Department of Obstetrics and Gynaecology

Sr.No	Name of Equipment	Specification	Qty required	Suggested Manufacturers Name	Approx Unit cost (Rs.)	Usage
1	LED light sources with 2 domes	Lamp life –Up to 50 000hrs Plug for light Guide Cable-standard	4	*Midray *Rimsa *Penta LED81	800000/-	Better vision of field during operations.
2	Colposcope	The video colposcope must have magnification from min. 1x to max. 40x. Magnification Indicator should be on the video colposcope Resolution must be > 825 lines (Std.) > 1,000 lines (Gamma on) No of pixel should be 12,00,000 The image sensor must be 1/6 " microlens color CCD with high speed Digital Signal Processing High MCD super bright white shadow less LED light for true colour reproduction Colour temperature should be 70000 K, light source life should be minimum 5000 hrs Auto focus range should be up to 30-40 cm Facility for fast focusing zooming, light source, image freeze using thump on the hand held unit itself Should be with E-flip & Mirror image function to ensure extended attention and perfect diagnosis	1	*B'orze *BPL Ltd.Health Management Solutions.	255000/-	To visualize the cervix sued as a screening method for cervical cancer.

Acetic test timer and magnification indicator		
should be displayed on screen		
There must be Electronic Green filter in the		
hand held unit without decrease in		
illumination		
Control panel should have feather touch and		
water proof buttons. Facility for fast		
auto/manual focusing. Internal image freeze		
function facility. There should be two built in		
Video output – BNC & SVHS on the unit.		
Company should provide Colposcopy image		
Management Software with computer with		
following facilities. Upgradable software.		
Masking facilities. Image capturing while		
recording/playing. Final reports with one, two,		
three & four images with facility to adjust		
height & width of images. Reference: images		
with finding for comparison. Facility to save		
& send the report through e-mail in pdf		
format. Facility to get referral linked images.		
Online support facility (through internet) for		
software		
Colposcopy software should run on both		
window XP & Vista operating systems		
Colposcopy assisted dynamic cases		
Facility to take colposcopy images with the		
colposcopy report on hard copy Facility to		
store still images, cine loop or procedure on		
CD		
Company have to provide trolley for personal		
computer		
Colposcope should be CE, ERTL & ISO		
certified		

	Colposcope should be operated through remote control also Colposcope should be equipped with Gamma Processor to enchance vascular structure Colposcope should have Remote Control facility		
	Continuous monitoring of FHR, Toco& Foetal movements with trace on LCD FHR display with beat to beat monitoring with auto correlation technique using	*Phillips *Biomed *RPL Ltd	To identify abnormal fetal heart sounds so that in high risk pregnancies the risk to the fetus for fetal death & abnormalities
	EMEBREDDED Technology for computation of the FHR in B.P.M. Graph on LCD & Dot –matrix printer using plain paper Annotation of Hospital & patient details Memory of 8 – 10 hours /20 patients Automatic TOCO zero Tachycardia & bradycardia alarms Multi crystal ultrasound Transducer & digitally controlled feather touch keys Technical Data- FHR Probe : Large 50 mm diameter transducer Operating Frequency: 2MHz	*BPL Ltd.	for fetal death & abnormalities in minimized.
	Fetal Heart Rate: Measurements Range: 60- 220 BPM Uterine Contraction: External: Toco Transducer Event Marker: Hand held, patient operated Dimensions: 380 (W) X 100 (h) X 330 (d) mm Printer: Type: 80 Column dot matrix printer		

		Voltage: 230 V A.C+/- 10% 50 Hz				
4	Operating	Telescope 10 mm- 0 degree	2	*Karl Storz	1110000/-	To perform operations with
	Laproscopy set	Telescope 5 mm-3 0 degree Specification		*Wolf		minimal complications and
		High speed rod lens system				minimal hospital stay without opening the abdomen.
		Scratch resistant		*Olympus		opening the abdomen.
		Adaptability to high intensity Xenon light 300				
		watts Trocar size 5/6mm- 4				
		Trocar only, with pyramidal tipcannula				
		without valve, with insufflations				
		Trocar size 10/11mm-				
		Trocar only, with pyramidal tipcannula without valve, with insufflations stop –clock,				
		length 10.5 cm				
		Reducer 11/5 mm- 4				
		Coagulating & Dissectuing Electrode, L-				
		shaped, with connector pin for unipolar coagulation, size 5 mm, sorking length 36 cm-				
		01				
		Click Line Grasping Forceps, 2X4 teeth,				
		rotating with connector pin for unipolar				
		coagulation, size 5 mm, length 36 cm, double				
		action jaws- 01 Click line KELY Dissecting & Grasping				
		Forceps, rotating with connector pin for				
		unipolar cogulation, size 5 mm, length 36 cm,				
		double action jaws- 01				
		Bipolar Grasping Forceps				
		Maryland dissector curved with fine horizontal serrations double jaw.				
		size 5 mm, length 36 cm				
		high frequency cord for bipolar instruments;				

		length 300 cm fiber optic light cable, size 4.8 mm, length 250 cm endovision Cemra 3 chip color system power supply: 100-240 VAC, 50-60Hz suction & irrigation cannula 5 mm & 10 mm verees pneumoperitonneum needle metzenbaum scissors with connector pin for unipolar coagulation- Straight, Curved Monopolar high frequency cord- 01 PCOD Needle- 01 Uterine manipulator (Colptomizer) 01 Needle Holder Pistol Grip, Tungsten Cardiile Straight & curved jaws- 02 Post closure (Small Mochi) 01 Knot Pusher 01 Babcock's Laparoscopy forceps –20 mm Endobag - 01 DVD Writer- 01				
5	Diagnostic Laproscopy set	Telescope 10 mm- 0 degree Specification High speed rod lens system Scratch resistant Adaptability to high intensity Xenon light 300 watts Trocar size 5/6mm- Trocar only, with pyramidal tipcannula without valve, with insufflations Trocar size 10/11mm- Trocar only, with pyramidal tipcannula without valve, with	1	*Karl Storz *Wolf *Olympus	600000/-	For diagnosis of to identify problems without opening abdomen.

		insufflations stop —clock, length 10.5 cm Reducer 11/5 mm-Coagulating & Dissectuing Electrode, L- shaped, with connector pin for unipolar coagulation, size 5 mm, sorking length 36 cm- Maryland dissector curved with fine horizontal serrations double jaw. size 5 mm, length 36 cm high frequency cord for bipolar instruments; length 300 cm fiber optic light cable, size 4.8 mm, length 250 cm endovision Cemra 3 chip color system power supply: 100-240 VAC, 50-60Hz suction & irrigation cannula 5 mm & 10 mm verees pneumoperitonneum needle metzenbaum scissors with connector pin for unipolar coagulation- Straight, Curved Monopolar high frequency cord- PCOD Needle- Babcock's Laparoscopy forceps —20 mm				
6	Hysteromat- Diagnostic- Operating	Flexible hysteroscope with operating accessories:- Scissor 02 Grasper 02 Allis forceps 02	3	*Karl Storz *Wolf *Olympus	700000/-	Direct visualization of inside of the uterus to identify problems and treat them.
7	Ultrasound With Doppler 7 In Built	Capable of processing and displaying 3D rendering of 2D images	1	*Siemens	1500000/-	In the department in emergency

Printing &	Broadband multifrequency Tranducers-	*Phillips	cases for diagnose problems.
Recording System	convex (abdominal) and TVS		
	Include a full complement of measurement	*Wipro GE	
	and calculation package		
	Digital Ultrasonic System	*Toshiba	
	T issue Harmonic Imaging	Medical	
	Software package along with format for Ob &	Systems	
	Gy		
	Real time dynamic ROF, RDA, DFP, DRA.		
	*permanent inbuilt + USB images storage		
	>256 frame line loop.S		
	Ergonomic keyboard		
	-back lit keyboard + direct printing, 6 STC		
	slides for easy adjustment		
	-multifunction knob + toggle for quick		
	adjustment		
	Scanning method – Electronic convex / Linear		
	/ Microconvex		
	Display modes – B, B/B,UB, M, B/M		
	Gray scale		
	Probe frequency 2.5 MHz – 9.0 MHz		
	Monitor - Zoom , Multi step		
	Image processing & reversing		
	Power supply Ac 230v + 10%, 50 Hz		
	Standard - main unit + convex printer + 2		
	probe connector + USB ports + VGA Port		
	(extra transvaginal probe) + inkjet printer		
	Trolley, Biopsy kit		
	Multidisciplinary ultrasound color Doppler		
	with pulse wave -spare part with ultra sound		
	modem		
	-Beam former board		
	-Transmitter board		

		-Receiver board -Digital scan converter board -Power supply unit -Pobes X 2				
8	Vessel Sealing And Ultrasonic Disector	The ultrasonic dissector should have following features Shears must be possible to have a multiple plane cutting and coagulating Cutting & coagulating with ultrasonic energy Possibility to detatch the Transducer from the patient cable to better maintenance Tissue gasping with using Parallel Jaw closure Should be compatible with only 5mm instruments The system should have stand by mode The power setting should be adjustable in 0.5 setting The ultrasonic dissector should have following instrument to handle following open and laparoscopic surgery instruments such as Shears of 5mm thickness and shaft length 291 mm-1no Shears of 5mm thickness and shaft length 380mm-1no Shears of 5mm thickness and shaft length 157mm-1no Ball probe-1n0. Hook probe of 5 mm thickness and shaft length 350 mm-1no. Cable for ultrasonic transducer -1no. ultrasonic transducer -1no. Foot pedal for ultrasonic generator-1no.	2	*Enseal (Johnson & Johnson) *Conviden force *Olympus	1000000/-	To perform open and laparoscopic surgeries with minimal invasion & complications.

9	Digital CO2 Insufflator	-Flow rate-1 to 30 lbs/min -Output connection 4to 5mm 1D tube -Maximum input pressure 7 BAR -Minimum input pressure 2 BAR	1	*Karl storz *Wolf *Olympus	160000/-	Needed as apart of Laparoscopic Hysteroscopy set.
10	D & C set	Hegar dilator – Spong holding forceps- 2 Curette – 2 Blunt Sharp- 2 Allie Forcep -2 Sims Speculm – 2 Anterior Vaginal Wall Retractor -1 Ovum Forceps-1 Vullsellum -1 Uterine Sound-1 Small Bowl- 2 Kidney Tray- 1	12	*Kallelkar surgical *Martin *Tuft *SISCO	3000/-	For performing or completing abortions taking a biopsy in cases of menstrual problems.
11	Electronic weight machine adult	 Should have an accuracy of 500 gms. Should be dial type having a magnifying lens to see the measurement. Should measure a maximum weight of 150kgs. Should have zero adjustment. Should bear Certification for each machine by department of legal metrology Weight & Measurement department of India. The tenderer shall submit copy of model approval issued by Govt. of India, Legal Metrology department along with technical bid. Should be Round shape of diameter 300mm 	2	*Smart *Every *Eagle *Optart *Citizen	8000-	For recording weight, monitoring weight gain during pregnancy.

		(minor variations will be				
		accepted)				
		7. Shall be made of Metal, epoxy powder				
		coated with rust proof parts.				
12	Electronic weight	Table top, light and portable.	2	*Smart	8000-	To take weight after birth and
12	machine Newborn	Built in rechargeable battery.	2	Smart	10000/-	for monitoring weight gain in
	machine Newborn	Hygienic, easy to clean baby tray.		*Every	10000/-	low birth weight babies.
		Acrylic (non metallic) baby tray. Reproducible weights.		*Eagle		
		Resolution of \Box 5 g (optional \Box 1 gm).		*Optart		
		Freeze reading display. Zero weight adjustment facility.		*Citizen		
		Quick, clear digital read outs.				
		Measurement does not change with position of				
		baby on the pan				
		Newborn units that manage babies				
		under 1000g in weight need weighing scale				
		with accuracy of 1 gm				
13	Vaginal	Galicups (M) - 2	5	*Kallelkar	12000/-	To perform hysterectomy (that
	Hysterctomy set	Kidney Trays (M+ Big)- 2		surgical		is removal of uterus).
		Sponge holders- 3		Sur grown		
		Needle Holder 2 (1 S+1 Big)- 2		*SISCO		
		6" curved artery forceps 1 set (6 No)-6		3.70 m		
		6" curved artery forceps 1 set (6 No)-6		*Martin		
		6" Allys forceps 1 set (6 No)-6 Babcocks 2 No.s- 2				
		Kockers (cd) forceps 2 Nos, straight 2-4 long cd artery (6 No)- 6				
		Long Allys forceps 1 set (6 No)- 6				
		Deavers retractor Small – 2				

Defination Video Recording System And Documentation Three Chip Camera head and Definition-1155lines Component -1xYPbPr *Sony *Composite-1xRCA/CvBs *Composite-1xRCA/CvBs *Video Format-H.264 AVCHD M2TS Image Format- JPEG File System-FAT32 *Karl storz *Wolf *Wolf *Wolf *Wolf			Kellys vaginal retractor -1 Suction Cannula – 1 Myoma Screw-1 Cross action towel clips- 8 Mohnians towel clips – 6 BP handels- 2 (22-1) Nontoothed dissecting forceps- 2 Ntoothed dissecting forceps- 2 Mayo's curved scissors- 2 Mayo's straightscissors- 1 Mosquito curved artery forceps – 6 nos Mosquito Straight artery forceps – 6 nos Metal Urethral Catheter- 1 Bladder sound 1 Sim's Speculum- 1 Miyas Hook Illuminated Sims Speculum wth fibre op attachement wth fiber optic cable Light Source (Halogen) 250 Watt				
Recording System And Documentation Three Chip Camera head and Recording System And Documentation *Sony *Olympus *Karl storz *Karl storz *Karl storz *Wolf *Wolf		0	HDMI-1XHDMI	1	*Wolf	25-30 Lacs	To record operations for
And Documentation Video Format-H.264 AVCHD M2TS Image Format- JPEG File System-FAT32 *Karl storz Three Chip Camera head and Definition-1155lines Camera head and Second Sec					*Sony		teaching purposes.
Documentation Image Format- JPEG *Karl storz *Karl storz 15 Three Chip Camera head and		.	*		*Olympus		
15 Three Chip Camera head and Resolution -3x752x582 Definition-1155lines Definition-1155lines *Wolf *Wolf	D	Documentation					
Camera head and Definition-1155lines hysteroscopy set.			File System-FAT32		*Karl storz		
Signal to noise ratio-75db Electronic shutter-1/100 000 sec. *Olympus		-	Definition-1155lines Sensitivity-0.18Lux Signal to noise ratio-75db	1	*Wolf	70000/-	As a part of Laparoscopic and hysteroscopy set.

16	Suction machine	HP Quarter (0.25HP) with all standard scope of supply Motor must be of Crompton Greave	8	*Karl storz *Wolf *Olympus	13000/-	For all cases to remove secretions and fluids.
17	Microscope binocular	Diopter adjustment rincg on ocular tube Built-in-base illumination system Eye piece- EWF 10XFOV 18mm Objectives- E-Plan Achromatic 4x -E-Plan Achromatic 10x -E-Plan Achromatic 40x (SL) -E-Plan Achromatic 100x oil (SL)	1	*Karl Zeiss *Olympus	1500000/-	As a part of infertility clinic setup.
18	Shadow less mobile side lamp for OT	single reflector mobile halogen OT Light completely spring balance with reserve halogen bulb. concealed transfer intensity control and main switch with voltmeter provided on front panel effective heat absorbing colour correcting felter provided for cool white and brilliant light field pre-treated epoxy powder coated light intensity –50,000 lux halogen bulb: 1 X 24V 150 W	2	*Phillips *Allenger	120000/-	To visualize the field during operations.
19	Spermfuge machine	 Adgustable brake three modes in accelaration & braking Different program for different application – RCF,RPM,Tube size, temprature, time for each program by a digital a cedar 	1	*Trivector Fornax (Shivani)	15000/-	For management of infertility cases male infertility.

21	Delivery set	9.25" Fcps Sterliz. Cheattle 20 cm.8" Fcps Sterliz. Cheattle 20 cm.10" Episiotomy Scissor - 1 Long Artery Forceps- 2 Sponge Holding – 2 Tooth Forceps Needle Holder – 1 Small tray for making delivery kits(SS)	25	*Kallelkar surgical *SISCO *Tuft	2000/-	At time of normal delivery to give incision on lower pait.
22	IVF Instrument	1- Binder Air Jacked CO2 Incubator with IR Sensor Special: Capacity 150 Ltrs Four Inner Glass Doors to saveloss of CO2 gas System to achieve Maximum relative Humidity & Dry Inner Walls Stainless Steel interior Standard Inner 4 Door Fan free Interior – Prevents building up of Germs Perforated shelves for uniform heat distribution Air Jacketed LCD Display Hot Air auto sterilization (187.5C) 2. Integrated Laminar flow hood with heated table the integrated Laminar system is Often built in vertical laminar flow cabinet. The utensils are warmed by heating A part of the table by means of special heat Exchanger	1	*Trivector *Shivani	12900000/-	To set up a test tube baby centre so that at minimal cost the poor and needy cases may get a child.

controlled	
3. Stereo Zoom Microscope	
Zooming Body	
With Diopter adjuster, rubber eye shield,	
reticle lead	
Diascopic stand C-Ds Diascopic stand S with	
reflecting lead	
Power Cord BE	
6 V- 20 W halogen lamp with reflector	
CDs- 33 mm NCB 11 filter	
4. Rocket of London Craft Ovum Aspiration	
pump with Foot operated Switch with	
Vacuum gauge & regulator	
Specification	
Low Pressure: 0-550mm	
Hg= 0-666	
Mbar	
Volume of overflow vessel: 2X100	
Connecting for aspiration tubing 2 to 4mm	
Power Supply : 230 V	
Power Frequency: 50/60Hz	
Power Point : 50 VA	
Nominal Current: 220 mA	
Power Line isolation: 0.315	
5. Indian Pressurizing Module	
Pressuring Module is used to create the	
positive inside culture lab	
Tech specification	
Pressure: 250 CFM	
Construction: Liminated board	
Filtration: 0.3 μ	
Efficiency: 99.97%	
Construction: S.S body	

6. Digital Cell Transporter with steel body
heating Block for heating of test tubes in
removable, autoclave anodized aluminum
blocks for maintenance of required temp.
Digital display & control of temp. with + 0.2C
accuracy from ambient to 11 c, 3 anodized
blocks of 75X 50X50 mm to accommodate
12X13 ml and 12X6 ml tubes.
7. Petri –Plate Prewarmer with Steel Body for
preheating of slides, Petri dishes, pipettes etc.
of desired temp.
Anodized aluminum heating plate
(Approx dimension 300 X100 X40mm)
Temp range: from ambient to 100°C with
accuracy of $+0.2^{\circ}$ C
8. Microscope Stage Warmer with Steel Body
for maintaining the temp of critical biological
specimens at desired level during microscopic
observation. An amodized plate of 10 mm
thickness with 50 mm central grove with glass
& 175 X 155 mm dimension which should fit
on most miscroscope stages.
Temp range ambient to 55°C with accuracy of
+ 02.0C
9. Coda Aero Air purification unit
Max Air flow: 530 CFM
Effective coverage: up to 350 sq feet
Application: more than 200 sq feet
10. CL2200 Freeze control from
CRYOLOGIC PTY LTD.
Controlled Rate Preprogrammed Freezer for
freezing Sparmer Operator Embras complete with
Sperms, Oocytes, Embros complete with

Preprogrammed Controller	
LN2 bath (Capacity 1.5 L)	
Carry case	
Standard Cryochamber to freeze 23 Straws of	
0.5 cc & 46 Straws of 0.25 cc	
Specification	
Temprature Controller	
Controlled Temperature range: 20°C & 43°C	
Temperature warning (ED or Sound): 1.5 ⁰ C	
deviation	
Temperature display : Digital. LCD, 0.1°C	
resolution	
Timing: Digital, Quartz Crysteal	
Internal Programms:	
Maximum number of fixed programs: 8 nos	
Others: continuous LN2 consumption/less	
than 1 Liter per hour	
Power consumption/less than 60 Watt	
Sperm/Embryo freezing	
TA- 26CRYOCAN, IBP make, 25.7 ltr	
Capicity with rubber ring & pad	
B) BA-11 CCRYOCAN, IBP make 10.7 ltr	
capacity with canisters (For large capacity)	
BA- 3 11 CCRYOCAN, IBP make 10.7 ltr	
capacity with canisters (For Carrying frozen	
specimen	
12. Doctors friendly Software	
Reprosoft SOFTWARE is designed to cover	
important areas in a fertility clinic	
It can be used in a LAN environment with	
multiple users. Degrees of access to individual	
user	
13. Inverted Research Microsoft: with	

any LLE Highly re Built in s Electrost modes – ,blend,co powerful coagulati assure qu Square L sterile,di Loop LL sterile,di Loop LL sterile,di Loop LL sterile,di Loop LL	attion ube D 25 Inclination angle, elector incorporated B/2.5*C/0 ductive instruments can be used with TZ/LLEP system eliable,autoclavable smoke tubes on all 'duckbil' specula. argery unit features 5 treatment purecut oragulation, fulgrationand bipolar I 120 watts purecut and 80watt ion modes reduce electrode draw and aicker coagulation LLETZ electrodes 1cm*0.4cm sposable,box of 5;shaft :13cm(5") ETZ electrodes 1*0.5 cm, sposable,box of 5;shaft :13cm(5") ETZ electrodes 1*0.5 cm, sposable,box of 5;shaft :13cm(5")	*ACE Medical Devices *UNIMAX Medical Systems Inc.	30000/-	To perform operation on cervix.	

		Loop LLETZ electrodes 1.5*0.5 cm, sterile,disposable,box of 5;shaft :13cm(5") Loop LLETZ electrodes1.5*1 cm, sterile,disposable,box of 5;shaft :13cm(5") Loop LLETZ electrodes1.5 *1.5cm, sterile,disposable,box of 5;shaft :13cm(5") Loop LLETZ electrodes2*1cm, sterile,disposable,box of 5;shaft :13cm(5") Ball LLETZ electrodes,3mm dia, sterile,disposable,box of 5;shaft :13cm(5") Ball LLETZ electrodes,5mm dia, sterile,disposable,box of 5;shaft :13cm(5")				
24	Obstetrics Labour table	Overall approx extended size 1880 mm length*9000 mm width*800mm height Three section-top backrest adjustable on rachet -middle section with' U' cut -Leg end section can slide completely under main frame Gas sparing assisted trendelenberg position SS head side railing,SS handgrips ,rubber padded SS lithotomy rods and SS bowl	4	*Staan *Janak	100000/-	Special table used to the time of delivery.
25	laparoscopy trolley & documentation	Overall approx size 680mmLx700mm Wx1570mmH - Suitable for keeping monitor light source camera unit printer and other peripheries of endoscope - 5 Shelve Top shelf of size 640X450 X(LXD) - Other four self size must be 510 mm L X 450D	1	*Karl Storz *Wolf	100000/-	To keep all the equipments related to laparoscopy in a proper systematic manner.

- Self must be adjustable at desire hight	
- Ms drawer at bottom	
-Aesthetically design vertical upright of	
aluminium extrusion & aluminium alloy base	
fitted with 125 mm imported castor wheel two	
with brakes	
Castor Housing & wheels made high grade	
non floor staining synthetic material with	
integrated thread guard wheel center having	
precision ball bearing to run smoothly	
Trolly must have provision for socket	
of S/15 amps – 230 Vac 3 pin plugs	
Each out put on- off switch with	
indicator & safety fuse	
Trolley must have provision for	
handless	
SS IV ROD & gas Cylinder cage mounted on	
swivel castors 50 mm dia	
All MS part are pre treated and powder coated	
finish	
Trolley must be supply with built in key board	
on shelves camera holder	
TV Monitor – 19 " preferably holder	