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Corrigendum-II

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) had invited E-Bids from the interested parties for the procurement, rate contract and the supply of medical equipment for different Govt. Institutions of Bihar vide Notice Inviting Tender No.- BMSICL/2023-24/ME-311. During and after Pre-bid meeting various suggestions were received from different prospective bidders regarding amendment in technical specification of equipment which were discussed and deliberated on by the experts, who after due deliberation recommended certain amendments in the technical specification of the equipment, which are annexed as Annexure-I of this corrigendum. In order to facilitate maximum participation of bidders the tender schedule is being revised as follows:-

Tender Reference No.	BMSICL/2023-24/ME-311
Last date and time of submission of online bids	04 th July 2023 till 17:00 Hrs.
Last date and time of submission of original documents of EMD, Tender Fee and Document	05 th July 2023 till 14:00 Hrs.
Date, Time and Place of opening of Technical Bid	05 th July 2023 (at 15:00 Hrs.) on the website of https:/eproc2.bihar.gov.in in the office of BMSICL
Date and time of opening of financial Bids	To be announced later on https:/eproc2.bihar.gov.in

Note:-

- 1. Bidders are advised to refer to the Annexure-I of this corrigendum before submission of bid.
- 2. Those who have submitted their bids are requested to re-submit their bids in accordance with this corrigendum.

Annexed:- as above

Sd/-GM (Procurement) BMSICL

	Annexure-I		
	Name of Equipment: - Laparoscopy System with Hand Instruments		
SI. No	Technical Specification as per tender	Amendment	
S1. NO	It shall be a combination of suction/irrigation pump for use in gynecological, laparoscopic and other endoscopic interventions. The adaptation to the correct mode of surgery intended should happen automatically and manually when the correct type of tubing is used. The insertion of pressure lines in to the unit should be simplified for ease of use. The unit should be equipped with electronic, safety circuits that cut the suction/irrigation	It shall be a combination of suction/irrigation pump for use in gynecological, laparoscopic and other endoscopic interventions. The adaptation to the correct mode of surgery intended should happen automatically and manually when the correct type of tubing is used. The insertion of pressure lines in to the unit should be simplified for ease of use. The unit should be equipped with electronic, safety circuits that cut the suction/irrigation operation if the unit departs consistently form the present	
	operation if the unit departs consistently form the present values. The suction/irrigation unit should have the	values. Laproscopy Suction Irrigation pump Can be any reputed make. It Should be Compatible with the system. No Change	
1	following features: It is compatible with the management system and can thus be controlled from inside the sterile area via Touch screen/touch keypad and from outside the sterile area via keyboard and mouse available at the Nurse station.	It Should compatible with the management system and can thus be controlled from inside/outside the sterile area via Touch screen/touch keypad	
	Easy to user bundle controls for the control of all functionalities.	Easy to user controls for the control of all functionalities.	
	Touch controls and digital displays ensure safe and precise adjustment of the set values.	No Change	
	During power – up, all system go through and automatic self- test and are only released after a positive result	No Change	
	Safety functions that control any departure from operator settings.	No Change	
	Automatic recognition of type of procedure intended, when tubing is inserted.	Deleted	
	Audible alarms in case of malfunction.	No Change	
	Suction rate preselect are saved in memory. Should have a suction mode that	Deleted Should have a suction made that	
	Should have a suction mode that automatically maintains irrigation pressure	Should have a suction mode that automatically/manual maintains irrigation	
	and flow constant.	pressure and flow constant.	
	The suction/ irrigation unit should have the following technical specifications:	No Change	
	Power Supply voltage: 100-240 V AC	No Change	
	Power frequency: 50-60 Hz	No Change	
	Operating conditions: $+10^{0}$ c to $+40^{0}$ c	No Change	
	Irrigation:		

	Pressure: - Selectable Mode 0.200&0.400	Draggyra should between 10 400 or more
	mmHg	Pressure should between 10-400 or more mm Hg
	Flow Rate – Selectable Mode 0-500 &0-	Flow Rate should between 10ml-
	1000ml/min	1000ml/Min or More
	Suction under-pressure:	No Change
	•	Suction Pressure 0 to 0.6-0.8 Bar or 60-80
	-Selectable Mode :0- (-)0.8 bar (80kpa)	kpa
	Pressure indicator Digital Display	Pressure Indicator digital display /LED light Marking display/ Bar Graph display
	Flow indicator Digital Display	flow Indicator digital display /LED light Marking display/Bar Graph display
	Certified to IEC 60601.1, CAN/CSA 22.2 No. 601.1-M90:	No Change
	Type of protection against electrical shocks shocks: protection class1	No Change
	Degree of protection against electrical shocks: Applied part of type BF	No Change
	Type of protection against moisture: dripwater protection as per IPX 1.	Type of protection against moisture dripwater protection as per IPX 1 or equivalent
	Us FDA/ European CE (Issued by a notified body) approved Model should be offered.	No Change
	ELECTRONIC CO2 insufflator. (1 No)	No Change
	It should have following features: -	No Change
	Heating insufflation tube for heating the Co2 gas up to patient body temperature.	Integrated Heating insufflation tube for heating the Co2 gas up to patient body temperature.
	Innovative sensitive mode for sensitive area such as pediatric application with safety limits in the pressure up to maximum 15 mm hg and flow range up to maximum 45ltr/min or more.	No Change
	High flow mode with flow performance up to 45 ltr/min.	No Change
2	Individually programmable procedure list for starting device with personal presets.	No Change
	Easy and intuitive use with user friendly colour touch screen for easy and precise setting of set values for pressure and flow and of insufflation mode, as well as for clear display of corresponding set values and actual values.	No Change
	Optical and acoustic alarm signals in the event of patient overpressure.	No Change
	Fully automatic electronically controlled gas refill.	No Change
	Safety system:- constant monitoring of intra abdominal pressure, any overpressure is reduced immediately.	No Change

Applicable for use in laparoscopy, in	
Thoracoscopy in proctology	
(for Transanal Endoscopic operational) and	
for endoscopy of the upper and lower	
gastrointestinal trac, as well as in cardiac	
surgery (open or endoscopically assisted	N. Cl
cardiac surgery to assure an optional air	No Change
extrusion and minimizing risk of	
postoperative wound infection- for minimally	
invasive cardiac surgery e.g. mitral valve	
surgery) and in vascular surgery(Endoscopic	
vessel harvesting)	
Control via Realistic user interface.	No Change
Should be supplied with smoke evacuation	Should be supplied with Internal or
unit.	External Smoke evacuation Unit
US FDA /European CE (Issued by a notified	
body) approved Model should be offered.	No Change
Technical Specifications: -	No Change
Gas flow 0 to 45 ltr/min or higher	No Change
Pressure 0 to 25 mmHg or higher	No Change
High flow mode (0 to 45 ltr/min)	No Change
Sensitive mode pressure 15 mm hg & flow	
sensitive application.	No Change
Electronic control and colour touch	
screen/touch keypad.	No Change
Following data are displayed on touch screen.	No Change
Set value pressure (0 to 25 mmHg)	No Change
Current patient pressure.	No Change
Current patient pressure	No Change
Set value gas flow (0 to 45 ltr/min)	No Change
Current gas flow	No Change
Gas Consumption (0.999 1)	No Change
Status of gas heating	No Change
Power supply 220 V AC 50 Hz	Power supply 220V AC 50 Hz
HIGH DEFINITION CAMERA SYSTEM	4K Camera Systems
1) 4 k Camera system and all compatible	No Change
instrument with 4K system	140 Change
The system should be truly Digital 4K	
endoscopic video camera. The system should	
have the maximum Resolution of 3840 X	No Change
2160 pixels. Progressive scan and the	110 Change
consistent use of 16 9 formats for input &	
output to guarantee genuine 4K	TD1
The system should have facility of optical &	The system should have facility of optical
Digital Zoom lens to enhance the quality of	or Digital Zoom lens to enhance the quality
image size and cross specialty usage of the	of image size and cross specialty usage of
camera system, regardless of the telescope	the camera system, regardless of the
USES.	telescope uses.
USB port for capturing FULL HD video/HD	Optional:-
stills in External USB drive and direct	USB port for capturing FULL HD

	interface of USB recording device from the	video/HD stills in External USB drive and
	camera head.	direct interface of USB recording device
	Camera nead.	from the camera head.
	Technical Specifications:	from the camera nead.
	Image sensor: 3CCD or 3 chip CMOS	
	progressive scan.	No Change
	Pixel: 3840 X 2160	No Change
	AGC: Microprocessor controlled.	No Change
	Lens:-It should be optical Zoom lens f=13 to	Lens: It should be optical Zoom lens f=13
	29 mm	to 29 mm or Digital Zoom 0-2 X
	Minimum light sensitivity: 1 17 Lux (f =1.4	Minimum light Sensitivity as per 4 K
	mm)	resolution.
	Control buttons: 2 or more (freely	Testitution.
	programmable)	No Change
		video out put 2x DVI-D or Out put 1x3g
	Video output: 2 x DVI-D output 1X 3 g SDI	SDI out Put or 2 x HDMI or as per 4 k
	output/HDMI	system out put
	Input: Keyboard input for character generator	Input:Keyboard input for character
	(optional)	generator or touch screen
	Power supply 220 V AC 50 Hz.	No Change
	US FDA/ European CE (issued by a notified	5
	body) approved Model should be offered.	No Change
	4k Medical Grade Monitor	No Change
	The monitor should have	
	HD TV display in original 16:9 HDTV format	
	1080 p/50 & 1080 p/60 display possible LED	4 K 30 inches or more LED monitor with
	crystal display. Max Resolution of 3840	resolution of 3840 X 2160 Screen Diagnal
	x2160. Screen diagonal -32" or more.	resolution of 50 to 11 2100 Selecti Biaghai
	Should have the facility of PIP mode.	No Change
	Specification	
		4K Monitor with stand/hanged on trolley
	4K Monitor with stand size 32" or more	size 30" or more
	Power supply 100-240 V AC	No Change
		2* DVI-D 3G SDI 1* S video composite
3		1*RGBNGA.1* RS 232, 1*RJ 45
	Video inputs 2* DVI-D 3G SDI 1* S video	interface
	composite 1*RGBNGA.1* RS 232, 1*RJ 45	OR
	interface.	Video Inputs: DVI Port -1, HDMI Port -2,
		RS232- 1 & USB-1 OR as per 4 K
		Standard
		Video Outputs :1* DVI, 1* 3G SDI.1*S-
		video
		OR
	Output 1* DVI, 1* 3G SDI.1*S-vide.	through USB 4 outputs via USB
	Surpur 1 2 vi, 1 23 52 iii 5 viae.	Video Outputs :1* DVI, 1* 3G SDI.1*S-
		video
		OR
	V TTD 200 1/1 69	through USB 4 outputs via USB
4	LED 300 with fibre optical cable	No Change
1	Lamp type: LED 15V 300 watt or equivalent.	Lamp type: LED 15V 300 watt or more.

	Memory RAM: 8GB	No Change
	Connectors: 3x1 GB Ethernet (RJ 45), 6Xusb 2.0, 2x USB 3.0	No Change
	Image format: BMP, JPG,2000.	No Change
	Video format MPEF-4, MPEG-2 MOV.	No Change
	Video signal inputs: 2x DVI-D	No Change
	Color system: PAL NTSC	No Change
	Resolution still images: up to 1920 x 1080 Aspect ratio 16.9	Resolution of Still images 3840X2160
	Resolution videos: up to 1920 x 1080 Progressive scan for 25/30 frames.	Resolution of Video should be 3840X2160
	Preinstalled Printer/External Printer: SONY UP DR80MD or Compatible.	Deleted
	The DICOM 3 interface shall be installed to the system in order to allow the surgeon to view all the DICOM 3 images stored in the PACS system on a digital light box within box within the operating rooms. Furthermore, all intra operative images recorded can be sent via the DICM 3 interface to the PACS system for further processing. Endoscopic Trolley	System should have DICOM Facility & PACS Compatibility
	Equipment cart, rides of 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributor switch 6 sockets grounding plugs, modular in nature (should be able to add shelves and components later if required) for operation theatre use, from OEM, can be equipment for all.	Equipment cart, rides of 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributor switch 6 sockets grounding plugs, modular in nature (should be able to add shelves and components later if required) for operation theatre use, from OEM, or marketed by OEM
	C02 cylinder holder	No Change
	Monitor holding arms (lateral)	No Change
6	OEM trolly for this equipment should be offered	Delete
	Hand Instruments	
	Telescopes:	
	a. Forward- oblique Telescope 30 degree enlarged view diameter 10mm. Length 31 cm autoclavable fiber optic light 4K HD telescope transmission incorporated -02 nos.	Forward- oblique Telescope 30 degree enlarged view diameter 10mm. Length 31 cm ± 5% autoclavable fiber optic light 4K HD telescope transmission incorporated - 02 nos.
	b. Forward - oblique 4K HD Telescope 30 degree enlarged view diameter 5mm. Length 29 cm autoclavable fiber optic light transmission incorporated. Connection for fiber optic light cable offset by 90degree- 02 nos.	Forward - oblique 4K HD Telescope 30 degree enlarged view diameter 5mm. Length 29cm ± 5% autoclavable fiber optic light transmission incorporated. Connection for fiber optic light cable offset by 90degree- 02 nos.

c. Straight forward 4K HD telescope 0 degree enlarged view diameter 100 length 31 cm autoclavable fiber optic light transmission incorporated -02 nos.

Straight forward 4K HD telescope 0 degree enlarged view diameter 100 length 31 cm ± 5% autoclavable fiber optic light transmission incorporated -02 nos.

LAPROSCOPLE DISSECTING &	
GRASPING FORCEPS	
1. Three piece laparoscopic autoclavable	
KELLY dissecting and Grasping Forcep. 360	
degree rotational sheeth, with connector pin	
for unipolar coagulation size 5 mm. length 33-	N. Cl
36 cm long (02 nos.) double action jaws, with	No Change
ergonomic plastic handle with larger contact	
area at the finger ring to avoid pressure sores,	
can be dismantled with the press of a button.	
2. Three piece laparoscopic autoclavable	
CROCE-OLMI Grasping forceps360 degree	
rotational sheeth, size 5mm. length 33-36cm	
(02nos.) double action jaws ergonomic metal	
handle with plastic finger rings with larger	No Change
contact area at the finger ring to avoid	
pressure sores can be dimantied with the press	
of button.	
3. Three piece laparoscopic autoclavable	
Bowel Gasping forceps double action jaws,	
fenestrated, 360 degree rotational sheeth, size	
5mm length 33-36cm (02 nos.) double action	
jaws, ergonomic metal handle with plastic	No Change
finger rings with larger contact area at the	
finger ring to avoid pressure sores, can be	
dismantled with the press of a button.	
4. Three piece laparoscopic autoclavable	
Right Maryland dissector/Forcep, double	
action jaws fenestrated, 360 degree rotational	
sheeth, size 5 mm, length 33-36 cm long	
double action jaws. Ergonomic metal handle	No Change
with plastic finger rings with larger contact	Tvo Chungo
area at the finger ring to avoid pressure sores,	
can be dismantied with the press of a button	
(02 nos.)	
5. Three piece laparoscopic autoclavable	
Maryland dissector/Forceps, double action	
jaws, fenestrated, 360 degree rotational	
sheeth, size 5 mm, length 33-36 cm. long,	
double action jaws, ergonomic metal handle	No Change
with plastic finger rings with larger contact	Tio Change
area at the finger ring to avoid pressure sores	
can be dismantled with the press of button (02	
nos.)	
1105.)	

fen 5 r jaw fin fin	Three piece laparoscopic autoclavable NVIL Grasping forcep, double action jaws, testrated, 360 degree rotational sheeth, size mm length 33-36 cm, long double action ws, ergonomic metal handle with plastic ger rings with larger contact area at the ger ring to avoid pressure sores can be smantled with the press of a button (02 nos.)	No Change
7. MA sty she coa sin wit avo	Three piece laparoscopic autoclavable ANHES Grasping forcep with hemostatelle ratchet, duck bill 360 degree rotational each with connector pin for unipolar agulation size 5 mm length 33-36 cm, long gle action jaws, ergonomic metal handle the larger contact area at the finger ring to boid pressure sores can be dismantled with a press of a button.	No Change
tee len erg	Three piece laparoscopic autoclavable AW Grasping forcep with ratchet 2x3 th, 360 degree rotational sheeth size 10mm 19th 33-36 cm long single action jaws, with gonomic metal handle can be dismantled the the press of a button (02 nos.)	Three piece laparoscopic autoclavable CLAW Grasping forcep with ratchet 2x3 teeth, 360 degree rotational sheeth size 10mm length 33-36 cm long single action jaws, with ergonomic metal handle can be dismantled with the press of a button (02 nos.)
rot nip 360 pla fin	Three piece laparoscopic autoclavable rved METZENBAUM scissors, 360degree ational sheeth with connector pin for polar coagulation m size 5mm length 33-cm long double action jaws with ergonomic astic handle with larger contact area at the ger ring to avoid pressure sores can be smantled with the press of a button (02 nos)	No Change
Ho wit siz jaw larg pre	Three piece laparoscopic autoclavable ook scissors, 360 degree rotational sheeth, th connector pin for unipolar coagulation e 5mm length 33-36 cm long double action ws with ergonomic plastic handle with ger contact area at the finger ring to avoid essure sores, can be dismantled with the ess of a button (02 nos.)	No Change
pin rate	Ergonomic plastic Handle with larger ntact area at the finger rings with connector of for unipolar coagulation with or without chet, compatible with above asked atruments (02 nos)	No Change
ele har	Dissecting Electrode with exchangeable actrode L-tip autoclavable ergonomic adding size 5 mm length 33-36 cm, with nector pin for unipolar coagulation (02 s)	No Change

12 E-land La Flade de T'e I de d	Cartala alasta da Cina 5 anno 0 1 anno 1 22
13. Exchangeable Electrode Tip L-shaped,	Spatula electrode Size 5 mm & length 33-
Autoclavable (02 nos)	36 cm (02 nos)
14. Unipolar HF Cord (02 nos)	Unipolar HF Cord (05 nos)
15. Nathanson Liver Retractor small surface	No Change
area, diameter 5mm (02nos)	
16. Nathanson Liver Retractor Medium	No Change
surface area diameter 5 mm (02nos) 17. Nathanson Liver Retractor large surface	
area diameter 6 mm-(02 nos)	No Change
` /	
18. Holding system autoclavable with quick	
release coupling consisting of Rotation socket	
to clamp to the OR table, for European and Us standard rails with lateral clamp for height and	
angle adjustment of the articulated stand,	
reinforced version, L-shaped especially large	Nathanson Lever Retractor with all
swivel range with one mechanical central	atachments
clamp for all five joint functions, height 46 to	atachinents
48 cm, swivel range 66 to 68 cm with quick	
release coupling clamping jaw, metal with	
axial intake, ckamping range 4.8 up to 12.5	
mm (02 nos)	
19. Fascial closure instrument for	
subcutaneous ligature of trocar incisions, size	No Change
2-2.8mm length 12 to 17 cm (02 nos)	110 011111190
20. Satinsky Laproscopic clamp size of jaws	
10cm-11cm depth of jaws 2.5 cm straight	
sheeth with axial handle ring ratchet with	No Change
safety locking device 10mm length 30cm (02	
nos)	
21. Satinsky Laproscopic clamp size of jaws	
8 cm depth of jaws 2 cm straight with axial	No Change
handle ring ratchet with safety locking device	No Change
10mm length 30cm (02 nos)	
22. Vascular clamp Applicator 10mm, 32 cm	
for use with deployable vascular clamps (02	No Change
nos)	
23. Vascular clamp single action jaws, length	
of jaws, 5cm, size 10mm, total length 11 cm	No Change
for user with vascular clamp applicator (02	140 Change
nos)	
24. Vascular clamp, parallel action jaws,	
length of jaws 5cm size 10mm total length 13	No Change
cm for use with vascular clamp applicator.	
25. Bowl forcep- (02 nos)	No Change
Trocar &cannula:	
1. Cannula size: 10-11 mm diameter with	Cannula size: 10-11 mm diameter & 12-
thread and rotating insufflations, should have	
multifunctional valve to prevent damage of sharp instruments and tip lens while passing	insufflations, should have multifunctional valve to prevent damage of sharp
through the cannula valve. It should have	instruments and tip lens while passing
unough the camula varve. It should have	moruments and up tens withe passing

	,
stopcock for C02 insufflation. The working length of the cannula should be 105mm (5 nos)	through the cannula valve. It should have stopcock for C02 insufflation. The working length of the cannula should be 105mm (5 nos = 4+1)
2. Cannula size size 5.5-6 diameter with thread and rotating insufflations. Should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. it should have stopcock for C02 insufflation. The working length of the cannula should be 105mm (5nos)	No Change
Additional	Safety trocar -01 no to be used with 11 mm sheath cannula
3. Double reducer: 13.5/10 & 13.5/5mm – (5 each)	No Change
4. Reducer: 10/5mm-(05nos)	No Change
5. Laparoscopic High-frequency needle for splitting &coagulation, puncture in PCOD, insulated with connector pin for unipolar coagulation 5mm, 36mm=02.	No Change
6. Knot-tier for extra-corporeal knotting, 5mm, 36cm=02	No Change
7. Papation probe with cm-markings ,5mm 36cm=02	No Change
8. Rotating dismantling in three parts (handle outer tube & working insert) Laparoscopic MESO-OVARAIAN forceps, with insulation handle with hemostat-type ratchet & pin connector for unipolar coagulation 5mm, 33-36cm=02	No Change
9. Laparoscopic Myoma fixation instrument screw-shaped 5mm=02.	No Change
Veress Needle	
Veress pneumoperitoneum with spring loaded blunt inner cannula, LUER-Lock autoclavable dimeter 2.1mm working length 10-18 cms(05 nos)	No Change
Injection Needle	
Injection needle, LUER-lock diameter 1.2mm size 5mm length 36cm (05 nos.)	No Change
Suction and Irrigation Tube	
Suction and Irrigation tube anti-reflex surface with two-way stopcock for single hand control size-5 mm length 36cm (10 nos)	No Change
LAPAROSCPIC NEEDLE HOLDERS	
Needle holder with tungsten carbide insert dismantling in to three part namely outer tube handle and inserts, ergonomic pistol handle with disengage able ratchet jaw curved to left size 5mm length 33cm for user with suture material size 0/0 to 7/0 (06nos)	Needle holder with tungsten carbide insert dismantling in to three part namely outer tube handle and inserts, ergonomic pistol handle with disengageable ratchet jaw curved to left OR in single piece size 5mm

	length 33cm for user with suture material size 0/0 to 7/0 (06nos)
Macro needle holder with tungsten carbide insert, dismantling in to three parts namely outer tube handle and inserts, ergonomic pistol handle with disengageable ratchet jaw curved to left size 5mm length 33cm for user with suture material size 0/0 to 7/0 (06nos)	Macro needle holder with tungsten carbide insert, dismantling in to three parts namely outer tube handle and inserts, ergonomic pistol handle with disengageable ratchet jaw curved to left OR in single piece size 5mm length 33cm for user with suture material size 0/0 to 7/0 (06nos)
Laparoscopic Bipolar Forceps	
Three piece laparoscopic Bipolar coagulating Grasping Forceps with overload tissue protection, CLERMONT –FRRRAND MODEL, wide jaws with connector pin for bipolar coagulation 360degree rotational sheeth size 5mm length 33-36cm long, single action jaws ergonomic plastic handle with larger contact area o can be dismantled with the press of a button (02 nos.)	No Change
Three piece laparoscopic Bipolar KELLY dissecting & Grasping Forceps with overload tissue protection, CLERMONT –FRRRAND MODEL, wide jaws with connector pin for bipolar coagulation 360degree rotational sheeth size 5mm length 33-36cm long, single action jaws ergonomic plastic handle with larger contact area o can be dismantled with the press of a button (02 nos.)	No Change
Clip Applicator :05	
Clip applicator 10mm rotable, Length 36cm for application of clip LT-400.	Clip applicator 10mm rotable, Length 36cm for application of clip LT-300.
Clip Applicator :05	
Large clip applicator dismanteable rotating size: 10mm, length 36cm, for Titanium.	No Change
Titanium clips: 50 Boxes 24 clip each.	No Change
Titanium Clips medium large & large box with 16 sterile cartridges 10 clips eagh for use with clip applicator.	No Change
All instruments should be USAFDA/European CE (Issued by notified body), compatible to all system.	No Change

	Name of Equipment: - Hysteroscopy S	ystem with Camera System
SI. No	Technical Specification as per tender	Amendment
	Camera control unit	No Change
	The system should be Digital endoscopic	
	video camera with maximum Resolution of	N. Cl
 -	3840 X 2160 pixel and progressive scan to	No Change
	guarantee genuine 4K.	
	The system should have facility of 3x Digital	The system should have facility of 2x
	Zoom Lens or more	Digital Zoom or more
	The system should have facility for capturing	The system should have facility for
	4K UHD HD Still sand FULL HD Video in	capturing 4K UHD HD Still sand FULL
	Extern USB drive.	HD Video in Extern USB drive (Optional)
	The single stacks should be complete with all	
	accessories so as to connect 4K, FHD,	N 41 1 62040 V.2160
	Flexible scopes, Process and display the	Native 4 k resolution of 3840 X 2160
	signals in their native resolution.	
	Picture in Picture of visualization modes.	No Change
	Automatic adjustment of light intensity of	Automatic/ Manual adjustment of light
	light source.	intensity of light source.
	Technical Specifications:	No Change
	Pixel: 3840 X 2160 Pixels	No Change
	Video output: 1Diopley next 1:2 v DVI D	•
	Video output: 1Display port 1:2 x DVI –D	Video out put 2x DVI-D or Out put 1x3g
	output/1 x12G-SDI output/ LAN connection	SDI outPut or 2 x HDMI or as per 4 k
	4x U connection (2X front 2 X back)/HDMI	system out put
	Input keyboard input for character generator (optional)	No Change
		No Chango
	Power supply:200-240 V AC 50/60 Hz USFDA/EU CE (issued by notified body)	No Change Certification-USFDA /European CE
	OSPDA/EO CE (Issued by notified body)	Certification-USFDA /European CE (Issued by notified body/Declaration of
		conformity according to the EU MDR
		2017) and ISO 13485
	2. 3CCD/3 CMOS Autoclavable CAMERA	2017) and 13O 13463
	HEAD	No Change
	Pixel: 3840 X 2160 Pixel	No Change
2	AGC Microprocessor controlled	-
	AGC Microprocessor controlled	No Change
	It should be optical Zoom Lens $f = 13-29mm$	Optical zoom lens f=13-29 mm or Optical
		zoom lens f= 15-32 mm
	Color space: BT 2020 emulation	Deleted
	Control buttons: min 2 freely Programmable	No Change
		110 Change
3	Should be supplied with 4K HD scope for 4K Camera	No Change
	Should be 4K medical grade Monitor size	Should be 4K medical grade Monitor size
4	not less than 32"	not less than 30"
	The monitor should have If should have a	The state of the s
	facility to be connected to 4K and 3D or	
	sperate Monitor should be supplied for 4K	No Change
	and Color space –BT 2020 emulation	
	Aspect ratio: 16:9	No Change
	*	1 to Change

	Size-32 inch	Size-30 inch
	Effective Resolution: 3840 X 2160Pixel	No Change
	Inputs: 1Xdp 1.2 2XDVI-D 4 x 3G-SDI/1X 12G SDI	No Change
	Outputs: 1x DVI-D4 x 3G-SDI/1 X 12 GSDI	No Change
	USFDA/EU CE (issued by notified body)	Certification-USFDA/European CE (Issued by notified body/Declaration of conformity according to the EU MDR 2017) and ISO 13485
	LED Light source 300W with Fiber Optic	LED/Xenon Light source 300W with
	Should have touch display which provides and intuitive & user friendly interface that	Fiber Optic cable No Change
	directly displays relevant data.	2
	Cold Light Fountain LED Fight source	Cold Light Fountain LED Light source
	Lumens: 2100 and above	No Change
5	Color Temperature 6000K	Color Temperature 5000K or above
	Light outlets-1	No Change
	Lamp life of approx.: 30,000 hrs.	Lamp/LED life of approx. : 30,000 hrs.
	4.8 mm Fiber Optic Cable and 300cm Long	No Change
	USFDA/EU CE (issued by notified body)	Certification-USFDA/European CE (Issued by notified body/Declaration of conformity according to the EU MDR
_	IMAGE/ VIDEO RECORDING AND	2017) and ISO 13485
	DATA ARCHIVING SYSTEM	No Change
	Slate of the art user friendly Medical grade	State of the art user friendly Medical grade
	system (Certified tod be used in OT) should be offered with following features.	system (Certified tod be used in OT) should be offered with following features.
	User should have full control of the system from the sterile field via camera head buttons optional touch screen optional foot switch.	No Change
6	Still images and videos (optional with audio) in HD/4K.	No Change
	Internal memory should be 1 TB and extra 1 TB.	No Change
	Playback of HD or 4K content.	No Change
	It should be touch screen and 8-12.5 inches.	It should be touch screen and 5-12.5 inches
	USFDA/EU CE (issued by notified body)	Certification-USFDA/European CE (Issued by notified body/Declaration of conformity according to the EU MDR 2017) and ISO 13485
	Imported Endoscopic Trolley	No Change
a	Endoscopic Trolley compatible with the above system from the same manufacturer should be provided.	Endoscopic Trolley compatible with the above system from the same manufacturer/Marketed by the same company or OEM should be provided.

SPECIFICATION FOR HYSTEROSCOPE SET WITH RESECTOSCOPE	No Change
Operating and contact — Hysteroscope forward oblique Telescope 30 degree enlarged view magnification 1x, 60x diameter 4.0 mm, length 30cm autoclavable, fiber optic light transmission incorporated, Forwarded oblique Telescope 30 degree enlarged view, diameter 4.0mm, length 30cm, autoclable, fiber optic light transmission incorporated. Forwarded oblique Telescope 30 degree	Operating and contact — Hysteroscope forward oblique Telescope 30 degree enlarged view magnification 1x, 30x diameter 4.0 mm, length 30cm autoclavable, fiber optic light transmission incorporated, Forwarded oblique Telescope 30 degree enlarged view, diameter 4.0mm, length 30cm, autoclable, fiber optic light transmission incorporated. Forwarded oblique Telescope 30 degree
enlarged view, diameter 2.7, 3.0 mm length 30cm, autoclable, fiber optic light transmission incorporated.	enlarged view, diameter 2.7-3.0 mm length 30cm, autoclable, fiber optic light transmission incorporated.
Telescope sheath for diagnostic continuous irrigation size 4.5,5.4 mm outer sheath and 3.8,3.9 mm inner sheath for user 2.0,3.0mm hysteroscope telescope.	Telescope sheath for diagnostic continuous irrigation size 4.5-5.4 mm outer sheath and 3.8-3.9 mm inner sheath for user 2.0-3.0mm hysteroscope telescope.
Continuous irrigation flow operating sheath inner size between 4.9, 5.0mm and outer size between 5.5, 5.6mm having operating channel 5Fr to be used with 2.9-3.0mm telescope with LEUR lock and inflow and outflow channel	Continuous irrigation flow operating sheath inner size between 4.8- 5.0 mm and outer size between 5.5- 5.6 mm having operating channel 5Fr to be used with 2.9- 3.0mm telescope with LEUR lock and inflow and outflow channel
Examination sheath diameter 5.0-5.1mm to be used with 4mm telescope with 1 LUER lock adapter.	No Change
Continuous flow Examination sheath, inner size diameter 5.2-5.3 & outer diameter size 6.2-6.3 mm to be used with 4mm telescope with 1 LUER lock adaptor.	No Change
Continuous flow operating sheath inner size 5.4-5.5mm &outer size 6.0-6.1mm with 5Fr. Channel for operating with 1 stopcock and 1LUER Lock adapter	No Change
Continuous Flow operating sheath inner size 5.4-5.5mm & outer size 6.0-6.1mm with 5Fr. Channel for operating with 1 stock cock and 1LUER Lock adaptor.	No Change
Scissors blunt tips 5 Fr. Length 34 cm single action jaws.	No Change
Scissors pointed jaws, 5Fr. Length 34cm single action jaws, semi-rigid.	No Change
Biopsy and Grasping forceps 5Fr. Length 34 cm double action jaws	No Change
Needle Electrode, 5Fr. Length 27cm unipolar	Deleted
Bipolar vaporization electrode, 5Fr. Length 36 cm	No Change

High Frequency cord with 4mm plug HF unit	No Change
older models 300 cm Bipolar High Frequency	-
Working Element set consisting of:	No Change
	No Change
1 working element,	No Change
1 cutting Loop, angled,	No Change
1 coagulation –Electrode ball end 3cm,	No Change
1 coagulating Electrode ball end 5cm	No Change
1 coagulating Needle Electrode angled	No Change
2 High Frequency cord	No Change
1 Protection tube for electrodes	No Change
Motion by means of a spring. The thumb support is movable return of the loop is controlled by the (thumb to be used with 4mm telescope)	No Change
Cutting loop 24 Fr. And	No Change
Roller electrode 24Fr. 12 no. each.	No Change
Resectoscope sheath 26 Fr, including connection tubes for in-and outflow, 2 LUER –lock adapters 8mm oblique beak, fixed inner tube with ceramic insulation for user with working element.	No Change
Obturator for use with sheaths	No Change
Forward oblique Tele-scope 30degree 2.7mm length 30 cm autoclavablefiber optic light transmission incorporated color code red.	Forward oblique Tele-scope 30degree 2.7 3.0 mm length 30-31 cm autoclavable fiber optic light transmissio incorporated
Operating sheath size4.3mm with channel for semi rigid 5Fr. Operating instruments with 1 stopcock and 1 LUER-Lock adaptor, for use with CF operating sheath.	Operating sheath size 4.3-4.8 mm with channel for semi rigid 5Fr. Operating instruments with 1 stopcock and 1 LUER-Lock adaptor, for use with Cooperating sheath.
Continuous –Flow operating sheath size 5mm with 1 stopcock and 1LUER-Lock adaptor for use with operating sheath	No Change
Scissors blunt, single action jaws semirigid 5 Fr. Length 34 cm.	No Change
Pointed single action jaws semirigid 5Fr. 34cm and Grasping Forceps Double action jaws semirigid 5Fr. Length 34 cm punch through cutting single action jaws semirigid 5Fr. Length 34 cm.	No Change
Biopsy spoon forceps, double action jaws	

No Change
No Change
No Change
No Change
escope 12/30 degree 2.7-2.9 mm, gth 30 cm autoclavable fiber optic light asmission incorporated, color code ck.
No Change
No Change
Deleted
Deleted
No Change
No Change
2

Standards, safety and Training	No Change
1. USFDA/European CE (issued by notified body).	Certification-USFDA/European CE(Issued by notified body/ Declaration of conformity according to the EU MDR 2017) and ISO 13485
2. Shall be certified to the meeting safety standard IEC 60601-2-18 particular requirements for the safety of endoscopic equipment.	No Change
3. All instrument should be USFDA/UCE (issued by notified body) all item should be compatible.	All instrument should be USFDA/European CE (issued by notified body)/Declaration of conformity according to the EU MDR 2017) and ISO 13485 all item should be compatible.
Documentation	
1. User/ Technical/Maintenance manuals to be supplied in English.	No Change
2. Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.	No Change
3. Certificate of calibration and inspection.	No Change
4. List of Equipments available for providing calibration and routine preventive maintenance support as per manufacturer documentation in service/technical manual.	No Change
5. Log Book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.	No Change
Additional:	No Change
Cutting loops for TCR-20	No Change
Coagulating Loops-5	No Change
	Added- Hysterocopy Pump for Intra Uterine Fluid Management It should have Electronic Digital suction/irrigation pump with Color Touch LCD Screen Display. It should have Precise presetting of flow and pressure of suction and irrigation parameters via touch keys. It should have built in low noise suction pump to allow simultaneous suction—irrigation process It should have multiple utility mode liked Laparoscopy, Hysteroscopy, Orthoscopy

Urology etc. • It should have irrigation pressure should be 10-400mmHg or more. It should have auto cut off facility for the preset amount of the fluid. • It should have 3 audio visual alarm for 3 preset stage of the consumed fluid. • It should have preset multiple hysteroscopy user setting for different intra uterine surgeries. • It should display of actual/ real time pressure and consumed fluid to ensure safety. •It should have complete fluid management system with measurement of consumed fluid& real time measurement of return fluid. • should give the display of real time deficit or absorption of fluid in body during It should give alarm for surgery. • deficit/absorbed fluid over safe range, also should have user settable safe range as per surgical requirements. •It should have option for flush out the liquid •It should have facility to select the fluid (saline/glycine). •It should have flow rate 100-1000 ml/min or More •It should have display of total volume consumed. It should have audio visual alarm for over usage of fluid.• It should have facility to use different fluids. It should have suction vacuum 75Kpa or More •It should have supplied with 3 liter jar 02 nos. •It should have supplied with Y shaped irrigation tubing set. • It should have supplied with pressure sensor 05 nos, cartridge filter 05nos. •It should have supplied with trolley with bottle stand and suction bottle holder.

Certification-USFDA /European CE (Issued by notified body/Declaration of conformity according to the EU MDR 2017) and ISO 13485

1. All Items/Accessories should be compatible with the System.

Note:-

2. ISO 13485 (Certification must be issued by bodies registered with NABCB under the medical devices quality management system)