FILE No.																	
Creator : Moderator : Shri A.V.Muralidharan (Dy. CEO GeM) Approver :																	
	Sub Category :																
	: UNSPSC Code																
S.No.	Parameters			Value 1	Value2	Value 3	Value 4	Value 5	Value 6	Value 7	Validation	Whether Filter Required	Golden parameter	Remarks	priority	Unit	Demand Aggregation
1	System should have ultrasonic energy as well as Advance RF Energy/Bipolar energy device for cutting and tissue dissection and vessel sealing with a sinusoidal forced impedance output. `	P	E	yes													
2	Mode of Provision of both Ultrasonic Energry and Radio Frequency energy	P	E	Single generator unit Combining both	Dual generator unit comprising separate Generators												
3	The switch and control systems provided	P	E	Single in case of single unit	Separate in case of separate generators												
4	Type of activation available for operating ultrasonic energy and/or RF energy system as per requirement	P	E	Both Hand Switch and Foot Switch	Foot Switch	Hand Switch											
5	Should have the ability to change the power settings selections during the use	P	E	Available	Not Available												
6	Type of Display	P	E	LED	LCD												
7	Type of control	P	E	Touch Screen	Switch												
8	Should have stand by mode to ensure saftey	P	E	yes													
9	System should'have onscreen warning display system for generator overheating, generator software upgrade,hand piece errors and instrument errors			Yes	No												
10	Consumable compatibility with surgery type allowing simultaneous cutting and coagulation of tissues	P	E	Both open and Laproscopic	Laproscopic	Open											
11	Should be compatible with integrated ultrasonic energy instruments which can simultaneously seal and transect vessels , large pedicles and vascular bundles with ultrasonic energy with system feedback	P	E	Yes													
12	The capacity of ultrasonic energy instruments for working with	P	E	Up to and including 5mm vessels	Up to and including 7 mm vessels												

13	Should be compatible with integrated RF/bipolar instruments which can simultaneously seal and transect vessels, large pedicles and vascular bundles with RF energy with system feedback	P	E	Yes													
14	The capacity of RF/Bipolar energy instruments for working with	P	E	Upto and including 5 MM vessels	Upto and including 7 MM vessels												
15	The frequency range ofinstruments ultrasonic device can power in KHZ	P	E	40-50	50-60	60-70											
16	Nummber of power setting levels with power level display for ultrasonic energy instrument	P	E	3	4	5	6	7	8	9							
17	Area of lateral thermal spread not to exceed	P	E	1 mm													
18	Maximum shaft dimeter of ultrasonic instruments that can be connected	P	E	5mm	6 MM	7MM	8mm	9 mm									
19	Movement of shaft rotation for compatible energy consumables available during surgical procedures in degrees	P	E	360 degree	270 degree	180 degree											
20	Total articulation ability (Left and Right side of distal portion of shaft) for RF consumables during a laparoscopic surgery for enhanced flexibility and maneuverability	P	E	110 to 150	151 to 180	181-240											
21	Classifiction of System to provide adequate protection against electric shock	P	E	Class 1													
22	Temperature control feedback mechanism available to achieve minimal thermal spread to be specified	P	Text														
23	instrument recognition system	P	E	Automatic instrument recognition	Manual instrument recognition												

24	Interface modality for allowance of software upgrades	P	E	USB	USB/Wired Interface												
25	The equipment shall conform to standards such as EN (IEC 606001-1-1-2,EN (IEC 606001-1-1-2,	P	E	Yes	No												
26	Should come equipped with system diagnostics and troubleshooting guide to pin point any problem in the system	P	E	Yes	No												
27	Well-equipped service centre should present in India with company trained OEM Engineers/Technicians approved by OEM	P	E	Yes	No												
28	Generator cart, offered	P	E	Yes	No												
29	Adapters for ultrasonic and rafiofrequency instruments shall be supplied	P	E	Yes	No												
30	Separate Hand piece (transducers) compatible with various ultrasonic hand instruments of OEM used as per applicability in Open and laparoscopic surgeries to last for upto 90 cases	A	E	Yes													
34	Ultrasonic 5 mm Laparoscopic hand activated curved tip coagulating probe supplied compatible with maximum vessel sealing 0f 7mm	A	E	1	2	NA											
35	Ultrasonic 5 mm Laparoscopic hand activated curved tip coagulating probe supplied compatible with maximum vessel sealing 0f 5 mm	A	E	1	2	NA											
36	Ultrasonic hand activated curved tip coagulating probe for open surgery supplied Compatible for up to 7mm vessel sealing	A	E	1	2	NA											
37	Ultrasonic hand activated curved tip coagulating probe for open surgery supplied Compatible for up to 5 mm vessel sealing	A	E	1	2	NA											

38	Advanced RF/Bipolar 5 mm Laparoscopic hand activated curved tip coagulating probe supplied for up to 7mm vessel sealing	A	E	1	2	NA											
39	Advanced RF/Bipolar 5 mm Laparoscopic hand activated curved tip coagulating probe supplied for up to 5 mm vessel sealing	A	E	1	2	NA											
40	Advanced RF/Bipolar hand activated curved tip coagulating probe for open surgery Suppliedfor 7mm vessel sealing	A	E	1	2	NA											
41	Advanced RF/Bipolar hand activated curved tip coagulating probe for open surgery Suppliedfor up to 5mm vessel sealing	A	E	1	2	NA											
42	Comprehensive Warranty in years for complete equipment which shall be from the date of installation, commissioning trial run & handing over of equipment to consignee	P	E	1	2	3	4	5									
43	Product Literature (IFU) in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable			Yes	No												
44	All software updates should be provided free of cost during Warranty period.			Yes	No												
45	Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual ,abour and spares, after satisfactory completion of Warranty period	P	E	1	2	3	4	No CMC after warranty									
46	Certificate to be available from OEM/principal regarding approval of service centre maintained by seller to be availlable			Yes	No												
47	All software updates should be provided free of cost during warranty and CMC if included			Yes	No												

48	The number of equipment supplied and installed by the OEM or reseller of the similar equipment meeting major parameters of technical specification indicated which is functioning satisfactorily in India.	P	E	Nil	1	2	3	4 or more										
49	Main cable with power socket of standard indian make to be provided			Yes	No													
50	Complete technical training for personnel involved in the use and handling of the equipment on site at the buyer/consignee end immediately after its installation for a period as required by buyer not exceeding 5 days			Yes	No													
51	The unit shall be capable of being stored continuously in ambient temperature of 0 - 50 degree centigrade and humidity of 15-90%			Yes	No													
52	The unit shall be capable of operating continuously in ambient temperature of 10 - 40deg C and relative humidity of 15-90%			Yes	No													
53	Power input to be 220-240VAC, 50Hz fitted with Indian plug			Yes	No													
54	Suitable UPS with 30 min backup to be supplied with equipment			Yes	Not Applicable													
55	Certifications for product			US FDA	European CE	Both USFDA and Eropean CE												
56	Certification no and date to be indicated Text																	
57	Manufacturer should have EN ISO certification for quality standards			Yes	No													
58	Complete system and all accessories except items like UPS,Cable, Adaptors etc should be from same manufacturer or OEM			Yes														