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## Replies to Pre-Bid Queries

**NAME OF THE WORK:** Design, fabrication, establishing & commissioning of In-Vitro Fertility Centers (IVFCs) along with allied services on Turnkey basis at Gandhi hospital, Secunderabad, MGM Hospital, Warangal & MGMH Petlaburj, Hyd.

**Ref:** 1) Tender Notice No.35 (6)/TMSIDC/Tech/2022-23, dt: 20.03.2023

2) Pre-Bid meeting dated 11.04.2023 @11:00 Hrs

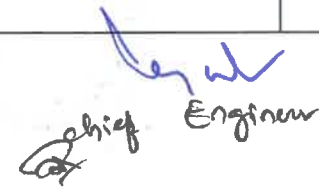
S. No	Items as per TED	Page No.	Clause No.	Clauses under review	Concerns by the prospective Bidder(s)	Name of the Bidder	Authority Reply
1	Technical Specificaitons	Page 2 of 110.	Vol. II Item no:01, Clause no:1.9	1) <u>Ovum Aspiration Pumps:</u> Dimensions (W x D x H)mm: 200x250x115	The dimensions to be changed to (LxWxH)mm: 240X148X58. The purpose is to do the follicular aspiration to aspirate the Oocyte. Different products will have different dimensions.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged
2	Technical Specificaitons	Page 2 of 110.	Vol. II Item no:01, Clause no:1.10	FDA approved and Should be compatible to fit with all commercially available oocyte recovery set.	FDA approved to be changed to FDA/CE approved.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged
3	Technical Specificaitons	Page 2 of 110.	Vol.II Item no: 02	<u>IVF test tube warmer:</u> 2.1. IVF test tube warmer ideal for heating of samples in test tubes requiring a stable heating environment 2.2. Should have at least 12 chambers either for 14ml or 5ml aspiration tubes 2.3. The highly visible digital LED display indicates the temperature level in either Celsius or Fahrenheit 2.4. Temperature may be adjusted and is extremely reliable within the range from ambient to 49.9°C. 2.5. Digital read out of temperature with control panel for settings 2.6. Temperature accuracy ±0.20C 2.7. Easy to clean 2.8. Rectangular warming blocks to hold 10 tubes of 17mm and 12 tubes of 12mm	• Testube Warmer protects the Test Tube temperature Four times better. • The test Tube temperature remains within safe limits for the duration it takes to reach the workstation from the OT. However, it is not the case with an unprotected Test Tube.  <u>Specifications:</u> • Voltage : 230 volts • Control : Microprocessor • Display : LED digital display • No. of jackets : 12 • Alert : Audio and visual alert • Temp. range : up to 40°C • Temp. accuracy : ± 0.2°C. The Oocyte & its spindle are very sensetive to the tempreature, hence the Jacket covers the aspiration tube till neck and maintian the tempreature for 80Secs.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged
4	Technical Specificaitons	Page7 of 110.	Vol.II Item no: 07 7.8	<u>IVF Work station with Laminar Airflow:</u>  Programmable auto-start and shut-down functions of all built in features, including air flow	7.8 of IVF Work station to be removed. This is not mandatory for the Laminar Air Flow operation. The LAF operation happens in the presecnce of the embryologist. Hence auto start and auto shut down it not requierd.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged
5	Technical Specificaitons	Page 8 of 110.	Vol.II Item no: 08	<u>IVF Anti Vibration Table:</u> 8.1. Air damped Anti-vibration passive table are designed to meet requirements for all models of inverted Microscopes during ICSI procedure 8.2. The plate on top should be stainless steel 8.3. Should be constructed in high density steel with added mass to the table 8.4. Should be USFDA/European CE certified 8.5. Dimensions: 780 x 1200 x 790 mm	8.2 point to be removed. ICSI Anti Vibration Table: • The Anti-Vibration platform is in the middle of the table-top • High insulation from external vibration noise, with built-in passive damping technology • No OIL filling, no AIR compressor, no air pump required for Anti-Vibration table • In built power supply sockets for ICSI unit • Special leveling element leg helps us to damper vibration further  <u>Specifications:</u> • Overall dimensions : 1120mmx800mmx820mm • Material : MS powder coated • Height of table : 820mm.  The uniform body material is preferable.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged



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6	Technical Specificaitons	Page 9 of 110.	Vol.II Item no:09 9.1	<u>CO2 Incubator [For Human IVF]:</u> 160- 220 liters internal Volume	Point no. 9.1 to be changed.  The capacity of IVF grade box type incubator starts from 150 liter. Human IVF Certified IVF box incubators starts from 150 liters.	M/s Shivani Scientific Industries (P) ltd.,	The bid condition remains unchanged
7	Technical Specificaitons	Page 9 of 110.	Vol.II Item no:10 10.1  10.7  10.11	Bench Top Incubator for Human Embryo Culture (Tri gas Bench Top Incubator for Human Embryo): Compact, humidified Pre-Mixed/ TRI-gas incubator designed to maintain optimal environment for development of ova or embryos.  Uses pre-mix Gas & Several units can be connected to one source of Supply.  Gas Supply: High Purity CO2/O2/N2 mixture. Nominal input pressure 150kPa.	10.1 , 10.7 & 10.11 to be deleted The IVF Bench Top Dry Incubator with Individual Tri Gases: Six chambers benchtop incubator with on-board gas mixture. The new generation Benchtop Incubator is equipped with digital PID temperature controls to the accuracy of +0.1°C, advanced gas control algorithms and high precision long life Zirconia Ceramic O2 and IR CO2 sensors, the EC6S offers you Industry leading optimal environment management around your precious cells. <u>Features:</u> • Unique double door with glass window • Unique lock mechanism to avoid accidental opening • 6 chambers, • O2 and CO2 sensors • Pre-heated gas to minimize cell environment disturbances • Space efficient design <u>Specifications:</u> Temp range : 20°C to 30°C Temp accuracy : ±0.1°C at 26 °C Temp uniformity : ±0.1°C at 26 °C Chambers : 6, CO2 accuracy : ±0.1% CO2 control range : 0.0 to 20% Ex. Dimensions : 518 x 610 x 170 mm O2 range : 2 to 21% With individual gas valve for each chamber. The Pre Mix gas quality is Varying from supplier to supplier and the gas mixing IVF lab becomes dependent on supplier.  The Individual Gases are superior and recurring cost is economical. Each Chamber with dedicated gas supply valve and sensor offers superior pH optimisation.	M/s Shivani Scientific Industries (P) ltd.,	The bid condition remains unchanged
8	Technical Specificaitons	Page 10 of 110.	Vol.II Item no: 12	12. ICSI Micromanipulator System with Inverted Microscope	12.11. Mechanical or manual or electrical micromanipulator 12.18. Must be FDA/ EU approved. 12.11, Currently Mechanical or Manual and Automatic Micromanipulator are available.this is due to the Post pandemic Semiconductor chips & Manufacturing parts shortage..	M/s Shivani Scientific Industries (P) ltd.,	The bid condition remains unchanged
9	Technical Specificaitons	Page 11 of 110.	Vol.II Item no:19	<u>Sperm Counting Makler Chamber</u>	Makler Brand name to be removed, It's a brand name of specific product,	M/s Shivani Scientific Industries (P) ltd.,	The bid condition remains unchanged
10	Technical Specificaitons	Page 12 of 110	Vol.II Item no:21  21.2  21.3	<u>Andrology Work station with Laminar Flow Cabinet.</u>  Quadruple ball bearing nosepiece, co-axial coarse and fine focusing controls, high resolution Semi- Plan Achromat objectives 4x, 10x, 20X & 40x (spring)  360 degrees 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.	21.2 & 21.3 to be removed.  21.2 & 21.3 are not the part of andrology workstation.	M/s Shivani Scientific Industries (P) ltd.,	The bid condition remains unchanged

  
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11	Technical Specificaitons	Page 12 of 110	Vol.II Item no:22	<u>Clinical Centrifuge for Andrology:</u>  22.1 Brushless Motor Capacity (6x10ml) with Swing Out Rotor.  22.2 Max RPM/RCF(xg)-4000RPM/2270g based on the rotor Speed setting as 500-4000 RPM in steps of 10RPM User should be able to set and save upto 99 user defined programs (protocols) with a digital display.  22.3  22.4 22.4. User should be able to set and save upto 99 user defined programs (protocols) with a digital display.	1) Centrifuge with swing out rotor head for processing semen by swim up or density gradient technique accepts 8 tubes of 15ml tube. Should have adaptor to hold different size tube. (size 6, 14 ,15 ml) 2) Should have digital G Force indication, RPM indication and timer indication. 3) Centrifuge chamber to be heated at 37 degree Celsius to maintain sperms at the same temperature throughout. 4) Centrifuge should have nine different programmes each one can be independently set for temperature, time, G Force and/or RPM etc. 5) Should have brushless AC motor 6) Should have programmed acceleration and deceleration. 7) Unit should have sealed bucket (tube holder) to avoid aerosol Contamination 8) To be supplied with all accessories including appropriate tables for placing them. 9) Safety Lid interlocks to prevent opening during centrifugation. 10) Unit should have European CE mark. The sperms are alive at 37celcius degree. The change in the tempreature to room tempreature causes harm to the sperm and causes Sperm DNA fragmentation. Higher centrifugal force may caus e damage to sperm dna.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged
12	General				<u>General Changes needed:</u>  1) CE / FDA certification required instead of only FDA.  2) Dimensions of each item is mentioned. But it will be different for different models / brands. The end result to be produced or the process to be done is the same.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged
13	SECTION – IVSPECIAL CONDITIONS OF CONTRACT (SCC).	Page no:38 of 63	Vol-1,  Cluase no:21  Item S.No:03  Item S.No:09  Item S.No:10 Item S.No:11 Item S.No:12 Item S.No:13 Item S.No:32	Manufacturer Authorization Letters: Eligible bidders shall submit a mandatory letter of authority from the Manufacturer, with name of manufacturing company for major products quoted by them as per given format as detailed below: For the following items, Manufacturer's Authorization should be submitted as per format at Annexure-F: DICOM compatible fully digital, compact, portable, Ultrasound Scan Machine Colour Doppler.  CO2 Incubators  Trigas bench Top Incubators for Human Embryo culture Trinocular Stereozoom Microscope ICSI Micro manipulator with Inverted Microscope IVF Laser System Operative Hysteroscopy and Resectoscope Set Machine UPS 20 KVA Operative Laparoscopy Set	Manufacturer Authorisation: Manufacturer / Authorised distributor authorisation required instead of only manufacturer authorisation. Some of the critical products have their Indian Authorised distributor available in India. Or these companies have offices in India.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged



*Chief Engineer*

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14	Self Evaluation Checklist	Page no: 61 of 63	Vol-1, Self-Evaluation Check list	Status of the Bidder: The bidder should have satisfactorily completed similar works as mentioned below during the last five (5) years ending 31-03-2022 with Govt./ Semi Govt. Organization / PSU / Reputed Hospitals with not less than 100 beds and preferably teaching hospital etc.	S/No. 01: Last 05years Cl.4 years ending 31-03-2023.  Due to the pandemic period 2020 to 2022, the Government, Semi Government IVF Lab project has not been established.  Hence please mention the period of 10 years.	M/s Shivani Scientific Industries (P) Ltd.,	The bid condition remains unchanged
15	SECTION – IV SPECIAL CONDITIONS OF CONTRACT (SCC).	Page no:38 of 63	Vol-1,  Cluase no:21  Item S.No:03  Item S.No:09  Item S.No:10 Item S.No:11 Item S.No:12 Item S.No:13 Item S.No:32	Manufacturer Authorization Letters: Eligible bidders shall submit a mandatory letter of authority from the Manufacturer, with name of manufacturing company for major products quoted by them as per given format as detailed below: For the following items, Manufacturer's Authorization should be submitted as per format at Annexure-F: DICOM compatible fully digital, compact, portable, Ultrasound Scan Machine Colour Doppler.  CO2 Incubators  Trigas bench Top Incubators for Human Embryo culture Trinocular Stereozoom Microscope ICSI Micro manipulator with Inverted Microscope IVF Laser System Operative Hysteroscopy and Resectoscope Set Machine UPS 20 KVA Operative Laparoscopy Set	Some of these Equipment are to be imported and as there are limited number of suppliers for the same, we request you to consider the Authorized distributors for such equipment and maybe amended, as follows: "Manufacturers/ Authorized Distributors Authorization Form"  The requisite documents authorizing these Distributors will be submitted along with the above, for your kind perusal.	M/s Asta Infra Projects Pvt Ltd.,	Agreed. The respective clause is modified accordingly. Please refer to the Corrigendum - 1 & amended TED.
16	Annexure - F	Page no: 46 of 63	Manufacturer's Authorosation form	We further confirm that no supplier or firm or individual other than Messrs. (name and address of the above agent) is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TED for the above goods manufactured by us. We also hereby extend our full warranty, CAMC as applicable as per the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TED. We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorized agent. We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly."	Furthermore, we draw your attention to the paragraph 3 in the Annexure-F, i.e., " We further confirm that no supplier or firm or individual other than Messrs.....(name and address of the above agent) is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TEDs for the above goods manufactured by us."  As there are a limited number of manufacturers for certain equipment, as the paragraph above insists on exclusive authorization of the Manufacturers, we request you to delete the same, and open a way for more number of Bidders to ensure a competitive bidding environment.	M/s Asta Infra Projects Pvt Ltd.,	Agreed. The Annexure - F is modified accordingly. Please refer to the Corrigendum 1 & amended TED.
17	BOQ items	Page no:41 of 110	Vol-II, Item no: 87	Supply and installation of 80mm thick double skin modular wall Panels made of 0.8 mm thick powder coated GI on both the sides, with 40 plus or minus 2 kg/m3 density PUF as infill, GI profiles all along the periphery, flush on both sides with maximum allowable gap of 3-4mm filled with food grade silicon sealant and placed on cold rolled galvanised bottom tracks with a recess to provide floor to wall coving flush with the wall panel. This includes all required harware for completion Panels to be covered with a protective film to avoid any damages during transportation and installation at Gandhi Hospital. - 125 Sqm	Aganist PCGI may be PPGI for factory finished paint.	M/s Vardhman Medicare Pvt Ltd.,	The bid condition remains unchanged



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Chief Engineer



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S. No	Items as per TED	Page No.	Clause No.	Clauses under review	Concerns by the prospective Bidder(s)	Name of the Bidder	Authority Reply
18	BOQ items	Page no:41 of 110	Vol-II, Item no: 88	Supply and installation of 50mm thick double skin ceiling system made of 0.8 mm thick Powder Coated GI sheets on both sides, 40 plus or minus 2 kg/m3 density PUF as infill, GI profiles all along the periphery, panels flush towards room side with maximum allowable gap of 3-4mm at panel to panel joints filled with silicon sealant. Ceiling panels are suspended from the RCC slab by using concealed AL ceiling grid with tie rod and adjustable turn buckle arrangement etc. This includes all required hardware for completion. Panels to be covered with a protective film to avoid any damages during transportation and installation at Gandhi Hospital. 65 Sqm	Aganist PCGI may be PPGI for factory finished paint.	M/s Vardhman Medicare Pvt Ltd.,	The bid condition remains unchanged
19	BOQ items	Page no:63 of 110	Vol-II, Item no: 285	Supply and installation of 80mm thick double skin modular wall Panels made of 0.8 mm thick powder coated GI on both the sides, with 40 plus or minus 2 kg/m3 density PUF as infill, GI profiles all along the periphery, flush on both sides with maximum allowable gap of 3-4mm filled with food grade silicon sealant and placed on cold rolled galvanised bottom tracks with a recess to provide floor to wall coving flush with the wall panel. This includes all required hardware for completion Panels to be covered with a protective film to avoid any damages during transportation and installation at MGMH Petlaburj. - 125 Sqm	Aganist PCGI may be PPGI for factory finished paint.	M/s Vardhman Medicare Pvt Ltd.,	The bid condition remains unchanged
20	BOQ items	Page no:63 of 110	Vol-II, Item no: 286	Supply and installation of 50mm thick double skin ceiling system made of 0.8 mm thick Powder Coated GI sheets on both sides, 40 plus or minus 2 kg/m3 density PUF as infill, GI profiles all along the periphery, panels flush towards room side with maximum allowable gap of 3-4mm at panel to panel joints filled with silicon sealant. Ceiling panels are suspended from the RCC slab by using concealed AL ceiling grid with tie rod and adjustable turn buckle arrangement etc. This includes all required hardware for completion. Panels to be covered with a protective film to avoid any damages during transportation and installation at MGMH Petlaburj.-60 Sqm	Aganist PCGI may be PPGI for factory finished paint.	M/s Vardhman Medicare Pvt Ltd.,	The bid condition remains unchanged
21	BOQ items	Page no:85 of 110	Vol-II, Item no: 483	Supply and installation of 80mm thick double skin modular wall Panels made of 0.8 mm thick powder coated GI on both the sides, with 40 plus or minus 2 kg/m3 density PUF as infill, GI profiles all along the periphery, flush on both sides with maximum allowable gap of 3-4mm filled with food grade silicon sealant and placed on cold rolled galvanised bottom tracks with a recess to provide floor to wall coving flush with the wall panel. This includes all required hardware for completion Panels to be covered with a protective film to avoid any damages during transportation and installation at MGM Warangal- 130 Sqm	Aganist PCGI may be PPGI for factory finished paint.	M/s Vardhman Medicare Pvt Ltd.,	The bid condition remains unchanged
22	BOQ items	Page no:85 of 110	Vol-II, Item no: 484	Supply and installation of 50mm thick double skin ceiling system made of 0.8 mm thick Powder Coated GI sheets on both sides, 40 plus or minus 2 kg/m3 density PUF as infill, GI profiles all along the periphery, panels flush towards room side with maximum allowable gap of 3-4mm at panel to panel joints filled with silicon sealant. Ceiling panels are suspended from the RCC slab by using concealed AL ceiling grid with tie rod and adjustable turn buckle arrangement etc. This includes all required hardware for completion. Panels to be covered with a protective film to avoid any damages during transportation and installation at MGM Warangal -65 Sqm	Aganist PCGI may be PPGI for factory finished paint.	M/s Vardhman Medicare Pvt Ltd.,	The bid condition remains unchanged
23	BOQ items	Page no:42, 64 & 86 of 110	Vol-II, Item no:94, 291 & 490	Supply, installation, testing and commissioning of 16 G GI powder coated suitable single person entry air shower as per Technical Specifications.	Air Shower technical specification not found in NIT.	M/s Vardhman Medicare Pvt Ltd.,	Technical Specifications for Air Shower are included in the amended TED.

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S. No	Items as per TED	Page No.	Clause No.	Clauses under review	Concerns by the prospective Bidder(s)	Name of the Bidder	Authority Reply
24	BOQ items	Page no:51, 71 & 93 of 110	Vol-II, Item no:151, 348 & 547	Modular Double skin floor mounted EUROVENT Certified Air Handling Unit 3000CFM / 8.5 TR / 150mm SP made out of 45 plus or minus 2mm thick PUF insulated panels Thermal break aluminium profile frame work with 0.8mm thick pre painted / powder coated inner and outer skins comprising of mixing box with fresh air and return air dampers, pre filters with 10 and 5 microns combination filters in single frame, Interlaced/Intertwined DX Cooling Coil suitable for connecting 2 nos of 8.5TR capacity 1W plus 1S out door condensing units, SS304 drain pan with , blower section with Nicotra / Kruger make direct drive/ Plug type fan, vibration isolators, EFF1 motor and blower section with on/off switches to operate from outside, limit switch for the fan section access door with a view port, fine filter section with 3 microns filters inspection doors for all filter and fan sections and damper at the outlet of unit. Ports for differential pressure gauges across all filters and blower to measure differential pressure. AHU Make : VTS / Systemair, Make - Blower - Nicotra / Kruger ; Motor - Crompton Greaves / Siemens ; Filter - Thermodyne / Freudenberg / Ultrafil	Some more brand may be added as for competative rates AHU make: Edgetech,Zeco,Waves. Filters- AAF,Camfil,Usha,Matchmark.	M/s Vardhman Medicare Pvt Ltd.,	Agreed. The proposed makes are included. Please refer to the amended TED.

**Experts Doctors Committee:**

Sd/- (11.04.2023)  
Dr. Janaki  
Prof. O&G Dept., Gandhi Hospital,  
Secunderabad

Sd/- (11.04.2023)  
Dr. Nirmala  
Prof. O&G Dept., &  
Supdt. CKM Govt. Maternity Hospital, Wgl.

Sd/- (11.04.2023)  
Dr. Malathi  
Prof. O&G Dept.,  
& Supdt. MGMH Petlaburj

//Approved//  
Sd/- (15.04.2023)  
Managing Director



Chief Engineer