All India Institute of Medical Sciences Patna

(An Autonomous body under MoHFW, Govt. of India)

EXPRESSION OF INTEREST (EOI)

E O I No. :	**AIIMSP/PC/2021-22/IVF/20754**
Brief Description :	**NOTICE INVITING EXPRESSION OF INTEREST (EOI) FOR DEVELOPING ARTIFICIAL REPRODUCTIVE TECHNIQUES (ART) SERVICES AT AIIMS, PATNA**

ALL INDIA INSTITUTE OF MEDICAL SCIENCES PATNA
(An Autonomous body under MoHFW, Govt. of India)

NOTICE INVITING EXPRESSION OF INTEREST (EOI) FOR DEVELOPING ARTIFICIAL REPRODUCTIVE TECHNIQUES (ART) SERVICES AT AIIMS, PATNA

Ref. No. **AIIMSP/PC/2021-22/IVF/20754** Dated

On behalf of Director, All India Institute of Medical Sciences, Patna (AIIMS Patna), invites electronic online bids (e-Tender) through website of AIIMS, Patna www.aiimspatna.org (for ref. only) and CPPP website https://eprocure.gov.in/eprocure/app.
The EOI Document containing the details of qualification criteria, submission, requirement, brief objective & scope of work and evaluation criteria etc. can be downloaded from the website https://eprocure.gov.in/eprocure/app and www.aiimspatna.org.
Upload of Tender: Tenderers are advised to download Notice Inviting Tender along with other tender documents and submit the declarations and tender documents along with clear scanned copies of requisite documents to substantiate the claim towards their credentials while the tender shall be submitted online in soft copy on our e-tendering portal.

All interested bidders have to submit techno commercial bid strictly in the tender format available online on e-portal. No other form of bid shall be accepted and the tender shall be summarily rejected. Bids shall be digitally signed and uploaded by someone legally authorized and competent on behalf of his firm / company and relevant documents w.r.t. the same to be uploaded along with the bid by the bidders.

Earnest Money Deposit has to be submitted as per NIT /Tender instructions before the due date and time of tender techno commercial bid opening , failing which the bid shall be liable for rejection

All India Institute of Medical Sciences,
Phulwarisharif,
Patna- 801507

1. AIIMS, Patna invites Expression of Interest (EOI) from an Indian agencies **FOR DEVELOPING ARTIFICIAL REPRODUCTIVE TECHNIQUES (ART) SERVICES AT AIIMS, PATNA**. The EOI Document containing the details of qualification criteria, submission, requirement, brief objective & scope of work and method of evaluation etc. is enclosed.
2. Manual bids shall not be accepted. The Bidder submit bids all the documents only Online.
3. Tender documents may be view and downloaded from the website of AIIMS, Patna www.aiimspatna.org (for reference only) and Central Public Procurement Portal **https://eprocure.gov.in/eprocure/app** as per the schedule as given in CRITICAL DATE SHEET as Point No. 4 of NIT and CPP Portal.
   The bid is to be submitted online only on **https://eprocure.gov.in/eprocure/app** up to the last date and time of submission of bids.
4. Type of Tender: EOI.
5. **Critical Date sheet** :

S.No	Particulars	Date & Time
(i)	Published Date	16.08.2021 15:00
(ii)	Bid Document Download / Sale Start Date	16.08.2021 15:05
(iii)	Bid Submission Start Date	24.08.2021 12:00
(iv)	Bid Document Download / Sale End Date	04.09.2021 12:00
(v)	Seek Clarification Start Date	17.08.2021 10:00
(vi)	Seek Clarification End Date	19.08.2021 12:00
(vii)	Bid Submission End Date	04.09.2021 12:00
(viii)	Bid Opening Date	06.09.2021 12:00
(ix)	Price Bid Opening Date & Time Cover-II	Date & time to be intimated later

6. Bid Submission:

Bids shall be submitted online only at CPPP website: https://eprocure.gov.in/eprocure/app. Tenderer/Contractor are advised to follow the instructions provided for online submission of bids. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

6.1 Not more than one tender shall be submitted by one contactor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

6.2 Tenderer who has downloaded the tender from the website of AIIMS, Patna www.aiimspatna.org and Central Public Procurement Portal **https://eprocure.gov.in/eprocure/app shall not tamper/modify the tender form including downloaded price bid template in any manner. In case if the same is**

found to be tempered/modified in any manner, tender will be completely rejected and tenderer is liable to be banned from doing business with AIIMS Patna.

6.3 **Intending tenderers are advised to visit again** AIIMS, Patna **web site** www.aiimspatna.org **and CPPP website** https://eprocure.gov.in/eprocure/app **regularly till closing date of submission of tender for any corrigendum / addendum/ amendment.**

6.4 Applicant contractor/vendors/bidders must provide Tender fee/Cost Payment:

Tender Fee/Cost is to be deposited electronically by RTGS/NEFT in the account of **AIIMS Patna at the below mentioned details.**

BANK Details for Payment through NEFT/RTGS:

Bank Name – Bank of India,

IFS CODE: BKID0005793 Account No: 579310110002528

6.5 Tender Fee Rs. 1500/- and EMD Value - NIL

6.6 Period of Bid Validity Days: -270 days from the date of bid opening.

6.7 Duration for Completion of Supply: - As per tender document.

6.8 All NSIC / SSI / MSME registered bidders/vendors are exempted from submission of EMD fee. NSIC/SSI /MSME certificate must be submitted online to avail the exemption from furnishing the EMD.

6.9 Bids will be opened as per date/time as mentioned in the Tender Critical Date Sheet. After online opening of Technical-Bid the results of their qualification as well Price-Bid opening will be intimated latter.

6.10 AIIMS Patna reserve the right to reject any or all tenders and shall not be bound to assign the any reason for such rejection.

CHECK LIST FOR TERMS AND CONDITIONS

A. **Checklist of documents to be submitted online:**

Sl. No.	Terms & Conditions as per Bidding Document	Uploaded (Yes/No)	Page No.
I.	Signed and scanned copy of proof for payment of Tender fee, duly attested copy of PAN, duly attested copy of GST registration certificate.		
II.	Bid Security Declaration Form (EMD Declaration). **"Annexure – XVII"**		
III.	Signed and Scanned copy of Tender Acceptance letter **"Annexure-I"**		
IV.	Format-2: Organization's Contact Details		
V.	Declaration as per Format-4		
VI.	A firm/company/partnership/proprietorship firm registered under the Indian companies act, 1956 and should have an office in India. Copy of Certificate of incorporation and Partnership Deed, if any		
VII.	The firm should be in the business of providing similar ART laboratory on turnkey basis services for at least 03 years. Certificate by Company Secretary of the Bidder's organization		
VIII.	The Bidder shall have experience of providing in three similar completed ART laboratory services on turn key basis to Central Govt./State Govt./PSUs/ Govt. bodies in India. Copy of Work Order / Contract. "Format-3"		
IX.	Signed and scanned copy of Power of Attorney as per **"Annexure – V"** in favour of person to.		
X.	Copy of Statements of turnover per year for last three successive years duly certified by the Chartered Accountants. (Minimum Annual Turnover must be Rs. 50 Lakh).		
XI.	Signed and Scanned Copy of affidavit duly certified by the notary at the location of the Agencies/Headquarters Patna that the bidder has never been black listed or punished by any court for any criminal offence/breach of contract and that no police/vigilance enquiry/criminal case is pending against either bidder legal entity or against individual Directors of the company or partners etc. of the firm etc. as per **"Annexure-VII".**		
XII.	Copy of duly attested copy of Mandate form **(as Annexure-"XI").**		

XIII.	Signed and Scanned Copy of prerequisite (if any) for installation of the Machine, if any, to be provided by the Institute & Signed and Scanned Notarized Affidavit of **Integrity Pact (as Annexure-XIV)**		
XIV.	Undertaking as per Annexure - XVI		

B. **Checklist of documents to be submitted online:**

Price Bid /Financial Bid:

I	BOQ.xls	

Note: In case of non-fulfilment of any of the above information/ document(s), the Tender will be summarily rejected without giving any notice.

Objective & Scope of Work & Services:

A. AIIMS, Patna is an autonomous body under MOH&FW and is institute of National importance. AIIMS, Patna is committed towards excellent patient care and research. In this context, AIIMS, Patna is planning to develop a state-of-art In-vitro fertilization facility which will be first of its kind in public sector in Eastern India.

B. With this aim and vision AIIMS, Patna invites Indian agencies of good reputation to come forward and work with us to develop one of the best ART facilities available in India.

C. Following will be the scope of work for the agency.

- The building is ready with internal and external plaster. The agency needs to develop a plan for this site. The scope of work will include-

1. Planning of the area for ART services including various laboratories, operation rooms and ancillary area in the space provided.
2. Air-conditioning of the area
3. Partitions and furniture.
4. Air quality management
5. All the equipment's to be used in follicular monitoring room, operation rooms and laboratories.
6. Control of environment in various laboratories.
7. A vision to run the facility in initial days.

D. Submission requirement:

- The Expression of Interest is to be submitted in the manner prescribed below:-

1. All information as detailed below is to be submitted on CPP Portal-

a. Tender Acceptance letter **"Annexure-I.**

b. Organizational Contact Details as per Format-2.

c. Experience of the organization as per Format-3.

d. Declaration as per Format-4

e. Power of Attorney in favour of Authorized Signatory with long and short-signatures of Authorized person.

f. The bidders are expected to examine all instructions, forms, terms and other details in the EOI document carefully. Failure to furnish complete information as mentioned in the EOI document or submission of a proposal not substantially responsive to the EOI documents in every respect will be at the Bidder's risk and may result in rejection of the proposal.

E. Qualification criteria:

S. No.	Pre-qualification criteria	Compliance document
1.	A firm/company/partnership/proprietorship firm registered under the Indian companies act, 1956 and should have an office in India.	Copy of Certificate of incorporation and Partnership Deed, if any
2.	The firm should be in the business of providing similar ART laboratory on turnkey basis services for at least 03 years	Certificate by Company Secretary of the Bidder's organization
3.	The Bidder has to be profitable and should not have incurred loss in 3 consecutive Financial Years	Format-5 to be certified & validated by Chartered Accountant (CA) of the bidder's Organization
4.	The Bidder should have an average annual	CA certified document with name of CA

	turnover of Rupees Fifty (50) Lakhs in 3 consecutive Financial Years	registration number, signature and stamp
5.	The Bidder shall have experience of providing in three similar completed ART laboratory services on turn key basis to Central Govt./State Govt./PSUs/ Govt. bodies in India	Copy of Work Order / Contract

F. Evaluation Criteria and Method of Evaluation:

a. Screening of EOIs shall be carried out as per eligibility conditions mentioned in this document and based on verification of testimonials submitted.
b. EOI will be evaluated for short listing inter alia based on their past experience of handling similar type of project, strength of their man power, financial Strength of firm and presentation / proposal to the selection committee whose decision will be final.
c. Agencies who qualify as per the eligibility conditions will be provided a brief idea about the project of developing ART lab services at AIIMS, Patna. The site map of the proposed area is attached with the tender document for reference. The agencies will be required to make a plan to develop the designated area to state-of-art IVF facility. It will include all the civil work, air conditioning, laboratory and OT set up including furniture's, all equipment's used in OT, lab and follicular monitoring area. Agency will need to make a presentation to the selection committee showcasing their proposals.
d. Expression of Interest issued is of "Non-committal" nature. If the Procuring Entity found that after EoI stage, there is likelihood of further participation by many more bidders and to avoid getting trapped into a legacy technology, the second stage bidding may not be restricted only to the shortlisted bidders of EoI stage. Thereafter in the second stage, normal OTE/GTE bidding may be done.

G. Response:

a. Bidders must ensure that their Bid response is submitted as per the formats attached with this document.
b. Application in sealed cover super scribed, as "EOI for development of ART services at AIIMS, Patna"

H. Condition under which EOI is issued:

a. The EOI is not an offer and is issued with no commitment. AIIMS, Patna reserves the right to withdraw the EOI and or vary any part thereof at any stage. AIIMS, Patna further reserves the right.

I. For any clarification , firm may contact:

Dr. Mukta Agarwal
OBS & Gyne
AIIMS, Patna
Mob. No.- 9661215080
Email: drmuktaa@aiimspatna.org

FORMAT-2: ORGANIZATION'S CONTACT DETAILS

FORMAT FOR APPLICANT'S EXPRESSION OF INTERST

1.	Name of Organization	
2.	Main areas of business	
3.	Type of Organization Firm/ Company/ partnership firm registered under the Indian Companies Act, 1956/ the partnership Act, 1932.	
4.	Whether the firm has been blacklisted by any Central Govt. / State Govt./PSU/Govt. Bodies / Autonomous? If yes, details thereof.	
5.	Address of registered office With telephone no. & fax	
6.	Contact Person with telephone No. & e-mail ID	

Enclose:-

1. Copy of Certificate of Incorporation.
2. Copy of Article of Association in respect of 3 above.
3. Undertaking in respect of 4 above.

Full name of the applicant
Signature

Format-3: Experience in the related field

Item	Number of Assignments during last 5 years	Order Value of each assignment in Lakhs of Rs. (Enclose copy of each order)	Mention the name of Client/Organization (Enclosed completion certificates)
Experience of Assignments Of similar nature Experience in carrying out similar assignments in Government Experience in carrying out similar assignments in Private sector.			

Signature of the applicant
Full name of applicant
Stamp & Date

Format-4

DECLARATION FORM

[To be given on letter head]

We hereby confirm that we are interested in competing for project for developing ART services at AIIMS, Patna

All the information provided herewith is genuine and accurate.

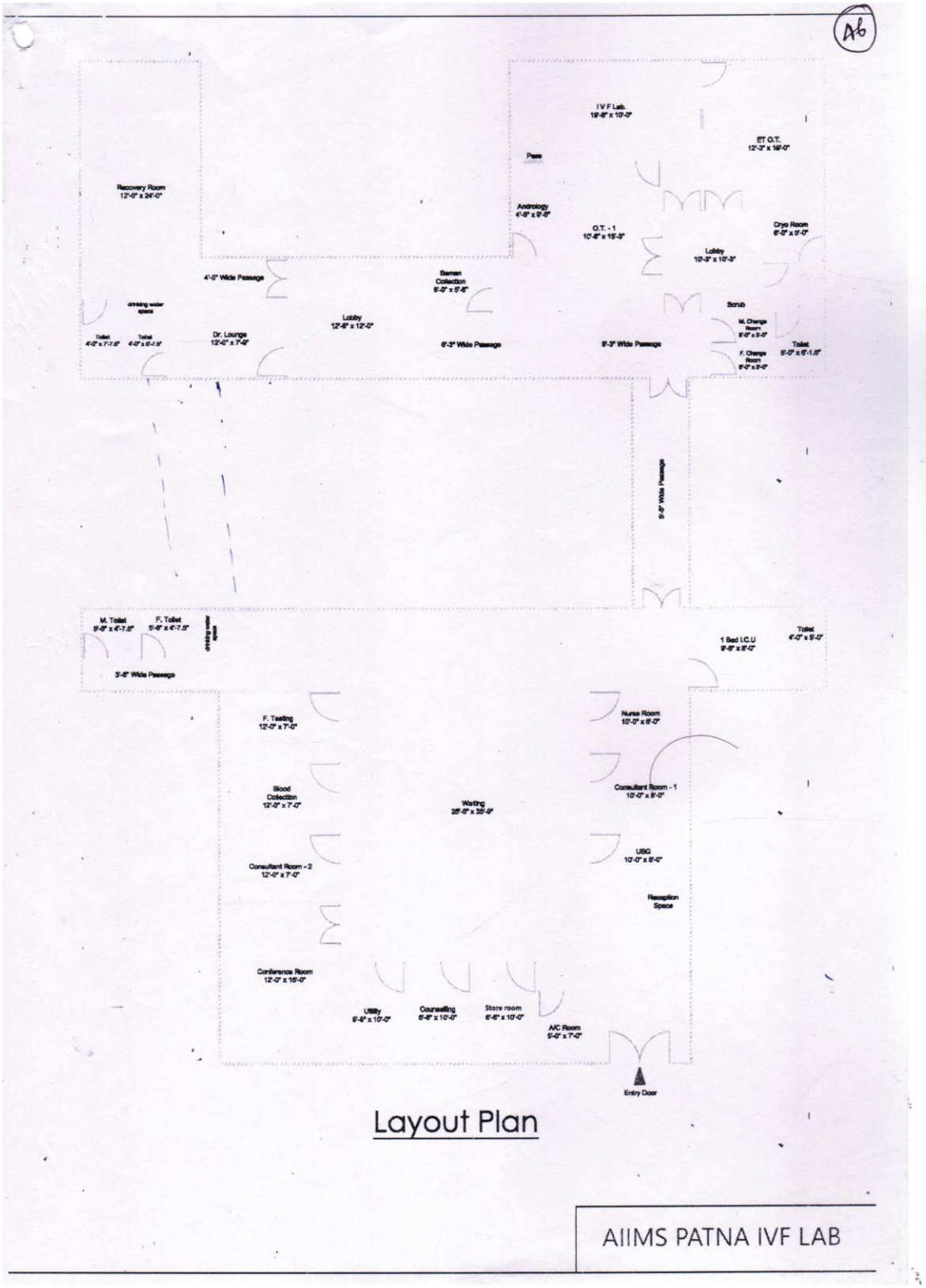
Authorized Person's Signature.

Name and Designation:

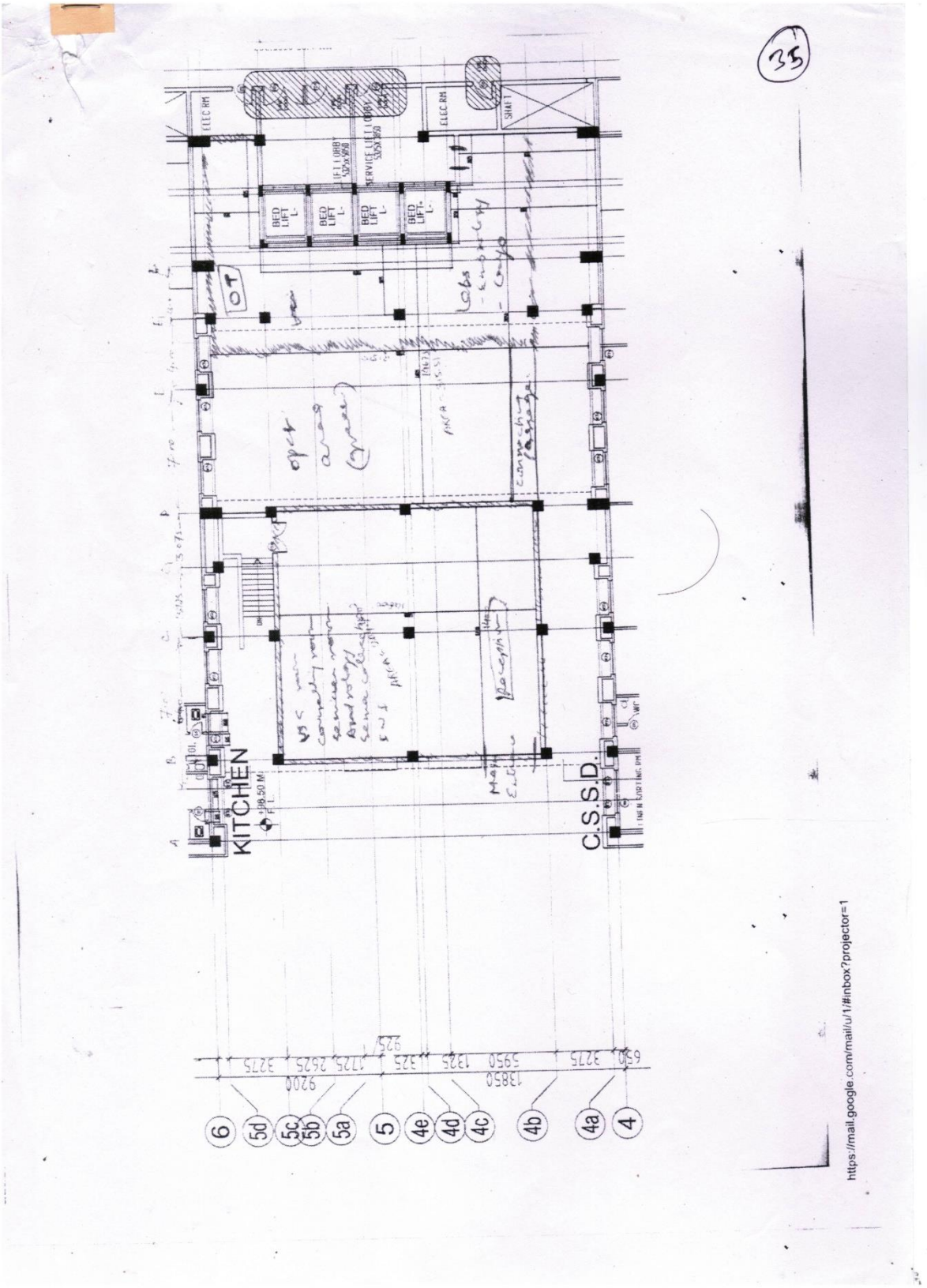
Date of Signature:

Note: The declaration is to be furnished on the letter head of the organization.

Lab Layout Plan 1



LAB LAYOUT PLAN 2



OPERATION THEATRE

Item 1: Modular OT:

1	Standard modular wall panel 60mm thick
2	Moveable wall to include: Puff Insulated 40Kg/cm2 on 0.8 mm Sheet GI Frame Work Silicone sealant
3	Clean room modular doors
4	Flooring - Homogenous Anti fungus Vinyl flooring from Armstrong
5	Electrification work
6	3 Ton AHU System

2. Ovum Aspiration Pump Qty: 02

S. No.	**Item Description**
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 (WxDxH)mm: 200x250x115
10	FDA approved
11	Should be compatible to fit with all commercially available oocyte recovery set

3. IVF Test Tube Warmer Qty: 01

S. No.	Technical Specifications
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 Celcius 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 $\pm 0.2^0$C
7	Easy to clean
8	Rectangular warming blocks to hold 10 tubes of 17mm and 12 tubes of 12mm

4. DICOM compatible fully digital, compact portable Colour Doppler Ultrasound machine. Qty: 02

SPECIFICATION FOR PREMIUM COLOUR DOPPLER ULTRASOUND SYSTEM... REAL TIME 4D
SYSTEM OVERVIEW:
System should be the latest "state of the art fully digital Ultrasound equipment capable of performing, OBS GYN, Radiology, MSK, Vascular, Small parts Cardiology Adult and Neonatal.
The system should have the following modes: B-Mode (2D), conventional M-Mode with varying sweep rates, Anatomical M-Mode, PW Doppler with high PRF (PW), High PRF Doppler Mode, (TD)-Tissue Doppler mode, Color Flow Doppler Mode (CFM), Power Doppler Mode (PD), directional power Doppler, HD-Flow Doppler Mode (HD-Flow), and B-Flow (BF). B/ Color/FW Doppler in simultaneous real time. Volume Mode: 3D Static & 4D Real Time on Convex and Intracavity probes. & Matrix technology probes should be compatible with the system.
Power Doppler angio imaging and perfusion studies should be available for visualization of flow in small vessels and should be supported by all transducers.
System should have fully independent triplex multiple mode operation for extraordinary ease during Doppler examination, should be possible on all probes.
23 in High Resolution LCD LED Display with DVI interface, Resolution: Full HD 1920 x 1080 pixel, Image Size:1136 x 786, Fully Articulating Monitor Arm, Tilt angle: +30/-90° • Rotate: +90/-90", Horizontal Range of Motion: >250 mm (9.8 in), Vertical Range of Motion: >100 mm (3.9 in), Digital backlight and colour temperature adjustment. Ten default settings available: Warm: Extra Dark, Dark, Semi Dark, Light, Extra Light, Cold: Extra Dark, Dark, Semi Dark, Light, Extra Light Innovative user interface with high resolution 10.1 in LCD touch panel & 4 Active universal Probe Ports.
Volume imaging, Multi-slice imaging with variable slice thickness and multiplanar imaging on all types of 3D and 4D modes.
System should have facility for volume 3D/4D with Convex and option of taking 4D TV Probe in near future.
Should be capable of performing live 4D imaging with Volume transducers. 4 D imaging should be possible in Gray scale, colour mode, harmonic mode and with contrast agent imaging. Instant rendering of MPR images should be possible that rival acquired 2D resolution.

3D/4D tool Obtain any plane from a 3D or 4D volume by simply drawing a line, curve, polyline or trace through a structure. This valuable technology enables views of even irregularly shaped structures not attainable in 2D imaging. Excellent approach for examination of complex structures with curvilinear or irregular shapes. Benefit Reduces your manipulation of X-Y-Z Allows any slice in any plane-no longer locked into orthogonal planes Ease of understanding of coronal plane when you simply 'draw one.
System should have 17,00,000 or more digital processing channels, Higher number of channels will be preferred.
Dynamic range should be 260 dB or more, with range adjustability by selecting different Dynamic Contrast Curves. Higher dynamic range will be preferred.
A 2D imaging depth of at Minimum Depth of Field: 1 cm (Zoom, probe dependent) Maximum Depth of Field: 40 cm (probe dependent) More will be preferred.
256 (8 bits) discrete gray levels.
16.8 Million Colors 24 bit.
2D acquisition frame rate more than >1200 frames/sec, color Doppler frame rate more than 400/s.
Multiple focal imaging.
Real time compounding with colour or power Doppler imaging.
Multiple frequency selection for better penetration and resolution for better tissue differentiation and better contrast resolution.
Post processing tools for annotation, measurement, correction of angle, baseline, sweep speed should be possible on stored images.
System should have multivariate Tissue Harmonic imaging facility including coded harmonics on all transducers. It should be able to operate with compound imaging and speckle reduction algorithm. System should have one touch tissue contrast resolution adjustment without altering the set pre-sets levels.
System should have real time compounding image technology with minimum 11 transmitted lines of sight. Real-time Compound Imaging should operate in conjunction with Tissue Harmonic Imaging, volume modes, Panoramic imaging, and duplex Doppler, and in conjunction with speckle reduction imaging.
High resolution algorithms for advanced speckle noise reduction, refined tissue pattern displays, and fine border definition. Should operate in 2D and 2D/CFI/Doppler mixed modes and with 3D and contrast agent imaging. This feature shall have operator selectable settings and be capable of displaying in side-by-side mode with non-speckle reduced image.
Should have trapezoidal imaging and steerable imaging for 2D, color & Doppler with linear probe. Beam Steering should be possible with angles up to 30 Degree on linear probe
Panoramic/extended field of view imaging should be available on 2D mode on convex and linear. transducers. This mode should build the extended field-of-view in a real-time manner, showing the image as it builds.
One button automatic adjustment/optimization for 2D mode, color mode and Doppler mode. With auto correction frelevant fields of the 3D mode as well.
Incorporates advanced technology like coding excitation transmit technology and Coded harmonics mode for imaging deeper areas for imaging obese patients will be preferred.
The system should have a fast boot up time less than 200 seconds, when switch 'ON' from 'OFF' position, and also less than 18 second from STANDBY position. Specify the system booting time, less will be preferred.
System should have high capacity fans with automatic speed for system cooling
Year of introduction of the specific model-should be as latest as possible, preferably should have been launches within 2-3 years.
Unique user-friendly user interface for comfort and fast throughput.
SYSTEM CONTROLS:
System should have at least 45 automated and user programmable pre-sets (output power, signal

processing and calculations).
System should have facility to adjust 2D performance instantly for different patient types (Thin, average, obese).
The system shall display thumbnails on a clipboard with live gray mode while scanning to facilitate exams.
Pan and zoom facility with high resolution results in both live & frozen images. Higher zoom will be preferred. with HD-Zoom functionality up to 22x Zoom.
Cine loop review facility in individual and mixed modes (frame by frame and in video mode),20: up to 10 min (depending on B-image size and FPS); typical: about 3min/4000 images (with curved array: 15cm depth, • M-Mode: up to 20 min motion time (depending on sweep speed and depth) Doppler mode- up to 10 min motion time (depending on sweep speed).
Post processing in Freeze mode (Dynamic Range adjustment, Cofor display on/off, Color/ Doppler invert, Color/ Doppler baseline adjustment, sweep speed, measurement, annotation and pictogram). Post processing of B-mode images with Speckle Reduction algorithm.
Real-time automatic Doppler calculations on touch of a button. Should provide facility to apply automatic Doppler analysis retrospectively to frozen spectral data or date retrieved from Doppler scrolling. Possibility of manual Doppler trace.
System should have at least 8 callipers with depth information and extensive, customizable measurement and report packages including Vascular, Abdominal, Small-Parts, Urology, Paediatrics, Ortho, Neurology, complete Obstetrics, multi-gestational Calculations, Gynaecology, and Fetal Heart report packages.
Callipers should have minimum precision of 0.1 mm, Small size callipers for measuring < 5 mm.
Callipers of dynamically varying contrast compared to background. Delete last measurement option, curved linear distance measurement.
Measurements (distance & area) should be possible in real time (non-frozen), frozen & on saved images as well.
Facility to save reports along with patient data which can be retrieved later. Measured parameters must be printed directly in form of a report through laser printer.
System should have facility of electronic biopsy guide and algorithm for clear needle visualization. The system should be capable of displaying biopsy lines (for all Transducers) while performing a fusion of B mode and color mode.
Speed & Volume Angle adjustment on volume imaging.
Different render direction to view the volume image
Advanced tool for accurate quantification of irregular regions in 3 D & automatically calculates the number and volume of hypo-echoic structures to speed follicular assessments
Ability to restrict firing of the probe to a particular slice thickness of the region of interest
Advanced tool for selection of slice thickness out of complete volume dataset
4D fetal Echo-2D +COLOR+B flow, STIC+ Power Doppler Mode STIC+CFM Doppler Mode, STIC+ HD-Flow Mode STIC+CRI STIC+ CRI+ CFM STIC+ CRI + PD STIC+CRI+HD-Flow STIC+ B-Flow STIC+ multi-slice mode with cine movement.
Advanced imaging mode for visualisation of hypo-echolc areas and get automatic precise volume followed with the measurements of each region and proper reporting.
Simultaneous visualisation of 3 planes and Realtime 4D to guide the needle to the lesion
Additional Software related to follicle, Biometry. Advanced 4D, Scan Assist, Render should be quoted as standard part of the Scope of supply Transforming Nuchal Thickness measurement with automation within fraction of seconds for the fast and accurate scanning supporting sonographers or radiologist to finish their scan within short time.
Should have auto 3D/4D rendering as well to get the best reproduction of 3D image in fraction of second with one touch

Advanced Spatio Temporal Image correlation with STIC & Anatomical-M mode for the diagnoses of atrial and ventricle synchronisation/ dysfunctionality of the Fetal heart. Automated sonography based technology helps streamline the acquisition of volumetric images of the fetal heart, displaying all eight recommended views with two steps after accusation of volume data set
PHYSICAL DIMENTIONS:
The equipment should be a room based wheeled unit with integrated brake, foot rest, transducer, cable and gel bottle holder, and with hydraulic height adjustment facility for control panel and monitor independently. Transducer and gel bottle holders should be provided from both sides of the keyboard for the user friendliness of the machine.
23 in High Resolution LCD LED Display with DVI interface, Resolution: Full HD 1920 x 1080 pixel, Image Size: 1136 x 786,Fully Articulating Monitor Arm, Tilt angle: +30°/-90* Rotate: +90/-90, Horizontal Range of Motion: >250 mm (9.8 in), Vertical Range of Motion: >100 mm (3.9 in), Digital backlight and color temperature adjustment. Ten default settings available: Warm: Extra Dark, Dark, Semi Dark, Light, Extra Light, Cold: Extra Dark, Dark, Semi Dark, Light,
Extra Light Innovative user interface with high resolution 10.1 in LCD touch panel & System should have a full size Alphanumeric Key board with interactive back-lighting. The key board should be floating with rotation of +/-40 from centre, and with adjustable Height of + 200mm.
Integrated recording keys for remote control of up to 4 Peripherals or DICOM devices, one dedicated DVD recording key.
The system shall have 4 universal probe ports easy to access location with electronic switching facility. 4.Active universal Probe Ports.
IMAGE STORAGE, DOCUMENTATION DEVICES & CONNECTIVITY ISSUES:
Must allow digital storage of gray scale as well as color images (both frozen & cine loops). Facility of reviewing and exporting in different formats.
System shall support the ability to store digital raw data that allows optimizing imaging parameters such as B Gain, TGC, Color Gain, Dynamic Range, Speckle Reduction levels, Doppler Gain, Doppler Base Line on image recalled from the image archive.
The system should have on board storage facility for at least 500 GB. The hard drive should be inbuilt. Cine Features: Dual/Quad image CINE Display CINE Gauge and CINE image number display CINE Review Loop Selectable CINE Sequence for CINE Review (by Start) Frame and End Frame) Side Change in dual CINE Mode Measurements /Calculations & Annotations on CINE Length: 512MB: up to 10 min and 13,200 frames (depending on B-image size & FPS); typical: about 3 min/4000 images (with curved array: 15cm depth, angle 81, 22 FPS).M-Mode: 32MB up to 1 min motion time (depending on sweep and depth) PW/CW-Mode: 32MB: up to 1 min motion time (depending on sweep speed).
The system shall provide the ability to sort images stored on board based on patient name, exam date, patient ID and exam types. Patent directory should show network status as print status, archive status, commit status and export to DVD status. Integrated Software DVR Digital recording. One drive for data export and recording DVD Formats: DVD+R, -R, +RW, RW for recording, DVD and CD support for data export FAT32 compatibility.
Possibility to modify/ edit patient data during and after exam has been stored and saved
Must have an integrated CD/DVD writing- burning facility and it could be viewed on any ordinary PC. Machine previous patient during scanning to save must have capability to write CD/DVD separately of be able to archive data from previously stored CD/DVD. DVD/CD drive to store / retrieve images in different i formats (TIFF/JPG/AVI/ DICOM)/ Patient reports.
System should be DICOM (higher version) ready (Storing, Transfer, Print
USB PORT: minimum 4 USB ports in machine and must be providing with USB memory stick to transfer images.
System should be easily intergraded in hospital PACS without any extra cost.
TRANSDUCERS & BIOPSY ATTACHMENTS:

Transducers should be of broadband technology for extreme high resolution images. Please specify model number, footprint, bandwidth, Imaging frequency, Doppler frequency, FOV and weight of each transducer Light weighted transducers with flexible cables will be preferred. Biopsy guides should allow various size needles
Multifrequency 2 D convex transducer: Wideband Convex Probe-Applications Abdomen, Obstetrics,Gynecology Maximum Bandwidth 2-5 MHz Number of Elements 192 FOV 69 Wide 113 Depth Max. 42 cm Biopsy Guide Available Multi-Angle, disposable with reusable bracket
Broadband 4D convex probe small and light weight will be preferred. Wideband Convex Volume Probe Applications Abdomen, Obstetrics, Gynecology, Pediatrics Maximum Bandwidth 2-8 MHz Number of Elements 192 Volume Sweep Radius 24.11 mm. FOV 639 (B), 850 x 639 (Volume Scan) Wide 90° (B), 85" x 90° (Volume scan) Depth Max. 26 cm Biopsy Guide Available Multi-Angle, disposable with reusable bracket
Wideband Micro-Convex 4D TVTR Volume Probe, Applications Obstetrics, Gynecology. Transrectal Maximum Bandwidth (-20 dB) 3.8-9.3 MHz, Number of Elements 192 Convex Radius 10 mm, Volume Sweep Radius 11.7 mm, FOV 146" (B), 120 x 146 (Volume scan), Wide 180 (B), 120 x 180 (Volume scan).
Wideband Phased Array Probe Applications Small Parts, Cardiology, Paediatrics Maximum Bandwidth (-20 dB) 4-12 MHz, Number of Elements FOV 90' Depth Max, 13.7 cm.
Wideband Linear Probe Applications Small Parts, Obstetrics, Peripheral Vascular. Paediatrics, MSK Maximum Bandwidth 3-8 MHz Number of Elements 192 FOV 44 mm Footprint 53.0 x 14.1mm Depth Max. 14 cm with reusable bracket
Wideband Matrix Linear Probe Applications Small Parts, Peripheral Vascular, Pediatrics,MSK, Breast Maximum Bandwidth (-20 dB) 4-13 MHz Number of Elements 1008 FOV (Width) 50 mm Footprint 60.7 x16.0 mm Depth Max. 16 cm Centre.
ACCESSORIES
B/W thermal printer of latest model (with CE or FDA mark) for image printouts. Please specify the brand, model and specification details.
GENERAL INSTRUCITONS TO VENDORS:
All information in the tender document must be supported in the product data sheet.
Compliance statement sheet must quote page number/s as it appears in the product data sheet enclosed the vendor.
Supplier should be able to demonstrate its quoted model when and where required along with quality control programme for system performance.
Supplier must attach the list of installation in leading Diagnostics centres hospitals or in institutions inside India (at least 100).
System should be ISO, CE & FDA certified.

5. Multipurpose electro hydraulic with manual override mobile Table with divided leg section suitable for all Gynaecological surgical procedures, complete with 5cm mattress and corded handset. Qty: 01

S. No.	Technical Specifications
A).	Full-length radio-translucent top.
	4 or 5 sections tabletop, which should be made of a special scratch resistant, hardwearing and easy to clean material. Base column cover to be made of 100% stainless steel alloy and stainless steel.
	Removable head and leg sections to suit different applications, with cassette tunnel.
	Battery powered, with facility for connection to mains electricity for immediate use. Battery Exhaustion protection and low battery warning via an audible `beep'/display indicator should be available.

	Table should not have a thread/sharp edge for ensuring proper cleaning and user safety.
	Mattress should be of high quality that spans tabletop break for improved patient support. Its depth should be 50mm. Mattress must be Latex free.
	The robust handset should offer 8 controls namely Trend. /Reverse Trend, Lateral Tilt, Flexion/ Extension and Height functions.
	Brakes, 4nos Wheels
	Table should have a narrow T-shaped base allowing optimum access and greater stability.
	The table top should not be fitted with transverse members casting shadows on the X-ray images except for the release brackets for adjustment on either side.
	The Table should be operated by the following operating elements: corded hand control, Manual override panel with manual override facility.
	There should be `U' cut compatible for Gynae surgery.
B).	**Electrical specification:** Special-design, maintenance-free rechargeable batteries with capacity for about a week's use in the operating room. Recharging of the batteries and supply of the operating table by means of a mains cord Nominal mains voltage (selectable) 220/230-240V AC via mains cord with inbuilt stabilizer**.**
C)	**Technical Data:** Length: 6-6.5 ft Width : 3.5 ft Minimum height (without mattress) : 600± 50 mm Maximum height (without mattress): Minimum of 1050 mm. Maximum lateral tilt: 20-30 deg. (either side) Trendelenburg: atleast 25 deg. Reverse Trendelenburg : atleast 25 deg. Head section adjustment : ±40-45 deg. Leg section adjustment : +50 deg to -110 deg Break (extension) position : 200-220 deg. Break (flexion) position : 110-130 deg Cranial & caudal traversing: 200-300 mm Back Section adjustment: (-15 to +70 deg) Maximum Patient weight : 250kg or More
	Accessories:- a) Arm Board - 2 b) Lithotomy leg Holders "Geople type" (Adult and paediatric)- 1 set each c) Body Strap-3 d) Anaesthesia screen with clamps-2 e) Side Supports with clamps -2 pcs f) Knee crutches with clamps- 2 pcs g) Clamp, Rotary- 4pcs h) Clamp, circular-4 pcs i) Accessories stand mobile on castors-1pcs j) Arm Support, perplex-2pcs k) Infusion rod with clamp **l)** Drain Tray

D)	**Environmental Factors** Shall meet IEC-60601-1-2:2001(Or equivalent BIS) General requirements of safety for Electromagnetic compatibility or should comply with 89/366/EEC; EMC-directive. 1. The unit shall be capable of operating continuously in ambient temperature of 20-30 degree C and relative humidity of 15-90%. **2.** The unit shall be capable of being stored continuously in ambient temperature of 0-50 degree C and relative humidity of 15-90%.
E)	**Power supply.** 1. Power input to be 220-240V AC, 50HZ fitted with Indian Plug. **2.** UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.
F)	**Standards. Safety and training.** 1. Should be USFDA or European CE approved product. 2. Manufacture should have ISO certification for quality standards. 3. Comprehensive training for alb staff and support services till familiarity with the system. 4. Demonstration on table. **5.** Comprehensive warranty for 5 years with no fault warranty in the first year and 5 years CMC after warranty including UPS.
G)	**Documentation.** 1. User/Technical/Maintenance manual to be supplied in English. 2. List of Important spare parts and accessories with their part number and costing. **3.** It is submitted that the specifications are not tailor made to any Company.

Item 6: LED Procedure Light: 01

S. No.	Technical Specifications
1	LED Procedure Light should have color temperature of 4,400 K offers a natural, white light
2	Illumination At 39" (1 m) Focal Length: **7,500 fc (80,700 lux)**
3	Pattern Diameter: **7.5" (19 cm)**
4	Depth of Field: 75cm
5	Diameter of light head 51cm
6	LED Light module: 16 LEDs arranged in 4x4 array, 32 W rating

IVF Lab Equipments

1. IVF Work station Qty: 02

S. No.	Item Description
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
2	Camera Set, which includes Camera, TV tuner Card, Cables and Connect providing Stereozoom Microscope due to Compatibility.
3	Surgical Stainless Steel Heated work surface between 2mm-3mm
4	Electrical adjusted front glass window
5	80-100mm heated glass stage to minimize temperature fluctuations in the media with temperature accuracy ± 0.1°C
6	Light source preferred is LED
7	Noise level between 48-52dBA
8	Programmable auto-start and shut-down functions of all built in features, including air flow
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
10	Built in 21 inch minimal Medical grade LCD Monitor
11	Microscope Fittings with Heating Stage Warmer with Microprocessor based Temperature controller
12	Warming blocks should be part of package
13	Should be constructed in high density steel
14	Should be USFDA/European CE certified
15	220V/50-60Hz

2. IVF Anti Vibration Table Qty: 01

S. No.	Item Description
1	Air damped Anti-vibration passive table are designed to meet requirements for all models of inverted Microscopes during ICSI procedure
2	The plate on top should be stainless steel
3	Should be constructed in high density steel with added mass to the table
4	Should be USFDA/European CE certified
5	Dimensions: 780 x 1200 x 790 mm

3. CO_2 Incubator Qty: 02

S. No.	Technical Specifications
	Specific feature: Medical device for human IVF
1	160- 220 liters internal Volume
2	Stainless steel interior
3	TC/IR CO2 Sensor Soft touch key pad
4	Out Door Heating Error Warning
5	Auto Start Function

6	Inner Safety glass door
7	HEPA Filter for CO_2
8	Inner safety glass screen (3-4 pieces)
9	Microprocessor PID temperature controller
10	Temperature Sensor made up of Platinum
11	Temperature range ambient above 5°C to 50°C (± 0.1°C at 37°C)
12	Air- Jacket direct heating system
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.
14	Disinfection duration 12-13 hrs
15	3-4 sets of shelves. Perforated Shelves for uniform heat distribution/ shelf adjustment
16	LED/LCD Display of chamber temp. and CO2 level. CO2 Control range: 0 to 20% CO2 Control accuracy: + 0.1% Temperature Control: Panel heated interior chamber and door. Intelligent temperature control system for dry inner chamber. Range 30 to 45°C starting 5°C above ambient temperature. Stability/ Uniformity ±0.1°C/0.3°C. Over temperature alarm 32°C-47°C
17	Humidity: Active sterile humidity control through vaporizing module operating at 120ºC Measuring range 0-98% RH /Range 60-95% RH. System should have easy to set high -low humidity levels
18	System should have built in decontamination cycle for complete elimination of bacteria, fungi, spores, mycoplasma etc. System must have on board graphic capability /data logging to enable user to obtain historical performance. Incubator must have a fully automatic start routine function
19	Must be FDA/EU approved

4. Bench Top Incubator for Human Embryo Culture (Tri gas Bench Top Incubator for Human) Qty: 02
Embryo Culture

S. No.	**Item Description**
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 back up
11	For day 1 - day 5 Culturing
12	Gas Supply : High Purity CO2/O2/N2 mixture. Nominal input pressure 150kPa.
13	Power : Universal Input 100-240 V AC, 50/60 Hz.
14	Safety : Designed to conform with AS3200.1 1990, IEC60601.1 and IEC61010.1
15	Two Stage Regulator
16	Product should be approved from USFDA/European CE certified.

5. IVF Test Tube Warmer Qty: 02

S. No.	Technical Specifications
1	IVF test tube warmer ideal for heating of samples in test tubes requiring a stable heating environment
2	Should have atleast 18 chambers either for 14ml or 5ml aspiration tubes
3	The highly visible digital LED display indicates the temperature level in either Celcius 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 $\pm 0.2^0$C
7	Easy to clean

6. Trinocular Stereozoom Microscope Qty:02

Sl No	Specifications
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
6	Dust Cover`
7	Beam sp,litter for trinocular port
8	Eyepiece 10x, FN 22
9	C-mount adapter to be included
10	Trinocular observation tube with inclination at 30 degree, inter pupillary distance adjustment 48mm -76mm. 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 course and fine focusing knob mechanism should be built in

7. IVF Air Cleaner Qty: 01

S. No.	Technical Specifications
1	Advanced equipment designed to purify air of VOC's, CAC's, Particles, micro organisms, toxins, solvents and odour.
2	Consists of HEPA filter, potassium permanganate impregnated activated carbon filter and prefilter.
3	Colour LED on front panel to show carbon filter replacement time
4	2 speed options - Full speed and half speed.
5	Ultra quiet - Noise level is less than 50dB (A) at full speed and less than 42 dB (A) at half speed.

8. ICSI Micromanipulator System with Inverted Microscope Qty: 01

S. No.	Item Description
1	Latest Inverted microscope
2	3 position light path
3	Prism preinstalled
4	Illumination equipped with condenser holder
5	LED Lamphouse
6	Sextuple Nosepiece is included.
7	Binocular Tube Widefield eyepiece 10X, focusable.
8	Enough travelling range applied for slide glass, 35 mm dish as well as multiwell plate, circle stage inserts included.
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.
10	Long working distance condenser for DIC/RC/NAMC observation
11	Mechanical or manual or electrical micromanipulator
12	Digital display of 3D fine control from single level
13	Heating system of insert should be such that it should avoid cold spots
14	1 x Oil Injector
15	1 x air injector
16	For Intracyloplasmic Sperm Injection in IVF.
17	Micromanipulator should be compatible for the utility of commonly available LASER And Spindle view imaging system.
18	Must be FDA/ EU approved

9. IVF Laser System Qty: 01

S. No.	Technical Specifications
1	Laser for IVF lab to ablate zona pellucida, hatching, biopsies and blastomere collapse
2	Moveable laser with biopsy mode
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
4	Laser should include both pilot and ablation laser
5	Laser should have a option to indicate heat safety zone
6	Laser power should be between 350-425mW
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.

10: CO_2 Cylinder and Manifold Qty: 02

S.No.	CO2 cylinder on Manifold
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.

2	With two stage regulator calibrated in PSI
3	With required attachments for manifold. With automatic inline arrangement to ensure steady , nonstop supply

11: IVF Thermometer: Qty: 01

S.No.	Temperature Thermometer
1	Easy to use handheld digital, water proof
2	To check temperature of heated surface, inside the media droplet, incubators, refrigerators
3	Operating time at least 200 hours on bettery
4	Ergonomic design and should have digital display
5	Calibration certificate required.
6	Certificate: should be CE or FDA or BIS certified

12: CO_2 and O_2 Analyzer: Qty: 01

S. No.	CO2 and O2 analyzer
1	Hand held with Quick verification of CO2 and O2 incubator levels
2	Large data storage up to 750 readings
3	CO_2 0-20%; O_2 0-100%
4	Battery Life: 10 Hours (8 hours pumping)
5	Easy to read
6	Atleast 2 temperature probes
7	Built in moisture gas removal and humidity trap

13: pH Meter Qty 01

S.No.	pH Meter
1	Hand held, simple pH meter to read the media drops
2	pH accuracy ±0.03pH
3	pH calibration atleast 2 points in room temperature
4	Calibration by pH buffers 7-10
5	Temperature accuracy $\pm 0.5^0$C
6	Data logging facility

S. No.	VOC Meter for ART Lab
1	Handheld monitor capable of detecting contamination at 0.1ppm
2	PID sensor 0-15000ppm
3	Response time < 5 seconds
4	Flow rate 400-500cc/min
5	Data logging facility mandatory
6	Weight less then 1Kg

ANDROLOGY LAB

Item 1: Sperm Counting Chamber Qty: 01

S. No.	Sperm Counting Chambers
	It should be a medical device for use in Human IVF with the following specification
1	Counting Chamber with cover Slip(Glass)
2	Cover Slip with Grid built in with 100 squares
3	Reusable
4	No Calibration required
5	Optimal depth 10 microns
6	Should be provided with cleaning brush and cleaning paper
7	99% accuracy for pre and post wash semen analysis
8	Valid CE/US FDA/BIS Certification
9	NO DILUTION REQUIRED FOR SPERM COUNT CALCULATION

Item 2: Binocular Microscope Qty: 01

S.No.	Binocular Microscope for Semen Analysis
1	Standard microscope set complete with built-in 6V20W halogen light illuminator with regular power supply
2	Quadruple ball bearing nosepiece, co-axial coarse and fine focusing controls, high resolution Semi-Plan Achromat objectives 4x, 10x, 20X & 40x (spring)
3	360^0 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

Item 3: Laminar Flow Cabinet for Andrology Qty: 01

S.No.	Laminar Flow Cabinet for Andrology
1	3 Feet LAF where both user and product are protected against particle and microbial contamination. IVF
2	Quadruple ball bearing nosepiece, co-axial coarse and fine focusing controls, high resolution Semi-Plan Achromat objectives 4x, 10x, 20X & 40x (spring)
3	360^0 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
4	Surgical Stainless Steel (2mm) work surface
5	Toughened glass front window
6	Adjustable luminosity
7	Fully operated with a microprocessor control panel.
8	USB data output
9	Electrical outlets

10	Fixed support Stand (80-85cm
11	Dimensions: 1000x800x2000 (WxDxH)

Item 4: Clinical Centrifuge for Andrology Qty: 01

S.No.	Clinical Centrifuge
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

Item 5: Denudation Pipettor Qty 02

S.No.	Pipetter and Denudation System
1	Denudation System It should be a medical device for use in Human IVF. Each system should consist of following items 1) **Denudation Pipette Rack** Should have slots for placing at least two denudation holder with pipette. **2) 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.

Item 6: Refrigerator Qty: 01

S.No.	Pharmaceutical refrigerator
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. The system should have sensors for activation of automatic/manual defrosts cycle to

	minimize the frost build up.
4	Internal construction should be made of high grade stainless steel (minimum 22G) External construction corrosion resistant sheet at least 1 mm thickness.
5	Internal temperature control: System should have temperature control range from +1O C to +8O C. Temperature control resolution should be better than 1O C.Cooling down time of max of 150 min on half load.
6	External ambient temp should perform in ambient temp up to +43O C.
7	Door System should lockable double doors with double pane with self closing door for better safety.
8	Safety System: a) System should have large and clear Digital displays for the set/run parameters. b) The system should have chart recorder to record temperature changes with battery back up.
9	The system should have key operated set point for the added security Alarms. a) System should have audible/visual warnings for over-temperature under temperature and power failure with visual status reports on critical functions. b) System should have battery back up and connections for remote alarm contacts.
10	Should have adjustments for uneven bases. The adjustments should be easy to use like rotating a screw at the legs in the base.
11	Scratch resistance internal of the cabinet.(stainless steel or aluminum)
12	Should have 6-10 adjustable drawers of stainless steel of 22G
13	Power input to be 220-240VAC, 50Hz fitted with Indian Plug.
14	Voltage corrector/stabilizer of appropriate ratings meeting ISI specifications. (Input 160-260V and output 220-240V and 50Hz)
15	Certificate: Should be European CE or US FDA or BIS certified.
16	Electrical Safety conforms to standards for electrical Safety.
17	User/Technical/Maintenance manuals to be supplied in English.
18	Certificate of Calibration and Inspection.
19	List of Important spare parts and accessories with their part number.

Item 6: Positive Pressure Air System: Qty 01

S. No.	**POSITIVE AIR PRESSURE SYSTEM**
1	Model designed for continuous Fresh Air supply in IVF Lab. To create a positive pressure system in IVF lab. Used air must go out no reuse (circulation) air system is required.
2	Positive Air system have dimension of 640mmx430mmx700mm.
3	A mobile unit with 4 castrose,3 stage Air filtration system. Fine Filter, VOC Filter, HEPA filter.

4	Full Body made up of M.S powder quoted, control panel, with light alarm indication, green for on, yellow for caution to change the filter, and red to change the filter,
5	Duct to inser the fresh air in IVF lab through Medical grade Transparent, flexible, copper coated wire PU duct hose, fix with wall mounted duct.
6	Power 220-230 50Hz (V) circuitbreaker/MCB

Item 7: UPS Qty: 01

S.No.	**UPS 8-10 KVA ONLINE WITH BATTERY BACK UP**
1	SMF battery backup with 1 hours battery backup with SNMP and isolation transformer, battery rack inter connection links (42AH*20 nos)
2	Rectifier & Inverter with IGBT and DSP Technology.
3	Voltage 400 ± 15% V, 3 Phase, 4 Wire.
4	Frequency : 45 to 55 Hz.
5	Display : Control Panel with LCD Screen.
	Battery : Sealed Maintenance Free Rechargeable..
6	Back up : 1 Hr (60 Mts)
7	Protection : Overload & Short Circuit.
8	Ventilation: Forced Air Cooling.

Vitrification Room

1. Cryo Can with wheels Qty: 02

S. No.	**Technical Specifications**
1	For specimen storage - 47 Litres-1 pcs
2	For Liquid Nitrogen storage - 26 Litres – 1 pcs

Consumable List

Consumables for 3 Years based on 300 Cycles/year

Sperm Washing Media	250 Bottles
Sperm Gradient 40/80	30 Bottles
Handling Media	100 Bottles
Culture Media – Single Step	170 bottles
Culture Media for Recurrent Implantation	50 bottles

Failure Patients – Single Step	
PVP	50 Packs
Hyaluronidase	100 Pack
Oil	150 bottles
Vitrification Media	50 Kits
Vitrification Warming	50 Kits
Sperm Freezing	50 Vials
Dishes for Sperm Selection	500 Dishes
Biopsy Pipette	30 Boxes
ICSI Pipette	100 Boxes
Holding Pipette	100 Boxes
Tips for Denudation 135-140um	150 Boxes
Tips for Denudation 170-180um	150 Boxes
Tips for Denudation 250-300um	150 boxes
Cell Culture Dish 35mm	20 Boxes
Cell Culture Dish 100mm	20 Boxes
Center Well Dish	20 Boxes
4-Well Dish	20 Boxes
5ml test for Ooctyte aspiration	20 Boxes
14ml Test tube for Oocyte aspiration	20 Boxes
15ml conical centrifuge tube Semen analysis	20 Boxes
10ml Serological Pipette, Orange Plug, 400/Cs	10 Boxes
1ml Serological Pipette, Orange Plug, 400/Cs	10 Boxes

FURNITURE:

ALL FURNITURE ITEMS SHOULD BE FROM REPUTED BRAND PREFERABLY FROM GODREJ, HERMAN MILLER, FEATHERLITE AND HAVE WARRANTY

1.	**Andrology lab** 1. Overhead build in cabinet 2. Chairs-3
2.	**Reception** 1. Reception desk L or C shaped-1 2. Receptionist Chair-2 3. Cabinets behind the desk-1 4. Sitting facility-15 5. Centre table 6. Magazine rack
3.	**USG room** 1. Work station with desktop 2. Consultant Chair-1 3. Build in overhead cabinets for storage
4.	**Counselling room** 1. Table with desktop 2. Consultant Chair 1 3. Overhead cabinets 4.1-Two seater sofa, 1 one seater sofa
5.	**Patient changing rooms** 1. Chair 2 2. Hanger points 3. Cabinets for keeping linen
6.	**Semen production room:** 1. Recliner-1 2. Chairs-2 3. Cabinets for storage 4. Height adjustable doctor chair with arm rest -5 5. Drug Trolley-3 6. Dust bin with lid in each area 7.Name Boards for all Rooms 8.Main sign board of Reproductive Unit

7.	**RECEPTION TABLE** 1. C/L shaped 2. Modular design 3. Cork 18mm thick rubberized 4. Glass Top: 10 mm thick diamond cut edges 5. Modesty Panel: MS perforated sheet size at least 0.8mm thick 6. Legs: 1.6 mm M5 tube of 50 mm diameter and 600 mm length 7. in built storage in form of drawers on sliding rail system (3 on each side) 8. Reception table should have built in wire management system 9. Pre acceptance demonstration of furniture is must.
8.	**RECEPTIONIST CHAIR:** 1. Medium back junior executive type chair 2. Gas height adjustment 3. PP armrest with nylon base 4. Epoxy powder coated extruded aluminium 5 spokes base (circumscribing diameter 60 cm) 5. Antistatic castors, approx. 75 mm diameters, at least 2 with brakes 6. Seat size and backrest size for standard adult 7. Seamlessly upholstered seat and backrest, 8. Colour of upholstery-blue / grey 9. Colour of base-black 10. With height adjustable, broad. padded and upholstered arm rests and comfortable back rest 11. Pre acceptance demonstration of furniture is must.
9.	**FILING CABINET BEHIND RECEPTION DESK:** Height approximately 6 feet Having at least 4 racks with individual doors and locking mechanism for each rack Vertical filing cabinet Godrej or equivalent Pre acceptance demonstration of furniture is must.
10.	**PATIENT SEATING FACILITY:** 1 3 in one combi chair-airport model Metal Chair 2 Shall have tubular Frame made of 19mm dia and 16mm thick M.S. ER.W Tube. 3 The Seat and back should be puff cushioned and polyester coated 4 Color grey/black 5 All steel components shall be Epoxy 6 Pre acceptance demonstration of furniture must
11.	**MAGAZINE RACK (Godrej or Durian make)**
12.	**CENTRE TABLE:** 1 Material wood, shade to match rest of furniture in reception based on concept of coffee table). 2 Dimensions:30 34 inch (1), 14-16 inch (1), 19-22 Inch (W) 3 Must have 2 storage in built drawers to accommodate magazines 4 Pre acceptance demonstration of furniture is must.

13.	**CHAIRS** 1 Medium back junior executive type chair 2 Gas height adjustment 3 PP armrest with nylon base 4 Epoxy powder coated extruded aluminium 5 spokes base (circumscribing diameter 60 cm) 5. Antistatic castors, approx 75mm diameter, at least 2 with brakes 6 Seat site and backrest size for standard adult 7 Seamlessly upholstered seat and backrest, 8 Colour of upholstery-blue/grey 9 Colour of base-black 10 With height adjustable, broad, padded and upholstered arm rests and comfortable back rest 11 Pre acceptance demonstration of furniture is must
14.	**CONSULTANT CHAIR:** 1 Revolving executive chair (High back), Should be from Godrej), featherlite or equivalent. 2 Gas height adjustment 3 PP armrest with nylon base 4 Epoxy powder coated extruded aluminium 5 spokes base (circumscribing S Antistatic castors, approx. 75mm diameter, at least 2 with brakes 6 Seat size and backrest size for standard adult 7 Seamlessly upholstered seat and backrest, 8 Colour of upholstery-blue/grey 9 Colour of base-black 10 With height adjustable, broad, padded and upholstered arm rests and comfortable back rest 11 Pre acceptance demonstration of furniture is must.
15.	**WALL MOUNTED STORAGE** 1 Wall mounted wooden cabinets with individual lockable doors (Godrej Stare up or equivalent) sturdy, aesthetically appealing color and finish, ergonomic design 2 To be provided in reception, usg room, semen production room and andrology lab 3 Size: depth approximately 110 mm, height-750-800 mm, length according to room specification to cover one entire wall 4 Procurement, installation and work needed for fitting and installation included in the scope of turnkey
16.	**OFFICE TABLE:** 1 The office table should be made up of steel. 2 Should be of high quality, aesthetic and ergonomic design 3 Top made up pre laminated, beige or pine coloured material of high density 4 ressed wood, properly treated Flame and water retardant. 5 Should be with one drawer and one shelf on right hand side 6 Size (approx) Height 750 mm Width-800 mm Length-1200 mm 7 Pre acceptance demonstration of the furniture is must.
17.	**MOBILE LIGHT UNIT:** 1 Technical Specification 2 Should be LED type. 3 Single dome mobile type with shadow reduction technology.

	4 Mounted on articulated, spring balance arm for easy positioning. 5 Minimum light output should be 60.000 lux at 0.5m 6 Minimum field size should be 200 mm. 7 Should be mounted on caster for free movement 8 Colour temperature should be between 4000 K and 5000K, Ra93 or better. 9 Light intensity should be variable in 4 or more steps. 10 Light should be sealed to meet IP 43 standard 11 Should be CE or FDA approved product. 12 Input supply-230Vac, 50Hz 13 Should be supplied with Operator manual and Service manual 14 Warranty and CAMC as per tender term
18.	**WEIGHING SCALE** 1 Should be battery operated 2 Should have LCD Display 3 Should have large foot space 4 Should have Tap On & Auto Off 5 Should have Overload & Low Battery indicator
19.	**SMALL CONSUMABLE TROLLEY** 1 made of stainless steel 14301 2 lour same size drawers under the table top 3 the drawers on ball bearing slides, full extension, self-closing 4 table top with upraised back and sides edges 5 manoeuvring handle situated at front side of the trolley 6 base on four castors with diameter 100 min, two of them with brakes 7 all edges rounded and safe 8 table top dimensions 650 x 600mm 9 Measurements: 600x 700 x 985 mm
20.	**CONSUMABLE TROLLEY FOR EMBRYO TRANSFER ROOM** 1 made of stainless steel 1.4301 2 three drawers under the table top, plus one heating drawer for warming infusion fluids at the 3 bottom of the heating drawer perforated to facilitate heat distribution 4 thermoregulation placed above the heating drawer front, allowing temperature adjusting bottom of the trolley within the range from 35°C to +45°C 5 the drawers on ball bearing slides, full-extension, self-closing 6 manoeuvring handle situated at front side of 7 table top with upraised back and sides edges 8. all edges rounded and safe the trolley 9. base on four castors with diameter 100 mm, two of them with brakes 10 Table top dimensions 650x600 mm 11 Measurements: 690x700x585 mm
21	**ULTRASOUND EXAMINATION COUCH** 1. holes of 1 cm dia to allow fluid drainage, 2. Lower frame and intermediate frame of steel tubes of rectangular and square sections, multiple pre-treated and epoxy powder coated 3. Size (approximate): Length: 2050 mm bed surface, 2125 mm with frame. Width: 750

	mm. Bed surface size: 705 mm Wx 1950 mm L 4 Mattress-High-density foam mattress anti-microbial retardant, antimicrobial, leather like upholstery treated with waterproof flame 5 Backrest operated by gas system from horizontal to seated position 15 Trendelenburg 6 Height adjustable leg rests 7 Trendelenburg position operated by gas system 8 Pre acceptance demonstration of furniture is must.
22.	**RECLINER FOR SEMEN COLLECTION ROOM:** 1.Smooth Reclining Mechanism 2. Rubber wood frame 3. Slab stock foam seat:24kg/cubic m back: 24kg/cubic m 4. Brown PVC upholstery, durable, stain resistant and easily cleanable 5 Excellent lumber support & Width 950mm, Depth-740, Height-1050mm, seat height 450mm
23.	**MAIN SIGN BOARD OF REPRODUCTIVE UNIT NAME BOARDS FOR ALL ROOMS- RECEPTION, USG ROOM, COUNSELLING**
24.	**ROOM, ANDROLOGY LAB:**
25.	SOFAS 1-Two Seater sofa, 1-Single seater sofa in counselling room I High back rest Excellent lumbar support Upholstery washable, breathable, stain resistant material
26.	**DUST BIN WITH LID IN EACH AREA**
27.	**TRAINING** 1. The company who will be given the responsibility should provide: 2. Off-site training of 3 clinicians at good and recognised training lab. The company will also bear the cost of off-site travel, lodging and food expenses of clinicians during the tenure of training. 3. The company will provide on-site/off-site training to One Gynaecologist, Three staff nurses, 2 Lab Technician and Two OT Technicians. 4 Should provide clinical embryologist services support for first 100 cases at the AIIMS Reproductive Medicine Centre . All expenses including travel, lodging and food for the Above will be borne by the company. 5. Should provide all consumables, media and other requirements for of first 100 cases. 6.Should provide necessary training to clinical embryologist, andrologist once appointed by AIIMS, Patna at a recognised training center
28.	**MAINTENANCE:** 1. Maintenance and cleaning of AHU ducts every 6 months for warranty period. **2.** Lab quality certification every 6 months for warranty period.

CIVIL AND ELECTRICAL WORKS:

1.	**Description: IVF lab and Embryo Transfer room** Supply and installation of 30mm thick puff insulated wall panel with 08mm powder coated

aluminium on visible side and 0.8mm aluminium on other side.
Finished to a clean room standards.
The core of sandwich panel shall be filled with ridged polyurethane form which has to be injected under high pressure with minimum density of 40kg/m3. The individual wall panels shall be fixed using tongue and groove technology. The gaps between panels shall be suitably filled with metal filler/epoxy
A cryo- room has to be created in IVF lab using modular partition as per drawing

Ceiling

Supply and installation of 60mm thick and puff insulated ceiling panel with inside 0.8 mm powder coated aluminium and outside with 0.8mm aluminium Fished to a clean room standards. The core of sandwich panel shall be filled with ridged polyurethane foam which has to be injected under high pressure with minimum density of 40kg/m3. The individual ceiling panels shall be fixed using tongue and groove technology. The gaps between panel shall be suitably filled with metal filler/epoxy

Door:

1. Supply and living 49mm thick puff insulated door with puff insulation under high pressure (PUF @ 40 kg/cum) laminated by 0.8mm powder coated aluminium towards lab side and 0.8mm on the outer side.
2. Door size 4 feet in width, should be provided with suitable door frame,
3 Handle (Providing and fining aluminium handles 51 marked anodized, anodic costing not less than grade AC 10 as per 15: 1868, transparent or dyed to required colour or shade with nuts and screws etc. complete: 125 mm size) opening inside.
4. Doors must be tight-fitting with bottom sweeps and perimeter seals(top and edges)
5. A vision panel 1'1 feet at height of 4.5 feet should be provided; it must be double glazed, air-tight and gasketed.
6 .Door should be provided with air brush and air curtain
7. Door should have electronic/ RFID/pass-cord operated entry to restrict entry into labs. The gasket used shall comply with clean room standards.
8. Another door with same specifications and width to be provided for embryo transfer room

Flooring:

PVC FLOORING:

1. Floor should be smooth, non-slip, scratchproof, resistance to shock and indentation antimicrobial impervious material conductive enough to dissipate static electricity but not conductive enough to endanger personnel from electric shock.
2. Electrostatic charge dissipation combat PVC seamless flooring of very high quality should be provided.
3. Thickness not less than 3 mm Continuous roll should be used and joints should be welded by special PVC thermal welding units using PVC welding bars of same colour.
4. It should be inert to body fluids, chemicals and disinfectants. Should not be affected by temperature variation within the lab.
5. The Floor should efficiently discharge electric charges up to 2 kV
6. Flooring should be done by skilled workers of accredited agencies authorized by the supplier of PVC sheets. The electrical resistance (point to ground) should be within 2.5x104 to 5s106 ohms. The floor should not allow build up of electrical charge beyond 100 volts due to antistatic effect. The corners should not be terminated sharply and concealed cove-former (aluminium) should be used to overlap the wall panel to a height of approx 100mm and sealed perfectly and uniformly Self levelling compounds should be used,

7. Corners should be uniformly curved.
8. Final surface should be non-corrosive to biological fluids and detergents
9. Colour should be uniform pleasant and matching with ambience

Coving:

1. Modular clean room should be provided with aluminium coving without any uneveness. Ceiling and all vertical corners in IVF lab and embryo transfer room.

General requirement of Aluminium work:

1. The Pre-fabricated modular construction is designed and constructed for exact size and easy field installation
2. The panels shall be made of a durable and uniform material that should be easy to clean and extremely hygienic.
3. Should not have any sharp edges and corners and do not support bacteriological or fungicidal growth and is resistant to most chemicals used in IVF lab
4. All Aluminium panels should be lab tested and certified and liable to third party inspection.
5. Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per 15: 1868) transparent or dyed to required colour or shade with nuts and screws etc complete.

Hatch Box/Pass Box:

1. A hatch should be provided between OT and IVF lab and between IVF lab and embryo transfer room.
2. Each hatch box should be equipped with two doors and the door should be operated electrically/motorized,
3. The hatch should be designed in such a way that only one door should be opened at one time.
4. The UV light should be so installed that it is kept on while both the doors are closed. This UV light has to be automatically turned off in case of opening of either of the doors
5. Indicators should be provided on both sides of OT so that door open/close status can be monitored from both sides
6. Hatch Box should have a manual over-ride to allow opening of both doors together if need be
7. Providing and fixing static SS pass box of size 450x450mm in between IVF Lab and OT, for material transfer (Inclusive of cutting and making good the same).

Counter-tops:

1. Non porous materials that do not release VOC should be used for countertops Material used is corian

Earthing:

Maintenance free Gel Earthing with Pipe in pipe/Pipe in strip technology filled with anti-corrosive conductive compound (CPRI Tested 1 below the ground in 150-200 dia earth pit & surrounding filled with required mineral filling compound (MFC should have hygroscopic property to retain the moisture for long time to create low resistance zone and CC finished chamber covered with hinged type with locking arrangement CI. Cover, C.I Frame of size 300mmX300mm complete testing of earth resistance as required of following

size
with Strip in Pipe Technology with 80-100 micron GI Coating GI pipe 3000 mm long. 63/80mm, Inner strip 50 mmx3mm copper. Required rating of earthing strip along with the earthing pit

Light Fitting

Supplying and firing of LED light fitting with of lux level equal to 1000 lumens as per design with dimmable control at the working table Light fittings must be air-tight, designed for clean rooms, so no air leakage occurs into the plenum void above the ceiling Light fittings can be surface mounted provided that the cable access is sealed, and there is no horizontal rim or flange where dirt can accumulate

UV LIGHT:
Supply and fixing of Ultraviolet lights comprising of 30 watts .UV tubes are fixed to the Frame. The SS frame is manufactured from 1.2 mm, Type 304, stainless steel. The unit is easy to disinfect and maintain.

Electrical, gas and data conduits:

All electrical, gas and data conduits must be sealed where they enter or leave the clean room to prevent air loss through them (including behind light switches), within the suite, use steel "Dado" trunking attached to the wall for the distribution of power, data and gas lines. All electrical & data conduits must be MS and Gas conduits of Copper only.

Main electrical supply panel

SITC of wall/ free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet required hardware, duly treated for de-rusting in 7 tank process with de-phosphate and with powder coating on both side of panel in desired shade The panel having PL/ Neoprene rubber gasket of not less than 3mm thickness. separate detachable gland plate M.5. base channel, hinged door with locking arrangement for equipment/switchgear. Thickness of sheet shall not be less than 1.6 mm up to 600 mm length/width of any compartment and be al 2.0 mm above 600 mm. Load bearing structure shall be of 2.0 mm thick sheet supported by base M.5. channel if required. Side walls and cable alley compartments having bolted type doers with/without detachable extension type structure with all type of suitable twitching accessories & bus bar as per load requirement of respective IVF equipments

Storage cabinets:

1. A storage cabinet made up of powder coated material or stainless steel at least 3*2*1.5 feet in size, in build in modular panelling, smooth finish, easily cleanable).
2. for IVF lab and 1 for embryo transfer room

Air Return Modules:

1. Should have 10 micron filter of efficiency 90%, Stainless steel perforated grill and pressure balancing damper of suitable size.
2. The return air opening shall be from four corners of the room at 10" from finished floor level.
3. Necessary Aluminium ducting to achieve test results shall be provided, made of

Aluminium sheet as per 1S 655 code.

4. External thermal insulation The supply ducts shall be insulated with 19mm Nitrile rubber and Return Air duct using 13mm Nitrile rubber

Pressure Relief Dampers:

1. Pressure relief dampers should be provided in each room to prevent contamination of air from clean and dirty areas.
2. Suitably sized air pressure relief damper should be strategically placed, enabling differential room pressure to be maintained and ensure that when doors are opened between clean and dirty areas,
3. Counter-weight balancing system should be provided in the PRD to maintain positive pressure inside the operation room
4. Air pressure stabilizers should have unique capability of controlling differential pressure to close tolerance. The PRD should remain closed at pressure below the set pressure and should open fully at a pressure only fractionally above the threshold pressure.
5. The body should be epoxy powder coated as per standard BS colors.High grade electrolyzed steel plate should be used for body and high grade SS304 stainless steel for blades

AIR QUALITY MODULE FOR IVF LAB

HEPA FILTERS:

1. HEPA filters high quality, box type, ultra clean glass fiber paper of high quality, providing retention 0.3 microns and above, with efficiency 99.997% should be provided at duct level at all the incoming air ducts from AHU in IVF lab.
2. Filters should have easy replacebility
3. Replacement filters for initial 2 years of working
4. Suitable to cover CFM of

Embryo Transfer Room

1. Modular panels, ceiling walls, floor and door, storage cabinets should have same specs as IVF lab
2. A utility and changing room has to be created from embryo transfer room as per drawing

Annexure-I

TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

Date:

To,
The Director,
AIIMS Patna

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No:

Name of Tender / Work: -

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/ Work' from the web site(s) namely: _____ as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

ANNEXURE – "IV"

BANK GUARANTEE FORM

(To be executed by any scheduled bank, on a non-judicial stamp paper under bank's covering letter mentioning address of the bank)

To,
All India Institute of Medical Sciences, Patna
Patna - 801507

In consideration of All India Institute of Medical Sciences, Patna [hereinafter referred to as AIIMS', which expression unless repugnant to the context and meaning thereof shall include its successors and assigns] having agreed to exempt M/s_____ [hereinafter referred to as 'supplier /contractor' which expression unless repugnant to the context and meaning thereof shall include its successors and assigns] from depositing with AIIMS a sum of Rs._____ (Rupees _____) towards security / performance guarantee in lieu of the said contractor having agreed to furnish a bank guarantee for the said sum of Rs. _____ (Rupees _____) as required under the terms and conditions of contract / work order no dated _____ [hereinafter referred as the order'] placed by AIIMS on the said supplier /contractor. We,_____ the bank [hereinafter referred to as 'the bank' which expression shall include its successors and assigns] do hereby undertake to pay AIIMS an amount not exceeding Rs. _____ (Rupees _____) on the demand made by AIIMS on us due to a breach committed by the said supplier /contractor of the terms and conditions of the contract /order.

1. We_____ the bank hereby undertake to pay the amount under the guarantee without any demur merely on a demand from AIIMS stating that there is a breach by the supplier / contractor of any of the terms and conditions contained in the order or by the reasons of the supplier's / contractor's failure to comply with the terms and conditions as stipulated in the order or amendment(s) thereto. The demand made on the bank shall be conclusive as to the breach of the terms and conditions of the order and as regard to the amount due and payable by the bank under this guarantee, notwithstanding any dispute or disputes raised by the said supplier / contractor regarding the validity of such breach and we agree to pay the amount so demanded by AIIMS without any demur. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs._____ (Rupees _____).

2. We, the bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till the dues of AIIMS under or by virtue of the said order have been fully paid and its claim satisfied or discharged or till AIIMS certifies that the terms and conditions of the order have been fully and properly carried out by the supplier / contractor and accordingly discharge the guarantee.

3. We the bank, undertake to pay to AIIMS any money so demanded notwithstanding any dispute or disputes raised by the said supplier /contractor in any suit or proceedings pending before any court or tribunal relating thereto as our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the said supplier / contractor shall have no claim against us for making such payment.

4. We _____ the bank further agree that AIIMS shall have full liberty, without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the order / contract or to extend time of performance by the said supplier / contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the AIIMS against the said supplier / contractor and to forbear or enforce any of the terms and conditions relating to the order and shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier / contractor or for any forbearance, act or omission on the part of AIIMS or any indulgence by AIIMS to the supplier / contractor or by any such matter or thing whatsoever which under the law relating to sureties would but for this provisions have effect of so relieving us.

5. Our liability under this guarantee is restricted to Rs. _____ (Rupees _____) and shall remain in force up to _____ unless demand or claim under this guarantee is made on us in writing within 6 months from the date of expiry viz. _____. We shall be discharged from all liabilities under this guarantee thereafter.

6. This guarantee will not discharge due to change in the constitution in the bank or the said supplier / contractor.

7. The bank hereby agrees to address all the future correspondence in regard to this bank guarantee to The Administrative Officer, All India Institute of Medical Sciences, Patna.

8. We, _____ the bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the AIIMS in writing.

Signed on the _____ day of _____

Signature

For the Bank

Witness: **Name(s) & Designation(s)**

Name & Address

ANNEXURE – "V"

POWER OF ATTORNEY

(On a Stamp Paper of relevant value)

I/ We…….(name and address of the registered office) do hereby constitute, appoint and authorize Sri/Smt ……..……...… (Name and address) who is presently employed with us and holding the position of ……. as our attorney, to act and sign on my/our behalf to participate in the tender no…… for …… (Equipment name).

I/ We hereby also undertake that I/we will be responsible for all action of Sri/Smt…….. Undertaken by him/her during the tender process and thereafter on award of the contract. His / her signature is attested below

Dated this the ___day of 201_ For_____

(Name, Designation and Address)

Accepted

_____

(Signature)

(Name, Title and Address of the Attorney)

Date: _____

AFFIDAVIT
(On Non-Judicial Stamp paper of Rs. 100)

I, _____Son / Daughter / Wife of Shri_____ resident of _____Proprietor/Director authorized signatory of the agency/Firm (M/s_____), do hereby solemnly affirm and declare as follows:

1. I am authorised signatory of the agency/firm and is competent to sign this affidavit and execute this tender document;
2. I have carefully read and understood entire tender document including all the terms and conditions of the tender and undertake to abide by them;
3. The information / documents furnished along with the above application are true and authentic to the best of my knowledge and belief. I / we, am / are well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
4. I/We further undertake that no case/enquiry/investigation is pending with the police/court/vigilance or any government body against the Proprietor/Partner/Director etc. as individual or against legal entity of the Company /Firm/Agency.
5. I/We further undertake that none of the Proprietor/Partners/Directors of the Agency/agency was or is Proprietor or Partner or Director of the Agency with whom the Government have banned /suspended/blacklisted business dealings. I/We further undertake to report to the Faculty-in-Charge Procurement Cell, AIIMS, Patna immediately after we are informed but in any case not later 15 days, if any Agency in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such an Agency which is banned/suspended in future during the currency of the Contract with you.
6. I/We further undertake that our firm/company is fulfilling all the terms and conditions/eligibility criteria obvious/explicit or implied/implicit recorded anywhere in the tender document. If at any time including the currency of the Contract, any discrepancy is found relating to our eligibility or the process of award of the contract criteria, this may lead to termination of contract and/or any other action deemed fit by the Institute.

(Signature of the Bidder)
Date: Name:
Place: Designation
Seal of the Agency Address:

I/We do hereby solemnly declare and affirm that the above declaration is true and correct to the best of my knowledge and belief. No part of it is false and noting has been concealed therein.

Deponent

Address:

ANNEXURE – "XI"

MANDATE FORM

(Account/s Information form)

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING) / REAL TIME GROSS SETLEMENT (RTGS)/ NATIONAL ELECTRONIC TRANSFER (NEFT) / INTRA BANK ACCOUNT TRANSFER FACILITY FOR RECEIVING PAYMENTS

A. DETAILS OF ACCOUNT HOLDER:

NAME OF ACCOUNT HOLDERER / FIRM	
COMPLETE CONTACT ADDRESS	
MOBILE NUMBER / PH NO	
E.MAIL	

B. BANK DETAILS

ACCOUNT NAME (Name appearing in your Cheque Book)	
BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NO	
BRANCH CODE	
COMPLETE BANK ACCOUNT NUMBER **(Please note that the Bank Account must be in the name of the Firm as appeared in the bill. In case of other Beneficiaries (Non-vendor) the Account name must be in the name of Applicant.**	
IFSC CODE	
TYPE OF ACCOUNT (SB/CURRENT/CASH CREDIT)	
MICR CODE OF BANK	

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information

I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge responsibility expected or me as a participant under the scheme.

(……..)

Signature of Customer

(Bank's Stamp)

(……..)

Signature of Customer

Certified that the particulars furnished above are correct as per our records.

<u>Please attach a Cancelled Cheque along with the account information form.</u>

ANNEXURE – "XIV"

Integrity Pact

(On Non-Judicial Stamp paper of Rs. 100)

Between

All India Institute of Medical Sciences, hereinafter, referred to as "AIIMS Patna",

and

..... hereinafter referred to as "The Bidder(s)/Contractor(s)"

Preamble

The AIIMS Patna intends to award, under laid down organisational procedures, contract/s for ……The AIIMS Patna values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/ transparencies in its relations with its Bidder(s) and / or Contractor(s).

In order to achieve this goal, AIIMS Patna will appoint Independent External Monitor (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section - 1 Commitments of AIIMS Patna

1) AIIMS Patna commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
   a) No employee of AIIMS Patna, personally or through family members, will in connection with the tender for, or the execution of a contract demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
   b) AIIMS Patna will, during the tender process treat to all Bidder(s) with equity and reason. The AIIMS Patna will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
   c) The AIIMS Patna will exclude from the process all known prejudiced persons.

2) If AIIMS Patna obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, AIIMS Patna will inform its Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section - 2 Commitments of the Bidder(s)/Contractor(s)

1) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. The Bidder(s)/Contractor(s) commits himself to observe the following principles during his participation in the tender process and during the contract execution.
   a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of AIIMS Patna's employees involved in the tender process or the execution of the contract or any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
   b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any illegal agreement or understanding, whether formal or informal. This applies in particular to prices, specifications,

certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.

c) The Bidder(s)/Contractor(s) will not commit any criminal offence under the relevant Anti-Corruption Laws of India; further the Bidder(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by AIIMS Patna as part of the business relationship, regarding plans technical proposals and business details, including information contained or transmitted electronically.

d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the name & address of the Agents/representatives in India, if any. Similarly the Bidder(s)/Contractor(s) of Indian Nationality shall furnish the name and address of foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payment made to the Indian agent/representative have to be in Indian Rupees only.

e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

f) The Bidder(s)/Contractor(s) who have signed the Integrity Pact shall not approach the courts while representing the matter to IEMs and shall wait for their decision in the matter.

2. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section - 3 Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, AIIMS Patna is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per rule & regulations.

Section - 4 Compensation for Damages

If AIIMS Patna has disqualified the Bidder(s) from the tender process prior to the award according to Section 3 above, The AIIMS Patna is entitled to demand and recover the damage equivalent to Earnest Money Deposit /Bid security.

2. If AIIMS Patna has terminated the contract according to Section 3, or if AIIMS Patna is entitled to terminate the contract according to Section 3, AIIMS Patna shall be entitled to demand and recover from the Bidder(s) liquidated damages of the Contract value or the amount equivalent to performance bank Guarantee.

Section - 5 Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti- corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken the contract, if already awarded, can be terminated.

Section - 6 Equal treatment of all Bidder (s)/Contractor (s)

In case of Sub-contracting, the AIIMS Patna Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor.

1. The AIIMS Patna will enter into agreements with identical conditions as this one with all Bidders and Contractors.

2. The AIIMS Patna will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section - 7 Criminal Charges against violating Bidder (s)/Contractor (s)/ Subcontractors (s)

If the AIIMS Patna obtains knowledge of conduct of a Bidder, Contractor or subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the AIIMS Patna has substantive suspicion in this regard, the AIIMS Patna will inform the same to the Chief Vigilance Officer.

Section - 8 Independent External Monitor

1. The AIIMS Patna appoints competent and credible Independent External Monitor for this Pact. After approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all contract documents, whenever required. It will be obligatory for him / her to treat the information and documents of the Bidders / Contractors as confidential. He/ she reports to the Director AIIMS Patna.
3. The Bidder (s) Contractor (s) accepts that the Monitor has the right to access, without restriction to all Project documentation of the AIIMS Patna including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
4. The Monitor is under contractual obligation to treat the information and documents of the Bidder (s)/ Contractor(s)/ Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on Non-Disclosure of Confidential Information and of 'Absence of conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform Director, AIIMS Patna and recuse himself/herself from that case.
5. The AIIMS Patna will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
6. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Director AIIMS Patna and request the Management to discontinue or take corrective action, or the take other relevant action. The monitor can in the regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
7. The Monitor will submit a written report to the Director AIIMS Patna, within 8 to 10 weeks from the date of reference or intimation to him by the AIIMS Patna and, should the occasion arise, submit proposals for correcting problematic situations.
8. If the Monitor has reported to the Director AIIMS Patna, a substantiated suspicion of an offence under relevant IPC/PC Act, and the Director AIIMS Patna has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word Monitor, would include both singular and plural.

Section - 9 Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders' 6 months after the contract has been

awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

If any claim is made / lodged during this time the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Director of AIIMS Patna.

Section - 10 Other Provisions

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the AIIMS Patna.
2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. Issues like comprehensive Warranty / Guarantee etc. shall be outside the purview of IEMs.
6. In the event of any contradictions between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

_____	_____
For and on behalf of the AIIMS Patna	For & on behalf of Bidder/Contractor
Office Seal	Office Seal
Place: _____	Witness 1: _____
Date : _____	Witness 2: _____

Annexure- XVI

Certificate to be submitted by Bidder:-

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India: I certified that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certified that this bidder fulfils all requirements in this regards and is eligible to be considered. [Where applicable, evidence of valid registration by the competent authority shall be attached.]

Signature and Stamp of the Bidder

Or

Certificate to be submitted by Bidder for work involving possibility of sub- contracting:-

"I have read the clause regarding restriction on procurement from a bidder of a country with share a land border with India and on sub-contracting to contractors from such country; I certified that this bidder is not from such a county or, if from such a county, has been registered with the competent authority and will not sub- contract any work to a contractor form such countries unless such contractor is registered with the competent authority. I hereby certified that this bidder fulfils or requirement in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the competent authority shall be attached].

Signature and Stamp of the Bidder

ANNEXURE - XVII

Bid Security Declaration Form

Date:_____ Tender No. _____

Tender Name: ……..

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Security Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Security Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown) in the capacity of (insert legal capacity of person signing the Bid Security Declaration)

Name: (insert complete name of person signing he Bid Security Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder) Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Security Declaration must be in the name of all partners to the Joint Venture that submits the bid)