

On - Site Inspection by the Team for the Materials , Hyderabad																	
Place of Inspection:					IVFC 5th Floor MCH Building Gandhi Hospital, Secunderabad								Inspection Dates:	06-10-2023			
Sl. No	Item Code	Description of the material & Technical Specifications as per TED	Qty as per tender	Qty offered for Inspection	Unit	Quoted price	Total Amount (Rs)	Make & Model offered in the tender	Make & Model offered	Serial No	Technical Specifications as per TED	Technical Specifications of the Product	Compliance / Deviation if Any	Location / Room Name	Observations of the Inspection Team	Satisfactory (Yes / No)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		<u>Lab Equipment</u>															
1	IVF001	Ovum Aspiration Pumps at Gandhi Hospital	2	2	Nos	240000	480000		Pioneer	202305005, 202305006	1.Precision built, regulated, vacuum pump for ovum aspiration 2.Rapid suction response at the needle tip and is able to hold constant vacuum Settings accurately, for long periods 3.Dual Display: Actual pump pressure and set pump pressure. 4.Boost feature to clear blockages in Aspiration needle. 5.Ultra-quiet, vibration-free operation. 6.Foot Pedal allows hands-free operation. 7.Power Supply: universal input 100-240 V AC, 50/60 Hz 8.Vacuum : -10 to -500 mm Hg. 9.Dimensions (W x D x H)mm: 200x250x115. 10. FDA approved and should be compatible to fit with all commercially available oocyte recovery set	Make & Model Approved for The Supplied Equipment vide Lr.No.290/IVFC/Spl.Proj/TSMSIDC/2023		EMBRYOLOGY LAB			
2	IVF002	IVF test tube warmer	2	2	Nos	49500	99000		JD Medicals	202360, 202359	1. IVF test tube warmer ideal for heating of samples in test tubes requiring a stable heating environment 2. Should have at least 12 chambers either for 14ml or 5ml aspiration tubes 3. The highly visible digital LED display indicates the temperature level in either Celsius or Fahrenheit 4. Temperature may be adjusted and is extremely reliable within the range from ambient to 49.9°C 5. Digital read out of temperature with control panel for settings 6. Temperature accuracy ±0.20C 7. Easy to clean 8. Rectangular warming blocks to hold 10 tubes of 17mm and 12 tubes of 12mm	1. IVF test tube warmer ideal for heating of samples in test tubes requiring a stable heating environment 2. has 14 chambers either for 14ml or 5ml aspiration tubes 3. The highly visible digital LED display indicates the temperature level in either Celsius or Fahrenheit 4. Temperature may be adjusted and is extremely reliable within the range from ambient to 49.9°C 5. Digital read out of temperature with control panel for settings 6. Temperature accuracy ±0.1° C 7. Easy to clean 8. Rectangular warming blocks to hold 10 tubes of 17mm and 12 tubes of 12mm	Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies	EMBRYOLOGY LAB & ANDROLOGY LAB			
											1.1.System should be operated for general purpose ultrasound scanner and colour Doppler for Pediatric, Abdomen, OB/GYN, Vascular, Cardiac and small parts, Musculoskeletal uses. 1.2.Unit should be of USFDA and European CE approved. 1.3.Latest generation Electronic Phased array Colour Doppler system with Minimum 1,00,000 or more Electronic independent channels. System should be DICOM ready and capable of being interfaced with HIS/RIS/PACS. 1.4.Should be field upgradable to next generation system on site. All new software should be upgraded free of cost during warranty and CMC period. 1.5.Specifications • 256 grey shades for sharp contrast resolutions • Harmonic Imaging- System should have following modes in harmonic with separate setting for: • Tissue Harmonic or equivalent • Harmonic imaging / Equivalent Technology capability in Convex, Linear, Endocavity and Adult Cardiac. 1.6.Gain control in 2D/M Mode/Colour/Doppler with auto adjustment for additional level of flexibility to image quality control. 1.7.Real time high frequency 2D for higher resolution and low frequency Doppler for higher sensitivity in all probes 1.8.Frame rate should be 600 or more 1.9.Frequency processing facility for the transducer is 1.0-13.0 MHz +/- 1 MHz.	System is ready to perform all applications how ever probes as per tender supplied is for Abdomen, OB/GYN US FDA and CE both are available <u>All probes are Electronic Phased array colour Doppler system with more than 1,00,000 channels. (digital)</u> <u>Upgradable to 3D/4D, Cardiac at site, Upgradable with additional probes if any added to the same.</u> 256 grey shades for sharp contrast resolutions Harmonics will be separate and its is Probe dependent Tissue Harmonic imaging is standard with all the probes <u>Avable in all the probes</u> <u>Gain control with the knob for the modes</u> yes availble 1200 frames yes all probes are working in between the frequency Convex 2-5 Mhz to TV probe 4-9 Mhx	Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies				

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3	IVF003	DICOM compatible fully digital, compact portable Colour Doppler Ultrasound Scan machine.	2	2	Nos	1365000	2730000		Samsung	S2DXM3HW700031D, S2DXM3HW700006H	1.10.Speckle reduction imaging should be available and it should be user configurable setting to obtain better image without reduction in frame rate. 1.11.Steerable PW/CW in all Phased Array probes. 1.12.High-definition acoustic zoom for enlarging sections of 2D and Colour flow images with more acoustic information for greater clarity and detail while maintaining an optimal frame rate. 1.13.Modes –2D, M-Mode, Steerable PW/CW Doppler, Colour Doppler, and High Definition Colour flow. 1.14.Monitor should be atleast 17” high-resolution colour Monitor. 1.15. Tilt and Swivel monitor should be able to view in all angles and all light conditions. 1.16.Colour Flow Imaging for 1.17.Increased lateral & spatial resolution. 1.18.Selection of different types of colour maps are required 1.19.Colour flow with capability of automatically picking up colour flow as a function of focal depth 1.20.Cine loop memory should be available, specify the memory available 1.21.High Frame rate review for better clarity of playback images study in slow motion. 1.22.Quad loop with memory for pre and post image comparison. 1.23.Simultaneous display of both live B-Mode and 2D with Color should be possible. 1.24.Speckle reduction imaging user configurable should be possible 1.25. Multiline compounding imaging on convex and linear imaging 1.26. Trapezoidal or panoramic imaging should be possible 1.27.User defined system and application presets for multi-user department. 1.28.Inbuilt/ External CD/DVD and PEN drive for image storage, archiving and retrieval for offline complete analysis. . 1.29.System should have facility for cardiac studies like Tissue Doppler imaging, B Mode , M mode ,Cardiac Measurements for Echo Cardiography. 1.30.Transducer ports - Three or more Application software for abdomen, OBG, Vascular, Cardiac Adult and Pediatric applications. All application packages should be built into the system. 1.31.System should be field upgradable to Real time 3D/4D applications for abdomen and fetal anatomical study. 1.32.Digital Storage and Retrieval – 01 1.33.Colour Doppler System with all application packages and probes should be supplied as mentioned below as standard. a. Broadband Convex probe 2.0-6.0 MHz +/- 1 MHz for abdomen and OBG applications - 01 No. b. Broadband Endocavity probe 3.0-9.0 MHz +/- 1 MHz with more than 120 Degree FOV or more- 02 Nos. 1.34.Accessories as standard : 1. Sony Thermal Printer – 01 2. Latest desktop computer with at least I5 configuration. 1.35.GENERAL INSTRUCITONS TO VENDORS:	Yes possible yes available with knob Yes possible all modes available being a high end color doppler system Monitor size is 21.5 inch High resolution Tilt and seivel is possible Color flow possible Yes possible yes 9 colour maps possible Yes possible cine loop momory is available and storage also Yes possible quad loop with memoney possible yes possible. yes possible Compounding is possoble yes. Possible with linear probe but the same has not bought yes available Pen drive image storage and archiving and retrieval of offline complete analysis yes possible Yes possible upgradable to 3D / 4D with Volume convex and Volume TV probes Yes possible all applications possible Convex C 2-5 Mhz TV probe E 4-9 Mhz Yes - Complies Yes included Yes included Yes - Complies	Yes - Complies Yes				

[illegible]

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											<ul style="list-style-type: none"> Operating condition : Capable of operating continuously in ambient temperature of 10 to 40 deg c and relative humidity of 15 to 90% in ideal circumstances 	<ul style="list-style-type: none"> Operating condition : Capable of operating continuously in ambient temperature of 10 to 40 deg c and relative humidity of 15 to 90% in ideal circumstances 	Yes - Complies				
											Storage condition : capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%	Storage condition : capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%	Yes - Complies				
											<ul style="list-style-type: none"> User’s care, Cleaning, Disinfection & Sterility issues 	<ul style="list-style-type: none"> User’s care, Cleaning, Disinfection & Sterility issues 	Yes - Complies				
											1.Parts of the device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use / disposable cover.	1.Parts of the device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use / disposable cover.	Yes - Complies				
											2. Sterilization not required.	2. Sterilization not required.	Yes - Complies				
											1.17. Standards And Safety	1.17. Standards And Safety					
											<ul style="list-style-type: none"> Certificates : FDA(US) /CE(EU) and BIS/ CDSCO /ISO 13485:2003; IEC 60601-1 	<ul style="list-style-type: none"> Certificates : FDA(US) /CE(EU) and BIS/ CDSCO /ISO 13485:2003; IEC 60601-2 	Yes - Complies				
											1.18. Pre-installation requirements nature, values, quality, tolerance	1.18. Pre-installation requirements nature, values, quality, tolerance	Yes - Complies				
											1.19. Availability of 5amp socket	1.19. Availability of 5amp socket	Yes - Complies				
											1.20. Safety and operation check before handover	1.20. Safety and operation check before handover	Yes - Complies				
											1.21. Requirements for sign-off: Certificate of calibration and inspection from the manufacturer	1.21. Requirements for sign-off: Certificate of calibration and inspection from the manufacturer	Attached				
											1.22. Additional Points	1.22. Additional Points					
											<ul style="list-style-type: none"> Remote control for all the movements 	<ul style="list-style-type: none"> Remote control for all the movements 	Yes - Complies				
											<ul style="list-style-type: none"> Battery backup for 50-60 movements 	<ul style="list-style-type: none"> Battery backup for 50-60 movements 	Yes - Complies				
											1.1. Double dome	1.1. Double dome	Yes - Complies				
											1.2. Main dome: 1,60,000 lux , second dome 1,60,000 lux for Uniform intensity and Deeper depth penetration.	1.2. Main dome: 1,60,000 lux , second dome 1,60,000 lux for Uniform intensity and Deeper depth penetration.	Yes - Complies				
											1.3. Height adjustments : 600mm	1.3. Height adjustments : 600mm	Yes - Complies				
											1.4. Action radius : 1850 mm	1.4. Action radius : 1850 mm	Yes - Complies				
											1.5. Possible movements : Radial , Angular & Axial	1.5. Possible movements : Radial , Angular & Axial	Yes - Complies				
											1.6. Colour temperature : 4500k and above	1.6. Colour temperature : 4500k and above	Yes - Complies				
											1.7. LED technology minimum 40,000 hours lamp life. The control panel must have a built in digital hour counter to show the number of hours the light has worked.	1.7. LED technology minimum 50,000 hours lamp life. The control panel must have a built in digital hour counter to show the number of hours the light has worked.	Yes - Complies				
											1.8. Intensity, brightness, contrast and power switch to be made available on handle / wall check	1.8. Intensity, brightness, contrast and power switch to be made available on handle / wall check	Yes - Complies				
											1.9. Focal distance (d1+d2) =0.8 to 1.2m	1.9. Focal distance (d1+d2) =0.8 to 1.2m	Yes - Complies				
											1.10. Temperature rise on the keep of surgeries to be less than 1 degree	1.10. Temperature rise on the keep of surgeries to be less than 1 degree	Yes - Complies				
											1.11. CR +/- approx 95 or more	1.11. CR +/- approx 95 or more	Yes - Complies				
											1.12. 360 degree rotation for both arms	1.12. 360 degree rotation for both arms	Yes - Complies				
											1.13. User’s interface: Manual	1.13. User’s interface: Manual	Yes - Complies				
											1.14. Physical Characteristics	1.14. Physical Characteristics	Yes - Complies				
											1.15. Heat dissipation: Should maintain nominal temperature and the heat should be disbursed through an cooling mechanism	1.15. Heat dissipation: Should maintain nominal temperature and the heat should be disbursed through an cooling mechanism	Yes - Complies				
											1.16. Energy Source (electricity, UPS, solar, gas, water, CO2)	1.16. Energy Source (electricity, UPS, solar, gas, water, CO2)	Yes - Complies				
											1.17. Power Requirements: Recharging unit : Input voltage – 220V-240V AC, 50Hz	1.17. Power Requirements: Recharging unit : Input voltage – 220V-240V AC, 50Hz	Yes - Complies				
											1.18.Battery operated: 6-8 hours of inbuilt battery back up.	1.18.Battery operated: 6-8 hours of inbuilt battery back up.	Yes - Complies				
											1.19. Tolerance (to variations, shutdowns) : Voltage +10% , frequency +2%	1.19. Tolerance (to variations, shutdowns) : Voltage +10% , frequency +2%	Yes - Complies				
											1.20. Protection: Should have over charging cut off with visual symbol.	1.20. Protection: It have over charging cut off with visual symbol.	Yes - Complies				
											1.21. Environmental And Departmental Considerations	1.21. Environmental And Departmental Considerations	Yes - Complies				
											1.22. Atmosphere / Ambiance conditioning, humidity, dust ...)	1.22. Atmosphere / Ambiance conditioning, humidity, dust ...)	Yes - Complies				
5	IVF005	LED procedure Lights Double dome at Gandhi Hospital	1	1	Nos	312500	312500		DESCO	18343,18351				MAJOR OT			

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											1.23. Operating condition : Capable of operating continuously in ambient temperature of 10 to 40 deg c and relative humidity of 15 to 90% in ideal circumstances 1.24. Storage condition : capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% 1.25. User’s care, Cleaning, Disinfection & Sterility issues 1.26. 1.Parts of the device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use / disposable cover. 1.27. 2. Autoclavable Handle should be provided by bidder 4 Pieces. 1.28. Standards And Safety	1.23. Operating condition : Capable of operating continuously in ambient temperature of 10 to 40 deg c and relative humidity of 15 to 90% in ideal circumstances 1.24. Storage condition : capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% 1.25. User’s care, Cleaning, Disinfection & Sterility issues 1.26. 1.Parts of the device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use / disposable cover. 1.27. 2. Autoclavable Handle should be provided by bidder 4 Pieces. 1.28. Standards And Safety	Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies				
6	IVF006	LED procedure Lights Single dome at Gandhi Hospital	1	1	Nos	187500	187500		DESCO	18332	6.1. Single Dome, Major 6.2.Intensity control : continuous (1,60,000 Lux) 6.3.Height Adjustment : 600mm 6.4.Action radius : 1850mm 6.5.Possible movements : Radial, Angular and Axial 6.6.Colour temperature : 4500 and above 6.7. LED technology minimum 40,000 hours lamp life. The control panel must have a built in digital hour counter to show the number of hours the light has worked. Intensity, brightness, contrast and power switch to be made available on handle /wall check 6.8.Temperature rise on the keep of surgeries to be less than 1 degree CR + approx 95 or more 6.9.User’s interface: Manual 6.10. Physical Characteristics * Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism * Not portable * Energy Source (electricity, UPS, solar, gas, water, CO2) * Power Requirements : Recharging unit: Input voltage- 220V-240V AC, 50Hz * Battery operated : yes * Protection: Should have over charging cut off with visual symbol * Environmental And Departmental Considerations Atmosphere / Ambiance conditioning, humidity, dust ...) * Operating condition : Capable of operating continuously in ambient temperature of 10 to 40 deg c and relative humidity of 15 to 90% in ideal circumstances * Storage condition : capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% * User’s care, Cleaning, Disinfection & Sterility issues 1.Parts of the device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use / disposable cover. 2. Autoclavable Handle should be provided by bidder 4 Pieces. Standards And Safety * Certifications: FDA(US) /CE(EU) and BIS/ CDSCO / ISO 13485:2003; IEC 60601-1, * Training And Installation Pre-installation requirements nature, values, quality, tolerance 1. Availability of 5amp socket 2. Safety and operation check before handover Requirements for sign-off: Certificate of calibration and inspection from the manufacturer * Training of staff (medical, paramedical, technicians) OPTIONAL (Depending upon scope of work order) 1. Training of users on operation and basic maintenance 2. Advanced maintenance tasks required shall be documented.	6.1. Single Dome, Major 6.2.Intensity control : continuous (1,60,000 Lux) 6.3.Height Adjustment : 600mm 6.4.Action radius : 1850mm 6.5.Possible movements : Radial, Angular and Axial 6.6.Colour temperature : 4500 and above 6.7. LED technology minimum 40,000 hours lamp life. The control panel must have a built in digital hour counter to show the number of hours the light has worked. Intensity, brightness, contrast and power switch to be made available on handle /wall check 6.8.Temperature rise on the keep of surgeries to be less than 1 degree CR + approx 95 or more 6.9.User’s interface: Manual Attached 6.10. Physical Characteristics * Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism * Not portable * Energy Source (electricity, UPS, solar, gas, water, CO2) * Power Requirements : Recharging unit: Input voltage- 220V-240V AC, 50Hz * Battery operated : yes * Protection: Should have over charging cut off with visual symbol * Environmental And Departmental Considerations Atmosphere / Ambiance conditioning, humidity, dust ...) * Operating condition : Capable of operating continuously in ambient temperature of 10 to 40 deg c and relative humidity of 15 to 90% in ideal circumstances * Storage condition : capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% * User’s care, Cleaning, Disinfection & Sterility issues 1.Parts of the device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use / disposable cover. 2. Autoclavable Handle should be provided by bidder 4 Pieces. Standards And Safety * Certifications: FDA(US) /CE(EU) and BIS/ CDSCO / ISO 13485:2003; IEC 60601-1, * Training And Installation Pre-installation requirements nature, values, quality, tolerance 1. Availability of 5amp socket 2. Safety and operation check before handover Requirements for sign-off: Certificate of calibration and inspection from the manufacturer * Training of staff (medical, paramedical, technicians) OPTIONAL (Depending upon scope of work order) 1. Training of users on operation and basic maintenance 2. Advanced maintenance tasks required shall be documented.	Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies	IVF OT			

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7	IVF007	IVF Workstation with LAF at Gandhi Hospital	1	1	Nos	687500	687500		JD Medicals	202225	1. 6 x 2 Feet IVF Workstation where both user and product are protected against particle and microbial contamination. IVF workstation should have provision for 2 stereo microscopes, one on left and 1 on right	1. 6 x 2 Feet IVF Workstation where both user and product are protected against particle and microbial contamination. IVF workstation should have provision for 2 stereo microscopes, one on left and 1 on right	Yes - Complies	EMBRYOLOGY LAB			
											2. Camera Set, which includes Camera, TV tuner Card, Cables and Connect providing Stereozoom Microscope due to Compatibility.	<u>2. Camera Set, which includes Camera, TV tuner Card, Cables and Connect providing Stereozoom Microscope Compatible.</u>	Yes - Complies				
											3. Surgical Stainless Steel Heated work surface between 2mm-3m	3. Surgical Stainless Steel Heated work surface between 2mm-3m	Yes - Complies				
											4. Electrical adjusted front glass window	<u>4. Manual adjustable front glass window</u>	Not Recommended				
											5. 80-100mm heated glass stage to minimize temperature fluctuations in the media with temperature accuracy ± 0.1°C	5. 80-100mm heated glass stage to minimize temperature fluctuations in the media with temperature accuracy ± 0.1°C	Yes - Complies				
											6. Light source preferred is LED	6. Light source is LED	Yes - Complies				
											7. Noise level between 48-52dBA	7. Noise level 48-52dBA	Yes - Complies				
											8. Programmable auto-start and shut-down functions of all built in features, including air flow	8. Programmable auto-start and shut-down functions of all built in features, including air flow	Yes - Complies				
											9. The IVF workstation should have main filters which are high-efficiency HEPA filter class (H14). The filter should system consists of two HEPA filters	9. The IVF workstation having main filters which are high-efficiency HEPA filter class (H14). The filter should system consists of two HEPA filters	Yes - Complies				
											10. Built in 21 inch minimal Medical grade LCD Monitor	10. Built in 21 inch minimal Medical grade LCD Monitor	Yes - Complies				
											11. Microscope Fittings with Heating Stage Warmer with Microprocessor based Temperature controller	11. Microscope Fittings with Heating Stage Warmer with Microprocessor based Temperature controller	Yes - Complies				
											12. Warming blocks should be part of package	12. Warming blocks should be part of package	Yes - Complies				
											13. Should be constructed in high density steel	13. constructed with high density steel	Yes - Complies				
											14. Should be USFDA/European CE certified - 220V/50-60Hz	14. Should be USFDA/European CE certified - 220V/50-60Hz	Yes - Complies				
8	IVF008	IVF Anti-vibration Table for Procedure	1	1	Nos	96250	96250		JD Medicals	202071	1. Air damped Anti-vibration passive table are designed to meet requirements for all models of inverted Microscopes during ICSI procedure	1. Air damped Anti-vibration passive table are designed to meet requirements for all models of inverted Microscopes during ICSI procedure	Yes - Complies	EMBRYOLOGY LAB			
											2. The plate on top should be stainless steel	2. The top SS 304 grade and pipe with power coated paint.	Yes - Complies				
											3. Should be constructed in high density steel with added mass to the table	The inner table is heavily weighted pre-fabricated high density steel	Yes - Complies				
											4. Should be ISO certified	4. ISO certified	Yes - Complies				
											5. Dimensions: 780 x 1200 x 790 mm	5. Dimensions: 780 x 1200 x 790 mm	Yes - Complies				
9	IVF009	CO2 Incubators	2	2	Nos	825000	1650000		ThermoFisher	43009230 / 43008170	1. 160- 220 liters internal Volume	1. 165 liters internal Volume	Yes - Complies	EMBRYOLOGY LAB			
											2. Stainless steel interior	2. Electropolished Stainless steel interior	Yes - Complies				
											3. TC/IR CO2 Sensor Soft touch keypad	3.IR CO2 Sensor Soft touch keypad	Yes - Complies				
											4. Out Door Heating Error Warning	4. Out Door Heating Error Warning	Yes - Complies				
											5. Auto Start Function	5. Auto Start Function	Yes - Complies				
											6. Inner Safety Glass Door	6. Inner Safety Glass Door	Yes - Complies				
											7. HEPA Filter for CO2	7. HEPA Filter for CO2	Yes - Complies				
											8. Inner safety glass screen (3-4 pieces)	8. Inner safety glass screen (3-4 pieces)	Yes - Complies				
											9. Microprocessor PID temperature controller	9. Microprocessor PID temperature controller	Yes - Complies				
											10. Temperature Sensor made up of Platinum	10. Temperature Sensor made up of Platinum	Yes - Complies				
											11. Temperature range ambient above 5°C to 50°C (± 0.1°C at 37°C)	11. Temperature range ambient above 3°C to 55°C (± 0.1°C at 37°C)	Yes - Complies				
											12. Air- Jacket direct heating system	12. Air- Jacket direct heating system	Yes - Complies				
											13. Over-Temperature Protection Smooth inner casing with rounded corners on all sides made of stainless steel Dry Or Moist heating disinfect ion at 90°C to 120°C.	13. Over-Temperature Protection Smooth inner casing with rounded corners on all sides made of stainless steel Dry Or Moist heating disinfect ion at 90°C to 120°C.	Yes - Complies				
											14. Disinfection duration 12-13 hrs	14. Disinfection duration 12-13 hrs	Yes - Complies				
											15. 3-4 sets of shelves. Perforated Shelves for uniform heat distribution/ shelf adjustment.	15. 3-4 sets of shelves. Perforated Shelves for uniform heat distribution/ shelf adjustment.	Yes - Complies				
											16. LED/LCD Display of chamber temp. and CO2 level. CO2 Control range: 0 to temperature alarm 32°C-47°C	16. LED/LCD Display of chamber temp. and CO2 level. CO2 Control range: 0 to temperature alarm 32°C-47°C	Yes - Complies				

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											17. Humidity: Active sterile humidity control through vaporizing module operating at 120°C Measuring range 0-98% RH /Range 60-95% RH. The system should have easy-to-set high-low humidity levels 18. The system should have a built-in decontamination cycle for the complete elimination of bacteria, fungi, spores, mycoplasma, etc. The system must have onboard graphic capability /data logging to enable users to obtain historical performance. The incubator must have a fully automatic start routine function 19. Must be FDA/EU approved	17. Humidity: Active sterile humidity control through vaporizing module operating at 120°C Measuring range 0-98% RH /Range 60-95% RH. The system should have easy-to-set high-low humidity levels 18. our advanced contamination technologies are designed to protect your valuable cultures, eliminate the loss of time and resources while providing convenient added security for your research work. 19. Certificates Attached	Yes - Complies Yes - Complies Attached				
10	IVF010	Trigas Bench Top Incubators for Human Embryo culture	1	1	Nos	825000	825000		PLANER	55339	1. Compact, humidified Pre-Mixed/ TRI-gas incubator designed to maintain optimal environment for development of ova or embryos. 2. Has two or more chambers to hold dishes, dishes per chamber minimum 4 3. The dual chambers have individual temperature control. Heating of both base and lid ensures even distribution of heat. 4. Direct contact of base with each culture dish ensures heat transfer by Conduction resulting in thermal stability 5. Automatic gas purge on lid closure to maintain gas environment. 6. In built humification system. 7. Uses pre-mix Gas & Several units can be connected to one source of Supply. 8. 24 hour digital recording of temperature and gas flow. 9. Time-stamped alarm notifications include description of event. 10. Battery backup - For day 1 - day 5 Culturing 11. Gas Supply: High Purity CO2/O2/N2 mixture. Nominal input pressure 150kPa. 12. Power: Universal Input 100-240 V AC, 50/60 Hz. 13. Safety : Designed to conform with AS3200.1 1990, IEC60601.1 and IEC61010.1 14. Two Stage Regulator 15. Product should be approved from USFDA/European CE certified.	1. Compact, humidified Pre-Mixed/ TRI-gas incubator designed to maintain optimal temperature, gas and humidity 2. Large range of cultural dish sizes accepted. 3. Independent temperature monitoring 4. Direct contact of base with each culture dish ensures heat transfer by Conduction resulting in thermal stability 5. Automatic gas purge on lid closure to maintain gas environment. 6. In built humification system. 7. Uses pre-mix Gas & Several units can be connected to one source of Supply. 8. 24 hour digital recording of temperature and gas flow. 9. Time-stamped alarm notifications include description of event. 10. Battery backup - For 2 hours 11. Premixed gas. Typically 6% CO2, 5% O2, 89% N2 with adequate input pressure 12. Power: Universal Input 100-240 V AC, 50/60 Hz. 13. Safety : Designed to conform with AS3200.1 1990, IEC60601.1 and IEC61010.1 14. Two Stage Regulator 15. Product should be approved from USFDA/European CE certified.	Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies	EMBRYOLOGY LAB			
11	IVF011	Trinocular Stereozoom Microscope	1	1	Nos	309000	309000		NIKON		1. Microscope body with 5x-500x magnification, and 45 degrees inclination trinocular tube (C- mount) 2. Eyepiece 10X with ESD capability, F.N. 22, focusable 3. Focussing mount with coaxial coarse and fine focussing knobs 4. Power Cord 5. Should be integrated into IVF Workstation Dust Cover` 6. Beam splitter for trinocular port 7. Eyepiece 10x, FN 22 8. C-mount adapter to be included 9. Trinocular observation tube with inclination at 30 degree, interpupillary distance adjustment 48mm -76mm. 10. Working Distance Up to 92 mm 11. Plane achromatic objective 1X Resolution of at least 600lp/mm. 12. Transmitted light stage with halogen illuminator of at least 30 watt. 13. Scientific Digital Camera for microscopy with control software, progressive scan CMOS/CCD having resolution of 5 M-pixel or better 14. Coaxial coarse and fine focusing knob mechanism should be built in	1. Microscope body with 5x-500x magnification, and 45 degrees inclination trinocular tube (C- mount) 2. Eyepiece 10X with ESD capability, F.N. 22, focusable 3. Focussing mount with coaxial coarse and fine focussing knobs 4. Power Cord 5. Should be integrated into IVF Workstation Dust Cover` 6. Beam splitter for trinocular port 7. Eyepiece 10x, FN 22 8. C-mount adapter to be included 9. Trinocular observation tube with inclination at 30 degree, interpupillary distance adjustment 48mm -76mm. 10. Working Distance Up to 92 mm 11. Plane achromatic objective 1X Resolution of at least 600lp/mm. 12. there are two illuminators available: the G-LS of 6V10W and the C-DSLS of 6V20W 13. Scientific Digital Camera for microscopy with control software, progressive scan CMOS/CCD having resolution of 5 M-pixel or better 14. Coaxial coarse and fine focusing knob mechanism should be built in	Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies	EMBRYOLOGY LAB			

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12	IVF012	ICSI Micro Manipulator with Inverted Microscope	1	1	Nos	2625000	2625000		NIKON	2511 - 753037	1. Latest Inverted microscope	1. Latest Inverted microscope	Yes - Complies	EMBRYOLOGY LAB			
											2. 3 position light path	2.Motion sensor LED light underneath the stage for improved visibility when changing objectives.	Yes - Complies				
											3. Prism preinstalled	3. Prism preinstalled	Yes - Complies				
											4. Illumination equipped with condenser holder	4. Illumination equipped with condenser holder	Yes - Complies				
											5. LED Lamphouse	5. LED Lamphouse	Yes - Complies				
											6. Sextuple Nosepiece is included.	6. Sextuple Nosepiece is included.	Yes - Complies				
											7. Binocular Tube Widefield eyepiece 10X, focusable.	7. Binocular Tube Widefield eyepiece 10X, focusable.	Yes - Complies				
											8. Enough travelling range applied for slide glass, 35 mm dish as well as multiwell plate, circle stage inserts included	8. Enough travelling range applied for slide glass, 35 mm dish as well as multiwell plate, circle stage inserts included	Yes - Complies				
											9. Sample holder for slide glass, 35 mm dish, multiwell plate as option. Stage stopper function is implemented for time-lapse or operation on stage	9. Sample holder for slide glass, 35 mm dish, multiwell plate as option. Stage stopper function is implemented for time-lapse or operation on stage	Yes - Complies				
											10. Long working distance condenser for DIC/RC/NAMC observation	10. Long working distance condenser for DIC/RC/NAMC observation	Yes - Complies				
											11. Mechanical or manual or electrical micromanipulator	11. Mechanical or manual or electrical micromanipulator	Yes - Complies				
											12. Digital display of 3D fine control from single level	12. 3.5" color LCD touch screen display for temperature control.	Yes - Complies				
											13. Heating system of insert should be such that it should avoid cold	13. Thermosafe heating system with heated metal insert: 25mm	Yes - Complies				
											14. 1 x Oil Injector	14. 1 x Oil Injector	Yes - Complies				
											15. 1 x air injector	15. 1 x Air injector	Yes - Complies				
											16. For Intracytoplasmic Sperm Injection in IVF	16. For Intracytoplasmic Sperm Injection in IVF	Yes - Complies				
											17. Micromanipulator should be compatible for the utility of commonly available LASER And Spindle view imaging system.	17. Micromanipulator should be compatible for the utility of commonly available LASER And Spindle view imaging system.	Yes - Complies				
											18. Must be FDA/ EU approved	18. FDA/ EU approved	Yes - Complies				
13	IVF013	IVF Laser System	1	1	Nos	2560000	2560000		NIKON	21086	13.1. Laser for IVF lab to ablate zona pellucida, hatching, biopsies and blastomere collapse	13.1. Laser for IVF lab to ablate zona pellucida, hatching, biopsies and blastomere collapse	Yes - Complies	EMBRYOLOGY LAB			
											13.2. Moveable laser with biopsy mode	13.2. Moveable laser with biopsy mode	Yes - Complies				
											13.3. The laser objective should be designed in such a way that it can focus visible light,but also to focus the infra-red beam at the same plane as the visible light, and to maximise the power transmission for efficient drilling	13.3. The laser objective should be designed in such a way that it can focus visible light,but also to focus the infra-red beam at the same plane as the visible light, and to maximise the power transmission for efficient drilling	Yes - Complies				
											13.4. Laser should include both pilot and ablation laser	13.4. Laser should include both pilot and ablation laser	Yes - Complies				
											13.6. Laser power should be between 350-425mW	13.6. Laser power between 1480nm / 400mW	Yes - Complies				
											13.7. Powerful software should be supplied with laser to ensure that it can have home position setting, measuring tool digital magnification, simulator for training and demo features.	13.7. Powerful software should be supplied with laser to ensure that it can have home position setting, measuring tool digital magnification, simulator for training and demo features.	Yes - Complies				
14	IVF014	IVF Thermometer with Probe	1	1	Nos	61875	61875		Testo	84231125	1. Easy to use handheld digital, water proof	1. Easy to use handheld digital, water proof	Yes - Complies	EMBROLOGY LAB			
											2. To check temperature of heated surface, inside the media droplet, incubators,	2. To check temperature of heated surface, inside the media droplet, incubators,	Yes - Complies				
											3. Operating time at least 200 hours on battery	3. Operating time at least 200 hours on battery	Yes - Complies				
											4. Ergonomic design and should have digital display	4. Ergonomic design and should have digital display	Yes - Complies				
											5. Calibration certificate required.	Certificate Enclosed	Yes - Complies				
											6. Certificate: should be CE or FDA or BIS certified	CE Certificater Enclosed	Yes - Complies				
15	IVF015	CO2 Cylinder with accessories	2	2	Nos	50000	100000		Everest Kanto	L084,J063	1.Medical grade CO2 cylinder 31 Kg. Accessories like pliers, wrenches to work with each cylinders to be provided, 06 extra regulators for each cylinder.	1.Medical grade CO2 cylinder 51 Kg. Accessories like pliers, wrenches to work with each cylinders Supplied, 06 extra regulators for each cylinder has provided	Yes - Complies	MANIFOLD ROOM			
											2. With two stage regulator calibrated in PSI	2. With two stage regulator calibrated in PSI	Yes - Complies				
											3. With required attachments for manifold. With automatic inline arrangement to ensure steady, nonstop supply	3. With required attachments for manifold. With automatic inline arrangement to ensure steady, nonstop supply	Yes - Complies				

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16	IVF016	CO2 and O2 Analyzer	1	1	Nos	378000	3,78,000		Geotech	IN16815	1.Hand held with Quick verification of CO2 and O2 incubator levels	1.Hand held with Quick verification of CO2 and O2 incubator levels	Yes - Complies	EMBRYOLOGY LAB			
											2. Large data storage up to 750 readings	2.. Large data storage up to 750 readings	Yes - Complies				
											3. CO2 0-20%; O2 0-100%	3. CO2 0-20%; O2 0-100%	Yes - Complies				
											4. Battery Life: 10 Hours (8 hours pumping)	4. Battery Life: 10 Hours (8 hours pumping)	Yes - Complies				
											5.Easy to read	5. Easy to read	Yes - Complies				
											6.. Atleast 2 temperature probes	6.. Atleast 2 temperature probes	Yes - Complies				
											7. Built in moisture gas removal and humidity trap	7. Built in moisture gas removal and humidity trap	Yes - Complies				
17	IVF017	PH Meter	1	1	Nos	93750	93,750		THERMO SCIENTIFIC	3071405	1. Hand held, simple pH meter to read the media drops	1. Hand held, simple pH meter to read the media drops	Yes - Complies	EMBRYOLOGY LAB			
											2. pH accuracy ±0.03pH	2. pH accuracy ±0.03pH	Yes - Complies				
											3. pH calibration atleast 2 points in room temperature	3. pH calibration atleast 2 points in room temperature	Yes - Complies				
											4. Calibration by pH buffers 7-10	4. Calibration by pH buffers 7-10	Yes - Complies				
											5. Temperature accuracy ±0.5 DegC	5. Temperature accuracy ±0.5 Deg C	Yes - Complies				
											6. Data logging facility	6. Data logging facility	Yes - Complies				
18	IVF018	VOC Meter for ART Lab	1	1	Nos	731250	731250		Research Instruments	592931054	1. Handheld monitor capable of detecting contamination at 0.1ppm	1. Handheld monitor capable of detecting contamination at 0.1ppm	Yes - Complies	EMBRYOLOGY LAB			
											2. PID sensor 0-15000ppm	2. PID sensor 0-15000ppm	Yes - Complies				
											3. Response time < 5 seconds	3. Response time <35 seconds	Yes - Complies				
											4. Flow rate 400-500cc/min	4. Flow rate 400-500cc/min	Yes - Complies				
											5. Data logging facility mandatory	5. Data logging facility mandatory	Yes - Complies				
											6. Weight less then 1Kg	weight 738g	Yes - Complies				
19	IVF019	Sperm Counting Chamber	1	1	Nos	75625	75625		Shukratara		1. Counting Chamber with cover Slip(Glass)	1. Counting Chamber with cover Slip(Glass)	Yes - Complies	ANDROLOGY LAB			
											2. Cover Slip with Grid built in with 100 squares	2. Cover Slip with Grid built in with 100 squares	Yes - Complies				
											3. Reusable	3. Reusable	Yes - Complies				
											4. No Calibration required	4. No Calibration required	Yes - Complies				
											5. Optimal depth 10 microns	5. Optimal depth 10 microns	Yes - Complies				
											6. Should be provided with cleaning brush and cleaning paper	6. Should be provided with cleaning brush and cleaning paper	Yes - Complies				
											7. 99% accuracy for pre and post wash semen analysis	7. 99% accuracy for pre and post wash semen analysis	Yes - Complies				
											8. Valid CE/US FDA/BIS Certification	8. Valid CE/US FDA/BIS Certification	Yes - Complies				
20	IVF020	Binocular Microscope MLX-B Plus	1	1	Nos	41250	41250		Magnus	23F0212	1. Standard microscope set complete with built-in 6V20W halogen light illuminator with regular power supply	1. Standard microscope set complete with built-in 6V20W halogen light illuminator with regular power supply	Yes - Complies	ANDROLOGY LAB			
											2. Quadruple ball bearing nosepiece, co-axial coarse and fine focusing controls, high resolution Semi- Plan Achromat objectives 4x, 10x, 20X & 40x (spring)	2. Quadruple ball bearing nosepiece, co-axial coarse and fine focusing controls, high resolution Semi- Plan Achromat objectives 4x, 10x, 20X & 40x (spring)	Yes - Complies				
											3. 3600 rotatable inclined binocular tube, fungus resistant optics for tropical use, widefield paired eyepiece HWF10x (F.N.18), right hand control co-axial low drive mechanical stage and rack & pinion focusable Abbe condenser 0.9/1.25 N.A with iris diaphragm complete set in thermocole packing	3. 3600 rotatable inclined binocular tube, fungus resistant optics for tropical use, widefield paired eyepiece HWF10x (F.N.18), right hand control co-axial low drive mechanical stage and rack & pinion focusable Abbe condenser 0.9/1.25 N.A with iris diaphragm complete set in thermocole packing	Yes - Complies				
21	IVF021	Laminar Flow Cabinet with Andrology Work Station	1	1	Nos	250000	250000		JD Medicals	20130	1. 3 Feet LAF where both user and product are protected against particle and microbial contamination. IVF	1. 3 Feet LAF where both user and product are protected against particle and microbial contamination. IVF	Yes - Complies	ANDROLOGY LAB			
											2. Quadruple ball bearing nosepiece, co-axial coarse and fine focusing controls, high resolution Semi- Plan Achromat objectives 4x, 10x, 20X & 40x (spring)	2. Quadruple ball bearing nosepiece, co-axial coarse and fine focusing controls, high resolution Semi- Plan Achromat objectives 4x, 10x, 20X & 40x (spring)	Yes - Complies				
											3. 360 DEG rotatable inclined binocular tube, fungus resistant optics for tropical use, widefield paired eyepiece HWF10x (F.N.18), right hand control co-axial low drive mechanical stage and rack & pinion focusable Abbe condenser 0.9/1.25 N.A with iris diaphragm complete set in thermocole packing	3. 360 DEG rotatable inclined binocular tube, fungus resistant optics for tropical use, widefield paired eyepiece HWF10x (F.N.18), right hand control co-axial low drive mechanical stage and rack & pinion focusable Abbe condenser 0.9/1.25 N.A with iris diaphragm complete set in thermocole packing	Yes - Complies				
											4. Surgical Stainless Steel (2mm) work surface	4. Surgical Stainless Steel (2mm) work surface	Yes - Complies				
											5. Toughened glass front window	5. Toughened glass front window	Yes - Complies				
											6. Adjustable luminosity	6. Adjustable luminosity	Yes - Complies				
											7. Fully operated with a microprocessor control panel	7. Fully operated with a microprocessor control panel	Yes - Complies				
											8. USB data output	8. USB data output	Yes - Complies				
											9. Electrical outlets	9. Electrical outlets	Yes - Complies				
											10. Fixed support Stand (80-85cm)	10. Fixed support Stand (80-85cm)	Yes - Complies				
											11. Dimensions: 1000x800x2000 (WxDxH)	11. Dimensions: 1000x670x2000 (WxDxH) Complies as per IVF	Yes - Complies				

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22	IVF022	Clinical Centrifuge machine for Andrology with Acessories	1	1	Nos	34500	34500		REMI	ZJGN20240	1. Brushless Motor Capacity (6x10ml) with Swing Out Rotor 2. Max RPM/RCF(xg)-4000RPM/2270g based on the rotor 3. Speed setting as 500-4000 RPM in steps of 10RPM 4. User should be able to set and save upto 99 user defined programs(protocols) with a digital display	1. Brushless Motor Capacity (6x10ml) with Swing Out Rotor 2. Max RPM/RCF(xg)-6000RPM/5070g based on the rotor 3. Speed setting as 500-4000 RPM in steps of 12RPM 4. User should be able to set and save upto 99 user defined programs(protocols) with a digital display	Yes - Complies Yes - Complies Yes - Complies Yes - Complies	ANDROLOGY LAB			
23	IVF023	DRY Incubator	1	1	Nos	563750	563750		ThermoFisher	30571816	1. Capacity 30 to 35 lit 2. Precise temperature control 37degree +/- 0.5% 3. Exceptionally stable and accurate 4. Every corner inside the incubator chamber should be round 5. Automatic CO2 sensor calibration 6. Audible alarms guard specimens against any deviations from the user settings 7. Unit should be compact and easy to handle while keeping on bench. 8. Inner Chamber Dimension should be less than W350 x D350 x H350 9. Capacity: Calibration facility should be there 10. Programmable, display of level of co2 and temperature throughout. 11. Should be provided suitable SS304 grade table Adequate for incubator. 12. Should be European CE/ US FDA certified.	1. Capacity 39 Lit 2. Precise temperature control 37degree +/- 0.5% 3. Exceptionally stable and accurate 4. Every corner inside the incubator chamber should be round 5. Automatic CO2 sensor calibration 6. Audible alarms guard specimens against any deviations from the user settings 7. Unit should be compact and easy to handle while keeping on bench. 8. Inner Chamber Dimension should be less than W350 x D350 x H350 9. Capacity: Calibration facility should be there 10. Programmable, display of level of co2 and temperature throughout. 11. Should be provided suitable SS304 grade table Adequate for incubator. 12. Should be European CE/ US FDA certified.	Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies	ANDROLOGY LAB			
24	IVF024	Pipetter and Denudation system	1	1	Nos	103125	103125		Cooper Surgicals	148956	1. Denudation System It should be a medical device for use in Human IVF. 2. Each system should consist of following items • Denudation Pipette Rack Should have slots for placing at least two denudation holder with pipette. • Denudation Pipette Holder • Adjustable handle to accept all sizes of pipettes 3. Denudation Pipette• Flexible polycarbonate pipettes used for manipulation of oocytes and embryo Pipette tips should be suitable to get easily attached & detached with holder Size: 135-140 µm, pack of 10 or 20 (5 Packs)• Size:170-175 µm, pack of 10 or 20 (5 Packs) • Size: 275-300µm, pack of 10 or 20 (5 Packs)4. Certificate : Should be European CE or US FDA or BIS certified.	1. Denudation System It should be a medical device for use in Human IVF. 2. Each system should consist of following items • Denudation Pipette Rack Should have slots for placing at least two denudation holder with pipette. • Denudation Pipette Holder • Adjustable handle to accept all sizes of pipettes 3. Denudation Pipette• Flexible polycarbonate pipettes used for manipulation of oocytes and embryo Pipette tips should be suitable to get easily attached & detached with holder Size: 135-140 µm, pack of 10 or 20 (5 Packs)• Size:170-175 µm, pack of 10 or 20 (5 Packs) • Size: 275-300µm, pack of 10 or 20 (5 Packs)4. Certificate : Should be European CE or US FDA or BIS certified.	Yes - Complies Yes - Complies Yes - Complies	EMBRYOLOGY LAB			
25	IVF025	Pharmaceutical Refrigerator	1	1	Nos	225000	225000		Bluestar	210330355	1. Capacity of storage 300 liters or more 2. Temp range-should have adjustable temperature control range from +1° to +8° C, factory present at 4° C. 3. Refrigerator system: The system should have high density CFC-free insulation to protect cabinet from ambient temperature fluctuation. The system should have positive, force, air circulation to maintain temperature uniformity at all shelf levels, with quick recovery +/- 1 degree Celsius. 4. The system should have sensors for activation of Automatic/manual defrosts cycle to minimize the frost build up. 5. Internal construction should be made of high grade stainless steel (minimum 22G) External construction corrosion resistant sheet at least 1 mm thickness. 6. Internal temperature control: System should have temperature control range from +10 C to +80 C. Temperature control resolution should be better than 10 C.Cooling down time of max of 150 min on half load. 7. External ambient temp should perform in ambient temp up to +430 C.	1. Capacity of storage 520 liters 2. Temp range-should have adjustable temperature control range from +2° to +10° C, factory present at 4° C. 3.Eco Friendly refrigerant with R134a (CFC Free) 4. The system have Two sensors and Automatic/manual defrosts System 5. Internal & External high grade stainless steel 6. Error in Thechnical Specifications complies with IVF Requirement of Internal temperature control - +2°to +10° 7. Error in Thechnical Specifications complies with IVF Requirement External ambient temp up to +43° C.	Yes - Complies Yes - Complies yes complies Yes - Complies Yes - Complies Yes - Complies	ANDROLOGY LAB			

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											8. Door System should lockable double doors with double pane with self closing door for better safety.	8. safety door lock.	Yes - Complies				
26	IVF026	Cryocane TA 26 Ltr with wheels	2	2	Nos	61875	123750		IBP	V23300, J-23589	1. specimen storage - 47.3Litres	1. specimen storage - 47.3Litres	Yes - Complies	CRYO ROOM			
											2. For Liquid Nitrogen storage - 26 Litres – 1 pcs	2. Liquid Nitrogen storage - 26 Litres	Yes - Complies				
27	IVF027	Defibrillator	1	1	Nos	312500	312500		Nihon Kohden	10762	1. Defibrillator should be a low energy Bi-Phasic and truly Portable. Should not weigh more than 6 Kgs (+/- 10% is acceptable)	Weight - 4.7 Kg	Yes - Complies	MAJOR OT			
											2. Unit should have facility for automatic external defibrillation and manual defibrillation	yes possible	Yes - Complies				
											3. Should work on Manual and Automated external defibrillation (AED) in Bi-phasic mode. The maximum energy delivered should be as per AHA (American Heart Association Guidelines) by the device should be 1 J to 200J in manual mode and 150 J in AED mode.	yes available AED mode and manual mode 1 J to 360J in manual and 150 J in AED	Yes - Complies				
											4.The monitor should have a TFT color display with a two or more channels display with monitor size of 7 inches or more.	7 inch color TFT display	Yes - Complies				
											5.Power Requirements : 220 to 240V, 50Hz	Yes	Yes - Complies				
											6.Battery operated : Rechargeable battery backup for 100 shocks or more than 3 hours	Yes. Upto 150 shocks	Yes - Complies				
											7.Accessories- Chest paddles	Chest paddles adult and peadatric	Yes - Complies				
											8.Machine must be supplied with ECG cable, Battery, paddle Adult integrated	yes delivered as complete set	Yes - Complies				
											9.ECG Cable, recording paper rolls ; disposable pads	yes delivered as complete set	Yes - Complies				
28	IVF028	7 Para Patient Monitor	2	2	Nos	280000	560000		Comen	E7230826 021, E7230826 024	1.Description of function: Beside monitors are used to monitor the seven vital parameters (ECG,SPO2,NIBP,Respiration ,Temperature ,Dual IBP AND Etc02) of patient's side inwards ,ICU ,CCU , other intensive care units and all operation theaters.	Yes Multiparameter Monitors contals below paparmeters. ECG/Resp/NIBP/SPO2, Dual IBP and EtC02	Yes - Complies	IVF OT & MAJOR OT			
											2. Operational Requirements: patient monitors must be pre-configured with following seven parameters (ECG,SPO2,NIBP,Respiration,Temparature ,Dual IBP, and Etc02) easy to use, portable ,wall mounted and operation by single knob control.	Yes Preconfigured	Yes - Complies				
											a) patient monitor must have Bidirectional connectivity to central monitoring system with other bed view facility.	Yes connectivity possible	Yes - Complies				
											b)protection: built -in cautery & defibrillator protection	Yes available as standard	Yes - Complies				
											c)minimum 72 hours tabular trends must be available for all monitors.	92 Hours treand saving option	Yes - Complies				
											Display : 1) Monitors must have at least 12.1 inch or more high resolution TFT colour display screen with flexible user definable settings	yes 12.1 inch display	Yes - Complies				
											2) should have resolution of 800×600 or better with at least 8 traces and numeric values on display	1000* 800 with 8 traces possible	Yes - Complies				
											3)combination of single , dual and multi parameters modes	Yes possible	Yes - Complies				
											4) should have Ability to change the wave trace color and parameter colour by user	Yes	Yes - Complies				
											5) Must have special features to adjust and smooth the wave forms for better viewing from from different angle	Yes	Yes - Complies				
											ECG: Monitoring of ECG (I,II,III,aVR,avL,aVL,aVF and chest lead) and pulse detection ,display of heart rate with low and high heart rate alarm (adjustable between 30-250 bpm, audio visual alarms)	all options available in ECG	Yes - Complies				
											HR Range : 20 to 300 BPM (+/-3 3BPM or2% whichever is greater)	Yes	Yes - Complies				
											Must have 5 lead ECG	yes provided	Yes - Complies				

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											spo2: 1) Must show accurate value +/-2% of pulse oxymeter (spo2) / plethysomograph at high (20%) to low (0.05%) perfusion level and motion artifacts PR Range : 20 to 250 BPM or more patient monitor to have the Accuracy of : 100 -70% (±2) ;0-69% (±3)	Yes possible Yes possible and provided Yes possible	Yes - Complies Yes - Complies Yes - Complies				
29	IVF029	Suction Machine	1	1	Nos	49500	49500		YUWELL	00168	1. Portable suction unit: size 38x17x28.5cm, weight 5.1kg 2. Technical specifications: SUCTION MACHINE with pump: • Power supply: 230-240V/50Hz • Vacuum capacity: 18 litres/mim Maximum depression: -75kPa	 AC 220V @50Hz,180VA Vaccum Capacity 20LPM Maximum depression: -90kPa	Not Relevant spec Yes - Complies Yes - Complies Yes - Complies	MAJOR OT			
30	IVF030	Anaesthesia Work station at	1	1	Nos	937500	937500		Comen	X4230427nn1R	1.a.Compact and modular, three gas oxygen, Air & N2O Anaesthesia workstation with an integrated ventilator for adult to infants and integrated airway monitor for pressures and volume. 1.b.The machine should have 2 or 3 drawers 1.c.The anaesthesia machine, in built ventilator and vaporizer should be manufactured by same company to maintain uniformity of part and efficient after sale service. Vaporiser should FDA approved. Certificate should be enclosed in the technical bid 1.d.The system should have minimum 2 hrs or more battery backup 1.e.System should confirm to European CE or US FDA/BIS 2.a.Should have pin index yokes for Oxygen and Nitrous oxide besides separate connection for central gas supply for Oxygen, Nitrous oxide. 2.b.The machine should have pressure gauges for cylinders and central supply lines mounted on front of Anaesthesia machine for better visibility. The gas connections should be non-interchangeable 2.c.Audible visual oxygen failure alarm. 2.d.Emergency oxygen flush at 30-70 1/min by passing the vaporized. 2.e.In the event of complete power loss and battery failure it shall be possible to manually ventilate and deliver anaesthetic agent. 3.aVaporiserShould be provided with a temperature /pressure compensated and flow independent vaporizer for isoflourane / sevoflurane 3.bVaporizer should have extended delivery range from 0 to 6 vol. % 3.cThe vaporizer should require no calibration in its life time 4)Breathing system 4.aShould have fresh gas coupled / de-coupled semi closed circle absorber system 4.bShould have adjustable pressure relief valve from 5 to 70 mbar 4.cShould have change over from spontaneous to bag ventilation with single step. 4.dThe system should have leak and compliance test (including patient hoses upto the Y piece) 4.eShould have compact breathing system below 3 ltrs volume capacity 4.fShould have external fresh gas outlet for connecting Magill or Bain's circuit 4.hThe device should have port for anaesthesia gas scavenging system	3 gas system. Oxygen, Air & N2O possible in Comen AX400 anesthesia Machine 2 drawers Yes provided Yes 4 Hours battery backup CE Yes all ports available Yes possible Yes Yes yes possible. yes possible. yes possible.	Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies Yes - Complies	MAJOR OT			

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		Gandhi Hospital								0010	5) Anaesthesia ventilator 5.a) The system should have inbuilt ventilator with electronically controlled and pneumatic or piston driven technology 5.b) Should not require changing of bellows for adult and infants 5.c) Should have minimum screen size of 6" or more. 5.d) Modes: Manual /spont, volume controlled, pressure controlled, SiMV/PS 5.e) The same ventilator should be capable to be upgrade to pressure support 5.f) Tidal volume - 20-1500 ml 5.g) PEEP – 4-20 cm H2O 5.h) Breathing Frequency - 4 to 60 BPM 5.I: E Ratio – 4 :1 to 1: 4 5.j) Inspiratory pause – 0-50% of TI	yes possible.	Yes - Complies				
											6) Integrated Airway monitoring and display of following parameters 6.a) Expiratory tidal volume 6.b) Expiratory minute volume 6.c) PEEP, Peak and Mean and Paetau airway pressure 6.d) Frequency 6.e) Waveform display for Airway pressure,	yes possible.	Yes - Complies				
											7) Adjustable high/low alarm limits with audio and visual alarms for the following 7.a) Minute volume 7.b) Airway pressure (incl stenosis and disconnect) 7.c) Insp oxygen concentration 7.d) Audio power supply fail alarm 7.e) Fail to cycle warning	yes possible.	Yes - Complies				
											8) Options (Mention unit prices in price bid) 8.a) Color screen display	yes possible.	Yes - Complies				
											9) Machine should have RS232 connectivity port	yes possible.	Yes - Complies				
											10) Scope of supply 10.a) 3 gas Anaesthesia Machine 10.b) Trolley with 2 or 3 drawers 10.c) Writing surface 10.d) Pin index yokes for O2& N2O 10.e) Pipeline connections for all three gases 10.f) Anaesthesia ventilator 10.g) Patient monitor with ECG, SPO2 , NIBP & ETCO2 10.h) Semi closed breathing system 10.i) Adult and peadiatric autoclavable patient tubings 10.j) Anaesthetic mask size- Adult and child 10.k) Vaporizers for Isoflourane & sevoflourane 10.l) Central gas supply hoses (Color coded) 10.m) Instruction for use	yes delivered as complete set	Yes - Complies				
											1. High Grade strong stainless steel, Triple walled construction	1. High Grade strong stainless steel, Triple walled construction	Yes - Complies				
											2. Positive radial self-locking safety doors.	2. Positive radial self-locking safety doors.	Yes - Complies				
											3. Hydrostatically tested to withstand 2.5 times the working pressure.	3. Hydrostatically tested to withstand 2.5 times the working pressure.	Yes - Complies				
											4. Sealed with Neoprene/Silicon long-lasting and durable gasket.	4. Sealed with Neoprene/Silicon long-lasting and durable gasket.	Yes - Complies				
											5. Digital display for Jacket and Chamber pressure and temperature.	5. Digital display for Jacket and Chamber pressure and temperature.	Yes - Complies				
											6. Outer jacket insulated to prevent heat loss;with a high grade insulationmaterial	6. Outer jacket insulated to prevent heat loss;with a high grade insulationmaterial	Yes - Complies				
											7. Mounted on 304 stainless steel frame with ground leveling flanges.	304 Medical grade stainless steel Frame.	Yes - Complies				
											8. Temperature and pressure cut-off device.	8. Temperature and pressure cut-off device.	Yes - Complies				
											9. Auto cut-off at low water level	Auto cut-off at low water level	Yes - Complies				

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31	IVF031	Autoclave at Gandhi Hospital	1	1	Nos	562500	562500		Cistron	CSHSMS023	10. Rust-proof 304 grade stainless steel.	304 Medical grade stainless steel.	Yes - Complies	AUTOCLAVE ROOM			
											11. Cylindrical construction.	Cylindrical construction.	Yes - Complies				
											12. Equipment should have separate steam release valve and drainage system.	Separate Steam And Drain Outlets	Yes - Complies				
											13. Minimum of two safety valves with auto-release at 16 and 20.	13. Minimum of two safety valves with auto-release at 16 and 21.	Yes - Complies				
											14. User's interface : Manual	Available	Yes - Complies				
											15. Physical Characteristics • Capacity : 250lts • Heat dissipation : Should maintain nominal temperature and the head should be disbursed through a cooling mechanism • Energy Source (electricity, UPS, solar, gas, water, CO2) • Operating pressure : Should have operating pressure between 1.2 to 2.1 kg / cm2; 10-20 psl • Power consumption : Upto 18kW • Accessories, Spare Parts, Consumables • Perforate basket(rust-free stainless steel) • Biological and chemical indicators-1 set • Bins Big size : Seamless bins of Size 15"X 12" • Bin Medium size : Seamless bins of Size 11"x9" • Bin Small size :Seamless bins of Size 11"X 41/2"	Provided as per specifications	Yes - Complies				
											Standards And Safety Certifications : FDA(US) /CE/BIS	Certificate Enclosed	Yes - Complies				
32	IVF032	Operative Hysteroscopy and Resectoscope Set Machine	1	1	Nos	2125000	2125000		Akino	232409075W	1. 2.9 mm hysteroscope	Make & Model Approved for The Supplied Equipment vide Lr.No.290/IVFC/Spl.Proj/TSMSIDC/2023 Dt.11-08-2023		MAJOR OT			
											2. "Hysteroscope sheath for 2.9 mm telescope — operative inner sheath						
											3. "Hysteroscope sheath for 2.9 mm telescope — operative outer sheath						
											4. Accessories for hysteroscope — • Hysteroscopy scissor • Hysteroscopy grasper • Hysteroscopy biopsy forceps • Monopolar electrode • Bipolar electrode • Monopolar cable • Bipolar cable • Hysteroscopy pressure bag - 1000ml • Hysteromat • Vasa Point						
33	IVF033	Operative Laparoscopy Set	1	1	Nos	4200000	4200000		Akino	232409075W	1. 3 Chip CMOS or 3chip CCD Full HD Camera with -Camera Head and ZOOM Coupler- • RESOLUTION 1920 *1080 PIXELS • LED LIGHT SOURCE 300W LED Light Source • "FIBRE OPTIC CABLE 4.8MM 2.5 MTR or more • "MEDICL MONITOR LED 26" WITH POWER ADOPTOR" • "40 LTR CO2 INSUFFLATOR WITH INBUILT HEATER" • CO2 REGULATOR	Make & Model Approved for The Supplied Equipment vide Lr.No.290/IVFC/Spl.Proj/TSMSIDC/2023 Dt.11-08-2023		MAJOR OT			
											2. Telescope • 10MM 30 DEG HD TELESCOPE 10MM • 5 MM 30 DEG HD TELESCOPE 5 MM 30 • 10 MM 0 DEG HD TELESCOPE 10 MM 0 DEG						
											1. Holes of 1 cm dia to allow fluid drainage	1. Holes of 1 cm dia to allow fluid drainage	Yes - Compiles				
											2. Lower frame and intermediate frame of steel tubes of rectangular and squareSections, multiple pre-treated and epoxy powder coated.	2. Lower frame and intermediate frame of steel tubes of rectangular and squareSections, multiple pre-treated and epoxy powder coated.	Yes - Compiles				

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34	IVF035	Ultrasound Examination Couch at Gandhi Hospital	1	1	Nos	81250	81250			202305241093	3. Size (approximate): Length: 2050 mm bed surface, 2125 mm with frame.Width: 750 mm	3. Size (approximate): Length: 2050 mm bed surface, 2125 mm with frame.Width: 750 mm	Yes - Compiles	ULTRASOUND ROOM			
											4.Bed surface size: 705 mm W x 1950 mm L.	4.Bed surface size: 705 mm W x 1950 mm L.	Yes - Compiles				
											5. Mattress – High-density foam mattress anti-microbial treated with Waterproof flame retardant, antimicrobial, leather like upholstery.	5. Mattress – High-density foam mattress anti-microbial treated with Waterproof flame retardant, antimicrobial, leather like upholstery.	Yes - Compiles				
											6. Backrest operated by gas system from horizontal to seated position _15°Trendelenburg	Electrically Operatable	Yes - Compiles				
											7. Height adjustable leg rests	7. Height adjustable leg rests	Yes - Compiles				
											8. Trendelenburg position operated by gas system	8. Trendelenburg position operated by gas system	Yes - Compiles				
											9. Pre acceptance demonstration of furniture is must.	9. Pre acceptance demonstration of furniture is must.	Yes - Compiles				
											10. Motorised with 3 functions- Head rest, TR, High/low	10. Motorised with 3 functions- Head rest, TR, High/low	Yes - Compiles				
											11. Doctor stool	11. Doctor stool	Yes - Compiles				
											12. Step stool	12. Step stool	Yes - Compiles				
35	IVF094	AIR SHOWER of 16 G GI Powder coated suitable single person entry	1	1	Nos	355000	355000		Ahlada		1.Door locks automatically release in the event of a power outage or if one of the Emergency Exit buttons are depressed.	1.Door locks automatically release in the event of a power outage or if one of the Emergency Exit buttons are depressed.	Yes - Compiles	SEMI STERILE TO STERILE CORRIDOR			
											2.Shower time and door interlock duration can be programmed. Status indicator. Air nozzles to be adjusted to redirect streams of air	2.Shower time and door interlock duration can be programmed. Status indicator. Air nozzles to be adjusted to redirect streams of air	Yes - Compiles				
											3.Energy-efficient LED lighting includes motion-activation. No gaps and crevices where microbes can colonize rounded corners for easy disinfection. All required documentation and Single Phase, 230 volts.	3.Energy-efficient LED lighting includes motion-activation. No gaps and crevices where microbes can colonize rounded corners for easy disinfection. All required documentation and Single Phase, 230 volts.	Yes - Compiles				
											4.It should meet clean room requirement and standards as per ISO14644. Need to provide all test certificates and to provide qualification documents DQ, IQ, PQ & OQ, Field test readings relevant to ISO14644 standards. To provide neoprene gasket between the air shower body and the modular panel to reduce the transfer of vibration & finished with coving and sealant. Indicator lights mounted on both sides of the exterior of the air shower to regulate traffic flow, in and out of the cleanroom.	4.It should meet clean room requirement and standards as per ISO14644. Need to provide all test certificates and to provide qualification documents DQ, IQ, PQ & OQ, Field test readings relevant to ISO14644 standards. To provide neoprene gasket between the air shower body and the modular panel to reduce the transfer of vibration & finished with coving and sealant. Indicator lights mounted on both sides of the exterior of the air shower to regulate traffic flow, in and out of the cleanroom.	Yes - Compiles				

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36	IVF095	Static Pass Boxes	3	3	Nos	61000	1,83,000		Ahlada		Supply, installation, Testing and Commissioning of Static Pass Boxes of Size 450X450mm with 1.2mm thick SS 304 Mat finish , with interlock doors, UV light On when doors closed condition. As per clean room standard and requirement.	Supply, installation, Testing and Commissioning of Static Pass Boxes of Size 450X450mm with 1.2mm thick SS 304 Mat finish , with interlock doors, UV light On when doors closed condition. As per clean room standard and requirement.	Yes - Compiles	EMBRYOLOGY LAB,IVF OT,ANDROLOGY LAB			
37	IVF034	Multifunctional Printer	1	1	Nos	43750	43,750		HP	CNB1Q315P2	1. Laserjet 138fnw Monochrome Compact Wi-Fi Printer with Network Support for Reliable, Fast Printing (Print, Copy, Scan, Fax)	1.. Laserjet 138fnw Monochrome Compact Wi-Fi Printer with Network Support for Reliable, Fast Printing (Print, Copy, Scan, Fax)	Yes - Compiles	CONSULTATION ROOM			
											2. HP make	2. HP make	Yes - Complies				
38	IVF037	Laptop	2	2	Nos	115000	230000		HP	5CD324NHNC, 5CD324N GFY	1. HP Laptop 14s,	1. HP Laptop 14s,	Yes - Complies	EMBRYOLOGY LAB, ULTRASOUND ROOM			
											2. AMD Ryzen 5-5500U 14 inches(35cm) FHD, IPS	2. AMD Ryzen 5-5500U 14 inches(35cm) FHD, IPS	Yes - Complies				
											3. Micro-Edge Display Laptop	3. Micro-Edge Display Laptop	Yes - Complies				
											4. 8GB RAM/512GB SSD/Radeon Graphics	4. 8GB RAM/512GB SSD/Radeon Graphics	Yes - Complies				
											5. Windows 11/Alexa/Backlit Keyboard/MS Office	5. Windows 11/Alexa/Backlit Keyboard/MS Office	Yes - Complies				