

File No.GEM/TP/High Vacuum Suction Machine/2018 (Version 3.0)													Final Draft T/P		
Level 1 Category: Medical Equipment and Accessories and Supplies -UNSPS Code 42000000															
Level 2 Category:Surgical products - UNSPS Code 42290000															
Level 3 Category: Surgical equipment and accessories and related products -UNSPS Code 42295100															
Level 4 Category: High Vacuum Suction Machine for medical purposes -UNSPS Code 42295123													GEM Version 3.0		
S.NO	PARAMETER	HINT	TYPE OF FIELD	VALUES (in drop down box for selection of values from the options if available)									UNIT	CATEGORY OF FIELD	REMARKS
GENERAL FEATURES															
1	Product description	--	ENUMERABLE	High Vacuum suction machine -Medical (Aspiration unit)								--	MANDATORY		
2	Clinical purpose	--	ENUMERABLE	Suction may be used to clear the respiratory tract/airway of blood, saliva, vomit, or other secretions so that a patient may breathe, also to remove the blood from the area where surgery is to be carried out									--	MANDATORY	
3	Application	--	ENUMERABLE	Minor OT, Surgery, Intensive care unit, Emergency department, Wards, Obstetrics, Gastroenterology, Plastic surgery									--	MANDATORY	
MATERIAL & CONSTRUCTION															
1	Material of cabinet (Base, top and panel)	--	ENUMERABLE	Epoxy powder coated Mild Steel (MS)	Epoxy powder coated Mild Steel (MS) with SS Top	Complete SS body	ABS Plastic moulded						--	GOLDEN PARAMETER	
2	Rust proof housing cabinet and castor wheels	--	ENUMERABLE	Yes									--	MANDATORY	
3	The unit is mounted in such a way as to produce minimum vibrations	--	ENUMERABLE	Yes									--	MANDATORY	
4	Material of twin jars/bottles	--	ENUMERABLE	Glass	unbreakable Polycarbonate (PC)	unbreakable Polysulfone (PS)							--	GOLDEN PARAMETER	
5	Suction bottles/jars with Synthetic rubber lid and fitted with arrangement to prevent overflow of fluid to outside	--	ENUMERABLE	Yes									--	MANDATORY	
6	Capacity of each suction bottle/jar graduated (ml)	--	NUMERIC	1000	1500	2000	2500	4000				ml	--	GOLDEN PARAMETER	
7	Interconnected jar/bottle with overflow protection device	--	ENUMERABLE	Yes									--	MANDATORY	
8	Double overflow protection with safety device provided	--	ENUMERABLE	Yes									--	MANDATORY	
9	Non-collapsible suction tubing ID (mm)	--	NUMERIC	8	10								--	MANDATORY,FILTER	
10	Material of suction tube	--	ENUMERABLE	PVC (Medical Grade)	Silicon	PVC	Rubber as per Gr.1, Type A of IS:637/1965						--	GOLDEN PARAMETER	
11	Minimum Length of suction tube (mtr)	--	NUMERIC	2								mtr	--	MANDATORY	
12	Flutter free vacuum control knob provided	--	ENUMERABLE	Yes									--	MANDATORY	
13	Bacterial suction filter/air filters and water traps between the suction bottle and suction pump provided	--	ENUMERABLE	Yes									--	MANDATORY	
14	Material of tray	--	ENUMERABLE	Stainless Steel (SS)									--	MANDATORY	
15	Vacuum Gauge (Bourdon tube type) with concentric scale marking in black on white background, mounted in panel, easily visible during use of machine	--	ENUMERABLE	5 cm dia, 0 to 760mmHg	6.25cm dia, 0 to 760mmHg	7.5cm dia, 0 to 760mmHg	10Cm dia, 0 to 760mmHg						--	GOLDEN PARAMETER	
16	Entire unit mounted on four castor wheels with minimum two breaks	--	ENUMERABLE	Yes									--	MANDATORY	
17	Material of castor wheels	--	ENUMERABLE	Rubber	Thermoplastic Rubber(TPR)	Polyolefin	Polyurethane(PU)	Nylon	Silicon	Cast Iron	Aluminium	Stainless Steel (SS)	--	GOLDEN PARAMETER	
18	Facility for easy maintenance	--	ENUMERABLE	Top open	Side open	Back open							--	MANDATORY,FILTER	
19	Size (HxWxL) (mmxmmxmm)	Must declare	TEXT									mmxmmx mm	--	MANDATORY	
20	Weight (Kg)	--	ENUMERABLE	7 to 12	12 to 20	20 to 30	30 to 40					Kg	--	MANDATORY	

OPERATIONAL & TECHNICAL REQUIREMENTS														
1	Input power supply	--	ENUMERABLE	220+/-10% V, 50Hz, Single phase AC	220+/-10% V, 50Hz, Single phase AC and also 12v, DC battery operated								--	GOLDEN PARAMETER
2	Power consumption (Watt)	Must declare	NUMERIC										Watt	MANDATORY
3	Power indicator	--	ENUMERABLE	Yes									--	MANDATORY
4	Integrated on/off switch on the trolley	--	ENUMERABLE	Yes									--	MANDATORY
5	In-built maintenance free battery of suitable capacity provided	--	ENUMERABLE	Yes									--	MANDATORY
6	Minimum battery backup on full charge (minutes)	--	NUMERIC	30	60	NA							minute	GOLDEN PARAMETER
7	Power cable for usage in ambulance/car provided	--	ENUMERABLE	Yes	No								--	MANDATORY,FILTER
8	Motor capacity (HP)	--	NUMERIC	0.25	0.5	0.75	1.0						--	GOLDEN PARAMETER
9	The motor shall conform to IS:996/1979	--	ENUMERABLE	Yes									--	MANDATORY
10	Type of suction pump	--	ENUMERABLE	Oil immersed	Oil free								--	GOLDEN PARAMETER
11	Heavy duty motorized pump for fast vacuum built-up	--	ENUMERABLE	Yes									--	MANDATORY
12	Minimum air flow displacement of suction pump (Ltrs/Minute)	--	ENUMERABLE	25 to 30									Lts/Min	MANDATORY
13	Built-up Vacuum (Maximum)	--	ENUMERABLE	-600 +/-10mmHg (-80kPa)	-700 +/-10mmHg (-93kPa)	-713 +/-10mmHg (-95kPa)	-720 +/-10mmHg (-96kPa)						mmHg	GOLDEN PARAMETER
14	Sound level (Maximum) (dB)	--	ENUMERABLE	55									dB	MANDATORY
STANDARD ACCESSORIES														
1	Compatible 3 core power cord with Indian plug	--	NUMERIC	2meter length	5 meter length								--	MANDATORY,FILTER
2	Jars/ Bottles (No)	--	NUMERIC	2									No	MANDATORY
3	Suction tubing (set)	--	NUMERIC	1	2	3							--	GOLDEN PARAMETER
PACKING MODE														
1	The product is packed individually in a wooden/corrugated box including all the accessories in such a way that there will be no transit damage during transportation till destination	--	ENUMERABLE	Yes									--	MANDATORY
ENVIRONMENTAL CONSIDERATIONS														
1	Storage conditions	--	ENUMERABLE	Temperature 0 deg C to 50 deg C, RH 10% to 90%									--	MANDATORY
2	Work or usage environment	--	ENUMERABLE	Temperature 10 deg C to 50 deg C, RH 10% to 90%									--	MANDATORY
MARKING														
1	Product is ISI Marked	--	ENUMERABLE	Yes	No								--	MANDATORY,FILTER
2	BIS License No (CM/L No)	Must declare, write "0" if not applicable	NUMERIC										--	MANDATORY

CERTIFICATIONS & REPORTS															
1	Submission of Test Report from OEM complying the declared specification at the time of supply	--	ENUMERABLE	YES									--	MANDATORY	
2	Product certification	--	ENUMERABLE	BIS	EU-CE	US-FDA							--	MANDATORY,FILTER	Multiselect
3	Certificate No	Must declare	TEXT										--	MANDATORY	
4	Certificate Date	Must declare	TEXT										--	MANDATORY	
5	Certificate issuing authority	Must declare	TEXT										--	MANDATORY	
6	Certification, performance and safety standards specific to the device	--	ENUMERABLE	IEC 60601-1:2012	IEC 6060-1-2:2014	IS:4533/1995	IS:7080 (Part-3)/1992						--	MANDATORY	Multiselect
7	Submission of all the certifications and test reports to the buyer along with supplies on demand	--	ENUMERABLE	Yes									--	MANDATORY	
WARRANTY & MAINTENANCE															
1	Onsite Warranty (Year)	--	NUMERIC	2	3	4	5						Year	GOLDEN PARAMETER	
2	User technical and maintenance manual detailing complete maintaining schedule with routine maintenance should be provided	--	ENUMERABLE	Yes									--	MANDATORY	
3	Contact details of manufacturer, supplier and local service agent to be provided	--	ENUMERABLE	Yes									--	MANDATORY	

(A. KESAVA RAO)
AD, GEM-SPV

(MANJU SHARMA)
DY.CEO

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