	itary,); Performance and ety standards (specific to the ice type); Local and/or mational	 Should be FDA/Europen CE/BIS approved product. The medical devices hould be US FDA/CE/BIS/CDSCO/AERB approved (US FDA/CE requirements vill be applicable only when the Indian standards on medical devices laid by rganization like BIS/CDSCO/AERB is not available). Manufacturer and Supplier should have ISO 13485 certification for quality tandards. Electrical safety conforms to the standards for electrical safety IEC 60601General requirements(or equivalent BIS Standard). Comply with IS 7036 autopsy table. Shall meet IEC 60601-2-38 General Requirements of Safety for Medical lectrical Equipments part 2-38 Particular requirements for safety of lectrically Operated Hospital Beds Electromagnetic Compatibility. The manufacturer must have a management system certified to ISO 9001. History of adverse events and actions (Recall/Filed safety correction etc) aken by manufacturer on the product should be made available to procurer. uch Information (as and when happen) after commission of product should
8. TRAINING AND INSTALLATION	t	

8.1	Pre- installation requirements: nature, values, quality,	The supplier should install (including plumbing and electrical).			
	tolerance				
8.2	Requirements for sign-off	Compliance with quantity checklist, Quality check of the product.			
	Training of staff (medical,	Hands on training to be provided to healthcare professional on using table,			
8.3	paramedical, technicians)	day to day maintenance/cleaning.			
0.0		Hand on training for in-house (Biomedical engineers) preventive/corrective			
		maintenance (hardware/software).			
	g	D. WARRANTY AND MAINTENANCE			
	Warranty	3 years, including all spares parts and accessories.			
9.1		or State/UT may also include the medical devices in NHM Biomedical			
		Equipment management and maintenance program.			
	10. DOCUMENTATION				
10.1	Operating manuals, set	One copy (hardcopy and softcopy) to be provided on user manual/operating			
10.1	manuals, other manuals	manual and service/Technical manual.			
	Other accompanying	1.Certification on quality of stainless steel. Compliance with autopsy table			
10.2	documents	standards or regulation.			
		2. Document illustrating frequency of calibration or preventive maintenance			
		by manufacturer.			
	11. Notes				
	Service Support Contact details	1. Contact details of manufacturer, supplier and local service agent to be			
	(Hierarchy Wise; including a toll	provided;			
	free/landline number)	2.Any Contract(AMC/CMC/add-hoc) rate available to be declared by the			
11.1		manufacturer.Purchaser may engage third party for maintenance of			
		equipment and vendor needs to comply in all terms.			
		3. Manufacture/Supplier of medical devices should provide price quote for			
		spare part of medical device or supply item, against requisition/Purchase			
		order from biomedical engineers/technicians.			
11.2	Recommendations or warnings	Any warning sign would be adequately displayed on autopsy table.			

Post-Mortem Equipment Set

		Durft 1
Version no. :		Draft_1
Date:		03/09/2018
Done by :		HCT/NHSRC
(nam	e.institution)	
		NAME, CATEGORY AND CODING
		Amputation Saw, Bowel surgical Scissors, Post Mortem Scissors, Chisel, Detachable Cross
UIVIL	NS name	handle chisel, Brain Knife, Cartilage Knife
UMD	NS code(s)	13922,14250,14181,14055,21023,19816, 19818
		GENERAL
		1. USE
	Clinical purpose	Post mortem instruments for autopsy surgeon pathologists providing the examination of
1.1		corpses during autopsy. Below list of instruments are for single autopsy table.
	Used by clinical	Post Mortem Department
1.2	department/war	
	d	
		TECHNICAL
		2. TECHNICAL CHARACTERISTICS
	List of	1. Amputation Saw 12" -1 Quantity
	instruments	2. Bowel Scissors 7" 1 4 Quantity
		3. Post Mortem Scissors 6" 1 4 Quantity
		4. Blow Pipe straight 8" 2 Quantity
		5. Hammer with chisel 8" 1 Quantity
		6. Detachable Cross handle chisel 3.5" 1 Quantity
		7. Skull Rest 7" 1 Quantity
		8. Brain Knife 9.5" 1 Quantity
		9. Caltin Knife 9.5" 1 Quantity
		10. Cartilage Knife 7.5" 1 Quantity
		11. Scalpel 16" 4 Quantity
		12. Dissecting Forceps 6" 1 Quantity
		13. Chain hook set of 3, 3" 1 Quantity
		14.Scalpel Handle 127 mm 1 Quantity
2.1		15. Organ knife and saw 22mm blade 1 Quantity
2.1		16 Bistoury Knife 70mm blade 1 Quantity
		17 Rib Knife 1 Quantity
		18 Pelvic Organ Knife 1 Quantity
		19 Dissection scissors 1 Quantity
		20 Bone cutting scissors 1 Quantity
		21 Needle Holder 1 Quantity
		22 Raspatory 1 Quantity
		23 Retractor 2 Quantity
		24 Osteotome 2 Quantity
		25 Vagotome 1 Quantity
		26 Surgical needles 12 Quantity
		27Folding rulers 300 mm 2 Quantity
		28 Probes with eye/fish tail 2 Quantity
		29 Measuring/specimen jar (100 ml and 1 Litre) 1 Quantity
		30 Rib Shears

		31 Magnifying lens 1 Quantity
		14. Box Containing all these instruments 1 PC
2.2	User's interface	NA-All knifes should have stainless steel handle and surgical quality.
	Software and/	NA-Not required
	or standard of	
2.3	communication(where ever	
	required	
	-	3. PHYSICAL CHARACTERISTICS
3.1	Dimensions(met ric)	NA-As specified in IS/ISO standards.
3.2	Weight (lbs, kg)	NA-As specified in IS/ISO standards.
3.3	Noise (in dBA)	Zero
3.4	Heat dissipation	Zero
3.5	Mobility, portability	Portable
		4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)
4.1	Power	Zero
	requirements Battery	Zero
4.2	operated	
4.3	Protection	Not required.
4.4	Power	Zero
	consumption	5. ACCESSORIES, SPARE PARTS, CONSUMABLES
	Accessories,	Protective SS 304 case for clean storage and safe transport.
	(mandatory,	
	standard,	
5.1	optional); Spare parts	
5.1	(main ones);	
	Consumables/re	
	agents (open,	
	closed system)	DDING/PROCUREMENT TERMS/DONATION REQUIREMENTS
	B	6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS

6.1	Atmosphere/Am Capable of working in 50-100% humid condition and in temperature range of 5-40 degree bience (air Celsius. conditioning, Humidity, dust) Capable of working in 50-100% humid condition and in temperature range of 5-40 degree			
Cleaning,the operator should either be capable of easy disinfection or be protect6.2Disinfection &use/disposable cover.		2. Should be compatible with Medical grade disinfectant solutions like Cidex or hydrogen		
		7. STANDARDS AND SAFETY		
7.1	Certificates (pre- market, sanitary,); Performance and safety standards (specific to the device type); Local and/or	 The surgical instruments should be made using top quality medical grade hardened stainless steel with defined specifications like IS 5589, IS 10414, IS6989, IS6990, IS6996, IS 3318 IS3320, IS 6442 etc. History of adverse events and actions (Recall/Filed safety correction etc) taken by manufacturer on the product should be made available to procurer. Such Information (as and when happen) after commission of product should be continued to be provided to purchaser till manufacturing of same type product is curtailed. 		
	international			
	1	8. TRAINING AND INSTALLATION		
8.1	Pre- installation requirements: nature, values, quality, tolerance	Not required		
8.2	Requirements Compliance with quantity checklist. Quality check of the product			
8.3	Training of staff (medical, paramedical, technicians)	Hands on training to be provided to healthcare professional on using post mortem equipment set , day to day maintenance/cleaning.		
	, ,	9. WARRANTY AND MAINTENANCE		
9.1	Warranty	3 years, including all spares. or State/UT may also include the medical devices in NHM Biomedical Equipment management and maintenance program.		
	10. DOCUMENTATION			
10. 1	Operating manuals, set manuals, other manuals	One copy (hardcopy and softcopy) to be provided on user manual/operating manual and service/Technical manual		
10. 2	Other accompanying documents	Certification Documents implying compliance to standards.		
		11. Notes		

11. 1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	 Contact details of manufacturer, supplier and local service agent to be provided; Any Contract(AMC/CMC/add-hoc) rate available to be declared by the manufacturer. Purchaser may engage third party for maintenance of equipment and vendor needs to comply in all terms. Manufacture/Supplier of medical devices should provide price quote for spare part of medical device or supply item, against requisition/Purchase order from biomedical engineers/technicians.
11.	Recommendatio	Any warning sign would be adequately displayed on each instrument.
2	ns or warnings	

Version no. : Draft_1 Date: 03/09/2018 Date by (name.institution) HCT/NHSRC UMDNS name Autopsy scale UMDNS code(s) 5612 GENERAL GENERAL department/ward I USE CENTIFICATION CODING I USE GENERAL department/ward Stainless steel scales capable to measure the weight of an organ. I. USE CECHNICAL CECHNICAL CHARACTERISTICS I Copy of device) I Stainless steel weighing pan, approximately 80 mm diameter. 7. Full giass windscreen, suble to be opened on both sides and from the top cover. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full giass windscreen, suble to be opened on both sides and from the top cover. 8. Adjurtable feet (so the balance can be levelled) 6. Waterproof display and keyad, sealed by a durable flexible membrane. 7. Background illuminated (backilt) display with digits at le	Au	Autopsy Weighing Machine – Organ			
Done by : (name.institution) HCT/NHSRC VAME, CATEGORY AND CODING UMDNS name Autopsy scale UMDNS code(s) 5612 GENERAL GENERAL USE CENTRAL USE USE CENTRAL GENERAL USE CENTRAL USE CENTRAL USE TECHNICAL TECHNICAL CHARACTERISTICS CENTRICAL CHARACTERISTICS CENTRICAL CHARACTERISTICS CENTRICAL CHARACTERISTICS CENTRICAL CHARACTERISTICS Stainless steel weighing pan, approximately 80 mm diameter. 2. Display: 6 digits LD A Frechnical characteristics (systepriod display and keypady, sealed by a durable flexible membrane. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full glass windscreany ble to be opened on both side and from thetope cente	Version no. :		Draft_1		
NAME, CATEGORY AND CODING UMDNS name Autopsy scale UMDNS code(s) 5612 GENERAL 1. USE 1. USE Linical purpose Stainless steel scales capable to measure the weight of an organ. Lised by clinical department/ward TECHNICAL CHARACTERISTICS CENNICAL CHARACTERISTICS La Capacity O - 20 Kg with Accuracy of 1 gram. 2. Decinical characteristics (specific to this type of device) CENNICAL CHARACTERISTICS La Capacity O - 20 Kg with Accuracy of 1 gram. 2. Building: stainless Steel housing: 3. Display: 6 digits LO. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 5. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full gass windscreen, able to be openeed on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 1. Built-in motorized calibration of we	Date:		03/09/2018		
UMDNS name Autopsy scale UMDNS code(s) 5612 GENERAL I.USE I.USE I.USE Used by clinical department/ward TECHNICAL TECHNICAL CHARACTERISTICS I. Capacity: 0 - 20 Kg with Accuracy of 1 gram. I. Capacity: 0 - 20 Kg with Accuracy of 1 gram. I. Capacity: 0 - 20 Kg with Accuracy of 1 gram. I. Capacity: 0 - 20 Kg with Accuracy of 1 gram. I. Capacity: 0 - 20 Kg with Accuracy of 1 gram. I. Stainless steel housing. I. Stainless steel weighing pan, approximately 80 mm diameter. I. Full gates windscreen, able to be opened on both sides and from the top cover. I. Stainless steel weighing pan, approximately 80 mm diameter. I. Stainless steel ou sign and keypad, sealed by a durable fiexible membrane. I. Built-in motorized calibration of weight with automatic adjustment (or calibration using	Done b	oy : (name.institution)	HCT/NHSRC		
UMDNS code(s) 5612 GENERAL 1. USE Clinical purpose Stainless steel scales capable to measure the weight of an organ. 1.1 Clinical purpose Used by clinical department/ward TECHNICAL TECHNICAL CHARACTERISTICS TECHNICAL CHARACTERISTICS TECHNICAL CHARACTERISTICS I. Capacity: 0 - 20 Kg with Accuracy of 1 gram. 2. TECHNICAL CHARACTERISTICS TECHNICAL CHARACTERISTICS I. Capacity: 0 - 20 Kg with Accuracy of 1 gram. 2. Building: Stainless Steel housing. 3. Display: 6 digits LO. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 5. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full glass windscreen, able to be opened on both sides and from the top cover. 8. Adjutable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 7. Built in motorized calibration of weight with automatic adjustment (or calibration of weight with automatic adjus		Ν	IAME, CATEGORY AND CODING		
GENERAL I. USE Clinical purpose Stainless steel scales capable to measure the weight of an organ. 1.1 Clinical purpose Stainless steel scales capable to measure the weight of an organ. 1.2 Used by clinical department/ward Postmortem Department TECHNICAL TECHNICAL CHARACTERISTICS TECHNICAL CHARACTERISTICS TECHNICAL CHARACTERISTICS 1. Capacity: 0 - 20 Kg with Accuracy of 1 gram. 2. Building: Stainless Steel housing. 2. Building: Stainless Steel housing. 3. Display: 6 digits LCD. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 5. Stainless steel weighing pan, approximately 80 mm diameter. 7. Ful glass windscreen, able to be opened on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, seeled by a durable flexible membrane. 9. Built-in motorized calibration of weight with automatic adjustment (or calibration using an external standard weight). 10. Readability: 0.0001 g (0.1 mg). 11. Repeatability: 0.0002 g (0.2 mg). 11. Repeatability: 0.0002 g (0.2 mg). 12. Linearity: 0.0002 g (0.2 mg). 2.2 User's interface Manual, English Menu Inbuilt	UMDN	S name	Autopsy scale		
1.1 Clinical purpose Stainless steel scales capable to measure the weight of an organ. 1.2 Used by clinical department/ward Postmortem Department TECHNICAL TECHNICAL CHARACTERISTICS Suight colspan="2">Auto-zero should be available. Stainless steel weight of an organ. Auto-zero should be available. Stainless windscreen, able to be openeed on both sides and from the top cover. R-digitabilite fect (so the balance can be le	UMDN	S code(s)	5612		
1.1 Clinical purpose Stainless steel scales capable to measure the weight of an organ. 1.2 Used by clinical department/ward Postmortem Department TECHNICAL TECHNICAL CHARACTERISTICS Technical characteristics (specific to this type of device) 1. Capacity: 0 - 20 Kg with Accuracy of 1 gram. 2. Building: Stainless Steel housing. 3. Display: 6 digits ICD . 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 3. Display: 6 digits ICD . 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 3. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full glass windscreen, able to be opened on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 9. Built-in motorized calibration of weight with automatic adjustment (or calibration using an external standard weight). 10. Readability: 0.0001 g (0.1 mg). 11. Repeatability: 0.0002 g (0.2 mg). 11. Repeatability: 0.0002 g (0.2 mg). Stimerface Manual, English Menu Inbuilt Stimerface ShySICAL CHARACTERISTICS ShySICAL CHARACTERISTICS			GENERAL		
1.1 Used by clinical department/ward Postmortem Department 1.2 Used by clinical department/ward Postmortem Department TECHNICAL CHARACTERISTICS Technical characteristics (specific to this type of device) 1. Capacity: 0 - 20 Kg with Accuracy of 1 gram. 2. Building: Stainless Steel housing. 3. Display: 6 digits LCD. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 3. Display: 6 digits LCD. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 5. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full glass windscreen, able to be opened on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 7. Background illuminated (backlit) display with digits at least 15 mm high. 8. Level indicator in the view field of the display. 9. Built-in motorized calibration of weight with automatic adjustment (or calibration using an external standard weight). 10. Repeatability: 0.0001 g (0.1 mg). 11. Repeatability: 0.0002 g (0.2 mg). 12. Linearity: 0.0002 g (0.2 mg). User's interface ShysiCAL CHARACTERISTICS 3.1 Dimensions(metric) In approximate range of 600 (LIX 300 (W) X 300 mm (H) or lesser			1. USE		
1.2 department/ward TECHNICAL TECHNICAL CHARACTERISTICS Image: Second Characteristics (specific to this type of device) 2.1 Technical characteristics (specific to this type of device) 1. Building: Stainless Steel housing. 3. Display: 6 digits LCD. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 5. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full glass windscreen, able to be opened on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 7. Full glass windscreen, able to be opened on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 7. Background illuminated (backlit) display with digits at least 15 mm high. 8. Level indicator in the view field of the display. 9. Built-in motorized calibration of weight with automatic adjustment (or calibration using an external standard weight). 10. Readability: 0.0001 g (0.1 mg). 11. Repeatability: 0.0001 g (0.1 mg). 11. Repeatability: 0.0002 g (0.2 mg). 12. Linearity: 0.0002 g (0.2 mg). Software and/ or standard of communication(where ever required Software and/ or standard of communication	1.1	Clinical purpose	Stainless steel scales capable to measure the weight of an organ.		
2. TECHNICAL CHARACTERISTICS Technical characteristics (specific to this type of device) 1. Capacity: 0 - 20 Kg with Accuracy of 1 gram. 2. Building: Stainless Steel housing. 3. Display: 6 digits LCD. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 5. Stainless Steel weighing pan, approximately 80 mm diameter. 7. Full glass windscreen, able to be opened on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 7. Background illuminated (backlit) display with digits at least 15 mm high. 8. Level indicator in the view field of the display. 9. Built-in motorized calibration of weight with automatic adjustment (or calibration using an external standard weight). 10. Readability: 0.0001 g (0.1 mg). 11. Repeatability: 0.0002 g (0.2 mg). 2.2 User's interface Manual, English Menu 2.3 Software and/ or standard of communication(where ever required Inbuilt 3.1 Dimensions(metric) In approximate range of 600 (L)X 300 (W) X 300 mm (H) or lesser 3.2 Weight (lbs, kg) Less than 5Kg. 3.3 Noise (in dBA) Noise pressure level: ≤60 dbA. 3.4 Heat dissipation Almost Zero.	1.2	-	Postmortem Department		
Technical characteristics (specific to this type of device) 1. Capacity: 0 - 20 Kg with Accuracy of 1 gram. 2. Building: Stainless Steel housing. 3. Display: 6 digits LCD. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 5. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full glass windscreen, able to be opened on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 7. Background illuminated (backlit) display with digits at least 15 mm high. 8. Level indicator in the view field of the display. 9. Built-in motorized calibration of weight with automatic adjustment (or calibration using an external standard weight). 10. Readability: 0.0001 g (0.1 mg). 11. Repeatability: 0.0002 g (0.2 mg). 11. Ibuilt Inbuilt 8. Software and/ or standard of communication(where ever required Inbuilt 9. Juinearity: 0.0002 g (0.2 mg). 10. Baproximate range of 600 (L)X 300 (W) X 300 mm (H) or lesser 3.2 Weight (Ibs, kg) Less than 5Kg. 3.3 Noise (in dBA) Noise pressure level: ≤60 dbA. 3.4 Heat dissipation Almost Zero.			TECHNICAL		
(specific to this type of device)2. Building: Stainless Steel housing. 3. Display: 6 digits LCD. 4. Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. 5. Stainless steel weighing pan, approximately 80 mm diameter. 7. Full glass windscreen, able to be opened on both sides and from the top cover. 8. Adjustable feet (so the balance can be levelled). 6. Waterproof display and keypad, sealed by a durable flexible membrane. 7. Background illuminated (backlit) display with digits at least 15 mm high. 8. Level indicator in the view field of the display. 9. Built-in motorized calibration of weight with automatic adjustment (or calibration using an external standard weight). 10. Readability: 0.0001 g (0.1 mg). 11. Repeatability: 0.0001 g (0.1 mg). 12. Linearity: 0.0002 g (0.2 mg).2.2User's interfaceManual, English Menu2.3Software and/ or standard of communication(where ever requiredInbuilt3.1Dimensions(metric)In approximate range of 600 (L)X 300 (W) X 300 mm (H) or lesser 3.23.2Weight (lbs, kg)Less than 5Kg. 3.33.3Noise (in dBA)Noise pressure level: ≤60 dbA. Almost Zero.			2. TECHNICAL CHARACTERISTICS		
Software and/ or standard of communication(where ever required Inbuilt 3.1 Dimensions(metric) In approximate range of 600 (L)X 300 (W) X 300 mm (H) or lesser 3.2 Weight (lbs, kg) Less than 5Kg. 3.3 Noise (in dBA) Noise pressure level: ≤60 dbA. 3.4 Heat dissipation Almost Zero.	2.1	(specific to this type of device)	 Building: Stainless Steel housing. Display: 6 digits LCD . Function like Gross Weight - Net Weight - Tare - Auto-zero should be available. Stainless steel weighing pan, approximately 80 mm diameter. Full glass windscreen, able to be opened on both sides and from the top cover. Adjustable feet (so the balance can be levelled). Waterproof display and keypad, sealed by a durable flexible membrane. Background illuminated (backlit) display with digits at least 15 mm high. Level indicator in the view field of the display. Built-in motorized calibration of weight with automatic adjustment (or calibration using an external standard weight). Repeatability: 0.0001 g (0.1 mg). Repeatability: 0.0002 g (0.2 mg). 		
2.3communication(where ever required3.1Communication(where ever S. PHYSICAL CHARACTERISTICS3.1Dimensions(metric)3.2Weight (lbs, kg)3.3Noise (in dBA)3.4Heat dissipationAlmost Zero.	2.2		Manual, English Menu		
3.1 Dimensions(metric) In approximate range of 600 (L)X 300 (W) X 300 mm (H) or lesser 3.2 Weight (lbs, kg) Less than 5Kg. 3.3 Noise (in dBA) Noise pressure level: ≤60 dbA. 3.4 Heat dissipation Almost Zero.	2.3	communication(where ever	Inbuilt		
3.2 Weight (lbs, kg) Less than 5Kg. 3.3 Noise (in dBA) Noise pressure level: ≤60 dbA. 3.4 Heat dissipation Almost Zero.					
3.3 Noise (in dBA) Noise pressure level: ≤60 dbA. 3.4 Heat dissipation Almost Zero.	3.1	Dimensions(metric)	In approximate range of 600 (L)X 300 (W) X 300 mm (H) or lesser		
3.4 Heat dissipation Almost Zero.	3.2	Weight (lbs, kg)	Less than 5Kg.		
	3.3	Noise (in dBA)	Noise pressure level: ≤60 dbA.		
2.5 Mobility nortability Portable	3.4	Heat dissipation	Almost Zero.		
	3.5	Mobility, portability	Portable		

4.1 Power requirements 230V AC/50Hz/1Phase 4.2 Battery operated Yes 4.3 Protection Stabilizer or inbuilt protection to voltage fluctuation/current surge. 4.4 Power consumption Less than 50W S. ACCESSORIES, SPARE PARTS, CONSUMABLES 5.1 Accessories, (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system) Balance table with vibration bumpers suitable for granite or tile table External weights for calibration in absence of internal auto calibration BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS	-
4.3 Protection Stabilizer or inbuilt protection to voltage fluctuation/current surge. 4.4 Power consumption Less than 50W S. ACCESSORIES, SPARE PARTS, CONSUMABLES S. ACCESSORIES, SPARE PARTS, CONSUMABLES S. ACCESSORIES, SPARE PARTS, CONSUMABLES S. Accessories, (mandatory, standard, optional); Balance table with vibration bumpers suitable for granite or tile table External weights for calibration in absence of internal auto calibration consumables/reagents (open, closed system)	
4.4 Power consumption Less than 50W 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); 5.1 Spare parts (main ones); Consumables/reagents (open, closed system) Balance table with vibration in absence of internal auto calibration	
Solution Sector 5. ACCESSORIES, SPARE PARTS, CONSUMABLES Accessories, (mandatory, standard, optional); Balance table with vibration bumpers suitable for granite or tile table External weights for calibration in absence of internal auto calibration Consumables/reagents (open, closed system)	-
Accessories, (mandatory, standard, optional);Balance table with vibration bumpers suitable for granite or tile table External weights for calibration in absence of internal auto calibration consumables/reagents (open, closed system)5.1Accessories, (mandatory, standard, optional); Consumables/reagents (open, closed system)Balance table with vibration bumpers suitable for granite or tile table External weights for calibration in absence of internal auto calibration	-
Accessories, (mandatory, standard, optional);Balance table with vibration bumpers suitable for granite or tile table External weights for calibration in absence of internal auto calibration consumables/reagents (open, closed system)5.1Accessories, (mandatory, standard, optional); Consumables/reagents (open, closed system)Balance table with vibration bumpers suitable for granite or tile table External weights for calibration in absence of internal auto calibration	-
BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS	
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS	
6.1 Atmosphere/Ambience (air conditioning, humidity, dust) Capable of working in 50-100% humid condition and in temperature of 5-40 degree Celsius.	
6.2User's care, Cleaning, Disinfection & Sterility issuesShould be compatible with Medical grade disinfectant solutions like (hydrogen peroxide solution.	lidex or
7. STANDARDS AND SAFETY	
 Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or international 1. The medical devices should be US FDA/CE/BIS/CDSCO/AERB appro (US FDA/CE requirements will be applicable only when the Indian sta on medical devices laid by organization like BIS/CDSCO/AERB is not available). 2. Manufacturer and Supplier should have ISO 13485 certification for standards. 3. Electrical safety conforms to the standards for electrical safety IEC 1-General requirements(or equivalent BIS Standard). 4. Shall meet IEC 60601-2-38 General Requirements of Safety of Electrical Equipments part 2-38 Particular requirements for safety of Electrical Equipments part 2-38 Particular requirements for safety of Electrical Equipments part 2-38 Particular requirements for safety of Electrical Equipments part 2-38 Particular requirements for safety of Electrical Equipments part 2-38 Particular requirements for safety of Electrical Equipments part 2-38 Particular requirements for safety of Electrical Equipments part 2-38 Particular requirements for safety of Electrical Poperated Hospital Beds 4. History of adverse events and actions (Recall/Filed safety correction taken by manufacturer on the product should be made available to procurer. Such Information (as and when happen) after commission of product should be continued to be provided to purchaser till manufa of same type product is curtailed. 	ndards quality 60601- edical 0 9001. on etc)
8. TRAINING AND INSTALLATION	
Pre- installation requirements: Not required. 8.1 nature, values, quality, tolerance	
8.2 Requirements for sign-off Compliance with quantity checklist, Quality checks of the product and certificate from Legal Meteorology department.	d
8.3Training of staff (medical, paramedical, technicians)Hands on training to be provided to healthcare professional on using weighing scale, day to day maintenance/cleaning. Hand on training for in-house (Biomedical engineers) preventive/com maintenance (hardware/software).	
9. WARRANTY AND MAINTENANCE	
9.1 Warranty 3 years, including all spares and calibration or State/UT may also including	

		medical devices in NHM Biomedical Equipment management and maintenance program.			
10.1	Operating manuals, set manuals, other manuals	One copy (hardcopy and softcopy) to be provided on user manual/operating manual and service/Technical manual			
10.2	Other accompanying documents	Certification Documents implying compliance to standards and from Legal Meteorology department on weighing machine.			
11. Notes					
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	 1.Contact details of manufacturer, supplier and local service agent to be provided; 2Any Contract(AMC/CMC/add-hoc)rate available to be declared by the manufacturer. Purchaser may engage third party for maintenance of equipment and vendor needs to comply in all terms. 3.Manufacture/Supplier of medical devices should provide price quote for spare part of medical device or supply item, against requisition/Purchase order from biomedical engineers/technicians. 			
11.2	Recommendations or warnings	Any warning sign would be adequately displayed on weighing scale.			

Measuring Jar-liquid		
Version no. :		Draft_1
Date:		03/09/2018
Done	by : (name.institution)	HCT/NHSRC
	N	AME, CATEGORY AND CODING
UMD	NS name	15586
UMD	NS code(s)	jars
		GENERAL
		1. USE
1.1	Clinical purpose	These Jars are suitable for analysing quantity of alcohol, body fluid, biological specimen from stomach or bladder etc. in cadaver.
1 2	Used by clinical	Postmortem Department
1.2	department/ward	
		TECHNICAL
	1	2. TECHNICAL CHARACTERISTICS
	Technical characteristics	Measuring Jar is made of stainless steel 202 grade.
	(specific to this type of device)	1. These autoclavable jugs must have excellent transparency and good chemical resistance.
	uevicej	2. These jugs are provided with a handle for easy & convenient lifting
		and neatly raised graduations for accurate reading.
2.1		3. Suitable for dispensing liquid and dry medications. Strong, flexible
		cups measure grams , fluid ounces and mL's , and cc's . The translucent jar should have lips/mouths.
		4.Translucent jar should have with lip raised graduations on the
		outside of the cup.
		4. There should be 5 Jars each capable of measuring 50 ml, 100ml,
	Handa Sata da a	250ml,500ml, 1Liter.
2.2	User's interface	Manual
2.3	Software and/ or standard of communication(where ever	Not required.
2.5	required	
	l 	3. PHYSICAL CHARACTERISTICS
3.1	Dimensions(metric)	50ml, 100ml,250ml,500ml and 1L.
3.2	Weight (lbs, kg)	Less than 500grams.
3.3	Noise (in dBA)	Zero
3.4	Heat dissipation	Zero
3.5	Mobility, portability	Portable
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	Power requirements	Zero
4.2	Battery operated	Not required
4.3	Protection	Not required
4.4	Power consumption	Zero
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		

5.1	Accessories, (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents	Balance table with vibration bumpers, preferably granite isolator.
	(open, closed system)	
	BIDDING/PROCU	REMENT TERMS/DONATION REQUIREMENTS
		NTAL AND DEPARTMENTAL CONSIDERATIONS
6.1	Atmosphere/Ambience (air conditioning, humidity, dust)	Capable of working in 50-100% humid condition and in temperature range of 5-40 degree Celsius.
6.2	User's care, Cleaning,	Should be compatible with Medical grade disinfectant solutions like
	Disinfection & Sterility issues	Cidex or hydrogen peroxide solution.
		7. STANDARDS AND SAFETY
7.1	Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or international	The medical devices should be US FDA/CE/BIS/CDSCO/AERB approved (US FDA/CE requirements will be applicable only when the Indian standards on medical devices laid by organization like BIS/CDSCO/AERB is not available). History of adverse events and actions (Recall/Filed safety correction etc) taken by manufacturer on the product should be made available to procurer. Such Information (as and when happen) after commission of product should be continued to be provided to purchaser till manufacturing of same type product is curtailed.
	Pre-installation	. TRAINING AND INSTALLATION
8.1	requirements: nature, values, quality, tolerance	Not required
8.2	Requirements for sign-off	Compliance with quantity checklist and Quality checks of the product
8.3	Training of staff (medical, paramedical, technicians)	Hands on training to be provided to healthcare professional on using measuring jar, day to day maintenance/cleaning.
	9.	WARRANTY AND MAINTENANCE
9.1	Warranty	1 year warranty or State/UT may also include the medical devices in NHM Biomedical Equipment management and maintenance program.
		10. DOCUMENTATION
10.1	Operating manuals, set manuals, other manuals	One copy (hardcopy and softcopy) to be provided on user manual/operating manual and service/Technical manual
10.2	Other accompanying documents	Not required
		11. Notes
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	 Contact details of manufacturer, supplier and local service agent to be provided; Any Contract(AMC/CMC/add-hoc)rate available to be declared by the manufacturer. Purchaser may engage third party for maintenance of equipment and vendor needs to comply in all terms.
11.2	Recommendations or warnings	Any warning sign would be adequaetly displayed.

Post Mortem Personal Protectives (Aprons, Gloves, Goggles, Boots, Mask)

Version no. : D		Draft_1	
Date:		03/09/2018	
Done by : (name. institution)		HCT/NHSRC	
	N	AME, CATEGORY AND CODING	
UMDI	NS name	Surgical Apron, Goggles, Boots, personnel protection mask.	
	NS code(s)	27453,3104,34043,10301.	
0.1101		GENERAL	
		1. USE	
	Clinical purpose	To provide personnel protection to surgeon /healthcare professional	
1.1		from spills & spatters during autopsy.	
4.0	Used by clinical	Post-mortem Department	
1.2	department/ward		
		TECHNICAL	
	2	2. TECHNICAL CHARACTERISTICS	
2.1	Technical characteristics (specific to this type of device)	Surgical Apron (1 Quantity per healthcare professional) i. Fluid penetration resistance- Should be made of polyethylene or polypropylene. ii. Reusable. iii. Washable using hand or machine. iv. Long-sleeved, cuffed apron Gloves (1 Box of minimum 50 units) i. BIS specifications gloves (IS 13422), surgical rubber made of Hypoallergic latex. ii. sterilised by Gamma Radiation / ETO. iii. Highly durable with smooth surface iv. Full fingered wear type with long sleeve. v. Colour: Orange, White, Cream white. Goggles (1 Quantity per healthcare professional) i. Should be Scratch resistant ii. Should be of Polycarbonate single-lens glasses Built-in iii. Should have Side shields Eyebrows protection Boots (1 Quantity per healthcare professional) i. Should be made of PVC-Nitrile rubber ii. Should be uniter-resistant sole, anti-static, high flexibility even at low temperatures. Non-slip, oil and grease resistant. iii. Should be unisex and washable. Mask (1 Box of minimum 50 units) 1. Should be facial surgical mask. ii should have outer layer: polypropylene non-woven fabric-like, middle layer / filter: meltblown and outer layer: polypropylene non-woven.	
2.2	User's interface	Manual	
2.3	Software and/ or standard of communication(where ever required	Not required	
	3. PHYSICAL CHARACTERISTICS		

3.1	Dimensions(metric)	All sizes.
3.2	Weight (lbs, kg)	Not required.
3.3	Noise (in dBA)	Zero
3.4	Heat dissipation	Zero
3.5	Mobility, portability	Portable
	4. ENERGY SOU	RCE (electricity, UPS, solar, gas, water, CO2)
4.1	Power requirements	Zero
4.2	Battery operated	Not required.
4.3	Protection	Not required
4.4	Power consumption	Not required
	5. ACCES	SSORIES, SPARE PARTS, CONSUMABLES
5.1	Accessories, (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)	Balance table with vibration bumpers, preferably granite isolator.
	BIDDING/PROCU	REMENT TERMS/DONATION REQUIREMENTS
	6. ENVIRONME	NTAL AND DEPARTMENTAL CONSIDERATIONS
6.1	Atmosphere/Ambience (air conditioning, humidity, dust)	Capable of working in 50-100% humid condition and in temperature range of 5-40 degree Celsius.
6.2	User's care, Cleaning, Disinfection & Sterility issues	All reusable items should be compatible with Medical grade disinfectant solutions like Cidex or hydrogen peroxide solution. Easy to wash or autoclave (As per manufacture instructions on products)
		7. STANDARDS AND SAFETY
7.1	Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or international	1.The medical devices should be US FDA/CE/BIS/CDSCO/AERB approved (US FDA/CE requirements will be applicable only when the Indian standards on medical devices laid by organization like BIS/CDSCO/AERB is not available).
	8	. TRAINING AND INSTALLATION
8.1	Pre- installation requirements: nature, values, quality, tolerance	Not required
8.2	Requirements for sign-off	Compliance to quality parameters and quantity.
8.3	Training of staff (medical, paramedical, technicians)	Hands on training to be provided to healthcare professional on using measuring jar, day to day maintenance/cleaning.
	•	WARRANTY AND MAINTENANCE
9.1	Warranty	1 year
		10. DOCUMENTATION
10.1	Operating manuals, set manuals, other manuals	One copy (hardcopy and softcopy) to be provided on user manual/operating manual.
10.2	Other accompanying documents	Not required.
11. Notes		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline	Contact details of manufacturer, supplier and local service agent to be provided; Any Contract(AMC/CMC/add-hoc) to be declared by the manufacturer.

	number)	Purchaser may engage third party for maintenance of equipment and vendor needs to comply in all terms.
11.2	Recommendations or warnings	Any warning sign would be adequately displayed.

Sp	Spot Light		
		Draft_1	
Version no. :		03/09/2018	
Date: Done by : (name.institution)		HCT/NHSRC	
Done			
		AME, CATEGORY AND CODING	
	NS name	Spot light, High Intensity 26899	
UNDI	NS code(s)		
		GENERAL 1. USE	
1.1	Clinical purpose	Spot lights used to illuminate cadaver for autopsy purpose	
1.2	Used by clinical department/ward	Post mortem Department.	
		TECHNICAL	
		2. TECHNICAL CHARACTERISTICS	
2.1	Technical characteristics (specific to this type of device)	 Source of Light: LED light Minimum 160,000-140,000 Lux at a working distance of 0.5m Height adjustment: ≤440mm and colour rendering (Ra 98). Radial and axial movement of the lamp. Stable construction and manoeuvrable. Water proof/splash proof. Wheel should have brake. 	
2.2	User's interface	Manual using touch screen or buttons/switches.	
2.3	Software and/ or standard of communication(where ever required	Not required	
	•	3. PHYSICAL CHARACTERISTICS	
3.1	Dimensions(metric)	Minimum 7 feet in length.	
3.2	Weight (lbs, kg)	Less than 150Kg	
3.3	Noise (in dBA)	Noise pressure level: ≤60 dbA.	
3.4	Heat dissipation	Not required.	
3.5	Mobility, portability	Portable	
	4. ENERGY SOU	RCE (electricity, UPS, solar, gas, water, CO2)	
4.1	Power requirements	Nominal 230V AC/ 50 Hz/1 phase.	
4.2	Battery operated	Yes, To least for at least 2 hour with sealed batteries	
4.3	Protection	Should have voltage stabilizer and surge protection.	
4.4	Power consumption	Less than 100W	
	5. ACCES	SORIES, SPARE PARTS, CONSUMABLES	
5.1	Accessories, (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)	Not required.	
BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS			
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS			
6.1	Atmosphere/Ambience (air conditioning, humidity, dust	Capable of working in 50-100% humid condition and in temperature range of 5-40 degree Celsius.	

)	
6.2	User's care, Cleaning, Disinfection & Sterility issues	All reusable items should be compatible with Medical grade disinfectant solutions like Cidex or hydrogen peroxide solution. Easy to wash or autoclave (As per manufacture instructions on products)
		7. STANDARDS AND SAFETY
7.1	Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or international	 The medical devices should be US FDA/CE/BIS/CDSCO/AERB approved (US FDA/CE requirements will be applicable only when the Indian standards on medical devices laid by organization like BIS/CDSCO/AERB is not available). History of adverse events and actions (Recall/Filed safety correction etc) taken by manufacturer on the product should be made available to procurer. Such Information (as and when happen) after commission of product should be continued to be provided to purchaser till manufacturing of same type product is curtailed. Manufacturer should have ISO 13485 certification for quality standards. Electrical safety conforms to the standards for electrical safety IEC 60601-1-General requirements (or equivalent BIS Standard).
	8	. TRAINING AND INSTALLATION
8.1	Pre- installation requirements: nature, values, quality, tolerance	Power supply 230V AC/50Hz/1 Phase
8.2	Requirements for sign-off	Compliance with quantity checklist, Quality check of the product.
8.3	Training of staff (medical, paramedical, technicians)	 1.Hands on training to be provided to healthcare professional on using table, day to day maintenance/cleaning. 2.Hand on training for in-house (Biomedical engineers) preventive/corrective maintenance (hardware/software).
	9.	WARRANTY AND MAINTENANCE
9.1	Warranty	3 years, including all spares and calibration or State/UT may also include the medical devices in NHM Biomedical Equipment management and maintenance program.
		10. DOCUMENTATION
10.1	Operating manuals, set manuals, other manuals	One copy (hardcopy and softcopy) to be provided on user manual/operating manual and service/Technical manual.
10.2	Other accompanying documents	Certification on quality of stainless steel. Compliance with autopsy table standards or regulation.
		11. Notes
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	 Contact details of manufacturer, supplier and local service agent to be provided; Any Contract(AMC/CMC/add-hoc)rate available to be declared by the manufacturer. Purchaser may engage third party for maintenance of equipment and vendor needs to comply in all terms.
	December detters er	3.Manufacture/Supplier of medical devices should provide price quote for spare part of medical device or supply item, against requisition/Purchase order from biomedical engineers/technicians.
11.2	Recommendations or warnings	Any warning sign would be adequately displayed on equipment.