

SCHEDULE -1

ANEASTHESIOLOGY

SCHEDULE – 1A

a	Anesthesia machine boyle's apparatus with out ventilator	10
b	Ventilators for ICU	10

SPECIFICATIONS

a	Anesthesia machine boyle's apparatus with out ventilator	<ol style="list-style-type: none"> 1. Should have Two gas delivery low flow system (O₂, N₂O) with pipeline connections for O₂ & N₂O and reserve cylinder yokes (2 nos each)for N₂OandO₂. 2. Robust Metallic constructions with durable metal frame for easy mobility and should have high quality castor wheels and brakes. (Fiber body systems not preferred) 3. Should have antihypoxic device to prevent flows less than 25% 4. Should have 'tube cascading flow meter assembly (rotameters) 5. Color Coded pipeline fittings and pressure gauges for each gas 6. Pin Indexed yokes(2 for Oxygen and 2 for N₂O), regulators and content gauges for cylinders 7.Common gas outlet with emergency O₂ flush and safety blow off valve set below 50 cm H₂O 8. Digital Patient airway pressure monitor 9. Oxygen failure alarm (audio visual) with N₂O cut off and O₂ reservoir 10. One vaporizers Online facility (Selectatec 7 or equivalent) 11. Non return valve fitted to back bar protect 12. Vaporizer from back pressure 13. Drawer Storage Unit (2 nos) 14. Overhead monitor shelf 15. writing tray
b	Ventilators ICU Ventilator	<ol style="list-style-type: none"> 1. Should be electrically powered, computer controlled ICU ventilator for use on Adult and Pediatric patients. 2. Must offer CPAP/PEEP/PSV/CMV/Assist/SIMV under volume and pressure controlled modes and pressure support. 3. Must have built in Nebulizer 4. Should have variable Trigger facility with provision for both pressure and flow trigger mechanisms. 5.Must have inbuilt oxygen blender with Fio₂ Monitoring. 6. Should have Built in color TFT display screen greater than 10.4" clear visibility. 7. Must have real time Pressure/ Flow waveforms, PV loops and Lung Mechanics calculation. 8. Should indicate set and delivered parameters.

	<p>9. Independent alarm facility for all critical parameters.</p> <p>10. Unit must conform to relevant general and safety standards.</p> <p>11. Should have a good quality medical grade air compressor.</p> <p>12. Should have a good quality medical grade air compressor / turbine technology</p> <p>13. Heated humidifier with digital temperature display and autoclavable chamber.</p> <p>14. ISO & CE/FDA should have certified.</p>
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SCHEDULE – 1B

a	Monitors a) Multipara Monitors 1. Regulator multipara (SPO2 HR, NIBP, ECG) 2. Higher End multipara (SPO2,HR,NIBP,ECG,ETCO2,CO Capnography)	30 10
b	OT Tables a.)Remote control 5 Piece table with accessories with ortho accessories b) Regular hydraulic still table 5 piece OT tables with accessories	4 12
c	Infusion & syringe pumps	25+20
d	Auto Claves –Vertical- 35Lt ,300x500mm-2 - 75Lt , 400x600mm-2 Horizontal pressure Autoclave- 215Lt , 500x1100mm -1 - 485Lt ,750x1100mm -1	2 2 1 1
e	Fiber optic laryngoscope	1

SPECIFICATIONS

a	<p>Monitors</p> <p>b) Multipara Monitors</p> <p>1.Regulator multipara (SPO2 HR, NIBP, ECG)</p> <p>2.Higher End multipara (SPO2,HR,NIBP,ECG,ET CO2,CO Capnography)</p>	<ol style="list-style-type: none"> 1. Minimum 12.1 colour TFT display with 8 wave forms. 2. Capacity to measure ECG,SPO2, NIBP, TEMP, Respiration. 3. Adult, Pediatric and neonatal applications 4. SPO2 pulse-tone variation. 5. Minimum 90 HRs graphic and tabular trends for all parameters. 6. ST alarm events recall facility. 7. Minimum 50 arrhythmia events with waveforms recall. 8. Optional Built in thermal recorder. 9. Detachable batteries with minimum 2 hrs operating time. 10. Light weight less than 5 kg. 11. Oxy CRG software package and Drug dose calculation is a must. 12. PR range of 20 to 250 BPM 13. Electro surgical and defibrillator protection. 14. Over pressure protection in NIBP. 15. Up gradable to IBP, ETCO2, and CO, 16. ISO & CE/FDA should have certified. 17. Should be net workable. <p><u>System should supply with:</u></p> <ol style="list-style-type: none"> 1. 5 Lead ECG cable -01 no. 2. SPO2 adult and neonatal probes -01 each 3. NIBP adult and Pediatric cuff -01 each 4. Operating manual 5. Temperature prober-01 no.
b	<p>OT Tables</p> <p>a.)Remote control 5 Piece table with accessories with ortho accessories</p> <p>b) Regular hydraulic tiltable 5 piece OT tables with accessories</p>	<ol style="list-style-type: none"> 1. Should be an Electro Hydraulic operation table. 2. Should meet the needs of general Gynecology and major surgery. 3. Table top must have a longitudinal sliding feature of at least 300mm. 4. Should be and imported table of international standard. 5. Head rest should be raised / lowered 30 deg/ 90 deg and foot rest should be raised and lowered 0 deg /90 deg and should be able to remove manually. 6. Back plate should be raised and lowered electro-hydraulically which be 60 deg / 30 deg. 7. Trend lenburg and its reverse should be possible and it should be 26 deg and 26 deg. 8. Should be a five section table with split leg plates. 9. Table up and down movement by Electro hydraulic system. 10. Should be able control all electromotive hydraulic

		<p>motions by means of a hand controller.</p> <ol style="list-style-type: none"> 11. Should be C-arm compatible table with radio translucent table top. 12. All standard accessories should be listed out. 13. Should also include leg crutches / lithotomy positioner for positioning during gynaec surgeries as standard accessories a fixtures table (Orthopedics). 14. Should have built-in kidney bridge. 15. ISO & CE/FDA should have certified.
c	Infusion & syringe pumps	<ol style="list-style-type: none"> 1. It should be a high quality volumetric infusion pump. 2. Large LCD display of atleast 8 ms. 3. Compact size, Light weight < 4 kgs. 4. Flow rate setting scale from 1 to 1200 ml/hr 5. Infused volume display. 6. Integrated ultra sound bubble detector. 7. High quality mini pressure block detector. 8. Built in rechargeable battery backup atleast 4 hrs . 9. Should be used with any standard I. V tubing. 10. Suitable for pediatric 1 adult infusions. 11. Audible and visual alarms for following parameters, Target volume, Target time, Excess flow, less flow, Battery low, Keep Vein Open. 12. Keep Vein Open - (1 to 5 mllhr in steps of 0.1 mllhr). 13. Adjustable Bolus rate 600/800/1000/1200 ml/hr 14. Infusion rate in mllhi or drop / min 15. Occlusion alarm threshold Atleast five. 16. ISO & CE/FDA should have certified. <ol style="list-style-type: none"> 1. Programmable to accept any brand of Syringes 2. Automatic syringe size detection 3. Accepts 10,20,30 50 & 100 mL syringe 4. 0.1mLIHr to 420mLIHr flow rate 5. Should be programmable during infusion 6. Target volume setting 7. Target time setting 8. KVO (Keep Vein Open) facility. 9. Programmable modes atleast five. 10. Infused volume display 11. Elapsed time display 12. Should have PCA feature. 13. PCA time duration display 14. Built in rechargeable battery 15. Bolus function 16. Variable occlusion pressure 17. ISO & CE/FDA should have certified.
d	Auto Claves –Vertical/Horizontal pressure Autoclave Sterilizer capacity 3Bin	<ol style="list-style-type: none"> 1. Chamber , Ltd & outer cover constructed from Stainless Steel 8/10 Grade 2. Lid closing by means of wing Nuts

		<p>3. Sealing of lid with chamber Neoprene / Silicon rubber gasket</p> <p>4. Chamber insulated by mineral ?Glass Wool</p> <p>5. Over pressure safety by means of pressure Switch & safety valve</p> <p>6. Continuous monitoring of pressure & Temperature</p> <p>7. Water level indicator with Automatic Cut off as safety device in case of low water</p> <p>8. Sterilizing Temperature : 121°C ? 134°C</p> <p>9. Tested upto 2.5 times of required pressure</p> <p>10. Voltage: 220 VA/C (50 Hz)</p> <p><u>Horizontal</u></p> <p>1. High grade strong Stainless steel Triple walled Construction</p> <p>2. Positive radial self- locking safety doors</p> <p>3. Complete sterilizing cycle is controlled by means of “Multiport Valve”</p> <p>4. Hydrostatically tested to with stand 2.5 times the working pressure</p> <p>5. Sealed with Neoprene / Silicon long –lasting & durable Gasket</p> <p>6. Analog display for jacket & Chamber Pressure & temperature</p> <p>7. Outer jacket insulated to prevent heat loss</p> <p>8. Mounted on tubular mild steel frame with ground leveling flanges</p> <p>9. Working Temperature 121°C -12 bar</p> <p>10. Power Supply : 440V.3 Phase</p>
e	Fiber optic laryngoscope	<p>1. Total length minimum 500mm</p> <p>2. Working length minimum 300mm</p> <p>3. Apical part Dia 6.0mm</p> <p>4. Flexible part dia 6.0mm</p> <p>5. Angle of Vision (Forward) 60 Deg / Down 180 Deg</p> <p>6. Depth of focus 5 -50mm</p> <p>7. with suction channel.</p> <p>The whole scope should be water proof / Water tight for easy cleaning and sterilization. The whole scope could be immersed totally in the cleaning liquid and water.</p> <p><u>STANDARD ACCESSORIES</u></p> <p>Should be supplied with a light source of dual lamps (One Xenon Lamp of 75 watts and a halogen lamp of 150 watts). For better observations and good visibility. The dual lamps should be operated singularly or together.</p>

SCHEDULE -1C

a	Cardiac defibrillator with ECG monitor Biphasic	5
b	OT lights- Major OT Minor OT (Higher End-8)	7 13
c	Electro cautery	5
d	Electric vacuums suction apparatus with 700 switch Electric Foot operative	10 10
e	Spirometer-Lap top Tech	3

SPECIFICATIONS

a	Cardiac defibrillator with ECG monitor Biphasic	<ul style="list-style-type: none"> • The machine should have facility for ECG monitoring, Defibrillation, external pacing & recorder. • The defibrillator should be biphasic technology based having energy selection of 1-360 Joules preferably based on rectilinear biphasic waveform. • It must be capable of monitoring ECG through ECG cables, Multi-function electrodes and paddles. • The monitor must be a 3-channel monitor with ECG as the first trace and an option of choosing EtCO₂, or SpO₂ as the second trace. • The machine should be able to defibrillate Adult, Pediatric patients. • The machine should have ECG wave form display on bright screen along with other vital numeric information. • The machine should be compact, Portable with built in rechargeable battery, weight of the total machine should not be more than 6kg. • The machine should have inbuilt recorder for printing ECG trace & stored information • The machine should have capability for providing internal defibrillation shocks. • The machine should be upgradeable to vital sign parameter such as NIBP, Mainstream EtcO₂, Massimo SET Spo₂ & 12 Lead ECG. • The machine should have user selectable alarm settings / touch screen • The machine should work on mains as well as rechargeable battery. • It should have PCMCIA Data card / USB for patient Date Storage. • The machine should be supplied with all the accessories including multipurpose electrodes . should have ISO & CE/FDA certified .
b	OT lights- Major OT Minor OT (Higher End-8)	<ol style="list-style-type: none"> 1. ISO & CE/FDA should have certified. 2. dual dome system with suspension arm system with capability of revolving 360` freely. 3. Color temperature should be preferably 4300k 4. Each dome brightness of light should measure 9,300ft. candle(1,00,000 lux each)

		<p>5. Light should be of dome type(Single bulb with multi facet reflector technology) and should be suitable for laminar flow theatres.</p> <p>6. Should have a secondary bulb inbuilt with automatic switchover, incase of primary bulb failure.</p> <p>7. There should be an indicator if the bulb fails.</p> <p>8. Life of the bulb should be atleast 1000hrs.</p> <p>9. Should have inbuilt advanced heat sorb filters to filter 95% of heat generated and provide cold light.</p> <p>10. Temperature increase at surgeons head should be lesser than 2 deg.</p> <p>11. Maximum dept of field without refocusing should be 70cm(27.6``).</p> <p>12. Maximum height adjustment of light head should be 118cm</p> <p>13. More preferably, the mechanical movement should be designed in such a way that the light head can be positioned parallel to the height of the table.</p> <p>14. 1 Extra bulb and 2 sterile handles to be supplied.</p>
c	Electro cautery	The waveform should represent the current in sinusoidal and tipified by unmodulated amplitude and high spectrum purity, and should be totally free from overlapped modulations, which as is it known will cause unwanted coagulation effects, by inducing higher lateral heat on the electrode
d	Electric vacuums suction apparatus with 700 switch Electric Foot operated	
e	Spiro meter-Lap top Tech	<ul style="list-style-type: none"> • The Model should have Bi Directional Digital Turbine • It Should have 14 Liters of volume range • It should have 0.03-201 ts/sec of flow range • It should have flow accuracy of +-3% • It should have user selectable predicted values • It should conduct pre & post tests • It should conduct std tests FVC,SVC,MVV with pre & post medications • It should give provocation for methacholine broncho-challenge • It should have provision for both adult & pediatric blow caps

		<ul style="list-style-type: none"> • It should be compatible with pc having windows98 & above • It should store test conducted on HDD of pc provided & should be able to recall any previous tests when required • It should be handy in nature • It should be able to give print outs of tests conducted • It should give pre & post graph on same window <p><u>Specifications for Computer :</u> Processor : Intel Pentium core duo dual core 2.8 G HZ Intel Mother Board (GA-81865) 1GB DDR RAM 160 GB Hard Disk 17" Monitor Key Board Mouse FDD 52x Combo Drive Should have at least one serial port</p>
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SCHEDULE -2

DEPARTMENT OF MEDICINE

SCHEDULE – 2 A

a	Single channel ECG Machine	5+2+8=15
b	3 Channel ECG Machine	5+2=7

SPECIFICATIONS

a	Single channel ECG Machine	<ul style="list-style-type: none"> a. Single channel ECG Recording b. Last Memorised ECG Recording and c. Additional copies Available d. Automatic and manual recording modes e. Dual power supply :Mains & Battery Operation f. Thermal printing on 50 mm paper g. Compact design, Light weight & portable
b	3 Channel ECG Machine	<ul style="list-style-type: none"> 1. Simultaneous 3 channel ECG recording with 12 lead Simultaneous acquisition with auto summery 2. Bult- in ECG Parameters Measurement and Interpretation 3. Wide screen LCD display of patient's Demographics and real time ECG data option 4. Light weight desion for Portability 5. High Performance Rechargeable Batery 6.Power line safe Desion , can be suited to both power line as well as Battery 7.Digital Filtering to Remove Interference form power line muscle Tremors Etc, with automatic base line Correction 8.100ECG built in memory 9. USB storage (optional)

SCHEDULE - 2 B

B	a. TMT Machine	01
	b. ECHOCARDIOGRAM Machine	01

SPECIFICATIONS

a	TMT Machine	<ul style="list-style-type: none"> • Should have Multiple Display modes, as selected by the user. • Should have digital sampling of 2000samples/sec/channel • Should analyze 12 simultaneous leads for resting and stress ECG • Should be able to show 12 leads rhythm display simultaneously • Should incrementally update median beats by each incoming beat with close comparison with reference beats • Should have Full- disclosure Test saving • Should have colour coding of normal , supraventricular early, pause, noisy beats • Should be able to detect principal arrhythmias like VEB, SVEB,CPT,VT,SVT,SVS,BRA,DEL,AFIB,ESC,IVR, AIVR, PAU,DEL • Should have Morphological classifications of Normal beats ventricular beats • Should have Advanced RR analysis in the form of RR techogram • Should have Simultaneous and independent analyses of the ST & QT segment on the 12 leads : maximum ST depression maximum ST elevation , ST & QT trend on all 12 leads • Should have Alarms for Arrhythmias electrode detached acquisition device message ergometer message • Should have Real time printout on Windows laser printer • Should have print options for programmed printout every minute or every step programmed printout every minute of every step • Should have print format of 12 channels + AVG, 6+6+AVG, 12 channels & 6+6 • Should have fully automatic Ergometer management &
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		<p>Extensive list of compatible treadmills & cycloergometers</p> <ul style="list-style-type: none"> • Should have Extensive list of defining & saving custom protocols for cycloergometer, treadmill or generic • Should have optional advanced analyzer RR variability in time & frequency domain Ventricular & supraventricular late potentials analysis vectorcardiogram • Should have fully customizable print document • Should have Automatic archiving of tests in database (optional DVD backup in the SW package) • Should be capable of Exporting & transmission by e-mail of final document in PDF or text format • Should be able to upgrade the software for Holter ECG & resting ECG on the same platform • Should be supplied with PC, Printer , Computer stand , UPS & Stabilizer for Treadmill • Should have good installation base
b	ECHOCARDIOGRAM Machine	<p>a. State of the art fully digital, latest generation high and technology advanced, electronic phased array transthoracic 2-d with color Doppler with Peripheral Doppler Echocardiography Machine</p> <p>b. Should have the following applications (all application packages should be integrated and built into the system).</p> <p>Adult and pediatric Tran thoracic 2-D with color Doppler Echocardiography Faculty for ii.image guided Biopsy Stress Echocardiography Contrast Echocardiography Peripheral Vascular Echocardiography Tissue Doppler Echocardiography Tissue Harmonic Imaging Capability having following harmonic modes:- Tissue harmonic Contrast Harmonic Harmonic Angio Quantification of Harmonic imaging Should have advanced cardiac features like Automated Ef, CO, Calculation and strain quantification</p> <ul style="list-style-type: none"> a. Fully adjustable , flicker free at least 15 inch flat panel high resolution color monitor b. System architecture should be designed to simultaneously process the entire bandwidth and broad –band transducers-frequency from 1MHz to 15 MHz c. System should support phased array convex and liner array transducer technologies

		<ul style="list-style-type: none"> d. System must be capable of acquisition of frame rates upto 300 frames/sec e. Should have optimal frame rates for better resolution during 2-D color imaging and cine loop review f. Imaging modes -2-D. M-Mode. Steerable PW/CW Doppler (in all phased array transducers) with high sensitive color flow. g. High definition acoustic zoom for enlarging section of 2-D and color flow images with more acoustic information for greater clarity and detail while maintaining an optical frame rate .No image reduction while coupling with M-Mode. h. Color flow imaging for :- Increased lateral and spatial resolution Detection of even subtle areas of turbulence displaying a more physiological blood flow appearance without loss in frame rate. Color flow with capability of automatically picking up color as a function of focal depth Color Angiography i. System must allow high frame rate acquisition of tissue motion (up to 250fps) System must be capable of assigning high resolution 2-D and Tissue Doppler from the pulse to achieve high frame rate. j. System should allow strain quantification , Tissue Doppler Imaging (TDI), Velocity mode quantification the myocardial velocity and derives the strain rate and strain along user defined M-lines k. The System shall provide 180dB full time input dynamic range. l. Color kinesis (CK) tool for displaying semi- automated borders over time parametrically. m. Cine –loop memory –preferably more than 120 MB high grade. n. ECG triggering facility. o. Interactive self test facility. p. Facility for software revisions and up-gradations. q. Omniplane TEE imaging capacity with tissue harmonic imaging small tip size bne capable of use even in pediatric patients. r. Acoustic quantification and Color kinesis for objective quantitative assessment of cardiac function including LV volumes for real time beat to beat ejection fraction and other parameters. s. 3 Transducer ports for simultaneous use. t. Advanced quantification in cardiac 2-D quantification Region of interest quantifications. Automated intimae –
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		<p>media thickness and strain quantification.</p> <ul style="list-style-type: none"> u. Single button automated optimization of TGC gain and compression level system performance. v. Single button automated optimization of Doppler , PRF and baseline for optimal Doppler waveform display w. System should have indult image management facility with facility for direct storage of images and ops in the hard disc drive and also thump nail review to view and edit images loops and reports should also have onscreen recall measurement and text editing facilities. x. System should have facility to transfer images to DVD – RW, CD-RW Must support JPEG format DICOM format AVI format for loop storage transferred images must be viewed on PC without any need of special software y. System should have retrospective capture of up to 5 seconds While in live imaging. z. System shall support acquisition storage in local memory and display in real time and duplex modes of more than 2000frames. aa. Should be up-gradable to next generation system on site ab. System should have direct connectivity for lnk jet (b/W or colored) printer ac. Should have a built in digital archival systems for image storage and archival with reporting facilities .the images should be stored and analyzed with true frame rates extensive post processing re-measurement analysis generation of new reports magnetic optical disc CD and floppy drives should be available ad. System should have networking facility as standard ae. Should have facility for color power Angio highly sensitive mode for small vessel visualization with cine loop review with controls for gain filters sensitivity af. Should have 80 GB or more of storage capacity. ag. Transducers:- Electronic phased array probes with frequency range of 1.0-12 MHz with 2-D, M-Mode steer able PW, CW&HDCFI capability Linear array with terpezoid display with frequency range of 3.5 MHz & more Convex array capability with 2-D, M-mode , PW&CFM ah. System Peripherals S-VHS-VCR with calculation facility on play back Colored Thermal Printer with print command from machine key-board ai. System should be quoted with the following items Adult cardiac electronic phased array probe (Broadband)
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		<p>1.9 MHz C/W probe Pediatric cardiac electronic phased array probe (Broadband) aj. Trapezoidal/ Linear probe for Vascular application Quad loop for serial studies with high frame rate review harmonic imaging capability in al modes(tissue, contrast, angio) ak. Color printer – image acquired on computer with high resolution print out on plain paper Integrated stress Echo package Digital storage & retrieval latest Pentium PC,CD,DVD writer with image management software & color laser printer Latest color thermal printer 3KVA online UPS with a back up to of 30 minutes minimum from any reputed brand (APC& Tata liebert)</p>
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	Metzenbaum Scissors 145 mm-1	
	Baby mosquito forceps St -6	
	Baby mosquito forceps Curver -6	
	Baby mixer forceps -4	
	Metzenbaum Scissor Straight TC tip 180mm-1	
	Adson dissecting forceps 125 mm plain-1	
	Adson dissecting forceps 125m toothed -1	
	Needle holder 140 mm-1	
	Baby crile wood needle holder TC 150 mm-2	
	3. Retractors self retaining:	
	Gilles skin hook 185 mm	10
	Double hook retractor	10
	Jolly thyroid retractors-230mm	2
	Jansen self retaining abdominal retractors 4x4	4
	Cameron's self retaining retractor	4
	Thompson Walker's bladder retractor	2
	Millan retractor with 5 blade frames 55mm-25mm 80mm	2sets
	Rangabhasyam vagotomy retractor	2
	Langen back retractor 25mmx6mm	10
	Langen back retractor 35mmx15mm	10
	Langen back retractor 40mmx11mm	10
	Langen back retractor 65mmx25mm	10
	Langen back retractor 90mmx20mm	10
	Langen back retractor 55mmx22mm	10
	Langen back retractor 70mmx15mm	10
	Langen back retractor 30mmx10mm	10
	Langen back retractor 55mm11mm	10
	Langen back retractor 80mmx16mm	10
	Langen back retractor 40mmx30mm	10
	4. Suture removal set	30set
	5. Venesection set	10set
	6. Incision and Drainage set	10 set
	7. Suturing sets	30set
	8. Others:	
	Right angled forceps 4 inch 100mm	6
	Right angled forceps 6 inch 150mm	6
	Right angled forceps 8 inch 200mm	6
	Furgusson suction tip size 2	5
	Furgusson suction tip size 4	5
	Suprapubic trocar cannula 8mm	2
	Suprapubic trocar cannula 10 mm	

	Amputation saw 240 mm blade	2
	Finger saw bladder length -100mm	2
	Payer's gastrectomy clamp 110mm(med jaw)275	2
	Desjardin gall bladder forceps 4.3mm of two each	
	Desjardin gall bladder forceps 3.8mm of two set	
	Varicose vein stripper	6
	Nephro – lithotomy forceps	4
	Malleable prode with eye 125mm	6
	Malleable prode with eye 150mm	6
	Gabriel Syrienge	10
	St, marks hospital rectal dilator 20mm	6
	St, marks hospital rectal dilator 25mm	6
	Proctoscopes – adult	10
	Proctoscopes – pediatric	10
	Thyroid dissector 170mm	4
	Gigli saw with handle	4
	Fine tipped Kelly's steeps	4
	Smith's anal speculum – Adult	4
	Pediatric	4
	9. <u>Vascular Clamps:</u>	
	Bull dog clamps	10
	Debakey vascular clamps	10
	Satinsky vascular clamps	10
	Kocher's artery forceps small- St	10
	-----do-----small- curved	10
	-----do-----medium St	10
	-----do-----medium curved	10
	-----do-----heavy St	10
	-----do-----heavy curved	10
	Kocker's forcepes with longitudinal ridge 20.5cms	50
	Kocker's forcepes with transverse serrations 20.5cm coverd	50
	Kocker's forcepes with transverse serrations 20.5cm St	100
	Doyen's retractor	10
	10. <u>Intestinal Clamps:</u>	
	Moyinhan's stomach clamps	4
	Doyen's stomach clamps atraumatic jaw curved	10
	Doyen's stomach clamps atraumatic jaw curved St	10
	Payer's stomach clamps large 145mm jaw	4
	Lane's Gastro- jejunostomy clamps	4
	Kocher's stomach clamps curved	4
	Kocher's stomach clamps curved St	4
	Neonatal intestine clamps St.	4
	Neonatal intestine clamps curved	4

		Pediatric intestinal clamps St.	10
		Pediatric intestinal clamps curved	10
		Loyd davis rectal clamp 315 mm	4
		Vasectomy dissection forceps 125mm	5

SCHEDULE -3B

a	Ultrasound and colour Doppler with tissue harmonic imaging	01
b	Cystoscope with accessories	01
c	Operating Laparoscope set	01

SPECIFICATION

a	<p>Ultrasound and colour Doppler with tissue harmonic imaging</p>	<ul style="list-style-type: none"> a. System must be the state of the art models all digital beam former with super computed signal processing and clinically proven imaging technologies. b. System must have a minimum of 1000 digitally processed channels per image frame. Technical data sheet should be enclosed in technical bid to support the number of channels of the system c. System must have frequency compounding facility. This technology should split the returning broadband signals into at least four individual sub – bands and process these signals parallel and independently for uniform image quality. Any technology which has separate processing of individual bands of returning frequencies (at least 4) for uniform image quality in cardiac imaging may also be offered. Processing technology in technical bid should be highlighted. d. System must have the following applications: General radiology, Vascular, OB/GYN, Musculoskeletal, Adult cardiac, Pediatric cardiac, TEE applications etc. e. System must have the PW, CW and Directional color power angio facility. f. Frequency processing facility for the transducers should be 2-15 MHz this must be available without the need for frequency switching. g. System should have 256 gray shades. h. Independently selectable gain control in lateral plane. (Better technology can also be offered). Independently selectable gain control in lateral plane. (Better technology can also be offered). i. Triplex imaging should be standard on the system. j. System must have an acquisition frame Frame at least 200 frames/Second. Acquisition frame rate should be Clearly mentioned in the technical quote.
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		<p>k. Cine loop review facility: Should be able to acquire and display up to 1000 frames Of 2D and color images for retrospective review and image selection.</p> <p>l. Must have single button control for automatic optimization and adjustment of TGC and receiver gain to achieve optimal uniformity of image quality and faster scans. This should be demonstrated to the users in vascular exams during technical discussions.</p> <p>m. Enhanced Tissue Harmonic imaging should be standard on the system. This should be based on a real time digital signal storage and phase cancellation technique to enhance axial and contrast resolution.</p> <p style="padding-left: 40px;">b. Electrograph Imaging</p> <p>n. The system must be capable to Detecting harmonics agent signatures.</p> <p>o. Linear array imaging with expanded field of view on both side of linear image. Siescape imaging should be standard on the system.</p> <p>p. Pulse wave and color tissue Doppler imaging must be standard on the system.</p> <p>q. Must have a active imaging transducer Ports with electronic switching.</p> <p>r. PW Doppler facility in all imaging Phased array sector transducer.</p> <p>s. System must have Automatic real-time Doppler tracing for real time measurements of Doppler parameters.</p> <p>t. On – board image Management.</p> <p>a) Storage - Should have greater than 20000 image storage facility in the system hard disk Drive. System should have extensive image management capability including thumb nail review cine loop editing Etc.</p> <p>b) Archive – Should have facility to transfer images to an integrated CD writer, Without any DVD/Pen drive interfacing. Specify if integrated CD writer is available in your technical quote.</p> <p>c) Print – should have direct connectivity to inkjet printer for printing images and report.</p> <p>d) Full functional measurement facility and calculation should be possible.</p> <p>System must be quoted with following transducers: 1.2-5 MHz curved Array Broadband transducer for General imaging. Must have Tissue Harmonic imaging. Should attach</p>
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		<p>technical data sheet of transducer to specify. 2)5-8 MHz Curved Array broadband transducer for general imaging. Must have Tissue Harmonic imaging. Should attach technical data sheet of transducer to specify. 3)5-12 MHz Broadband sector Array transducer for Neonatal cardiac imaging. Should attach technical data sheet of transducer of specify. 4) High frequency linear transducer (510 MHz or more) for Doppler study. 5)3.5 – 5MHz ECHO Transducer System should be supplied with following peripheral devices: 1)Thermal B/W Printer 2)2 KVA UPS. Online Demo should be Done at HIMS provision should be Available for or 4D imaging. For 4 D imaging/4D Doppler</p>
b	Cystoscope with accessories	<ol style="list-style-type: none"> 1. Forward oblique – Telescope 30O, enlarged view 4mm autoclavable fiber optic light transmission incorporated color code:red 2. Cystoscope – Urethroscope sheath 17Fr with obturator and 2LUER - Lock adaptor, color code: yellow 3. Cystoscope – Urethroscope sheath 22Fr with obturator and 2LUER - Lock adaptor, color code: blue 4. Telescope Bridge with 1lockable instrument channel 5. Optical short jaw biopsy forceps, double action jaws for use with HOPKINS forward Oblique Telescope 30O 6. grasping Forceps for removal of forging bodies 7Fr double action jaws flexible length 40cm 7. Scissors 7Fr single action Jaws, flexible length 40cm 8. working element set consisting of :27040 E 1 working Element (also for use with optical urethrotome) cutting loops 2 coagulating Electrodes 2 high Frequency cords1 Protection tube motion by means of a spring .the thump support is movable .In rest position the electrode is inside the sheath. 9. Resectoscope sheath including connecting tubes for in –and outflow, 26Fr oblique beak fixed inner tube with ceramic insulation for use with working elements and color code: yellow 10. SCHMIEDT visual obturator for use with sheaths 24/26 Fr 11. cutting loop angled 24Fr color code:yellow (pack of 6nos)

		<ol style="list-style-type: none"> 12. Coagulating Electrode pointed 24Fr color code:yellow (pack of 6nos) 13. Coagulating Electrode ball end diameter 3mm 24Fr color code :yellow (pack of 6nos) 14. SACHSE, Urethrotome Sheath 21Fr with Channel for Filiform – Bougics and 2 LUER – lock adaptors 15. Telescope bridge with channel for instruments 5Fr 16. 16. SACHSE, Cold knife straight (not to be used with HF- current) (pack of 6Nos) 17. Cold Knife, round, (not to be used with HF- current) (pack of 6Nos) 18. Fiber optic light cable diameter 3.5 mm, length 230cm 19. Formaline Chamber 20. Cidex Tray
c	Operating Laparoscope set	<ol style="list-style-type: none"> 1. Straight Forward Telescope o. enlarged view, diameter 10mm, length 31cm, autoclavable, fiber optic light transmission incorporated. Colour code: green 2. Trocar, size 11mm, colour code: green, consisting of: Trocar only, with pyramidal tip Cannula without vavle, with insufflation stopcock, length 10.5cm Multifunctional valve 3. Trocar, size 6mm,consisting of: Trocar only, with pyramidal tip cannula without valve, with insufflation stop-cock, length 10.5cm multifunctional valve 4. Reduction Sleeve, 11/5mm 5. VERESS pnemoperitoneum Needle with spring loaded blunt stylet LUER -look, length 15Cm 6. VERESS pnemoperitoneum Needle with spring loaded blunt stylet, LUER -lock, lenght13cm 7. Dissecting and Grasping Forceps, rotating, with connector pin for unipolar cogulation,size5mm, length 36cm,double action jaws, consisting of: plastic Handle, without ratchet outer Tube, insulated Forceps Insert 8. Grasping Forceps, Rotating, with connector pin for unipolar Coagulation, size 5mm,length 36cm,2x4 teeth, double action jaws, consisting of: Plastic Handle, with hemostat style ratchet outer Tube, insulated Forceps insert 9. Take-apart Bipolar Forceps, width of the jaws 4mm, serrated, size 5mm.lenght 33cm,consisting of spring handle outer Tube Tube forceps insert 10. Bipolar High Frequency cord with 2x4 mm banana-plug to coagulator lange 300cm 11. Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size5mm,

		<p>length 36cm, heavy, double action jaws, consisting of: Plastic Handle, with hemostat style ratchet outer tube, insulated Forceps insert</p> <p>12. Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5mm, length 36cm, atraumatic, fenestrated, double action jaws, consisting of: Handle, with hemostat style ratchet outer Tube, insulated Forceps insert</p> <p>13. Scissors, rotating, size 5mm, length 36cm, serrated, curved, conical, with connector pin for unipolar coagulation, double action jaws, consisting of: Handle, with hemostat style ratchet outer Tube, insulated Scissors insert</p> <p>14. Scissors Insert, with serrated jaws, curved, conical, double action jaws, size 5mm, length 36cm</p> <p>15. Hook scissors, rotating, with connector pin for unipolar coagulation. Size 5mm, length 36cm, single action jaws, consisting of: Plastic Handle, without ratchet outer tube, insulated scissors insert</p> <p>16. Scissors, rotating, with HF-connector-pin. Size 5mm, length 36cm, single action jaws, slim, serrated, consisting of: Plastic Handle, without ratchet outer tube, insulated insert</p> <p>17. Suction and Irrigation Tube, anti-reflex surface with two way stopcock, for single hand control, size 5mm, length 36cm</p> <p>18. Coagulation and dissecting Electrode, L-shaped, with connector pin for unipolar coagulation, size 5mm, working length 36cm</p> <p>19. Coagulation and dissecting Electrode, spatula-shaped, blunt with connector pin for unipolar coagulation, size 5mm, working length 36cm</p> <p>20. Monopolar High frequency cord with 4mm plug for HF-unit models and Erbe type T, Older models: length 300cm</p> <p>21. Dismantling Fan Retractor, distensible, size 10mm, length 36cm.</p> <p>22. Fiber Optic light cable, size 4.8 mm, wavel 250cm, heat-resisting</p> <p>23. Claw Forceps, rotating, size 10mm, length 36cm, 2x3 teeth, single action jaws, consisting of: Metal Handle, with hemostate style ratchet 33500 outer Tube, insulated Forceps insert</p> <p>24. BABCOCK Grasping Forceps, size 5mm, length, 36cm, with connector pin for unipolar coagulation, automatic, jaws with multiple teeth, fenestrated, single action jaws, consisting of:</p>
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		<p>plastic handle, without ratchet outer tube, insulated forceps insert</p> <p>25. Needle Holder. Ergonomic handle with ratchet, right curved jaws, with tungsten carbide insert. Size 5mm,length 33cm,for use with suture material 0/0-7/0</p> <p>26. MANHES high frequency needle for spilting and coagulation, insulted with connector pin for unipolar coagulation, size 5mm length 31cm</p> <p>27. Clip Applicator foruse with pilling-week titanium clips (medium large), dismantling. Rotating, with ratchet to lock the jaw part holding the clip. size 10mm.lenght 36cm.consisting of: 3metal handle, with ratchet metal outer tube insert</p> <p>28. Horizon lighting clips 6 clips in each (box with 20 catridage,6clipsin each)</p> <p>29. MANHES High frequency needle, for spilting and coagulation, insulated with connector pin for unipolar coagulation, size 5mm.lenght 31cm</p> <p>30. Biopsy punch forceps, rotating, with connector pin for unipolar coagulation, size 5mm,length 36cm,with two teeth, single action jaws, consisting of: plastic handle ,without ratchet outer tube, insulated punch insert</p> <p>31. Myoma Fixation instrument screw shaped,5 mm</p> <p>32. Needle Holder, ergonomic handle with ratchet, left curved jaws, with tungsten carbide insert,size5mm,length 33cm,for use with suture material 0/0-7/0</p> <p>33. Endoscopic Trolley</p> <p>34. 4 shelves, powder coated finish on</p> <p>35. mild steel construction</p> <p>36. 4 castors (2 with bracket)</p> <p>37. Cidex tray for sterilization plastic, standard size</p> <p>38. Electronic endoflator set, SCB operating voltage:100-240VAC 50/60 HZ consisting of: Electronic endoflator, with Integrated SCB Module, Power cord silicon tube, sterlizable, universal wrench, SCB Connecting cable Sterile filtra for co2.package of 10 pieces High pressure Hose. American connection-pin-index connection length 55cm Co2-Bottle with pin-index coeaction</p> <p>Features: Must be easy to use, high degree of patient safety, clear, adjacent display for set valve and actual valve facilities monitoring of the insufflation □ wiveli, touch keys for precise preselection of set valves, optical and acoustic alaram signals in the event of patient overpressure, fully automatic, electronically</p>
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		<p>controlled gas refill SECUVENT safety system: constant monitoring of intraabdominal pressure: any overpressure is reduced immediately, SCB model with connections pressure. Intraabdominal pressure: any overpressure is reduced immediately, SCB model with connections to the communication bus system .Parameter display: Insufflations pressure. Interaabdominal pressure, Gas flow, gas consumption, Must have certified to IEC601-1.CE acc.to MDD.</p> <p>39. Co2 Cylinder-4.5kg., & High pressure tubing</p> <p>40. Included in the item No. 35 Endoflator.</p> <p>41. 3 CHIP CAMERA SYSTEM WITH PARFOCAL ZOOM WITH XENON LIGHT SOURCE AND FLAT SCREEN MONITOR</p> <p>42. THREE CHIP CAMERA SYSTEM offers a high degree of optoelectronic accuracy and precision. Signal are processed by means of new. Enhanced digital image processor. The endoscopic image is produced true to the original image. The image is processor also assumes automatic image optimization during continuously changing illumination and colour conditions. Manual adjustment is therefore no longer necessary. The user has several preassigned digital optimization-filters at his disposal for adjustment to rigid, semi rigid and flexible endoscopes at the touch of button. Video outputs such as Digital-Video (DV) and all an log signal variation are an integral feature of three chip camera system standard equipments.</p> <p><u>SPECIAL FEATURES:</u></p> <p>Best image quality and display due to state-of –the art 3-ccd sensor chip technology.</p> <p>Enhanced signal quality through Digital signal processing</p> <p>Optimal image size display, regardless of the telescope used, thanks to patented par focal optical Zoom lens</p> <p>Simplified operation reduces camera movement, I.e, prevent damage to or soiling of the lens.</p> <p>Constant illumination due to the auto-exposure system ensures seamless transitions between images, regardless of imaging area or available light.</p> <p>Functionality at the touch of button with easy-to- programme</p>
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		<p>operating elements via intuitive control of all functions in the sterile area.</p> <p>Parameters of the OR equipment used, light source etc, displayed on the monitor.</p> <p>Digital video output for multiple function of digital data link in the clinic network.</p> <p>The new platform features the following permanently installed functions:</p> <p>Compatibility with PAL and NTSC color system, Iterated communication Bus (SCB),Integrated freeze frame function.2X electronic Zoom function, with 4 selectable settings, integrated digital image processing module, patented auto-exposure system. country Specific keyboard available, Freely programmable camera head buttons, SCB with integrated communication Bus(SCB) and integrated digital image processing Module, colour system PAL, power supply: 100-240 VAC, 50/60 HZ, with par focal Zoom lens, F= 25-50mm</p> <p>Consisting of: Camera control Unit, Mains Cord, Keyboard, connecting cable, for controlling peripheral devices, length 180cm,BNC video cable, length 180cm, s-video (y/c) connecting cable, length 180cm, Special RGB connecting cable, SCB connecting cable, DV cable</p> <p>Video Output: Composite signal at BNC socket, S-Video signal to 4 pole, Mini Din socket (2x) RGB signal to 4XBNC sockets, DV signal to 6-pin socket.</p> <p>Input: Keyboard input for title generator and camera functions to 5-pin DIN socket. Control out/input: SCB to 6 pin Mini DIN socket (2x), 3.5mm stereo jack plug(ACC 1,ACC2)</p> <p>Camera control Unit (CCU) Dimensions: 305x254mm, (w x h x d)- weight 2.7 kg, power supply, 100-240VAC,50/60HZ.</p> <p><u>XENON NOVA LIGHT SOURCE.</u></p> <p>43. XENON NOVA operated with 175 watts Xenon Lamp, providing excellent illumination with a natural colour temperature of 6000 Kelvin. A mechanical dimmer provides a continuous manual adjustment of brightness. The lamp current remains unaltered which ensure maximum lamp life. Cold light Fountain XENON NOVA 175, with one 175 Watt WENON lamp and one light outlet Power Supply: 100-125/220-240 VAC, 50/60 Hz consisting of: XENON NOVA 175, Mains Cord, Specification: Lamp Type: Xenon 15V,175watt. Colour Temperature 6000K, Light outlets 1, Light Intensity Adjustment Continuous manual adjustment. Dimensions w x h x d(mm) 305X</p>
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		<p>110X260. Weight (kg) 4.0.</p> <p>44. Xenon-Spare-Lamp,175Watt, 15 Volt 20`` LCD Monitor all the one monitor slim, light and compact, 640x 480 VGA LCD panel provides accurate SD signal reproduction, accepts analog composite Y/C, analog RGB and analog component signals, 1700 wide viewing angle, color temperature adjustment D 65/ D93 / user.</p> <p>45. Formaline Chamber</p> <p>46. Pelvic Trainer with built in Camera and hand instruments.</p> <p>47. Loop applicator -3mm -5 to 3 reducer.</p>
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SCHEDULE -4

DEPARTMENT OF OBG

SCHEDULE –4A

a	Surgical Instrument Of Good Quality & Rest Free Steel Warranty – 5 Years	1. SIM’s Speculum – small 26mm- 31mm	30
		SIM’s Speculum – Medium 31mm-36m	30
		SIM’s Speculum – Medium 36mm-42mm	20
		2. Anterior Vaginal wall retractors	30
		3 . Cusco’s Speculum – 75x32mm	10
		85x35mm	20
		95x37mm	10
		70x20mm	05
		4.Tenaculum forceps	05
		5. M.R. Syringe	02
		6. MVA	02
		7. Myoma screw	02
		8. Instruments for fetal scalp PH	01
		9. Rubin’s cannula standard size	02
		Kelvin’s cannula standard size	02
		10.Leech Wilkinson ‘s screw cannula 28mm	1set
Different sizes			
11. Bonney’s mymeectomy clamp	02		
12.Vacum silicon cups 50mm	02		
Vacum silicon cups 60mm	02		
13. Modified bird’s metal vacuum extractor	02		
40mm			
Modified bird’s metal vacuum extractor	02		
50mm			
Modified bird’s metal vacuum extractor 60mm	02		
14. Outlet Wrigley’s forceps L.27.5cm			
Distance between toes 3.5cm	02		
15. Short Simpson’s forceps			
16. Simpson low medcavity forceps L.35cm	02		
Distance between toes3.5cm	02		
Cephalic curve 11.25cm pelvic curve 17.5cm			

		17. Cervical punch biopsy forceps	05
		18. Curette loop size 2x3mm with sharp & blunt ends	05
		Curette of different loop size	05
		19. Endometrial biopsy forceps with serrated margins	06
		20. Shirodker's uterine holding forceps	02
		21. Abdominal self retaining retractors	04
		22. Tuboplasty set	01
		23. Uterine packing forceps (Delee's)	04
		24. Sim's cranial perforator	02
		25. Breech hook	01
		26. Willet's scalp traction forceps	01
		27. Decapitation saw	01
		28. Green- armytage forceps	01
		29. Haeney's clamp	50
		30. Doyen's retractor	10
b	Other Minor Equipments	1. Cryo cautery with nitrous oxide cylinder with trolley	1
		2. Fetal Doppler with display	2
		3. NST Machine	2
		4. Multi channel Parameter	5
		5. Fetal scalp Electrode	1
		6. Cervical electro cautery Apparatus	02
		9. Suction apparatus both electric & foot suction	03
		10. Ordinary Labour cots 12 Gauge, 16.5 W 2.5 feet, H 2.75	20
		11. Sterilizer L 32inch, W 16h, 24inch depth	02
		12. Mobile focusing lights (Ordinary lights)	10

SCHEDULE –4B

a	Operating Laparoscopic set with camera	01
b	Operating hysteroscopy with TCRE	01
c	Ultra sound machine	01

SPECIFICATION

a	Operating Laparoscopic set with camera	<p>VERESS Pneumoperitoneu, Needle with spring-loaded blunt stylet, LUER-lock, length 10cm and 13cm</p> <p>Straight Forward Telescope, enlarged view, diameter 10mm, length 31cm, autoclavable, fiber optic light transmission incorporated.</p> <p>Trocar, size 11mm, color code: green, consisting of : Trocar only, with pyramidal tip Connula without valve, with insufflation stop-cock, length 10.5cm Multifunctional Valve</p> <p>Trocar, size 6mm, consisting of: Trocar only, with pyramidal tip Connula without valve, with insufflations stop-cock, length 10.5cm Multifunctional Valve and 11mm Trocar size-1 Reduction Sleeve, 11/5mm-6cm</p> <p>Coagulating and Dissecting Electrode, L-shaped, with connector pin for unipolar coagulation, size 5mm, working length 36 cm</p> <p>Coagulating and dissecting Electrode, Spatula-shaped, blunt with connector pin for unipolar coagulation, size 5mm, working length 36cm</p> <p>Monopolar High Frequency Cord with 4mm plug for HF-unit, length 300cm & Bipolar High Frequency Cord</p> <p>Click Line REDDICK-OLSEN Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5mm, length 36cm, heavy, double action jaws, consisting of: Plastic Handle,</p>
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	<p>with hemostat style ratchet, ratchet, Outer Tube, insulated Forceps Insert</p> <p>Click Line Grasping Forceps, Rotating, with connector pin for unipolar coagulation, size 5 mm, length 36cm, 2x4 teeth, double action jaws, consisting of: Plastic Jandle, with hemostat style ratchet, Outer Tube, insulated, Forceps Insert & <u>Provision for 1 wive evacvacuation</u></p> <p>Click Line KELLY Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5mm, lenguth 36cm, double action jaws, consisting of : Plastic Habdle, without ratchet, Outer Tube, insulated, Forceps Insert</p> <p>Click Line Scissors, rotating, size 5 mm, length 36cm, serrated, curved, conical, with connector pin for unipolar Coagulation, double action jaws, consisting of : Plastic Handle, without ratchet, Outer Tube, insulated, Scissors Insert</p> <p>Click Line Scissors Insert, METZENBAUM Scissors, curved, length of blades 12mm, double action jaws, size 5mm, length 36cm</p> <p>Suction and Irrigation Tube, anti-reflex surface with two-way stopcock, for single hand control, size 5 mm, length 36 cm</p> <p>Take-apart Bipolar Forceps, width of the jaws 4mm, serrated, size 5mm, length 33 cm, consisting of : Spring Handle, Outer Tube, Inner Tube, Forceps Insert</p> <p>Bipolar High Frequency Cord with 2 x 4 mm Length 300 cm</p> <p>Bipolar Forceps, Insert</p> <p>KOH Macro Needle Holder, “ergonomic handle with ratchet, left curved jaws, with tungsten carbide inserts, \emptyset 5mm, length 33cm for use with suture material 0/0-7/0</p> <p>MANHES High Frequency Needle, for splitting and coagulation, insulated with connector pin for unipolar coagulation, size 5 mm, length 31 cm</p> <p>RoBi Grasping Forceps rotational, with connector pin for bipolar coagulation, size 5 mm, length 36cm, with especially fine atraumatic serretion, fenestrated jaws, double –action jaws, consisting of : Ring Handle, Ounter Sheath, Foreps Insert</p> <p>Robi Forceps Insert, with especially fine atraumatic serration, fenestrated jaws, double-action jaws, size 5mm, length 36 cm</p> <p>Injection Needle, LUER-lock, diameter 1.2 mm, size</p>
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		<p>5 mm, length 36 cm Myoma Fixation Instrument, screw shaped, \varnothing 5mm ELECTRONIC ENDOFLATOR with CO2 Cylinder with Compatible tubing</p> <ol style="list-style-type: none"> 1. Large cylinder 900 lts 2. 1 small with 100 lts. <p>Electronic Endoflator Set, SCB operating voltage: 100-240 VAC, 50/60 Hz consisting of : Electronic Endoflator with integrated SCB Module, Power cord, Silicone tube, sterilizable, Universal wrench, SCB Connecting cable, Sterile filter for CO2, Package of 10 pieces High Pressure Hose. American connection – pin-index connection length 55 cm CO2-Bottle with pin-index connection Features: Must be easy to use, High degree of patient safety, clear, adjacent displays for set value and actual value facilitate monitoring of the insufflation process, touch keys for precise preselection of set values, optical and acoustic alarm signals in the event of patient overpressure, fully automatic, electronically controlled gas refill (e.g. in case of gas loss when changing instruments), SECUVENT safety system: constant monitoring of intraabdominal pressure: any overpressure is reduced immediately, SCB model with connections to the communication Bus system. Parameter Display: Insufflation Pressure, Intraabdominal Pressure, Gas flow, Gas Consumption. Must have Certified to IEC 601-1, CE acc. To MDD.</p> <p>THREE CHIP CAMERA SYSTEM WITH XENON 175 W LIGHT SOURCE 3-Chip Camera Control Unit (CCU), with integrated Communication Bus SCB and integrated Image Processing Modul, Couor System: PAL/NTSC, Power Supply: 100-240 VAC, 50/60 Hz consisting of 3-Chip Camera Control Unit, Mains Cord, BNC-Connecting Cable, length 180 cm, S-Video (Y/C) Connecting Cable, length 180 cm, Spezial RGB-Connecting Cable, length 180cm, 2 Connecting Cables, for remote control of Video-Printers, SCB-Connecting Cable, length 100cm, DV Cable, length 100cm, DV Cable, length 500 cm, Keyboard with US-english character set System requirements for use with SCB-PC: SCB-R-UI-software- release Record deta store and furnish 3-Chip Camera System offers a high degree of</p>
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		<p>optoelectronic accuracy and precision.</p> <p>Signals are processed by means of a new, enhanced digital image processor. The endoscope image is produced true to the original image. The image processor also assume automatic image optimization during continuously changing illumination and color conditions.</p> <p>Manual adjustment is therefore no longer necessary. The user has several preassigned digital – optimization filters at his disposal for adjustment to rigid, semirigid and flexible endoscopes at the touch of a button. Video outputs such as Digital – Video (DV) and all analog signal variations are an integral feature of 3-Chip Camera standard equipment.</p> <p>Special Features:-</p> <ul style="list-style-type: none"> • Best image quality and display due to state-of – the-art 3-CCD sensor chip technology. • Enhanced signal quality through Digital Signal Processing (Contrast and filter enhancement for rigid, semirigid and flexible endoscopes). • Optimal image size display, regardless of the telescope used, thanks to patented parfocal Optical Zoom Lens • Simplified operation reduces camera movement, I.e. prevents damage to or soiling of the lens. • Constant illumination due to the auto-exposure system ensures seamless transitions between images, regardless of imaging area or available light • Functionality at the touch of a button with easy-to-programme operating elements via intuitive control of all functions in the sterile area. • Parameters of the OR Equipment used, light sources, etc. displayed on the monitor. • Digital video output (DV) for digital recording • Digital Zoom 1-2x can be adjusted to 4 levels. • Integrated Communication Bus SCB. • “ Freeze Frame” function can be activated via camera head buttons or an external footswitch <p><u>Technical Specifications of CCU:</u></p> <p>Video Output:</p> <ul style="list-style-type: none"> - Composite signal at BNC socket - S-Video signal to 4 pin Mini DIN socket (2x) - RGB signal to 4 x BNC sockets - DV signal to 6 pin DV socket <p>Input : Keyboard input for title generator and</p>
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		<p>camera functions to 5 pin din socket control out / input : SCB to 6 pin Mini DIN socket (2x), 3.5mm stereo jack plug (ACC1, ACC2) Camera Control Unit (CCU)</p> <ul style="list-style-type: none"> - Dimensions : 305 x 88 x 254 mm (W x H x D) - Weight : 2.7 kg <p>Power Supply : 100-240 VAC, 50/60 Hz Certified to : IEC 601-1, 601-2-18, CSA 22.2 No. 601, L2601, and CE according to MDD, Protetion class 1/BF</p> <p>CHMERA HEAD</p> <p>3-Chip camera Head with 2 freely programmable Camera Head buttons, Color system PAL, with integrated parfocal - Zoom focal length f =25-50mm (2x)</p> <p>Technical specification of camera Head :</p> <p>Image sensor :</p> <ul style="list-style-type: none"> - 3 x ½“ CCD chip - 3 x ¼” CCd chip, TRICAM <p>Pixels – 752 (H) x 582 (V) Pixels per chip (Pal) Resolution – Min. 750 lines (horizontal) Signal to Noise Ratio - >60dB AGC – Microprocessor controlled Min. Sensitivity – Parafocal Zoom, C- MOUNT : 3Lux (f=104mm) Exposure control – 1/50sec. – 1/1000sec.(PAL) Lens – C-MOUNT : integrated special lens, C-MOUNT</p> <p>Cold Light Fountain XENON NOVA 175, with one 175 watt xenon lamp and one light outlet Power supply : 100 – 125/220 – 240 VAC,50/60 Hz consisting of: XENON NOVA 175 and Mains Cord</p> <p>Special Features :</p> <ul style="list-style-type: none"> • High light intensity due to 175 W Xenon lamp, thus ideally suitable for applications requiring high illumination levels • Light intensity continuously manually adjustable • Excellent price / performance ratio <p>Technical Specifications :</p> <p>Lamp Type : XENON 15V,175 Watt Color Temperature : 6000K Light Outlets :1 Light Intensity Adjustment : Continuous manual adjustment Dimensions w x h x d (mm) : 305 x 110 x 260 Weight (kg) : 4</p>
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		<p>Certified To : IEC 601 – 1 CE according to MDD, protection class 1/CF</p> <p>Xenon – spare - Lamp, 175 Watt, 15volt</p> <p>Fiber Optic Light cable, size 4.8mm, length 250cm, heat – resident</p> <p>Sony 20” LCD Monitor All in one monitor slim, light and compact. <u>1680</u> 1050 WX VGA + LCD panel delivers outstandingly crisp, high brightness and high contrast widescreen HD images with a fast transient response. New 178 degree viewing angle. Multi format signal support. HDMI input for high definition display. CRT like Gamma curve for accurate performance. Three colour tally. Equipped with video markers and stereo speakers. With Optional fixing kit. Perfect for group viewing. Low maintenance Reduced operator fatigue.</p> <p>Necessary Accessories for the above</p> <p>4.5 kg Cylinder with Hose – Indian Make</p> <p>Formalin Chamber 24” – Indian Make</p> <p>Cidex Tray – Indian Make</p> <p>Trolley for Laparoscope Accessories – Indian Make with Co2</p> <p>Cleaning brushes 2 sizes for Instruments</p>
b	Operating hysteroscopy with TCRE	<p>Forward –Oblique Tele-scope 30degree, 4mm, length 30cm, autoclavable, fiber optic light transmission incorporated</p> <p>Examination sheath 5.1 mm, with 1LUER-Lock adaptor</p> <p>Examination sheath 5.2 mm, with 1LUER-Lock adaptor, for use with CF- Examination sheath</p> <p>Continuous –Flow Examination sheath, 6.2 mm, with 1LUER-lock adaptor, for use with Examination sheath</p> <p>BETTOCCHI Operating Sheath, size 5.4 mm, with channel for semi rigid 5 Fr- operating instruments, with 1 stopcock and 1LUER-cock adaptor, for use with CF operating sheath</p> <p>BETTOCCHI Continuous-Flow Operating Sheath, size 6mm, with 1stopcock and 1LUER-Lock adaptor, for use with operating sheath</p> <p>Biopsy and Grasping Forceps, double action jaws, semirigid, 5Fr., length 34 cm</p> <p>Scissors, blunt, single action jaws, semirigid, 5Fr., length 34cm</p> <p>BETTOCCHI Needle Electrode, unipolar 5Fr., length 34 cm</p> <p>Monopolar High Frequency Cord with 4mm plug for</p>

		<p>HF-unit, length 300 cm Ball Electrode, unipolar, 5Fr., length 53cm Working Element set consisting of : 1 working element, 1 cutting Loop, angled, 1 coagulating-Electrode, ball end, 3mm, 1 coagulating-Electrode, ball end, 5mm, 1 coagulating Needle Electrode, angled, 2High Frequency Cord, 1 protection Tube, for sterilization & storage of electrodes, curettes and knives Cutting by means of aspring. The thumb support is movable. In rest position the electrode tip is inside the sheath Resectoscope Sheath including connecting tubes for in –and outflow, for continuous irrigation and suction, 8 mm, oblique beak, rotatable inner sheath with ceramic insulation, for use with working element Standard Obturator, for use with resectoscope sheath Box Cutting Loop, 24 Fr., angled, colour code: yellow(pack of 6) Box coagulating Electrode, 24 Fr., pointed, colour code: yellow (pack of 6) Box Roller Electrode, 24 Fr., barrel end, Ø3 mm colour code: yellow (pack of 6) <u>Irrigation system for Hysteroscopy</u> Silicone Irrigation Tubling Set, sterilizable, for use with pressure cuffs to be used with rubber foot pump, length 250 cm Pressure infusion Cuff, 1500 ml Pressure infusion Cuff, 3000 ml Manometer, for use with pressure cuffs Rubber Foot Pump, with silicone tubing, length 200 cm, with pressure relief valve, fits pressure cuffs FORMALINE CHAMBER 24 INCH.</p>
c	Ultra sound machine	<p>Gray scale Color Doppler (Spectral Doppler, Continuous wave Doppler) 4D Imaging cardiac imaging Tissue harmonic imaging, Elastography, Probes-Convex 3.5 -5 Mhs, Linear probe-5-15 Mhs, Echo probe, TVS probe, Abdominal probe. Inbulit memory -4GB Triplet imaging facility for DVD writer, Dicon facility , Thermal printer, UPS with minimum 1 hour backup.</p>

SCHEDULE – 4C

TEACHING SETS

a	New born baby model	2
b	Articulated female bony pelvis	5
c	Fetal skull	5
d	Midwifery training simulator	1
e	Birth demonstration model	2

SCHEDULE -5

DEPARTMENT OF PEDIATRICS

SCHEDULE -5A

a	Incubators	5
b	Warmer (Open care system)	30
c	Phototherapy unit	8
d	Medical oxygen concentrator	6
e	Bubble cpap	4

SPECIFICATION

a	Incubators	<p>Micro processor based technology with proportional integrated technique to Control the heat Manual/servo control (2 sensor air/Baby) Three level safety cut off, built on “Baby fully safe” principle Knobtype key System fault warning audio/visual (a) air/baby sensor (b) power fail (c) high temperature (d) 1 degree c high and 1 degree low from set of Temperature Temperature range from 20 degree to 40 degree with 0.1 degree c resolution. Power supply 2003+10v, 50hz, ac 6A. For Resuscitation unit 2.50W Suction pump/Stow Suction</p>
b	Warmer (Open care system)	<p>Height : 1880mm(74 inches) Baby bed size : Oval shaped tray Working level : 1000mm from ground Tilt : +/-8 degrees Slide supports : Acrylic drop down type Electrical rating: 230 VAC+/- 10% 50 Hz Observation: Halogen Heater wattage: 650 watts Heater type : Ceramic/ quartz crystal Electronic controller : Micro controller based servo proportionate Controller with feather touch keys for temp Setting Display: LED for indicating set temp, Apgar time, baby Actual temp Alarms : Over temp, 2nd safety active, sensor fail, 3rd Safety active, apgar time Cage to hold oxygen cylinder</p>
c	Phototherapy unit	<p>Parameter Compact fluorescent lamp(CFL) Irradiance : 8hw/cm² nm at 40cm Effective surface area : 500mm*300mm Lamps : 4blue c f l Observation light : 1White c f l Height adjustability : 1630mm/1480mm from floor Optional : downside height adjust Lamp rotation : 180degree to+180degree (continuous) Electric supply : 190-240v,50-60Hz,0.5 power 90W</p> <p style="text-align: center;">Dimensions</p> <p>Max. height : 1630mm/1480mmfrom floor Lamp unit dimensions : 660mm(L)*430m(W)* 90mm(H)</p>

		Mobility : 4 rigid castors wheels Time to taliser : 0 to 9999 hours (non-resettable) tional digital time (resettable)
d	Medical oxygen concentrator	Oxygen flow rate (L/min); 0'5LPM Oxygen concentration purity (%); >92% Oxygen delivery pressure(Mpa); 0.03'0.07Mpa(4.35'10.15PSt) Sound noise level db(A); <52 Atomizing pellet(m1/min); >0.5 Filters ;gross particle cabinet filter Compressor intake filter Bacterial filter Size(mm) :640(height)*410(width)*410(depth) Net weight (kg) :32 Power :AC220+10%,50hz Power consumption:=500w Environmental operating temperature :-10 c to 50c Relative humidity :95% Power failure alarms :yes Low pressure /high pressure :yes Accessories:- <ul style="list-style-type: none"> • Humidifier bottle : 2nos • Nasalcanula with extension tubing :2nos • Filter :2nos • Atomizer :1nos • User manual :1nos
e	Bubble cpap	

SCHEDULE-5B

a	Neonatal/Pediatric ventilator	6
b	ICU –NICU air sterilizer(with plasma collodion tech)	6
c	Horizontal Rail Accessories-Required for ICU	
d	Portable X-ray unit	1
e	Electronic Weighing scale	2

SPECIFICATION

a	Neonatal/Pediatric ventilator	<p>Pressure Controlled, Time Cycled, flow Respirator for Neonatal & Pediatric use</p> <p><u>Special Functions</u> Provision of Bias flow – Neonatal & Pediatric. SIMV Plus Pressure Support. CPAP Plus Pressure Support. Inbuilt humidifier with temperature control. Low consumption of gases & electricity. Facility of Auto mode.</p> <p><u>Modes</u> Controlled Mandatory Ventilation C.M.V Controlled Mandatory Ventilation + Sigh C.M.V + Sigh Assist Controlled Mandatory Ventilation A.C.M.V. Synchronized Intermittent Mandatory Ventilation +S.I.M.V. + PS Pressure Support Patient Triggered Ventilation P.T.V. Auto mode. Continuous Positive Airway Pressure Plus Pressure Support. CPAP. + P.S. Pressure controlled Inverse Ratio Ventilation P.C.I.R.V.(Separate mode ked not provided)</p> <p><u>Controls</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Respiratory Rate</td> <td>4 to 120 Breathes Minute.</td> </tr> <tr> <td>Inspiratory Time</td> <td>0.2 to 3 seconds.</td> </tr> <tr> <td>Inspiratory Pause</td> <td>0 to 30 % of set inspiratory time</td> </tr> <tr> <td>Inspiratory Pressure</td> <td>2 to 40 cm/H₂O</td> </tr> <tr> <td>PEEP</td> <td>2 to 15 cm/H₂O</td> </tr> <tr> <td>Trigger Sensitivity</td> <td>-1 to -15 cm/H₂O(below PEEP)</td> </tr> <tr> <td>Trigger Method</td> <td>Pressure in PC900&Pressure & flow in PC03</td> </tr> <tr> <td>SIMV Rate</td> <td>4 to 30 Breaths per Minute.</td> </tr> <tr> <td>Sigh Breathe</td> <td>At each 100th breathe.</td> </tr> <tr> <td>Sigh%</td> <td>50% of set indpiratory time.</td> </tr> </table> <p><u>Digital Displays</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Inspiration Time</td> <td>2 Digit green LED Display</td> </tr> <tr> <td>Set PIP</td> <td>2 Digit green LED Display</td> </tr> <tr> <td>Respiratory Rate</td> <td>3 Digit green LED Display</td> </tr> <tr> <td>Expiration Time</td> <td>2 Digit green LED Display</td> </tr> <tr> <td>Trigger Level</td> <td>3 Digit red LED Display</td> </tr> <tr> <td>1:E Ratio</td> <td>3 Digit green LED Display</td> </tr> <tr> <td>Spontaneous % in SIMV mode</td> <td>2 Digit red LED Display</td> </tr> <tr> <td>Pressure Support</td> <td>2 Digit red LED Display</td> </tr> <tr> <td>Tidal Volume (Only in PC903)</td> <td>1 to 499 ml.</td> </tr> </table> <p>Alarms: High Air way pressure. Low Air way pressure. Apnea</p>	Respiratory Rate	4 to 120 Breathes Minute.	Inspiratory Time	0.2 to 3 seconds.	Inspiratory Pause	0 to 30 % of set inspiratory time	Inspiratory Pressure	2 to 40 cm/H ₂ O	PEEP	2 to 15 cm/H ₂ O	Trigger Sensitivity	-1 to -15 cm/H ₂ O(below PEEP)	Trigger Method	Pressure in PC900&Pressure & flow in PC03	SIMV Rate	4 to 30 Breaths per Minute.	Sigh Breathe	At each 100 th breathe.	Sigh%	50% of set indpiratory time.	Inspiration Time	2 Digit green LED Display	Set PIP	2 Digit green LED Display	Respiratory Rate	3 Digit green LED Display	Expiration Time	2 Digit green LED Display	Trigger Level	3 Digit red LED Display	1:E Ratio	3 Digit green LED Display	Spontaneous % in SIMV mode	2 Digit red LED Display	Pressure Support	2 Digit red LED Display	Tidal Volume (Only in PC903)	1 to 499 ml.
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		<p>Gas supply failure. High Rate. High PEEP</p> <p>Settings: By means of feather touch keys</p> <p>Oxygen concentration: Can be set from 21% to 100%. Marking provided</p> <p>Technical Details</p> <ul style="list-style-type: none"> • Input Gas Pressure: Air & Oxygen at 60 PSIG. (4kg/4 Bar/420 KPA) • Ventilator working pressure: 100cm/H₂O. • Electric supply: 230Volts Ac +/-10%,50Hz 		
b	ICU –NICU air sterilizer (with plasma collodion tech)	Height	460mm	465mm
		Width	400mm	645mm
		Weight	8kg.appox.	9.8 kg. appox.
		Electrical	220Volts	220Volts
		Power consumption	30Watts	38 Watts
		C.F.M.	90C.F.M.	200C.F.M.
		dB raring	37 Db	43 dB
		Prefilter	Non woven poly	Non woven poly
		A.C.Filter	Silver impregnated	Silver impregnated
		Hepa filter	Efficiency 99.95%	Efficincy 99.95%
		E.P.I.C.	Germicidal type	Germicidal type
		U.V.Dose	28,000u W sec./cm ²	38,000u W sec./cm ²
		Area recommended	1800cubic feet	2800 cubic feet
c	Horizontal Rail Accessories- Required for ICU	<p>Saline Stand with Clamp:</p> <p>Types of Saline Stand:</p> <ul style="list-style-type: none"> • Horizontal. • Vertical. • Telescopic. <p>Monitor Tray Clamps:</p> <p>Other Trays available:</p> <ul style="list-style-type: none"> • Monitor Tray with two shelves. • Revolving Monitor Tray. Size :300mm(D)X375mm(W) <p>Utility Basket with Clamps :</p> <p>Size :200mm (D) X 200 (H) X 375mm (W)</p> <p>Note Pad with Clamp:</p> <p>Size: 250mm (W) X 300mm (H).</p> <p>Stainless steel Instrument Trolley</p> <ul style="list-style-type: none"> • Seat size: 680mm(L)x 450mm(h)x 820mm(H) • Frame work of stainless steel mounted on four 50mm diameter swiveling castors. • 2 stainless steel shelves with 3 side railing on top shelf only. • Pre + reated & epoxy powdered coated. • Electronic weighing scale. <p>Specifications</p> <ul style="list-style-type: none"> • Power supply- 90-270v, 50Hz 		

		<ul style="list-style-type: none"> • Power consumption- 5W • Temperature 0 degree Celsius to 45 degree Celsius • Physical dimensions 540(W)x 455(D)x 200(H)mm • Display digit- 5 digits • Display size- 14mm • Capacity-30Kg • Least count- 10gms • Pan- 480-300mm • Cross weight- 6.5Kg
d	Portable X-ray unit	<p><u>Operational requirements:-</u></p> <ol style="list-style-type: none"> 1. Compact, lightweight, easily transportable mobile radiographic unit suitable for bedside X-rays. 2. The unit must have an effective braking system for parking and transport. The tube stand must be fully counterbalanced with rotation in all directions. 3. Exposures with remote control should be available 4. The unit must have cassette storage facility for all size of cassettes <p><u>Technical Specifications:-</u></p> <p>A) The Generator:-</p> <ol style="list-style-type: none"> 1. Micro processor controlled high frequency, output 10 KW or above. 2. It should have a digital display of mAs and kV. 3. KV range:40kV to 90kV. 4. mA range: 100 mA. <p>B) X-Ray Tube:-</p> <ol style="list-style-type: none"> 1. Rotating anode with at least 2500 rpm and focal spot size should be less than 1 mm 2. Light beam Collimator of multi leaf type with auto cut off switch 3. The exposure release switch should be detachable with a cord of sufficient length as per ICRP recommendation. <p>Standards and safety:-</p> <ol style="list-style-type: none"> 1. Should comply with AERB / International Guidelines for radiation leakage should enclose the certificate.
e	Electronic Weighing scale	

SCHEDULE -5C

a	Cardiac Monitor	5
b	Blood gas analyzer	1

SPECIFICATION

a	Cardiac Monitor	<p>a. Minimum 12.1 colour TFT display with 8 wave forms.</p> <p>b. Capacity to measure ECG,SPO2, NIBP, TEMP, Respiration.</p> <p>c. Adult, Peadiatric and neonatal applications</p> <p>d. SPO2 pulse-tone variation.</p> <p>e. Minimum 90 HRs graphic and tabular trends for all parameters.</p> <p>f. ST alarm events recall facility.</p> <p>g. Minimum 50 arrhythmia events with waveforms recall.</p> <p>h. Optional Built in thermal recorder.</p> <p>i. Detachable batteries with minimum 2 hrs operating time.</p> <p>j. Light weight less than 5 kg.</p> <p>k. Oxy CRG software package and Drug dose calculation is a must.</p> <p>l. PR range of 20 to 250 BPM</p> <p>m. Electro surgical and defibrillator protection.</p> <p>n. Over pressure protection in NIBP.</p> <p>o. Up gradable to IBP, ETCO2, and CO,</p> <p>p. ISO & CE/FDA should have certified.</p> <p>q. Should be net workable.</p> <p><u>System should supply with:</u></p> <p>a. 5 Lead ECG cable -01 no.</p> <p>b. SPO2 adult and neonatal probes -01 each</p> <p>c. NIBP adult and Peadiatric cuff -01 each</p> <p>d. Operating manual</p> <p>e. Temperature prober-01 no.</p>
b	Blood gas analyzer	<p>a. Fully automatic, fast and latest blood gas analyzer for the analysis of blood gases, Electrolytes and total Hemoglobin.</p> <p>b. Should measure pH, pCO2, pO2, SaO2,tHb, Hct, Barometric pressure.</p> <p>c. Calculated parameters which includes pH, pCO2, pO2 at patient temperature, BE, Beact, Beect, BB, HCO3, tCO2, stHCO3, stHCO3, stpH, ctO2, aH+, AaDO2, Anion Gap, Qs/Qt, MCHC, Osmolality, Respiratory index Oxygen extraction ration etc.</p> <p>d.. Measurement of Hemoglobin using laser diode technology.</p> <p>e. Direct Aspiration of samples form Syringe, Capillaries, QC ampoules, Cups, Test Tubes without the use of any adapters.</p>

		<ul style="list-style-type: none"> f.. Sample volumes -75 ul max g. Sample throughput -30 samples / hou h. Fast analysis time –maximum 45 sec to results. i. Maintenance free electrodes including reference electrode with individual electrodes ON/OFF facilities j. Fully automatic liquid calibration of all parameters at user defined intervals without the use of external gases, tanks and regulators. k. Continues reagent level monitoring with graphic aaaaadisplay. l. Automatic sample device recognition. m. Data display on well illuminated LCD color touch screen display. n. Data printout on built in graphic printer with cutter. o. Storage facility of measured data in case of power failure. p. Built in data storage facility for at least 1000 patient and QC results and provision for optional PCMCIA card. q. Built in QC analysis software for levy Jennings, West guard rule etc. r. Built in barcode scanner. s. Optional Auto QC facility t. 2x RS 232 interface facility u. Built in network and remote control facility. v. Built in voltage stabilizer for the range of 100-240 V/ 50 Hz with 601-1 compliance.
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SCHEDULE-6

DEPARTMENT OF ORTHOPAEDICS

SCHEDULE -6A

a	Arthroscope set	01
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SPECIFICATION

a	Arthroscope set	<p>With video and accessories Arthroscopic autoclavable :4mm:0degree Arthroscopic autoclavable :4mm:30degree Arthroscopic autoclavable :4mm:70degree Inflow canula :4mm Inflow trocar :pointed and blunt :4mm:1each Infusion adapter Heavy duty arthroscopic grasping forceps Arthroscopic shaft short version ,2rotatable stop cocker Grasping forceps Arthroscopic punch gold handle break proof 45 degree right :1 Arthroscopic punch gold handle break proof 45 degree left :1 Medium duck bill punch 30 degree right :1 Medium duck bill punch 30 degree lift :1 Arthroscopic scissors break proof straight :1 Multi system with light source and micro camera:1 TV coupler for endoscopes Digital capture unit :1 Digital Video recorder:1 Monitors PMV high resolution monitor 20size Arthroshaver system with foot pedal and hand piece Meniscus shaver blade oval Burr:1 Suction irrigation system :1 Equipment trolley Sterillizing case for Endoscope Endoscope cases Additional Accessories required: a. Steel Aliirah for storing accessories -1nos</p>
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SCHEDULE-6B

a	Instrumentations set	
	1.Basic set	
	Aluminum Case	1
	S.S. Lower Tray For Instruments Used In Basic Set (Std pattern)	1
	S.S. Middle Tray For Instruments Used In Basic Set (Std pattern)	1
	S.S. Upper Tray For Instruments / Plate Used In Basic Set, Plate Set (Std pattern)	1
	Set Contents	
	Drill Bit Q.C- 3.2MM	3
	Drill Bit Q.C. -4.5MM	2
	Large Countersink	1
	Tap Handle Q. C.	1
	Tap Q.C.- 4.5mm	2
	Tap Q.C. -6.5mm	1
	Double Drill Sleeve 4.5mm/3.2mm	1
	Insert Drill Sleeve 4.5mm/3.2mm	1
	Double Drill Sleeve 6.5mm/3.2mm	1
	Hex Screwdriver with fibre handle - 3.5 A/F	1
	Hex Screwdriver Q.C. 3.5 A/F	1
	Depth Gauge for Large Screws Stainless Steel	1
	Sharp Hook	1
	DCP Load & Neutral Drill Guide 3.2mm(For 4.5mm Screws)	1
	SS LC-DCP Universal Drill Guide 4.5mm/3.2mm	1
	SS LC-DCP Load & Neutral Drill Guide 3.2mm	1
	Template for contouring plates Large DCP/LCDCP – 7 H x 120mm	1
	Template for contouring plates Large DCP/LCDCP – 9 H x 155mm	1
	Template for contouring plates Large DCP/LCDCP – 12 H x 210mm	1
	2. SMALL FRAGMENT WITH ADLER IMPLANTS	
	Aluminum Case	1
	S. S. Lower tray for Instruments	1
	S. S. Middle tray for Plates	1
	S. S. Upper tray for Instruments	1
	S.S. Small Rack with small tray for ‘Adler’ Screws	1
	Drill Bit Q.C. Swiss Made 2.5MM	2
	Drill Bit Q.C. Swiss Made 3.5MM	2
	Small Countersink	1
	Tap Q.C. - 3.5mm x 1.25mm	2
	Tap Q.C. - 3.5mm x 1.75mm	2
	T’ Handle Q.C.	1

Double Drill Sleeve 3.5mm/2.5mm	1
Drill Guide & Drill Sleeve (2mm)	1
Insert Sleeve 3.5/2.7mm	1
DCP Load & Neutral Drill Guide 2.5mm(For 3.5mm Screws)	1
Hex Screwdriver with fibre handle - 2.5 A/F	1
Depth Gauge for Small Screws Stainless Steel	1
Sharp Hooks	1
Screw Forceps	1
Bending Iron For Small Plates	1
Bending Iron For Small Plates	1
Bending Pliers For Finger Plates	1
Template for contouring plates Small DCP/LCDCP - 5 H x 60mm	1
Template for contouring plates Small DCP/LCDCP - 7 H x 85mm	1
Self Centering Bone Holding Forceps for Small Fragment 190mm	1
Reduction Forceps with Point 130mm	1
Reduction Forceps Extra Small 140mm	1
Small Hohmann Retractor 6mm Wide	1
Small Hohmann Retractor 8mm Wide	1
Retractor Small Fragment With Broad Shank	2
Preinstall Elevator Small With Straight edge 6mm	1
Clips for Plates	5
3. DCS INSTRUMENT SET	
Aluminum Case	1
Al. Lower Tray for Instruments	1
Al. Middle Tray for Instruments	1
Al. Upper Tray for Instruments	1
Guide Wire (2.5mm X 230mm Length)	10
C.H.S. Angle Guide (Q.C.) 135 Deg	1
C.H.S. Angle Guide (Q.C.) 130 Deg	1
C.H.S. `T` Handl With Q.C.	1
Direct Measuring Device	1
C.H.S. Tri-Action Reamer Q.C. for 38mm Barrel length	1
C.H.S./D.C.S.Tap with Q.C. 12.5mm	1
Centering Sleeve For Tap	1
C.H.S. Wrench	1
Centering Sleeve for Wrench	1
CHS Coupling Screw	1
Coupling Screw For Removal	1
Guide Shaft	1
Impactor For C.H.S..Plates	1
Hex Screwdriver with fibre handle - 3.5 A/F	1
D.C.S. Tri-Action Reamer	1
D.C.S. Angle Guide 95 Deg. With Q.C.	1
4. GENERAL INSTRUMENTS SET	
Bone Awl with Eye straight 5/32''	1

Plate Bender pair	1
Roller type plate bender	1
Stille type chisel straight 7''5mm,10mm,15mm,20mm,25mm,30mm,	6
Stille type chisel cured 7''5mm,10mm,15mm,20mm,25mm,30mm,	6
Charley's compression clamp with 2pin	1
Lowman's bone holding clamp 4''	1
Lowman's bone holding clamp 5''	1
Lowman's bone holding clamp 8''	1
Volkman curette double ended 4mm& 9mm.6mm & 10mm,9mm& 12mm-1each	3
Universal Bone Drill With Chuck (Plated Indian Chuck)	2
Farabeauf Rugine Straight	1
Farabeauf Rugine Curved	1
Square Nails Extractor	1
Extra Hook For A.M. Head Extractor	1
Extractor / Impactor For S.P. Nail	1
Extractor / Impactor For Jewett Nail	1
Stille Horsley Bone Cutting Forceps 10'' Length	1
Heygrove's Bone Holding Forceps 8''	2
Heygrove's Bone Holding Forceps 10''	2
Heygrove's Bone Holding Forceps 12''	2
Burn's Bone Holding Forceps Length 6'', 7'', 8''	3
STILLE GOUGE STRAIGHT, 5MM, 10mm, 15mm, 20mm, 25mm, 30mm, 35mm, - 1each	7
STILLE GOUGE CURVED, 5MM, 10mm, 15mm, 20mm, 25mm, 30mm, 35mm, - 1each	7
Heath Mallet 250gms.	1
Gigli Saw Introducer	1
Steinman Pin Introducer ('T' Handle With Plated Chuck)	1
Watson Jone's Handle For Guide Wire	1
Lane's Bone Lever Serrated End	2
Levers For Radius & Ulna	2
Stille Type Osteotome Straight, 5mm, 10mm, 15mm, 20mm, 25mm, 30mm, 35mm, - 1 Each	7
Stille Type Osteotome Curved, 5mm, 10mm, 15mm, 20mm, 25mm, 30mm, 35mm, - 1 Each	7
Mastoid Retractor	2
Gigli Saw Wires	10
Lane's Screwdriver 6mm,	1
Lane's Screwdriver 8mm	1
William's Screwdriver	1
Burn's Self Holding Screwdriver	1
Bohler's Stirrup Small With Steinman Pin	1
Bohler's Stirrup Medium With Steinman Pin	1
Bohler's Stirrup Big With Steinman Pin	1
Self Centering Bone Holding Forceps	

Self Centering Bone Holding Forceps 240mm	1
Self Centering Bone Holding Forceps 260mm	1
Self Centering Bone Holding Forceps 280mm	1
Reduction Forceps	
Reduction Forceps 170mm	2
Reduction Forceps 240mm	2
Patella Forceps 175mm	2
Retractor Short Narrow Tip Width 18mm	1
Steinman Pin	
Steinman Pin Dia. 4.0mm, Length 150mm	2
Steinman Pin Dia. 4.0mm, Length 175mm	2
Steinman Pin Dia. 4.0mm, Length 200mm	2
Steinman Pin Dia. 4.5mm, Length 150mm	2
Steinman Pin Dia. 4.5mm, Length 175mm	2
Steinman Pin Dia. 4.5mm, Length 200mm	2
5. BONE FORCEPS SET	
Aluminum Case	1
Al. Lower/Middle/Upper Tray for Instruments	3
Self Centering Bone Forceps 240mm	1
Self Centering Bone Forceps 260mm	2
Self Centering Bone Forceps 280mm	2
Reduction Forceps 220mm	1
Reduction Forceps 160mm	1
Reduction Forceps 180mm	1
Reduction Forceps With Point 200mm	1
6. INSTRUMENT SET WITH Fit Rite FOR AUSTIN MOORE PROSTHESIS	
Fit Rite' Modular Cutting Guide, Handle and compaction Rasp (Complete instrument) for use with (A.M. Prosthesis)	1
Aluminum Impactor with Tufnell Head For (A.M. Prosthesis)	1
Head Extractor for femoral head	1
Head Gauge For Prosthesis	1
Hohmann Retractor, Narrow Tip, 43mm	2
Slotted Hammer For Version Control	1
Intramedullary Reamer, Short, 300mm used for canal preparation for prosthesis	1
Kuntscher Diamond Pointed Awl	1
7. PLASTER INSTRUMENT SET	
Lorenz Plaster Shears	1
Plaster Cast Spreader	1
Plaster Knife	1
Plaster Saw With Allum. Handle	1
Plaster Cutting Scissors	1
Plaster Bender Small 7"	1
Plaster Bender Big 10 1/2"	1

Plaster Cutting Saw – Electric	1
8. WIRE INSTRUMENT SET	
Aluminum Case	1
Aluminum Tray for Instruments	3
Wire Bending Pliers	1
Wire Cutter small	1
Wire Cutter Large	1
Wire Passer Standard	1
Wire Tighter (A.O. Type)	1

SCHEDULE-7

DEPARTMENT OF ENT

a	ENT treatment unit with Doctor & Patient chair	4
b	2 Channel PC based BERA System	1
c	Diode LASER- Contact mode	1
d	Sound proof audiometer room with things for Speech therapy room	1

SPECIFICATION

a	ENT treatment unit with Doctor & Patient chair	<ul style="list-style-type: none"> a. Suction apparatus b. Mirror rewarmer c. Cold light source d. Head light cable instrument tray e. Otoscope f. Monitor for endoscopy <p style="text-align: center;">&</p> <ul style="list-style-type: none"> a. Adjustable and b. Hydraulic chair with Foot Switch
b	2 Channel PC based BERA System	<ul style="list-style-type: none"> a) Computer & Its Peripherals consisting of: CPU COLOR MONITOR PRINTER KEYBOARD & MOUSE b) 2 ch.pc-based bera hardware kit Consisting of: Hardware Interface, Cart And All Accessories c)2 Ch.Pc-Based Bera software kit Consisting of: Bera Software on CD Emg Software on CD
c	Diode LASER- Contact mode	<ul style="list-style-type: none"> a) Diomed Diode surgical laser TM Dide laser platform designed for multi specialty application operating at a wavelength of 801 nm in near infra red portion of the spectrum model Diomed D15 watts Includes 1 foot switch 1 EC power cable 1 Remote interlock bypass 1 Keys 2 1 Operating manuals 2 Laser protection goggled b) Contact laser fibers DM 5221 c) Contact fiber DM 5501 d) CW Contact fiber DM 5241 e) CW Contact fiber DM 6060 f) Nasal dual channel hand piece with suction g) Soft palate duel channel with suction hand piece h) Larynx single channel malleable HP i) Larynx duel channel HP
d	Sound proof audiometer room with things for Speech therapy room	<ul style="list-style-type: none"> Speakers -2 Talk back Mike -2 Mirror with board -1 Therapy items -1pack

		<p>a) Models of Animals -1pack -Fruits -1pack -Vegetables -1pack -Birds -1pack -Alphabets -1pack -Numbers -1pack</p> <p>b) Charts of Body parts -2 - Animals -2 - Fruits -2 - Vegetables -2 - Birds -2 - Alphabets (Kan & eng) -2 - Numbers -2 - Flowers -2</p> <p>c) Noise makers -2 d) Puppet -2 e) Puzzles -3 f) Scrap book -2 g) Building blocks -1pack h) Beads -25 i) Drawing sheets -5</p> <p><u>Metal frame work</u>; panels will be 8X1Ft in size Of 24gage perforated sheet to an extent of 70% and of 4”thick box panels. These 4”thick panels will have layers of acoustic material of specific density/kg/cubic meter, RP tissue paper bound together. This acoustic absorbing material has the attenuate incident sound energy from frequencies that are concentrated in the 125 to 8000 Hertz range to meet the ANSI standards. The external surface will be cladded with NRC rated fabric. The wall with rigid steel framework and fasteners. <u>False Ceiling</u>: will be at the height of 8 ft from the floor level. Similar procedure as detailed above will be followed and the panels will be stacked and secured to the wall panel with a rigid frame work. Qty- 731sq ft <u>Floor</u>; the floor will be addressed by means layers of materials to attenuate the low frequency waves by means of 3mm thick neoprene rubber sheet, plywood of 19mm, 8mm underlay over which will be a 5mm loop pile carpet will be the scope of work. Qty -171sq ft <u>Door with frame work</u>: entry into the testing area will host a double door each door leaf will be of 2” thick double layered plywood, insulated internally and externally with U foam, and covered with rexine. Suitable door handle and lock will be provided. Suitable door frame to facilitate the double shutter door will be addressed with 19mm plywood box type with infill</p>
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		<p>of acoustic material, calded with layer of foam and Rexene. Groove to facilitate perfect sealing of the door shutter. This constitutes the requirement. <u>Qty -1unit</u></p> <p><u>Observation window:</u> 10mm thick double layered laminated Glass on each side with one side placed with an angle of 45dgree. Secured to a wooden frame work with rubber gaskets and silica gel. <u>Qty -1unit</u></p> <p><u>Jack panel:</u> 10Nos. sockets and pins will be provided which is compatible to the audiometer as a standard offer. <u>1unit</u></p> <p><u>CFL:</u> lighting will be provided that will be adequate in number to provide the desired level of illumination <u>6 fixtures</u></p> <p><u>Ventilation:</u> 1 ton split Air conditioner will be installed. <u>1unit</u></p>
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SCHEDULE-8

DEPARTMENT OF OPHTHALMOLOGY

SCHEDULE-8A

a	Ophthalmic Chair refraction unit with Slit lamp	3
b	Motorised Surgeon Chair	2
c	Hydraulic Stool / Manual Surgeon Chair	4
d	Eye OT table	2

SPECIFICATION

a	Ophthalmic Chair refraction unit with slit lamp	<p>OPHTHALMIC CHAIR UNIT SPECIFICATIONS</p> <p>01. Unit: Smooth rotating Balanced table top with ample space for instruments. Automatic under the table connection for equipments, safety switches to stop inadvertent chair movements. Integrated centralized control, Strong support pole for lamp, phoropter and projector and near vision holder, convenient instrument holder troy, dust free trial lens rack in and out sliding movement</p> <p>2. Control Panel: Elegant, single piece console panel for centralized unit control, multifaceted controls for chair movements, built in connectivity for indirect ophthalmoscope, near vision holder and projector.</p> <p>3. Chair: Fully flexible rotating recliner, silent, motor driven up and down movements and inclination, zero position memory, adjustable footrest, foot switch for up-down movement control, full movement control from back rest panel.</p> <p>4. Hydraulic stool: for doctor</p> <p>SLIT LAMP SPECIFICATIONS</p> <p>Microscope : Galilean</p> <p>Magnifications Change: 5 step / 3 step drum rotation</p> <p>Eye Pieces : 12.5 x</p> <p>Magnification range : 6x, 10x, 16x, 25x, 40x, /10x, 16x, 25x,</p> <p>Real field of view in mm: 35,23,14, 8.7, 5.6/23,14,8.7</p> <p>PD range: 55-75 mm</p> <p>Diopter adjustment: +/-6</p> <p>Working distance: 100 mm</p> <p>Slit width: 0-14 mm</p> <p>Slit length: 0-14 mm</p> <p>Slit Apertures: 0.2, 1, 3, 4, 6,8, 10, 14 mm</p> <p>Slit angles: 00-180</p> <p>Slit indination: 50-100-150-200</p> <p>Slit illumination: 12V- 30 W</p> <p>Filters: Heat absorbing, Green and cobalt blue</p> <p><u>Movement Ranges</u></p> <p>Longitudinal: 118 mm</p> <p>Lateral : 99 mm</p> <p>Vertical : 30 mm</p> <p>Chin rest range : 55mm</p>
b	Motorised Surgeon Chair	<p>Foot regulated height adjustment</p> <p>Electric height level adjustment range of 150mm</p> <p>Height adjustment range -55 mm to maximum 700 mm</p>

		Lifting capacity -100 kg
c	Hydraulic Stool / Manual Surgeon Chair	Pneumatic operating stool with back rest height adjustment
d	Eye OT table	<p>Suitable for ophthalmic Surgery</p> <p>Motorized</p> <p>It should have Head rest and wrist support.</p> <p>Minimum height 600 mm (Approx)</p> <p>Maximum height 900 mm(Approx)</p> <p>Length 1900 mm(Approx)</p> <p>Width 700mm(Approx)</p> <p>Weight Capacity 150 Kg(Approx)</p> <p>Trendelenberg 28 degree (Approx)</p> <p>Reverse Trendelenberg 15 degree (Approx)</p>

SCHEDULE- 8B

a	A-scan	1
b	Auto refractometer/keratometer	1
c	Keratometer	1

SPECIFICATION

a	A- Scan	<p>Transducer Probe</p> <p>Frequency 10mhz ± 10%</p> <p>Fixation Internal LED</p> <p>Sampling Frequency 15.625 MHz ± 10%</p> <p>Bandwidth >6mhz at -6db</p> <p>Accuracy :</p> <p>Electronic ± 0.02mm</p> <p>Sound Velocity/phakic status functions</p> <p>Anterior Chamber : 1533m/s</p> <p>Normal lens: 1641m/s</p> <p>Vitreous : 1532m/s</p> <p>Aphakic : 1532m/s</p> <p>Cataract : 1629 m/s</p> <p>IOL</p> <p>PMMA : 2718m/s</p> <p>Silicone : 1486m/s</p> <p>Acrylic : 2200m/s</p> <p>Measurement modes</p> <p>Automatic</p> <p>Continuous</p> <p>Manual</p> <p>Calibration</p> <p>Software Memory</p>	<p>IOL power Calculation formulas</p> <p>SRK T Haigis</p> <p>SRK II Hoffer Q</p> <p>Holladay Binkhorst I</p> <p>Print Out</p> <p>Through External Thermal Printer</p> <p>Power</p> <p>Voltage 100-240VAC</p> <p>Frequency: 50-60Hz</p> <p>Consumption : 26VAC</p> <p>Size :</p> <p>Height : 12 cm/5"</p> <p>Width : 30 cm /12"</p> <p>Depth : 28 cm/11"</p> <p>Weight : 2.6 Kgs.</p> <p>Standard Accessories :</p> <p>Solid tip transducer with fixation light</p> <p>User Manual</p> <p>2 spare fuses</p> <p>RS 232 Port</p>
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		<p>Scan Memory is 10 per eye with Standard Deviation of Axial Length & Anterior Chamber Depth</p> <p>User Memory : Surgeon 6 Profiles IOL styles 10/surgeon <100</p> <p>Patient Memory Analysis 10</p>
b	Auto refractometer/keratometer	<p>Measurement Mode</p> <p>K/R mode Continuous Keratometry & Refractometry Ref mode Refractometry Ker mode Keratometry CLBC mode Contact lens base curve measurement</p> <p>Refractometry</p> <p>Vertex distance (VD) 0,10,12,13,5, 15mm Sphere (SPH) -25.00~ +22.00d(VD=12mm) [0.12, 0.25d] Cylinder (CYL) 0.00 ~ ± 10.00d (0.12, 0.25d) Axis (AX) 1 ~ 180° Cylinder form -, +, ± Pupil Distance 10-85mm Minimum Pupil Diameter Ø 2.00mm Measurement Time 0.07sec.</p> <p>Keratometry</p> <p>Radius of Curvature 5.0 ~ 10.2mm Corneal Power 33.00 ~ 67.50d Corneal Astigmatism 0.00 ~ -15.00d(0.05/0.12/0.25d) Axis 1 ~ 180° Corneal Diameter 2.0 ~ 12.0mm</p> <p>Others</p> <p>Internal Printer Thermal Printer Power Saving Selectable 3,5,10min Display 5.6 inch TFT LCD colored Monitor Power Supply AC 100 ~ 240V, 50/60Hz/90W</p> <p>Dimension / Weight 248 (W) X 476 (D) X 475 (H) mm /21 Kg. Chinrest movement Max, 55mm Data out-put RS-232 Interface, Video output</p>

c	Keratometer	<ul style="list-style-type: none"> i. It should have facility for high accuracy Measurement of corneal and contact lens radius. ii. The facility for determination of corneal astigmatism should be there. iii. It should have minimum range from 4mm to 13mm radius with 0.01mm increments. iv. It should have halogen lamp illumination and steel balls standard radius for calibration. v. It should have <ul style="list-style-type: none"> Coincidence focusing system One position measurement Simple vertical adjustable head rest to fit patient Two way adjustable head and chin rests

SCHEDULE-8C

a	Phacoemulsifier	1
b	Automated Perimeter (Humphery Visual Field Analyzer)	1
c	Yag Laser	1
d	Operating Microscope	1
e	Retinal Green Laser	1

SPECIFICATION

a	Phacoemulsifier	<p>Graphic user interface on 8.4'' colour LCD with touch screen Voice feed back for function selections Dual linear footswitch Programmable surgeons parameters Closed system vacuum reading Disposable and reusable tubing Continuous irrigation Vacuum level range programmable from 5 to 500mmHg Flow rate range 25 levels programmable from 2 to 50cc/min Irrigating pressure regulated by height of pole Panel or linear vacuum control by the foot pedal Panel or linear Flow rate control by the foot pedal Ultrasound: Operating frequency 40KHz Stroke range 5 to 100 micron Operating modes continuous, pulsed from 1 to 40 Hz, single burst, Multiple burst, continuous burst 4 piezoelectric hand piece Vitrectomy: pneumatic cutter single cut mode cutting range 60 to 700cut/min Diathermy: Bipolar diathermy with maximum power 7W Operating frequency 2 Mhz Panel or linear power control; by foot pedal</p>
b	Automated Perimeter (Humphery Visual Field Analyzer)	<ol style="list-style-type: none"> 1.High quality Goldman standard automated perimeter with bowl size 30 cm 2. Maximum intensity 10,000 Asb. Bowl illumination 31.5 Asb. 3. Stimulation duration 200 ms Testing distance 30 Cm 4. Stimulus colour white on white 5. Stimulus size I+V 6. Maximum temporal range 90 deg. 7. Central field rest pattern 30-2, 24-2, 10-2, Macula 8. Peripheral field pattern, 60-4, Nasal step 9. Threshold test strategies – Full threshold fast pac, SITA Standard/ Fast Full threshold, Fast pac, SITA standard/ Glaucoma hemi field test.

		<p>10. Should have fixation monitoring with</p> <p>a) Blind spot monitor b) Video eye monitor c) Trial lens holder d) Gaze tracking system e) Touch screen or CRT f) Key board g) Floppy dirve h) Internal hard disk</p> <p>13. Motorized table with Laser Jet Printer should be available. The instrument should come with UPS backup</p>																										
c	Yag Laser	<table border="0"> <thead> <tr> <th style="text-align: left;">Characteristic</th> <th style="text-align: left;">Values – Range</th> </tr> </thead> <tbody> <tr> <td>Laser Wave length</td> <td>: 1064 nm</td> </tr> <tr> <td>Structural mode</td> <td>: Super Gaussian</td> </tr> <tr> <td>Optical breakdown</td> <td>: 2.5mJ in air minimum</td> </tr> <tr> <td>Pulse length</td> <td>: 4 ns or less in steps</td> </tr> <tr> <td>Max. Laser Energy</td> <td>: Single Pulse, 10 mJ Double Pulse, 23 mJ Triple Pulse, 35 mJ</td> </tr> <tr> <td>Energy levels</td> <td>: Minimum 22 steps and above</td> </tr> <tr> <td>Pulse Repetition frequency</td> <td>Max. 2.5 Hz or less</td> </tr> <tr> <td>Focus diameter</td> <td>: 10 micron in air</td> </tr> <tr> <td>Angle of exit aperture</td> <td>: 16 degree or above</td> </tr> <tr> <td>Aiming beam</td> <td>: Laser diode 670 nm, Power: 5 micro W – 150 micro W, Aiming profile : Min. 4 point aiming beam for sharp focusing</td> </tr> <tr> <td>Focus shift variable</td> <td>: 1)+150 micron;0; -150 micron</td> </tr> <tr> <td>Electrical connection</td> <td>: 100 - 240 V, +(-)10%, 50-60 Hz, max. 104-0.7A, temporary max. 2.2A (less than 1sec)</td> </tr> </tbody> </table>	Characteristic	Values – Range	Laser Wave length	: 1064 nm	Structural mode	: Super Gaussian	Optical breakdown	: 2.5mJ in air minimum	Pulse length	: 4 ns or less in steps	Max. Laser Energy	: Single Pulse, 10 mJ Double Pulse, 23 mJ Triple Pulse, 35 mJ	Energy levels	: Minimum 22 steps and above	Pulse Repetition frequency	Max. 2.5 Hz or less	Focus diameter	: 10 micron in air	Angle of exit aperture	: 16 degree or above	Aiming beam	: Laser diode 670 nm, Power: 5 micro W – 150 micro W, Aiming profile : Min. 4 point aiming beam for sharp focusing	Focus shift variable	: 1)+150 micron;0; -150 micron	Electrical connection	: 100 - 240 V, +(-)10%, 50-60 Hz, max. 104-0.7A, temporary max. 2.2A (less than 1sec)
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		<p> Illumination : 12 V; 30 W halogen lamp, continuously adjustable Magnification : 5, 8, 12, 20 and 32x through Galilean changer with 10x eyepieces and tube f = 140 mm Tube : Parallel tube f = 140 mm with PD adjustment 50 – 78 mm, optional convergence tube Eyepieces : 10x high-eyepoint eyepieces with +/- 8 D compensation of ametropia Slit lamp : Laser unit should be with integrated Slit lamp Slit adjustment : Width: 0 - 14mm, continuous Length : in steps 1/3/5/9/14mm Accessories : Contact Lens for Iridotomy & Capsulotomy Beam Splitter Coobserver Tube The instrument should come with UPS back up. </p>
d	Operating Microscope	<p> Main Microscope <ul style="list-style-type: none"> • Achromatic optics • 5 Step Achromatic Magnification changer • Motorized Focussing • Speed control for focus • Tubes inclined 45° fixed, 170 mm • Eye pieces : 12.5 x • Objective focal length : 200 mm apochromatic • Day light Filter • Retinal protection device </p>

		<p>Illumination</p> <ul style="list-style-type: none"> • Fibre light guide with source as 12 V, 100 W halogen lamp. • UV filter Protection against infrared exposure <p>Floor Stand</p> <ul style="list-style-type: none"> • Weight carrying capacity – 6.5 Kg • Stand height – 1.25m • Suspension arm - Lifting Range :580mm Swivel angle : 355 degree Vertical lift : +/- 360 degree Lift Mechanism : Gas piston <p>The instrument should come with UPS backup</p>
e	Retinal Green Laser	<p>Laser Console</p> <p>Laser type Frequency doubled, solid state laser, diode-pumped, continuous wave</p> <p>Wave length 532 nm</p> <p>Power 1.5 W at the cornea</p> <p>Aiming beam Diode, 635 nm, max. 1 mW</p> <p>Power requirements 115 - 230 V, 50/60 Hz, max. 400 Watt</p> <p>Auto pulse 100 - 6000 ms pulse interval</p> <p>Pulse duration 10 – 2500 ms (cw)</p> <p>Cooling Thermoelectric</p> <p>Accessories Endoprobes, Laser Indirect Ophthalmoscope, Instrument Table, Table mount, Laser safety glasses, Contact lenses</p> <p>Slit Lamp</p> <p>Dedicated integrated Laser Slit Lamp of very high quality</p> <p>Laser beam delivery Co-axial via slit illumination and parfocal</p> <p>Laser spot diameter Continuously adjustable from 50 – 1000 microns, parfocal</p> <p>Micromanipulator Servo-electric, movement to be controlled from Joystic</p> <p>Physician safety Automatic swivel type.</p>

		<p>filter</p> <p>Magnification</p> <p>Slit adjustment</p> <p>Illumination</p> <p>Accessories</p> <p>The instrument should come with UPS backup</p>	<p>Filter should not be in the view when laser is not active</p> <p>5 / 8 / 12 / 20 / 32x</p> <p>Slit height : in steps 1 / 3 / 5 / 9 / 14 mm</p> <p>Slit width : continuous 0 – 14 mm</p> <p>12 V, 30 W; brightness continuously adjustable</p> <p>Tonometer, Video documentation for Slit lamps</p>
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SCHEDULE-8D

a	Indirect Ophthalmoscope (L.E.D) With 20.0D Lens	3
b	Schiotz Tonometer	4
c	Goldman Applanation Tonometer	1
d	Ocular Thorpe Four Mirror Gonioprism	1
e	Trial Lens Set	3
f	Cataract Set	
g	Ocular Abraham Iridotomy Lens	1
h	Colour Vision Chart (Ishihara)	4
i	Four Mirror Gonioprism	1
j	Koepe Gonio Lens	1
k	Ophthalmic Lens +90D	1
l	Ophthalmic Lens + 78 D	1
m	Hertel Exophthalmometer	1
n	Lacrimal Intubation Set	1

SPECIFICATION

a	Indirect Ophthalmoscope (L.E.D) With 20.0D Lens	<p><u>SPECIFICIATION:</u> Brilliant white light uniform, well illumination Full pupil features Stereo optical system Cobalt blue and green filters Compact and light weight Simple controls for adjusting the head band IPD adjustable from 50-75 mm Illumination area :80mm</p> <p><u>ACCESSORIES:</u> Marking colour Pencils Fundus chart Amsler' grid Scleral depressor DC power supply, Adaptor Double Aspheric volk lens 20D Co-observation mirror Carrying case</p>
b	Schiotz Tonometer	Chrome plated complete with foot plate and stainless steel plunger with jeweled hammer assembly.
c	Goldman Applanation Tonometer	<ol style="list-style-type: none"> 1. Measuring range: From 0 to 80 mmHg in 2 mmHg increments 2. Accuracy: ± 0.5 mmHg 3. Area of applanation: 7.354 mm² 4. Weight with accessories: 800g 5. Standard accessories: <ol style="list-style-type: none"> a) Calibration bar b) Prism c) Mount base d) Tonometer base Plate
d	Ocular Thorpe Four Mirror Gonioprism	<ol style="list-style-type: none"> 1. Four degree mirrors should give a 360⁰ view of the anterior chamber angle with only slight lens rotation. 2. Lens height 32.2mm 3. Contact diameter 18 mm 4. Static for 150⁰
e	Trial Lens Set	<ol style="list-style-type: none"> 1. The lenses should be 20mm in aluminum, amount of 38 mm diameter, anodized for minus and black for plus. 2. The sphere lenses with handle and cylinder lenses without handle. 3. Lenses Spheres: <ol style="list-style-type: none"> a) Concave & Convex 0.12D b) 0.25D to 4D in 0.25 steps c) 4.5D to 6D in 0.5 steps

		<p>d)7.0D to 14.0D in 1.0 steps e) 16.0D to 20.0D in 2.0 steps f) Prisms ½, 1,2,3,4,5,6,7,8,10,12 iv) Accessories Trial frames one adult size and one for child with adjustable slots. a) Red glass b) Green glass c) Pin hole d) Staenopeic Slit e) Two black discs f) Two occluders g) Jackson’s Cross cylinder / +/- 0.25 +/- 0.50 h) Maddox rod-2 i)Mirror retinoscope(Pristley smith mirror retinoscope) j)Near vision chart(Snellen’s)</p>																																																
f	Cataract Set	<table border="0"> <thead> <tr> <th><i>Name of the instrument</i></th> <th><i>Quantity required</i></th> </tr> </thead> <tbody> <tr> <td>Lim’s corneal forceps</td> <td>10</td> </tr> <tr> <td>1 x2 teeth small</td> <td></td> </tr> <tr> <td>Barraquer needle holder</td> <td>10</td> </tr> <tr> <td>Pierse type microforceps</td> <td>10</td> </tr> <tr> <td>Superior rectus forceps</td> <td>10</td> </tr> <tr> <td>Arruga capsule forceps</td> <td>10</td> </tr> <tr> <td>Lens folding forceps for foldable intraocular lenses</td> <td>05</td> </tr> <tr> <td>Iris forceps</td> <td>05</td> </tr> <tr> <td>Paton corneal dissector</td> <td>02</td> </tr> <tr> <td>Lewis lens loop</td> <td>10</td> </tr> <tr> <td>Castroviejo calipers</td> <td>03</td> </tr> <tr> <td>Towel clamp</td> <td>10</td> </tr> <tr> <td>Mc. Pherson forceps 10 mm straight</td> <td>10</td> </tr> <tr> <td>Micro iris scissor</td> <td>03</td> </tr> <tr> <td>Mc. Pherson forceps 10 mm, angled</td> <td>20</td> </tr> <tr> <td>Barraquer’s wire</td> <td>10</td> </tr> <tr> <td>Speculum, Medium</td> <td></td> </tr> <tr> <td>Barraquer’s wire</td> <td>10</td> </tr> <tr> <td>Speculum, Large</td> <td></td> </tr> <tr> <td>Wire Vectis (thin)</td> <td>10</td> </tr> <tr> <td>Irrigation vectis</td> <td>05</td> </tr> <tr> <td>Kansas nucleus bisector</td> <td>02</td> </tr> <tr> <td>Kansas nucleus trisector</td> <td>01</td> </tr> </tbody> </table>	<i>Name of the instrument</i>	<i>Quantity required</i>	Lim’s corneal forceps	10	1 x2 teeth small		Barraquer needle holder	10	Pierse type microforceps	10	Superior rectus forceps	10	Arruga capsule forceps	10	Lens folding forceps for foldable intraocular lenses	05	Iris forceps	05	Paton corneal dissector	02	Lewis lens loop	10	Castroviejo calipers	03	Towel clamp	10	Mc. Pherson forceps 10 mm straight	10	Micro iris scissor	03	Mc. Pherson forceps 10 mm, angled	20	Barraquer’s wire	10	Speculum, Medium		Barraquer’s wire	10	Speculum, Large		Wire Vectis (thin)	10	Irrigation vectis	05	Kansas nucleus bisector	02	Kansas nucleus trisector	01
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	Sinsky lens hook & manipulator	10
	Dastoor pupil and iris repositor	10
	Phaco chopper	10
	Bi-way Irrigation and aspiration Cannula	20
	Bi-way Irrigation and aspiration Cannula U shaped	10
	Pearce Hydro- dissectin cannula 35 ang,25G	30
	Kellan Hydrodelineation curved bevel tip 25G	10
	Rycroft air injection cannula	10
	Jaffe needle holder	10
	Jenson posterior capsule polisher with sand blasted olice tip	10
	Colibri forceps	20
	Capsulorrehxis forceps curved shaft utrata	10
	Kaltz needle holder	15
	Conjunctival spring scissors	10
	Shepard IOL forceps	10
	Artery forceps small curved	10
	Artery forceps curved Medium	10
	Plain straight scissors	10
	Blade baraker and holder	10
	Bard parker handle	10
	Tooke's knife	02
	IOL dialers	20
	Vanna's scissors straight	05
	Vanna's scissors curved	05
	Dewicker's scissors	05
	Round body half inch cutting needle	10pack each containing 10 needles
	Micro needle holder	10
	Jaffe Suture tying forceps	10

		<p>Silicone bulb with adaptor 20</p> <p>Thermal ball point cautery 10</p> <p>Castroviejo Corneal scissors straight 10</p> <p>Castroviejo Corneal scissors right cut 02</p> <p>Castroviejo Corneal scissors left cut 02</p> <p>Sterilization box with two silicone mats 10</p> <p>Chuck handle for holding microblades 10</p>
g	Ocular Abraham Iridotomy Lens	<p>1. It should have a 8 mm diameter, 66D magnifying lens.</p> <p>2. Lens height : 16.5 mm</p> <p>3. Image Magnification : 1.6 X</p> <p>4. Laser sport : 0.63x</p> <p>5. Contract Diameter : 15mm</p>
h	Colour Vision Chart (Ishihara)	Should be in original form and good quality prints 38 plates (complete edition)
i	Four Mirror Gonioprism	Four identical mirrors angled at 64 ⁰ should allow examination of the four quadrants without rotation of the lens.
j	Koeppe Gonio Lens	<p>1. Image magnification: 1.5 X</p> <p>2. Contact diameter: 18 mm</p> <p>3. Static FOV: 160 degree</p> <p>4. Size: Medium</p>
k	Ophthalmic Lens +90D	<p>1. Field of view : 74 /89</p> <p>2. Image magnification : 0.76x</p> <p>3. Laser spot magnification: 1.32 x</p> <p>4. Working distance: 7 mm</p>
l	Ophthalmic Lens + 78 D	<p>1. Field of view: 81⁰ /97⁰</p> <p>2. Image Magnification: 93 x</p> <p>3. Laser spot Magnification: 1.08x</p> <p>4. Working distance: 8mm</p>
m	Hertel Exophthalmometer	<p>1. Instrument designed to measure the forward protrusion of the eye.</p> <p>2. Dimension : 245(w) x 85 (D) x 20 (H) mm</p>
n	Lacrimal Intubation Set	<p>1. 40mm x 11 Cm (27 G x 4 ¼ inches) with olike shape tips</p> <p>2. Silicone tubing length 35 cm (14 inches)</p> <p>3. ID 30 mm(.012 inches)</p> <p>4. OD 64 mm(.025 inches) (3/sp)</p>

SCHEDULE-9

DEPARTMENT OF RADIOLOGY

SCHEDULE -9A

a	X-ray machine 60 M.a 100 M.a 600Ma	1 1 1
b	Rectangle Steel x-ray developing Containers (5 gallons) (insert tanks)(22.5 L)	set of 3-33

SPECIFICATION

a	<p>X-ray machine 60 M.a 100 M.a 600Ma</p>	<p><u>X-RAY MACHINE WITH MOTORIZED TABLE.</u></p> <ol style="list-style-type: none"> 1. Power Supply: 400/440V, 3 Phase 50 Hz, 30 KVA. 2. X-ray Tube: BEL rotating Anode tube unit with DRA-I tube Insert Focal spot 1.2 Sq.mm THX-1/125/DRA-I/20/40. 3. H.V. cables: Pair of 8 meter High voltages cables: with Receptical Coronacup, Sleeves. 4. Stand: Floor to ceiling column and with counter balanced counter wight for tube Head balancing, 360 Degree rotatable tube. 5. Revealex: Manual spot film device with lead Glass 14``X 14`` & Grid 6:1 size, 14``x14`` 6. Table: Motorized table with bucky assy. Fully counter balanced 15 degree tendelberg to vertical motor operated multi position table fitted counterbalanced motorized Bucky & Grid size 17 ¾ X 18 7/8: Ration 8:1, 85 Lines / Inch, Stainless steel cassette Tray. 7. H.T. Transformer: Compact Heavy Duty Transformer comprising HV silicon rectifiers, HT transformers, Federal Bushing all immersed in oil. 8. Generator: 300mA, 100KVP full wave silicon rectified X-ray generator for Radiography, Fluroscopy and spot filming. 9. Rating : Radiography <ol style="list-style-type: none"> a) Small Focus: 50mA – 40 to 100 KVP 100mA – 40 to 100 KVP b) Large Focus: 100mA -40 to 100 KVP 300mA – 40 to 100 KVP c) Fluroscopy : 0-5mA at 40 to 100 KVP. 10. Static Balancer: Phase reducing transformer 30 KVA- 3 Phase Transformer. 11. Accessories: Hand Switch with Flexible long cord enable the operator to keep the Radiation area during exposure. <ol style="list-style-type: none"> a. Foot Switch b. Aluminum Filters 0.5 mm and 1 mm light c. Beam Diaphragm. <p><u>60MA MOBILE X-RAY UNIT</u></p> <ol style="list-style-type: none"> a) Digital display of mA, mAx, KVP. b) Semi feather touch membrane for on/off.
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		<p>Bucky In/Out, SFD/Screening</p> <p>c) Tube head with vacuum tube insert.</p> <p>d). Mobile stand with Flexi Arm.</p> <p>e). Collimeter for centering the patient along with table.</p> <p><u>100mA</u></p> <p>100mA Mobile X-ray unit 1. Digital display of mA, mAx, KVP</p> <p>2. Semi feather touch membrane for on/off, Bucky In/out, SFD, screening.</p> <p>3. Tube head with vacuum tube insert.</p> <p>4. Mobile stand with Flexi Arm.</p> <p>5. Collimeter for centering the patient along with table.</p> <p><u>600Ma X-RAY MACHINE WITH MOTORIZED TABLE</u></p> <p>1. Power supply : 400/440V, 3 Phase 50 Hz, 30 KVA.</p> <p>2. X-ray tube: BEL rotating Anode tube unit with DRA-I tube insert focal spot 1.2 and 2.0 Sq.mm THX-i/125/DRA-I 20/40.</p> <p>3. H.V. cables: Pair of 8 meter High voltages Cables: with receptical, Coronacup, Sleeves.</p> <p>4. Stand: Floor to ceiling column and with counter balance counter weight for tube Head balancing, 360 Degree rotatable tube.</p> <p>5. Revealex: Manual Spot film device with lead Glass 14" x 14" & Grid 6:1, Size 14" x 14".</p> <p>6. Table: Motorized table with bucky Assy. Fully counter balanced 15-degree tendelberg to vertical motor operated multi position table fitted with counterbalanced motorized bucky and Grid size 17 3/4 x 18 7/8": Ratio 8:1, 85 Lines / Inch, Stainless Steel cassette Tray.</p> <p>7. H.T. Transformer: Compact Heavy Duty transformer comprising HV Silicon Rectifiers, HT transformers Filament Transformer, Federal Bushing all immersed in oil.</p> <p>8. Generator: 500 mA, 100 KVP Full wave silicon Rectified X-ray Generator for Radiography, Fluoroscopy and Spot filming.</p> <p>9. Rating: Radiography: Small Focus: Small Focus :50mA -40 To 100 KVP 100 mA -40 100 KVP Large Focus: 200 mA-40 to 100 KVP 500 mA -40 100 KVP</p>
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		<p>10. Static Balancer: Phase reducing transformer. 30 KVA -3 Phase Transformer.</p> <p>11. Accessories: Hand switch with Flexible long cord enables the operator to keep from the radiation area during exposure. – Foot switch, Aluminum Filters 0.5 mm and 1 mm light, beam Diaphragm..</p>
b	Rectangle Steel x-ray developing	Containers (5 gallons) (insert tanks)(22.5 L)

SCHEDULE -9B

Minor Equipments required	M Cassette Holders 15x12 15x10 10x8 6.5x8.5 14x17	15 of each size 15 of each size 15 of each size 15 of each size 4
	2) Hangers (X Ray) 15x12 12x10 10x8 6.5x8.5 14x17	5 each size 5 each size 5 each size 2 each size 4
	3) Lead Protection screen Three section Lead Protection Screen Single section	1 1
	4) Lead Apron	5
	5) Plastic Apron	4
	6) Thyroid Guard	6
	7) HSG Set	2 sets
	8) Lead Nos [0-9]	5 sets
	9) Lead letters[R&L] Lead letters[A to Z]	10 5sets
	10) Lead Blockers 7x17 12x6	1 each 1 each
	11) Gonald Shield	6
	12) Lead Gloves	6
	13) KG4 fitted Pit cassettes 6.5x8.5 8x10 10x12 12x15 14x17	1 1 1 1 1
	14) SS Developing Master tank 9.0 Ltr 2 Gallon 13.53 Gallon	1 1
	15) Powder Fixer 9.0 Ltr(Photon Brand)	1
	16)Lead Sheet 1mm tickness	1 Sqft
	17) Film Dryer 10 Film capacity	1
	18)Chest stand –Floor Model	1
	19) Chest stand –Wall model	1

SCHEDULE -10

DPARTMENT OF DERMATOLOGY

a	Phototherapy whole body unit	1
b	Magna vision	3
c	Fractional Co2 Laser	1
d	a. Table with lithotomic cut	1
	b. OT Table	1
	c. OT Light	1

SPECIFICATION

a	Phototherapy whole body unit	<ol style="list-style-type: none"> 1. Special UV chokes for maximum life for the tubes. 2. Cabinet made of high quality steel and powder coated. 3. In-built Multi sensor dosimeter with Dynamic Range Angular Sensitivity (DRAS) Technology. 4. Cumulative hour meter in embedded system with password. 5. Four-line liquid Crystal Display for the control panel and Feather touch key pad provided. 6. Lock and Key for the control panel. 7. Computer Calculated arrangements of the tubes, to enable an even illumination of the body in the treatment field. 8. All safety features with trippers and independent control for each panel. 9. Cooling systems for each panel to service and assemble (Modular design) <p>In built Multi sensor dosimeter with Dynamic Range Angular DRAS Technology According to UV Radiation Dosimeter and Calibration Guidelines:</p> <ol style="list-style-type: none"> 1. The meter should have a liner dynamic range appreciation for therapy sources i.e., 0.05-50 on W/CM². 2. The sensor should be repaired accurately to radiation independently of its angle of incidence on the sensor i.e. less than 5% deviation from sensor weighting.
b	Magna vision	<ol style="list-style-type: none"> 1. Floor Stand model 2. 6X magnify power lens. 3. It can be serviced at any place. 4. It contains built in choke (Shock proof) 5. 22V power ring tube for clear view
c	Fractional Co ₂ Laser	<p><u>Normal Mode:</u> Wavelength : 10.6µm-infrared laser Pulsed radio frequency : 1-30 W Hyper- Pulse: Max Power 120 W Pulse: Average Power: 1-20 W Pulse frequency: 33.3 Hz</p> <p><u>Matrix mode:</u> Scan Graphics : Square, Rectangle, round & Oval Dot quantity: 400 dots maximum Working state: Hyper- Pulsed mode</p>

		<p>Scan mode: Sequence scan or Random scan Pulse energy: 20 mj to 100mj is optional for each dot in each energy repeat Energy repeat: 1-5 times Max energy: 65mj* 5=325 mj in each dot Technical Specification: Laser apparatus : Scaled – off laser device stimulated by directed current Condenser focus : f= 100mm Beam divergence angle : 0.3 mrad Spot size : Min 0.2 mm at the focus Max Power intensity : 75,000 W/cm2 Radiation time : 0.01~1 sec Interval time : 0.01~1 sec Aiming beam : Less than 2m W, 635 nm red semiconductor laser Beam transport device : Articulated arm with six segments Power Supply : 230V/110V</p>
d	<p>a. Table with lithotomy cut b. OT Table c. OT Light</p>	<p>O.T. Table for minor surgery with side end controls Table top shall have 4 sections made of S.S. as per ISI Base should be solid and mounted on astistatic rubber castors – lockable Table top to have facility for tredelenburg/reverse tredelenburg tilt of 30+ 1 Lateral tilt of 20+ 2 in either directions Mechanical up and down movement facility without any jerks Detachable facility for head section Facility of lowering leg section by 90 for chair position Accessories for back and seat section pads for back and seat section arm posturing device wrightslets anaesthesia screen infusion rod, height adjustable to be mounted on operation table padded horse shoe shaped head rest</p> <p>1.Should be of international quality with certification like CE/FDA etc 2. dual dome system with suspension arm system with capability of revolving 360` freely. 3. Color temperature should be preferably 4300k</p>

		<p>4. Each dome brightness of light should measure 9,300ft. candle(1,00,000 lux each)</p> <p>5. Light should be of dome type(Single bulb with multi facet reflector technology) and should be suitable for laminar flow theatres.</p> <p>6. Should have a secondary bulb inbuilt with automatic switchover, incase of primary bulb failure.</p> <p>7. There should be an indicator if the bulb fails.</p> <p>8. Life of the bulb should be atleast 1000hrs.</p> <p>9. Should have inbuilt advanced heat sorb filters to filter 95% of heat generated and provide cold light.</p> <p>10. Temperature increase at surgeons head should be lesser than 2 deg.</p> <p>11. Maximum dept of field without refocusing should be 70cm(27.6``).</p> <p>12. Maximum height adjustment of light head should be 118cm</p> <p>13. More preferably, the mechanical movement should be designed in such a way that the light head can be positioned parallel to the height of the table.</p> <p>14. 1 Extra bulb and 2 sterile handles to be supplied.</p>
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SCHEDULE 11

DEPARTMENTN OF DENTISTRY

SCHEDULE-11A

a	Electrically Operated Dental Chair Unit with Intra – oral X-ray Compatible with RVG including air Compressor	1
b	Electrically Operated Dental chair unit with air Compressor	1
c	Fluorescent Light With Digital Camera To Detect Pre- Malignant Lesion (Velscope)	1
d	Intra Oral X-Ray Unit	1
e	Fully Equipped Metallic, Ceramic, Acrylic PROSTHETIC LAB SET	1

SPECIFICATION

a	Electrically Operated Dental Chair Unit with Intra – oral X-ray Compatible with RVG including air Compressor	<p>Electrically Operated Multi programmable Dental Chair.</p> <p>Chair Mount Unit fitted with:</p> <ul style="list-style-type: none"> a) Operating Light with most latest sensor controlled to avoid any stagnant infection. Two intensity illumination. 15,000 to 25,000 Lux b) Auto water connection for Spittoon and Tumbler. Spittoon of Porcelain. a) STAINLESS STEEL INSTRUMENT TRAY for keeping instruments. b) LED X-RAY VIEWER c) Monitor Mounting arm with integrated wiring <p>Modular(Delivery System over patient) fitted with:</p> <p>1. AIROTOR</p> <ul style="list-style-type: none"> • One Ariotor Point with Supper torque hand piece • One Fibreoptic Airtor- with troque hand piece • Supreme Micrometer- Straight and contrahngle Kavo hand pieces • EMS Scaler with 3 Scaling tips • Light Cure unit (Gun type) • Two – 3 way syringes • Oil free Medical grade Monobloc 1.5 HP Noise Less Compressor • Dental X-ray unit with 70 KV , 7 MA Seissor Arm should be Attached to the chair with Digital timer Dental X-ray with Dental Arch timer • RVG – Radio visio Graph Compatible with X-ray system with Complet image throughout the Active area .Fibre optic filter to protect the CCD,chip CCD sensor s1. 36x23x5. • Moniter monting arm with integrated wiring computer system with scanner & printer –P1V, 300 GHZ or above , RAM 512MB, HDD-80GB, CD – Writer, LCD flat Monitor 15” operating system window XP <p>Zero backache Stool.</p>
b	Electrically Operated Dental chair unit with with air Compressor	<p>Electrically Operated Dental chair unit with the Following Attachments :-</p> <ul style="list-style-type: none"> • High & low vacuum Suction (Motorised) with Flow Control Auto Drain & Auto Flush System • One Airtor Point • One Fibreopitc Airtor - Super torque Airtor hand piece • Supreme Micromotor- with NSK hand pieces straight & Contra angle • EMS Scaler with 3 Scaling tips • Light cure unit (Gun type) • Two- 3way syringes • X-ray Viewer • Oil free Medical grade Monobloc 0.75 HP Min.

		<p>Noise Compressor fitted on M.S. Tank</p> <ul style="list-style-type: none"> • Surgi Dental operator Stool
c	Fluorescent Light With Digital Camera To Detect Pre-Malignant Lesion (Velscope)	<ul style="list-style-type: none"> ◆ Fluorescent light should enhance the visualization of Oral mucosal abnormalities that may not be apparent or visible to the naked eye such as Oral cancer or pre-malignant- Powerful Light Source Unit ◆ Handpiece with Fibre optic light guide ◆ Painless, non-invasive, with no rinses or stains required ◆ An examination with the system should takes only one or two minutes and is easy to incorporate into your workflow ◆ Flexible positioning: space-saving vertical or low profile horizontal orientation... your choice ◆ • Disposable anti-fog helps maintain asepsis and protects the Handpiece special filtering optics <p>Camera: Resolution : 9.00 MP Lens : 10.00x (36-360mm eq) Viewfinder : LCD LCD Size : 3.0 inch ISO : 80 -200 Shutter : 15-1/2500 Max.Aperture : 2.8 Mem Type : SDH/SC Battery : 2 X AA</p>
d	Intra Oral X-Ray Unit	<p>Generator: Constant potential DC, microprocessor controlled with high operating frequency</p> <p>Focal spot: 0.7 mm</p> <p>Tubehead design Non-symmetric form – tube head plane, tangential to cone for better occlusal images and accurate targeting</p> <p>Filtration: min 2 mm Al</p> <p>Anode voltage, 50 – 70 kV small, multiple steps adjustable:</p> <p>Anode current, 2 – 8 mA DC multiple steps adjustable:</p> <p>Programming Programmable settings for Adult/child mode, different type of teeth, different dental specialties and different image receptors</p> <p>Exposure time: 0.01-3.2 s, small, multiple steps</p> <p>Reach: Upto approx. 2 m.</p> <p>Control panel Handheld</p>

e	Fully Equipped Metallic, Ceramic, Acrylic PROSTHETIC LAB SET	<p><u>Motor Cast 1 No</u></p> <ul style="list-style-type: none"> • Motor driven casting machine, equipped with a centrifugal arm. ◆ Double articulation of the centrifugal arm, transfers the metal from the crucible to the ring instantaneously. ◆ Closure of door initiates rotation of the arm and also provides safety while arm is rotating. ◆ No foundation required for this sturdy, table top motor cast. ◆ 0 to 90 Sec. (600 rpm). <p><u>Burnout Furnace 1No</u></p> <ul style="list-style-type: none"> • Electronic Microprocessor operation • Capable of reaching 1100 C • Possibility of programming and storing temperature and heating rate. • Digital controls • Protection against accidental data cancellation • Large luminous display for secure immediate data reading during programming and work procedures • Acoustic beepers • Safety fuses • Signal in event of broken thermocouple and automatic deactivation of element • Door with magnetic closure • Safety microswitch connected to door when door is opened the oven chamber power supply is disconnected • Data and timer settings maintained in the event of a power failure <p><u>Vibrator</u></p> <p>High quality having rigid and sturdy platform It should be a table top model with rubber gasket on the for easy & convenient cleaning.</p> <p><u>Lathe</u></p> <ul style="list-style-type: none"> • Heavy duty, continuous rating motor • Well balanced bearing for smooth work • Supplied with different attachments • 1,400/2,800 rpm <p><u>Sand Blasting Machine with Compressor</u></p> <p>The double jar sand blaster offers excellent results which until was achieved only by very expensive devices. USED for roughing and polishing of metals ceramic & acrylic materials Excellent ergonomics, Aluminum oxides from 50 microns to 250 microns can be used, Inner air gun, Highly durable long lasting blasting tips of 2 sizes provides precision sand blasting</p>
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Lab Micromotor with control and Handpiece - 1 No.

MATERIALS /INSTRUMENTS

- BrushKit(#0,#1,#6,#7,#8(2nos), Synthetic#3,#4,Sable #5) - 1 Set
- Measuring gauge (wax, metal) - 2 Nos
- Sand- 10 Kgs each
- 110 micron
- 250 micron
- Ceramic Alloy-non Beryllium - 1 Kg
- Nickel Chrome Metal 1 Kg
- Investment-SG (Henrivest)
- Carborandum discs –Big -1 Box
38mm x 1mm(50 Nos)
- Fiber glass reinforced cut-off disc ½ Box
size:1-1/4”Ø0.047(50 nos)
- Carborandum discs small- 22mm dia 0.6mm
thickness(100 Nos in a box) 1 Box
- Corbarondum Grinding Wheels –32mm dia 3 mm
1 Box (100 Nos in a box)
- Mandrels 12 Nos
- Meister cones (1 yellow, 1 green) 2 Boxes
- Blue Rubber wheels (100 Nos in a Box) 1 Box
- Grey Rubber wheels(100 Nos in a Box) 1 Box
- Rubber cones (100 Nos in a Box) 1 Box
- Pearl surface polish
- Diamond discs- small with mandrel 3 Nos
- Sintered diamond trimmers 3 Nos
- Meister point-intro set kit 1 Box(3 Nos)
- P.K. Thomas wax carving instrument 5 color
metallic handle 1 Set
- Magic separator brush 1 No
- Porcelain mat(Round) 1 Set
- Mounted Stones
 - a. Green#13 (Box of 100 Nos) 1 Box
 - b. Pink#P20 (Box of 100 Nos) 1 Box
- Glaze powder(10g) 1 No.
- Es Liquid(10 ml) 1 No.

Acrylic Prosthetic Lab

Acrylizer

- Anlong of digital type programming
- Analong control unit with 2 timers & 2 temp controls
- Programmable pre – heating time & temp curing time & temp
- Capacity -8 flasks or as per requirement.

Dewaxing Bath

- Stainless steel body

		<ul style="list-style-type: none">• Electronic controlled• Used for Dewaxing in fabrication of dentures• Capacity – 8 flasks <p><u>Mechanical Press</u></p> <ul style="list-style-type: none">• A simple manual press• For pressing large & small flasks• Sturdy metal body <p><u>Hydraulic Press</u></p> <ul style="list-style-type: none">• Hydraulic presses for pressing flasks• Allows up to 3 flasks at a time• High quality Continuous working results• 150.000 Kilos
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SCHEDULE-11B

a	Electro Surgical Cautery	1
b	Glass Bead Sterilizer	2
c	Table top front loading Dental Autoclave	1
d	Implant Micro Motor (Micromotor for surgery & Implantology) with Straight & Contra Angle Handpieces	1

SPECIFICATION

a	Electro Surgical Cautery	The waveform should represent the current in sinusoidal and \square wavelin by unmodulated amplitude and high spectrum purity, and should be totally free from overlapped modulations, which as is it known will cause unwanted coagulation effects, by inducing higher lateral heat on the electrode.
b	Glass Bead Sterilizer	Should be Portable, easy to handle with a very low current consumption.. Instruments kept only for 10 to 30 seconds and should be ready for use. With High quality glass for retaining the temperature. Minimum Unit power consumption for day long work. On reaching 215 Degree Centigrade, indicator light should be on and the unit should be ready
c	Table top front loading Dental Autoclave	<p><u>Features :</u></p> <ul style="list-style-type: none"> • Table Top Front loading Autoclave • Fullay automatic Micro – Processor based control • Temperature select 121 C & 134 C • Wet & dry cycle <p><u>Specification</u></p> <ul style="list-style-type: none"> • Chamber Size:225mm Dia x 430 mm Depth • Outer Dimensions : W 580mm x H 430mmx D 600mm • Coil :1.5KW/230VAC <p><u>Accessories to the Provided</u></p> <ul style="list-style-type: none"> • 3 nos . SS trays , 1 tray stand , tray holder • Autoclaves SS Box with Silicon spike mat lockable – 2nos • Autoclaves SS Instruments tray Slicon beading 10 slots lockable -2 No
d	Implant Micro Motor (Micromotor for surgery & Implantology) with Straight & Contra Angle Hand pieces	<p>A High torque coreless Micromotor runs at a speed of 35.000rpm & at a constant torque from start to finish . Steady & dependable operation the applications include all surgery implantology , Orthopaedic, ENT etc, Operational flexibility to meet a variety of surgery demands. Combines with good quality handpieces to create desired speed & torque</p> <p><u>Hand pieces</u></p> <ul style="list-style-type: none"> • 4:1 Speed increaser Contra Angle Handpiece • EX – VI 1:1 Straight Handpieces

SCHEDULE-11C

a	Vapoclave (Big Size)	1
b	Ultrasonic Cleaner	2
c	Ultraviolet Cabinet	1

SPECIFICATION

a	Vapoclave (Big Size)	Ultra Violet Cabinet to store the sterilized instruments, small trays to keep the instruments . Three Drawers to keep the tray. Alternatively Cabinet lamp will ON as soon as door closes, Lamp will be OFF when the door opens. Complete aluminum Construction epoxy coated. All internal Chambers with S.S lining.
b	Ultrasonic Cleaner	Tonic capacity -12mtrs size in mm 325x26x150 supply voltage 230VAC at 50HZ
c	Ultraviolet Cabinet	Body overall size (590x296x200mm) Small trays -9 Deep trays-3 Magnetic ders lect – Door Activated switch MAINS switch

SCHEDULE-11D

a	Instruments Set For Osteotomy - Maxillo facial	1set
b	Instruments For Cleft Lip & Palate	1kit
c	Instruments & Materials For Bone Grafting (Periodontal & Maxillo facial)	1kit
d	Trauma kit - Maxillo facial Trauma Basic Instruments set for Bone Plating - Maxillo facial	1kit 1kit
e	Conservative & Endodontic Instruments	5 set
f	Minor Surgery OT Instruments - Maxillo facial	1kit

SPECIFICATION

a	Instruments Set For Osteotomy	<p> Periosteal Elevator Fibre Handle (No. 5) Bone Cutting Forceps Double Action Curved 5.5” Bone Nibbler Double Action Curved 5.5” Tessier Osteotome Straight 5mm, 10mm & 15mm Tessier Osteotome Curved 10mm Fine Osteotomes Straight 4mm, 6mm , 8mm Fine Osteotomes Curved 6mm Fine Chisels 6mm Nylon Faced Hammer Medium Calipers Castroviejo Bone Trepine Medium Cartilage Crusher Rectangular Shape Pterigoidous Chisel 10mm S. S. Box For General Instrument Small </p>
b	Instruments For Cleft Lip & Palate	<p> Dingman Mouth Gag with 3 Blades Adults Cleft Palate Raspatory – French Pattern Right & Left in Pair Cleft Palate Raspatory – Barsky Type Double Ended Cleft Palate Raspatory - Curved Up & Down McIndoe Cleft Palate Raspatory Medium Mitchell Trimmer Cleft Palate Knife Triangular Cleft Palate Hook Right Angle Cleft Palate Hook Down Bent Cronin Cleft Palate Elevator – Medium Right Palate Dissector Right & Left in Pair Miller Bone File Curved Elevator Double Ended – Angled Right & Left Elevator Double Ended – Side & Flat Howarth Elevator Kilner Skin Retractor S. S. Box For General Instrument Medium </p>
c	Instruments & Materials For Bone Grafting (Periodontal & Maxillo facial)	<p> Periosteal Elevator Fibre Handle (No. 5) Bone Cutting Forceps Double Action Curved 5.5” Bone Nibbler Double Action Curved 5.5” Tessier Osteotome Straight 5mm, 10mm & 15mm Tessier Osteotome Curved 10mm Fine Osteotomes Straight 4mm, 6mm Fine Osteotomes Curved 6mm Fine Chisels 6mm Nylon Faced Hammer Medium Calipers Castroviejo Bone Trepine Medium Cartilage Crusher Rectangular Shape Pterigoidous Chisel 10mm Aluminum General Box Anodized Small </p>

		Perio pack Bone Graft & Bio Bone – 20pack
d	Trauma kit - Maxillo facial Trauma Basic Instruments set for Bone Plating - Maxillo facial	Self Holding Screw Driver 1.5,2,2.5mm Ordinary Screw Driver 1.5,2,2.5mm Plier Modelling Lever Wire Cutter – Regular Wire Twisting Forceps Bone Holding Forceps – Pointed 6” Kelsey Fry Bone Awl – Fibre Handle Simple Scale – 6” Aluminum General Box – Anodized Small
	Stainless Steel Box -	Plier Plate Bending Forceps – Modified Modelling Lever Self Holding Screw Driver – 1.5,2,2.5mm Ordinary Screw Driver – 1.5,2,2.5 Mm Bone Holding Forceps In Pair Plate Holding Forceps Screw Holding Forceps X Action Depth Gauge 1.5, 2mm Trocar Sleeve – Drill Guide Bone Elevators In Pair Mini Bone Plates And Mini Screws (Slotted Head) In S.S Box Contents: Mini Plates – S.S 1.5mm With Bar 2h-2,4h-2,6h-1 Mini Plates – S.S 1.5mm L-90 Small & Big L & R Mini Plates – S.S 1.5mm “T” Shape Small & Big Mini Plates – S.S 1.5mm Orbita 4h, 6h With Bar Mini Plates – S.S 2.0mm With Bar 2h-2, 4h-2, 6h-1 Mini Plates – S.S 2.0mm L-90 Small & Big L & R Mini Plates – S.S 2.0mm “T” Shape Small & Big Mini Plates – S.S 2.5mm With Bar 2h-1, 4h-4,5h-1,6h-1 Mini Screws – S.S 1.5mm X 4mm – 10, 6mm- 15, 8mm – 10 Mini Screws – S.S 2.0mm X 6mm – 15, 8mm – 15, 10mm – 10 Mini Screws – S.S 2.5mm X 8mm – 10, 10mm –10, 12mm – 5
	Titanium Plates	Mini Plates 1.5mm With Bar 2h-2,4h-2,6h-1 Mini Plates 1.5mm L-90 Small & Big L & R Mini Plates 1.5mm “T” Shape Small & Big Mini Plates 1.5mm Orbita 4h, 6h With Bar Mini Plates 2.0mm With Bar 2h-2, 4h-2, 6h-1 Mini Plates 2.0mm L-90 Small & Big L & R Mini Plates 2.0mm “T” Shape Small & Big Mini Plates 2.5mm With Bar 2h-1, 4h-4,5h-1,6h-1 Mini Screws 1.5mm X 4mm – 10, 6mm- 15, 8mm – 10 Mini Screws 2.0mm X 6mm – 15, 8mm – 15, 10mm – 10

e	Conservative & Endodontic Instruments	<p>Mini Screws 2.5mm X 8mm – 10, 10mm – 10, 12mm – 5</p> <p>Spoon excavator : Double ended medium sized spoon excavator for soft caries removal</p> <p>Plastic filling instrument : double ended instrument, one side rounded and the other side flat</p> <p>Ball burnisher : double ended medium sized burnisher for merging the amalgam restoration with the cavity walls</p> <p>Amalgam carver : double ended hollenback carver</p> <p>gingival marginal trimmer : double ended instrument for the ¶ wivelin of the gingival margins. Comes as paired instruments (mesial and distal)</p> <p>composite polishing kit : This complete kit is for the preparation and fining of composite fillings. Kit consists of 16 burs which includes 8 FG burs and 8 RA burs including 4 finishing burs.</p> <p>K-files : Used for initial debridement and to enlarge the root canals. Available in assortments of 15-40 and individual size of 8 and 10 and 21 mm and 25 mm length.</p> <p>H-files : Used for initial debridement and to enlarge the root canals. Available in assortments of 15-40 and 45-80 and length of 21 mm and 25 mm.</p> <p>Reamers : Used for initial debridement and to enlarge the root canals. Available in assortments of 15-40 and 45-80 and length of 21 mm and 25 mm.</p> <p>Spreders Size :15- 40 & 45-80 of length 21 mm and 25 mm</p> <p>Plugger of size:15- 40 & 45-80 of length 21 mm and 25 mm</p> <p>Amalgam carrier : stainless steel single ended instrument to carry the amalgam to the prepared cavity.</p> <p>Screw pins: Assortments of a total of 120 titanium obturation screws along with a key and a screw driver.</p>
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		<p>Niti flexo files : Niti files for easy usage in the curved root canals due to their extreme flexibility</p> <p>Sodium Hypochloride soln. : Columbia curette. Can be used in all the quadrants of the mouth due to its angulation..</p> <p>Universal currettes : Unimatrix – 50 assorted sectional matrices + 2 clamps.</p> <p>Matrix retainers with bands : Polyester Matrix Strip - 200 strips of 0.05mm x 10mm x 100mm</p> <p>Matrix celluloid strip</p> <p>Articulating paper : double ended serrated round amalgam condenser</p> <p>Amalgam condenser : Automatic mixing of silver alloy & mercury.</p> <p>Amalgamator : double ended instrument for sharpening the line angles in the cavity.</p> <p>Enamel hatchet</p> <p>Tofflemire retainer : Universal straight matrix retainer with CE marking</p> <p>Composite finishing kit : This complete kit is for the preparation and fining of composite fillings. Kit consists of 16 burs which includes 8 FG burs and 8 RA burs including 4 finishing burs.</p> <p>Barbed broaches : Barbed broaches used for pulp removal is available in assortments of 15-40 and of 21 mm length. Available as 1 pack of 12 tubes of 15-40 size.</p> <p>Cement spatula : Double ended stainless steel instrument with CE marking</p> <p>Endo box dispodent : Pulpadent endo box are lockable as well as autoclavable.</p> <p>Chip Blower : Set of 8 scalers which are single ended. Consists of anterior jaquette scaler, posterior jaquette scaler, surface scaler and interdental scaler.</p> <p>Supragingival scalers : Single ended instrument for marking the pocket depth. Has markings at 1-2-3-5-7-8-9-10. Instrument is CE marked.</p> <p>Williams Probe:</p>
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f	Minor Surgery OT Instruments - Maxillo facial	Mouth Mirro With Handle : 1 00 Nos Straight Probe : 100 Nos Tweezer : 25 Nos B.P Handle No 3 :10No B.P Blade No 11 & 15 (Box Of 100pcs) Mosquite Artery Forceps St & Cvd :10Nos Artery Forceps St & Cvd :10Nos Adson Tooth & Non Tooth Forceps :10Nos Bandage Cutting Scissor :10Nos Suture Cutting Scissor:10Nos Metzenburn 6" Straight & Curved :10Nos Fine Irish Type - Straight Curved :10Nos Needle Holder :10Nos Allis Tissue Holding Forceps :10Nos Plastic Cheek Retractor Adult & Pedo : 5 each pair Molt Elevator: 5 Nos Howarth Elevator: 2Nos Austin Tissue Retractor H/Moon & Fork: 2Nos Catspaw Retractor :5Nos Small Lucas Currettes Double Ended:2Nos Miller Bone File Straight:5Nos
		Bone Nibblers Single Action St & Cd 51/2" :2Nos S.S White Burs (Straight & Round):25each Fine Chesels St 4mm,6mm,:2Nos Nylon Faced Hammer Medium:2Nos Heister Jaw Opener Regular :2Nos Mouth Props Set Of 3 :2Nos Tongue Depressor 5Nos Ferguson Mouth Gag :2Nos Coupland Elevator Set Of 3: 2set Straight Elevator : 5Nos Warwick James Elevator St , Lt & Rt :2set Third Molar Forceps Maxillary & Mandibular :5set Wire Cutter : 2Nos (Diamond Tip) Towel Clips : 25Nos Aluminum General Box Anodized Big : 1Nos

SCHEDULE-11E

a	Prosthodontics (Instruments & Materials)	
b	Oral Surgery Instruments	
c	Orthodontia Instrument	
d	Oral Medicine And Radiology Instruments	

SPECIFICATION

a	Prosthodontics (Instruments & Materials)	<p>Plaster Knife : 5Nos</p> <p>Plaster spatula (Straight & Curved) : 10each</p> <p>Lecron Carver :10 Nos</p> <p>T Burnisher :5Nos</p> <p>Glass Plate :5Nos</p> <p>Dental Flask & clamp : 5 Pair</p> <p>Rubber bowl (big & small) :10pair</p> <p>Complete bur set for crown and bridge preparation. Kit consists of 9 burs out of which 7 are diamond burs and 2 are carbide burs : 100set</p> <p>Cavity cutting burs : Full set :200set</p> <p>JOTA diamond burs basically consist of the shank plus a hardened, stainless profiled body which is coated with only selected, diamond grains using state-of-the-art electroplating techniques. Cavity cutting burs consists basically of round bur, straight fissure bur, inverted cone bur and tapering fissure Bur</p> <p>Wax Knife :10 Nos</p> <p>Wax Spatulla :10 Nos</p> <p>Full teeth set (Shade, 23,24,) : 100each</p> <p>Anterior teeth set of 6 (Shade, 23,24,25) : 100each</p> <p>Posterior teeth set of 6 (Shade, 23,24,25) : 100each</p> <p>Heat cure powder & liquid : 3 Kg pack (Color Light Pink) : 5 Nos</p> <p>Cold cure powder & liquid : 3 Kg pack (Color Light Pink & clear) : 5 Nos</p> <p>Felt Cones :100Nos</p> <p>Cotton buffs :100Nos</p> <p>Acrylic trimming stone Bur (Cone type) :2pack</p> <p>Trimming Stone (Lathe wheels) :10 Nos</p> <p>Acrylic trimming Metal Bur :20Nos</p> <p>Fishers Bur :2 pack</p> <p>Sand paper 100mm,120mm :50 sheet each</p> <p>Moddeling wax (hindusthan) :10 box</p> <p>Base plate (super nal) :10 box</p> <p>Seperating Media 5 ltr : 3 Nos</p> <p>Pumice powder 1 Kg pack :10Nos</p> <p>Green stick :25 box</p> <p>Polishing Cake (Green & White) : 5 Nos each</p>
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		<p>Alginate Powder (Algitex) 3Kg : 5 Nos each Dental stone 3 Kg pack : 10Nos Dental Plaster of Paris 5Kg :5Nos Die stone 1 Kg pack :5 Nos Zinc oxide impression paste :10pack <u>Impression trays</u> Dentulous (U/L, No 2,3,4) Edentulous (U/L, No 2,3,4) Perforated & Non Perforated : 5 set each Crown- remover (pneumatic & Manual) :2aet each Inlay wax :3box Articulators (mean value & Hinge) :5 each Articulators paper :2pack Tooth making powder for crown & bridge :4box each (SC 10, shade A ,B,C, D) heat cure Cold Cure Tooth making powder for crown & bridge :4box each (SC 10, shade A ,B,C, D)</p>
b	Oral Surgery Instruments	<p>tooth extraction forcep : Stainless steel forceps with pointed beaks and good grip for easy handling. Instrument is CE marked. : 2set Cross bar elevator : 128-250 fig 5 – 12L & 12 R :2set periosteal elevator : wiveling straight periosteal elevator which is double ended :10 set wivel elevator : Paired stainless steel instrument of right and left side for root elevation. Instrument is CE marked. :2set Elevators set of 9 : 1set Warkwick james elevator which is a paired instrument , right and left sided. Coleman hospital straight elevator which is a straight elevator which serrations for better grip Coleman hospital elevator which is a paired elevator which serrations for better grip. Winters cross bar elevator which is a paired instrument right and left. Barry elevator which is a paired instrument right and left sided. It is a modification of winters cross bar Bein wivelin elevator which is a straight elevator available in different sizes Straight elevator: wiveling straight periosteal elevator which is double ended. : 5 set Needle holder: Adson needle holder. 18 cm in length with a locking system :10set bone rongeur : wivelin bone rongeur. 18 cm in length and can be used for both side and end bone cutting</p>

		<p>:5 set</p> <p>wire cutter : Tungsten carbide/hard steel T-15 inserts with a cutting capacity of 0.016 inches.:5 set</p> <p>Bp handle : Straight and flat No 3 size BP handle of stainless steel material. : 10set</p> <p>Moons probe :10set</p> <p>Erich Arch Bar :100set</p> <p>Sterlizer forcep : 5set</p> <p>S.S wire (26 gauge) :100 roll</p> <p>Bone chisel & mallet (flat & beveled) : 5each</p>
c	Orthodontia Instrument	<p>band material : Joseph straight scissors of 14cm cutting scissor straight</p> <p>band material : Joseph curved scissors of 14cm cutting scissor curved</p> <p>mershon band pusher : With serrated rectangular tip and anatomically formed grip for good transfer of force while positioning bands.</p> <p>Boone gauge : Simplifies seating the brackets on the teeth with exactly the right distance between the bracket slot and the incisal edge.</p> <p>Light wire plier : Precision tapered tips allow intricate detail work on archwires. Has three grooves.Holds wire upto .022”</p> <p>de la rossa contouring plier : Used for bending wires/ arches for the fixed appliance technique, also for opening, closing and adjusting clamps</p> <p>weingart plier : Fully serrated cross-cut beaks at the most convenient working angle. Also features bowed jaws that won't pinch the patient's lip. Holds wire upto .028”</p> <p>hoe plier straight : For multi-band technique. Due to the slender working tips perfect for placing bands with prewelded brackets especially in the lower anterior area.</p> <p>Pin and ligature cutter : Standard size instrument for everyday use. Concave design front for maximum vision when cutting. Cutting capacity soft wire upto .015”</p> <p>heavy wire cutter</p> <p>band removing : Standard size instrument for everyday use. Concave design front for maximum vision when cutting. Cutting capacity .016</p> <p>plier anterior</p> <p>band removing plier posterior : Easy access to posterior areas, simply place the pad on the occlusal the band and squeeze gently.</p> <p>Adams plier : With pyramidic ends and square tips used</p>

		<p>to bend wires.</p> <p>Universal plier : Wire bending plier with a four step beak.</p> <p>Ss wire</p> <p>ligature wire</p> <p>elastics</p> <p>face bow</p> <p>cheek retractor</p> <p>pediatric</p> <p>cheek retractor adult</p> <p>chin cap with head clip set</p> <p>face mask : Fluid resistant, cool breathing, soft, 3 ply material, 99% + BFE</p>
d	Oral Medicine And Radiology Instruments	<p>curved probe : double ended probe :10Nos</p> <p>explorer : double ended probe :10Nos</p> <p>tweezer : Perry stainless steel tweezer of 15 cm :10Nos</p> <p>x-ray viewer box (big & small) :2each</p> <p>x-ray films : dental intra oral periapical film of 3 X 4 cm :3pack</p> <p>Dental occlusal films : 1pack</p> <p>Lead Apron : 2 Nos</p> <p>Dosi meter :5Nos</p>

SCHEDULE 12

LABS **PATHOLOGY**

SCHEDULE -12A

a	Trinocular Research Fluorescent Microscope with cooled color CCD Camera Image Analyzer's System	1
b	Fire wire cooled color CCD Scientific Grade Camera	1
c	Binocular microscope	1+4
d	Cryostat	1
e	Hematology cell counter	1
f	Histokinette	1
g	Deep freezer	1
h	Sensitive balance	1
i	Urine strip reader	1
j	Hot air oven	1
k	Laboratory country for cell counting	1

SPECIFICATION

a	Trinocular Research Fluorescent Microscope with cooled color CCD Camera Image Analyzer's System	<p>Research Trinocular Microscope for Brightfield, Phase Contrast, Dark field, fluorescence & Polarization with frame for 12 v100 watts halogen Lamp input voltage from 90-250V, 50Hz. Transmitted light microscope with push in button type filters for ND25 , ND 6 and day light filter .pre set switch & LED light intensity indicator.</p> <p>Field No. 22, Three position prism Trinocular tube, 100 % light for viewing , 20% - 80 % viewing & photography , 100 % light for photography with paired eyepieces . The Trinocular head with 10x22m FOV eyepieces dipole displacement (+2 to -8) upper eyes led (pair) intra with inter papillary distance of atleast 50-70mm adjustable to accommodate observe height to a minimum range of 20⁰</p> <p>Septuple resolving nosepiece with a slot for analyzer or DIC slider</p> <p>Ultrahard Ceramic surface mechanical stage with right hand low drive control (long type) and dual slide holder.</p> <p>Preset button for automatic light intensity level for photomicrography. LED display for intensity level</p>
b	Fire wire cooled color CCD Scientific Grade Camera	<p>Fire Wire CCD Camera with 5 Mega pixel COLOR , 2/3 Inch CCD , RGB color mask & micro lenses active area pixel size 3.4 μm x 3.4 μm , sensor resolution 2580 x 1944 Pixel dynamic range 61 db/ 60 db, Frame rate : 9 fps , Exposure time 400μs to 180s, A/D conversion 12 bit, Image resolution programmable resolution 2x to 5x, C-mount type Adapter . Ambient condition: temp: + 0deg. --- - + 35deg. Humidity 5% ----- 80 %.</p>
C	Binocular microscope	<p>Binocular Microscope with Universal Infinity Corrected Optical system with Built in Koehler Illumination for transmitted light having 6V 30W halogen bulb (pre-centered).</p> <p>Rigid Frame with Ergonomic Design, Built in Torque adjustable Focussing Knob.</p> <p>Coarse movement stroke 20mm and Fine \square wivelin graduation 2.5 micro meter.</p> <p>X-Y Mechanical Stage which moves by Wire Diagram System (Without any protrusion) of 120X 132mm and a traveling range of 76mm(X)x 30mm(Y).</p> <p>Inward facing Quadruple revolving nosepiece, Condenser with N.A 1.25 Wide field Binocular head, inclined at 30 degrees Scaled Interpupillary distance adjustment and diopter setting. Widefield Eye Piece.</p>

d	Cryostat	With 230 V/50 with knife holder base, knife holder CE for low profile disposable blades and anti-roll plate, 70 mm. Refrigerating capacity 0 to -30° C; with automatic and manual gas defrosting cycle, and with cryocabinat and illuminating cryochamber, Motorized coarse feed in two different speeds.
E	Hematology cell counter	Automatic : 5 part differential
f	Histokinette	Automatic tissue processor for use in Histopathology. 100-240 volts, 50-60 Hz, Standard tissue basket without vacume With 12 processing stations: 10 reagent stations of capacity 1.8 liters; and 2 wax baths. Connection for third wax bath optional. Glass beakers, solvent resistant and dish washer proof. Aluminum standard tissue basket. With LCD screen, Membrane key board. With Programmed parameters displayed on the screen. Automatic mode of operation with nine freely selectable programs. Programmable infiltration time: 99 hours 59 minutes. Provision for delayed start up to 9 days
g	Deep freezer	Up to -70 degree C
h	Sensitive balance	Weighting balance up to 1 microgram detectable capacity
i	Urine strip reader	Automated
j	Hot air oven	12 Cu.Ft., Liters 325, Inner Chamber[WxDxH mm] 600x600x900 External Dimension[WxDxH mm] 710x760x1155 Shelves[Nos]-3
k	Laboratory country for cell counting	Manual counters; up to 999. Last unit totalizes the different cells. Bell automatically sounds at every 100. Has 8 keys and a totalizer. Dual knob at both ends for resetting.

SCHEDULE -12B

a	Bone marrow aspiration needle (Salah's type)	5
b	Bone marrow aspiration cum biopsy needle (jemshedy type)	5
c	FNAC Gum	2
d	lumber Puncture needle	10each
e	Disposable blades for Microtome	5
f	Stop watch	2
g	Cartilage knife	2
h	Organ knife	2
i	Brine knife	2
j	Dissection knife	2
k	Metal Scale	2
l	Hand lens	2
m	Wintrobes tubes for PVC/ Hematocrit	10
n	Urine strip Reader	10
o	Test tubes without rim	5ml, 10 ml & 20 ml x Each 100
p	Test tubes with rim	- -
q	Test tubes with rim	20
r	Watch Glass	1000
s	Yellow tips	10
t	Test tube rack	20
u	Slide carrying tray	30
v	Slide rack	10
w	Thread Nylon	10 benches
x	Alarm Timer	5
y	filter papers	20
z	Capillary tubes for Clotting time	144 per box x10boxes
aa	Centrifuge test tubes	100
ab	Coagulometer disposable cuvettes with pellets	100
ac	Conical flasks with flat bottom	100
ad	Cover slips Rectangle (1 Packet =10gms)	100in each boxes X100box
ae	Cover slips Square (1 packet =10gms)	100in each boxes X100box
af	Diamond pencil	5
ag	Glass marking pencil (Red)	5

SPECIFICATION

a	Bone marrow aspiration needle (Salah's type)	For aspirating the bone marrow. Thick stainless steel one with sharp tip. Having adjustable guard and the stellate.
b	Bone marrow aspiration cum biopsy needle (jemshedy type)	Thick Stainless steel one for aspirating the bone marrow and taking biopsy meanwhile. Having adjustable guard and the stellate, biopsy catheter.
c	FNAC Gum	Metallic (Aluminum) with capacity to hold the syringes of different volumes (5ml-20ml)
d	Lumber Puncture needle	Different size: 18 G, 20G & 21 G; with attached stellate
e	Disposable blades for Microtome	High profile, 80 X 14 mm size, and 80 X 8 mm sizes ; 1 pack=50 blades
f	Stop watch	Round one with calibration in milliseconds, second, minutes and hours.
g	Cartilage knife	Stainless steel
h	Organ knife	Stainless steel
i	Brine knife	Stainless steel
j	Dissection knife	Stainless steel
k	Metal Scale	
l	Hand lens	Different sized
m	Wintrobes tubes for PVC/ Hematocrit	Glass tube: 11 cms, closed at one end. Calibrated 1-10.
n	Urine strip Reader	Automatic
o	Test tubes without rim	100 X 12 mm
p	Test tubes with rim	100 X 12 mm
q	Test tubes with rim	150 X 18 mm
r	Watch Glass	75 mm diameter
s	Yellow tips	Plastic disposable
t	Test tube rack	Stainless steel; should hold 20 tubes of different capacity with two rows in a rack. Size: 10X 5 X 90 mm
u	Slide carrying tray	Made up of Aluminum, for keeping 20 slides of size 75X 25 mm in flat position
v	Slide rack	Made up of Aluminum, for keeping slides in vertical position before and after mounting.
w	Thread Nylon	Nylon bundle
x	Alarm Timer	Automatic timer with stop and start button. Round one.
y	filter papers	Whatmann No1 filter paper
z	Capillary tubes for Clotting time	4" long, 1 mm bore:
aa	Centrifuge test tubes	15 ml, 17 X 120 mm

ab	Coagulometer disposable cuvettes with pellets	Glass
ac	Conical flasks with flat bottom	500 ml: 104 X 176 mm
ad	Cover slips Rectangle (1 Packet =10gms)	22 X 50 mm
ae	Cover slips Square (1 packet =10gms)	22 X 22 mm
af	Diamond pencil	Glass marker
ag	Glass marking pencil (Red)	

SCHEDULE -12C

a	Amber colored bottles	50
b	Beakers	25
c	Beakers	25
d	Beakers	10
e	Dropping bottle	50
f	Dropping TK type	200
g	Funnels	10
h	Glass Beakers	50
i	Glass ESR tubes (Water green type)	20
j	Glass rods	2kgs
k	Glass slide tray	20
l	Glass slides for microscopy	100slides/box X200box
m	Measuring cylinders :Graduated	10each
n	Micropipettes :Micro lit	2
o	Micropipettes :Micro lit	2
p	Micropipettes :Micro lit	2
MUSEUM GLASS JARS WITH GLASS LIDS	A .a. Museum glass jars glass lids	100
	b. Museum glass jars glass lids	100
	c. Museum glass jars glass lids	100
	d. Museum glass jars glass lids	100
	e. Museum glass jars glass lids	100
	f. Museum glass jars glass lids	100
	B. a. Pasteur pipette	50
	b. Petri dish with lids	20
	c. Pipette graduated	10
	d. Pipette graduated	10
	e. Pipette graduated	10
	f. Reagent bottles with cap	100 each
C. a. Staining jars for slides (Coplín type)	5 5	
b. Staining jars for slides (Schifferdecker type)	5	
c. Staining racks	5	
d. Staining troughs (SS) for staining in bulk		

SPECIFICATION

a	Amber colored bottles	60 ml, Graduated
b	Beakers	100 ml : 50 X 73 mm
c	Beakers	250 ml: 68 X 95 mm
d	Beakers	500 ml: 83 X 115 mm
e	Dropping bottle	60 ml
f	Dropping TK type	125 ml
g	Funnels	100 mm diameter
h	Glass Beakers	250ml
i	Glass ESR tubes (Westergreen type)	With stand
j	Glass rods	20 cm length
k	Glass slide tray	Aluminum trays
l	Glass slides for microscopy	75 X 25 mm
m	Measuring cylinders :Graduated	100, 500 & 1000 ml
n	Micropipettes :Micro lit	50 microliter
o	Micropipettes :Micro lit	100 microliter
p	Micropipettes :Micro lit	200 microliter
MUSEUM GLASS JARS WITH GLASS LIDS		
A	a. Museum glass jars glass lids b. Museum glass jars glass lids c. Museum glass jars glass lids d. Museum glass jars glass lids e. Museum glass jars glass lids f. Museum glass jars glass lids	Size: 25 X 25 X 12 cms Size: 20 X 20 X 16 cms Size: 20 X 20 X 12 cms Size: 16 X 12 X 10 cms Size: 15 X 12 X 9 cms Size: 15 X 10 X 5 cms
B	a. Pasteur pipette b. Petri dish with lids c. Pipette graduated d. Pipette graduated e. Pipette graduated f. Reagent bottles with cap	Glass Glass: 75 mm diameter 2ml 5ml 10ml 125 ml and 1000 ml
C	a. Staining jars for slides (Coplin type) b. Staining jars for slides (Schifferdecker type) c. Staining racks d. Staining troughs (SS) for staining in bulk	25.4 X 76.2 mm 25.4 X 76.2 mm Metallic / Glass Metallic / Glass

SCHEDULE - 13

BIOCHEMISTRY

a	Incubator[Medium]	1+2
b	Big Incubator	1
c	Hot Air Oven	1+1
d	Auto Pipette [Adjustable+ fixed]	***
e	Thin layer chromatography	1
f	Distillation unit with Deionizer	1
g	Deep freezer	1
h	Auto clave	1

SPECIFICATION

a	Incubator[Medium]	Cu.Ft.- 4, Liters-120, Inner Chamber [WxDxH mm] 450x450x600 External Dimension [WxDxH mm] 560x610x855 Shelves[Nos]-2
b	Big Incubator	Cu.Ft.- 12, Liters-325 Inner Chamber [WxDxH mm] 600x600x900 External Dimension [WxDxH mm] 710x760x1155 Shelves[Nos]-3
c	Hot Air Oven	12 Cu.Ft., Liters 325, Inner Chamber[WxDxH mm] 600x600x900 External Dimension[WxDxH mm] 710x760x1155 Shelves[Nos]-3
d	Auto Pipette [Adjustable+fixed]	Auto Pipettes (Fixed Volume) 20ul -04 Auto Pipettes (Fixed Volume) 50ul -04 Auto Pipettes (Fixed Volume) 100ul -04 Auto Pipettes (Fixed Volume) 500ul -04 Auto Pipettes (Fixed Volume) 1ml -08 Auto Pipettes (Fixed Volume) 2ml -06 Auto Pipettes (Fixed Volume) 3ml -04 Auto Pipettes (Fixed Volume) 5ml -04 Auto Pipettes (Variable Volume) 0-50ul -06 Auto Pipettes (Variable Volume) 0-100ul -06 Auto Pipettes (Variable Volume) 50-500ul -06 Auto Pipettes (Variable Volume) 100-1000 ul -06
e	Thin layer chromatography	High Performance thin layer chromatograph: Specifications: Software(upgradeable):To document, control and manage all the instrumental steps of HPTLC analysis (application, development, scanning and photo recording and documentation. a) Sample applicator: Sample spot/band applicator: b) Chromatogram Development: All glass, small internal volume chambers, (Maximum 5-15 ml mobile phase/run), Lid appropriate size tanks for 20x20, 20x10, 10x10, 10x5 cm Plates. a) Derivatisation: Uniform derivatisation for quantification. b) TLC Scanner: Computer controlled scanner for identification/ purity check automatic quantitative measurement, universal filter for fluorescence, selectable slit size, narrow as well as wide bandwidth for quantification. Data Evaluation of TLC scanner: Automatic

		<p>integration, baseline correction, spot check and calibration facility with provision of statistical analysis, reproducibility check, GLP compliance and Impurity calculation.</p> <p>a) Photo documentation: Photo documentation system with high resolution camera, software controlled, automatic image optimization in all illumination mode. High reproducibility and compliant with the requirement of GMP/GLP.</p> <p>b) Automatic developing chamber: Monitorable layer, chamber saturation, developing distance, final \ drying and humidity control to produce reproducible chromatography at defined activity of the layer.</p> <p>c) TLC/HPTLC Plate Heater: Digital thermometer: Stain resistant; temp range 25 to 200-c.</p> <p>d) Auto Plate- Immersion device: Suitable for 20x20 cm and 20x10 cm plates: Dipping speed - 35mm to 45 mm / Sec: narrow dip chambers for low volume or reagent.</p> <p>e) Manual plate coater: Floating and steady slurry hopper. Plates moved manually.</p> <p>f) Automatic TLC Sprayer: Pneumatic spray heads for bottles of 50 & 100 ml.</p> <p>g) Sample spot applicator: Manual, precise sample positioning and volume.</p> <p>h) HPTLC: System Should be upgradeable and must meet all latest requirements of safety, conformity, ISO, GLP etc.</p>
f	Distillation unit with Deionizer	Should have in-built pre filter and very high exchanging capacity non-corrosive CATION and ANION resin columns pre-fitted with RESINS for efficient results having treated water parameters conforming to ISO-1069/64. Should provide water having a conductivity of less than 10 micro Siemens/cm and pH of 7.5 to 9pH.. The conductivity meter should work on both AC supply and 9.0 V DC battery. 50 litres/hr out put
g	Deep freezer	Up to -70 degree C

SCHEDULE-14

BLOOD BANK

SCHEDULE -14

a	Deepfreeze -40C & -80C	1
b	Platelets agitator	1
c	Thaws bath	1
d	Centrifuge	2
e	Portable tube sealers	02
f	Agitator	1
g	Shaker	1
h	Blood rotator weighing machine	5
i	Smooth balls	10

SCHEDULE-15

LAUNDRY EQUIPMENT

For 750 Bed Hospital

Instrument	Capacity (Kgs)	Basket size(MM)	Drive motor (H.P)	Dimensions LXDxH	Net weight (Kgs)
Horizontal washing Machine -Top Loading	30	Dia 770x915	2	1525x1400x1320	650
	60	Dia 915x1170	3	1930x1475x1575	900
Hydro Extractor – Direct Drive	15	Dia 540x320	2	686x890x1100	160
	30	Dia 715x330	3	865x1065x1100	380
Hydro Extractor 3 Pin Suspended	50	Dia 915x400	7.5	1700x1600x1100	750
	100	Dia 1060x450	10	2250x1800x1100	1500
Tumble Drier	15	Dia 710 x710	1	800x1170x1575	250
	30	Dia 950x950	2	1050x1540x1980	500

Instrument	Roller size(MM)	Useful Length (MM)	Steam (Kgs/Hr)	Productivity Mt/mint	Dimensions LxDxH(mm)	Net Weight (Kgs)
Flat work Ironer – Cylinder Heater Drying Ironers	Dia -350	2000	40	1-6	2750x909x1180	665

SCHEDULE-16

MORTUARY

SCHEDULE -16

a	Autopsy saw	1
b	Camera (Digital)	1
c	X-ray view box	15
d	Autopsy table	3
e	Embalming Machine	1
f	Organ Weighing Scale	1
g	Dead Body Weighing Scale	1

SPECIFICATION

a	Autopsy saw	Electrically operated high speed oscillating action with Blades and Trephines
b	Camera (Digital)	10Mega pixel
c	X-ray view box	Single view box
d	Autopsy table	L shaped table with dissection wing and base cabinet, double bowl sink with Hot and Cold water made of stainless steel.
E	Embalming Machine	A Portable Machine with Noiseless pump, Stainless have Fluid Level Indicator, Body made completely of stainless Steel.
F	Organ Weighing Scale	Made of Stainless steel to Weigh up to 10kgs with rechargeable Battery backup and Digital Display
g	Dead Body Weighing Scale	Made of Stainless steel to weigh a maximum of 150kg with Rechargeable Battery Backup and Digital Display

SCHEDULE-17

CSSD

SCHEDULE -17A

a	STERILIZATION SYSTEMS	1. High Vacuum Steam Sterilizers. 2. Table Top Sterilizer. 3. "3 M" Ethylene Oxide Sterilizers.	
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SPECIFICATIONS

1	High Vacuum Steam Sterilizers	<p>SIZE 600 X 900 X 1500MM LONG VOL 810 LITRES SIZE 600 X 600 X 1200MM LONG VOL 430 LITRES</p> <p><u>APPLICATION:</u> The range of High Vacuum Steam Sterilizers are designed for steam sterilization of a wide range of instruments, rubber articles, metal components and fabric commonly sterilized in any Hospital. The use of a “High Vacuum” pre-pulsing prior to the sterilization phase guarantees effective air removal from even the most porous loads [eg. Fabric]. This is a must for efficient steam penetration. Moreover the post-sterilization vacuum drying guarantees that the load comes out bone dry; a requirement for safe storage in the sterile area. It is available in Manual, Semi-Automatic and Microprocessor Controlled operating systems giving the user a wide operational flexibility. Sterilization programs can be carried out at 121⁰ C or 134⁰ C depending on the load configuration for settable sterilization times. The superior hardware and software guarantees it is the most reliable sterilizer for any Central Sterile Supply Department or even a stand-alone facility.</p> <p><u>THE STERILIZER CHAMBER:</u> The chamber is fabricated from stainless steel S.S. 316 with full argon welding. The S.S. chamber has a high resistance to steam corrosion. The chamber is provided with round corners for easy cleaning and a 2% slope for full draining of condensates. A removable screen plug is provided in the drain lines to prevent clogging of the drainpipes and fittings. The chamber is provided with a safety valve. The chamber is re-inforced with carbon steel jacket. The jacket besides re-inforcing the chamber also ensures temperature uniformity in the sterilization space. The jacket is provided with a safety valve. The sterilizer is insulated with 50mm thick non-fiber shredding resin bonded glass wool, which is held in place with a Stainless Steel outer cover The pressure vessel is designed as per ASME SEC VII and welding joints are partially radio graphed for high security.</p> <p><u>MOUNTING:</u></p>
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		<p>The steam sterilizer is mounted on a stainless steel stand. All the accessories are mounted on the stand.</p> <p>This reduces installation and commissioning time and makes re-installation easy, whenever required.</p> <p><u>THE DOORS</u></p> <p><u>Automatic Door (SLIDING DOORS) :</u></p> <p>The sterilizer is equipped with automatic sliding doors.</p> <ul style="list-style-type: none"> • The door is moved vertically / horizontally by a pneumatic cylinder at touch of a button for opening and closing. The high temperature resistant silicone-sealing gasket is also pneumatically actuated for effective sealing. • Door interlocking to prevent simultaneous opening of both doors in case of double door machines. • <u>VACUUM SYSTEM :</u> <p>High Vacuum</p> <p>A suitable capacity water ring Vacuum Pump is provided for creating a high vacuum in the chamber.</p> <p><u>STEAM SUPPLY (STEAM GENERATOR):</u></p> <p>The Sterilizer is operated on steam supply from a steam generator.</p> <p>The steam generator is fabricated from stainless steel plates. The water feeding is automatic. The steam generator is properly insulated and covered with stainless steel outer cover. This prevents heat loss</p> <p><u>PIPING PACKAGE:</u></p> <p>The piping package is fabricated from stainless steel with full argon welding. The automatic and manual valves have corrosion proof design for superior hygiene. The piping is appropriately designed to ensure that the customer can provide all utility connections at a single point. All drain lines and exhausts are connected to a drain manifold. The pipeline has 2% slope for complete drain to prevent contamination.</p> <p>All necessary steam accessories like steam traps, strainers, non-return valves are also provided.</p> <p><u>HANDLING ACCESSORIES:</u></p> <p>Loading Cart and Trolley</p> <p>The “430 & 810 Series” MEDISTER is provided with one Loading Cart and two Floor Trolleys for smooth and easy loading.</p>
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		<p><u>SURFACE FINISH</u> The chamber & the door are finished to a surface finish better than 0.8 Ra value</p> <p><u>CYCLE RECORD</u> On line printing facility for recording temperature, pressure and time for batch record is provided</p> <p><u>OPERATING SYSTEM</u> (Semi Automatic Operation) The Semi-Automatic Control System is a cost effective and reliable system, which ensures desired repeatability and accuracy of the sterilization temperature and time. Stainless steel control cabinet with user-friendly display. Solid state digital controller for automatic temperature control. Electronic timer for controlling the sterilization time Minimal manual operation for operational ease <u>MICROPROCESSOR Control System– Fully Automatic Operation.</u></p> <p>The heart of this process control system is a Programmable Logic Controller. The Controller is equipped with a non-erasable memory and battery back up for un-interrupted operation.</p> <ul style="list-style-type: none"> ▪ Stainless steel cabinet with user-friendly operations. ▪ Man Machine Interface for simple feather touch key pad and graphic Display unit. <p>All message, temperature and pressures are easily displayed on the LCD</p> <ul style="list-style-type: none"> ▪ Display for easy monitoring. ▪ 6 user defined programs for reliable and accurate sterilization: <ul style="list-style-type: none"> ○ Chamber integrity test. ○ Bowie and Dick test. ○ Open Liquid Sterilization. ○ Rubber Component Sterilization. ○ Instrument Sterilization. ○ Garment Sterilization. ▪ Manual back-up system with automatic regulation of sterilization temperature. <p><u>SAFETY FEATURES:</u></p> <ul style="list-style-type: none"> • Pressure lock to prevent door opening when the chamber is pressurized. • Over pressure safety valve for jacket and
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		<p>chamber is provided</p> <ul style="list-style-type: none"> • Door obstruction safety is provided • Low water level protection is provided in steam generator.
2	Table Top Sterilizer (CAPACITY) Approx: 23.8 Litters	<p><u>FEATURES:</u></p> <ul style="list-style-type: none"> ▪ Sterilization of instruments for operation theatre at 121 Deg C. – 134 Deg.C which are suitable for wrapped / unwrapped materials/ utensils/ liquids, etc. ▪ Pre heating by dry heater, to keep the chamber temperature in balance. To offer perfect dry function and the best sterilization function ▪ Design with high performance reliability safety and easy operation ▪ C E Standard approved <p><u>CONSTRUCTION:</u></p> <ul style="list-style-type: none"> ➤ The chamber is made up of S.S. 304 ➤ The chamber size is 260 mm Dia x 450 mm Depth ➤ The chamber volume is 24 Liters ➤ Overall size is 540 (W) x 450 (H) x 630 (D) mm ➤ Pressure and Temperature Unwrapped -132 Deg C. / 2.1 Kg/ Sq.Cm Wrapped - 132 Deg C. / 2.1 Kg/Sq.Cm ➤ Standard Accessories S.S. 304 Sterilization Box x 1 Piece, Tray x 1 Piece ➤ Power Consumption 220 V/ 1.8 K.w / 8.3 A 240 V/ 2.1 K w/ 8.8 A ➤ Safety Approval CE-EMC, LVD by TUV, CE-MDD Approved by DNV, Chamber designed by ASME / USA Standard. <p><u>SAFETY DEVICES</u></p> <ul style="list-style-type: none"> • Pressure control switch. • Door pressure auto lock. The door will be locked automatically when the pressure is over than 0.3 Kg/ Sq.Cm. • Over heat protection. • Safety valve • Electronic circuit safety system • Emergency exhaust switch • Low water indication lamp will light on and buzzer and stop all the function in the same time. When the water in the chamber or water reservoir is not enough.
3	“3 M” Ethylene Oxide Sterilizers	Key Features include:

		<ul style="list-style-type: none"> ❖ Video screen technology shows cycle status. ❖ Single unit-does EO cartridge is punctured inside the negative pressure chamber only when proper chamber conditions are achieved. ❖ Relative humidity feature continuously monitors the sterilization chamber during the precondition phase. ❖ Continuous temperature monitoring maintains temperature within +/-3°C of the selected cycle temperature and automatically shuts off if the temperature reaches 4°C beyond set point. ❖ Programmable access codes allow you to monitor and trace cycle operator. ❖ Built-in aeration beings automatically after sterilization and reduces potential EO exposure. ❖ Optional remote display panel enhances operator safety, and allows operator to program several units. ❖ A constant vacuum system for aeration of the load, increases operator safety. ❖ Both systems can be installed in a wall or placed on a freestanding stacking rack. They include upper and lower baskets, local exhaust hood (optional on both units), and an installation kit. ❖ Maximum operator safety. ❖ Greater flexibility and productivity. ❖ No CFC's or HCFC's. ❖ Low running cost. ❖ No lumen reduction
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SCHEDULE -17B

a	CLEANING AND DISINFECTION SYSTEMS	<ol style="list-style-type: none">1 Washer Disinfectors.2. Ultrasonic Cleaners.3. Washing Stations.4. Drying Cabinet5. Spray Gun Rinsers.6. Endoscope Washer	
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SPECIFICATIONS

1	<p>Washer Disinfectors. (CHAMBER SIZE) WD-S 600 X 800 X 600 mm. WD-D 600 X 800 X600 mm. NUMBER OF DOORS Single door Double door</p>	<p><u>CHAMBER SIZE:</u> 600 (W) x 800 (H) x 600 (D) mm.</p> <p><u>APPLICATION:</u></p> <p>The Washer Disinfecter is used for washing & disinfecting of:</p> <ul style="list-style-type: none"> ▪ Feeding bottles. ▪ Dentist trays. ▪ Kidney basins. ▪ Dressing bowls. <p style="padding-left: 40px;">Anesthesia tubing etc</p> <p><u>CONSTRUCTION:</u></p> <p>The machine consists of a epoxy painted mild steel frame work which forms the structure of the chamber & outer paneling. The chamber is fabricated from S. S. 304 Stainless Steel with full argon welding. The chamber is provided with an adequately sized sump & drain at the bottom. The outer paneling fabricated from stainless steel is easily removable for maintenance & servicing.</p> <p><u>DOOR: (Double)</u></p> <p style="padding-left: 40px;">The machine is provided with 2 Nos. insulated doors with quick locking arrangement & silicone gasket seal.</p> <p><u>CLEANING SYSTEM:</u></p> <p>The chamber is provided with 3 rotating spray arms-top, middle & bottom. The middle spray arm is provided for docking.</p> <p style="padding-left: 40px;">The rotating arm is revolved due to pressure of cleaning medium resulting in a uniform spray over the load.</p> <p><u>CIRCULATING PUMP:</u></p> <p>A sanitary pump is provided. The pump is driven by a TEFC, 3phase electric motor.</p> <p><u>DETERGENT DOZING:</u></p> <p>A container with lid is provided for automatic loading of detergent. Design ensures easy adding of fresh detergent before every cycle.</p> <p><u>STEAM GENERATOR (6 KW) :</u></p>
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		<p>Stainless steel steam generator for automatic steam generation with automatic water feeding and pressure regulation.</p> <p><u>PIPING:</u></p> <p>All stainless steel piping with full argon welding All piping is of S. S. 304 Stainless Steel. All valves have S. S. 304 contact parts with Teflon seat. All welding is argon welding. All fittings have sanitary construction.</p> <p><u>CONTROL SYSTEM:</u></p> <p>The control system is housed in a cabinet attached on the main body of the machine. The salient features are:</p> <ol style="list-style-type: none"> 1. Microprocessor controller with easy to use operator interface. 2. Preprogrammed for simple use PROG 1 : Instruments PROG 2 : Kidney bowls/trays/basins. PROG 3 : Bottles PROG 4 : Tubing's. 3. All time & temperatures are user settable. 4. Possibility to repeat or skip a particular phase. 5. Password protection for un-authorized acc 6. 2 x 16 character LCD display for on-line messaging.
2	<p>Ultrasonic Cleaners MODEL – Without Rocker Arm With Rocker Arm Ultrasonic Tank Ultrasonic Tank + Rinsing Tank Ultrasonic Tank + Rinsing + Drying Tank</p>	<p>The series of ultrasonic cleaning machines guarantees perfect cleaning of all delicate instruments used in Hospitals.</p> <p>The “Single Tank” Ultrasonic Cleaning machine has only an Ultrasonic chamber.</p> <p>The “Two Tank” ultrasonic cleaning machine has an Ultrasonic Cleaning Tank & a Rinsing Tank. The “Three Tank” ultrasonic cleaning machine has a ultrasonic cleaning tank, a Rinsing Tank and Drying tank.</p> <p>The Tank size is 530 L x 325 B x 175 H mm All models can be optionally fitted with a “Rocker</p>

		<p>Arrangement” for more effective cleaning.</p> <p><u>CONSTRUCTION</u></p> <p>The tank size (530 L x 325 B x 175 H mm) is fabricated from stainless steel and provided with a lid. The tank is enclosed in a stainless steel cabinet. A splash guard is provided at the rear.</p> <p>The ultrasonic cleaning tank is provided with one modular wire basket for ease of cleaning of instruments.</p> <p><u>TECHNICAL SPECIFICATION</u></p> <ul style="list-style-type: none"> • Electric Supply :230 V/AC/50 Hz/1 Phase/1.5KW • Tank Size :530 x 325 x 175 mm (L x B x H) • Tank Capacity :30 Lits. • Ultrasonic Tray Size :480 x 250 x 125 mm(L X B X H) • Fabrication :S. S. 304 • Transducer :PZT sandwich type with welbond technique (U. K. Make) 500Watts.Ten blocks of double piston, each block. Of 50 watts. • Frequency :30 ± 3 KHZ • Heaters :02 Nos. of 1000 watts. • Temp. Control :By Thermostat • Drain :Drain valve is provided at rear side of Tank. <p><u>RINSING TANK:</u></p> <p>Tank capacity remains the same. The tank is closed with a stainless steel lid. Spray nozzles are provided in crossed alternate manner for perfect spraying of water on the objects placed in the rinsing chamber. The arrangement of the nozzles helps in enhancing the cleaning process.</p> <p>Digital Timer is provided to set the spray time</p> <p><u>DRYING TANK</u></p> <p>Tank capacity remains the same. The tank is closed with a stainless steel lid. This tank has Air Heaters</p>
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		<p>of 3 KW with blower to blow hot air inside the chamber. A digital timer is used to set the drying time and a digital temperature indicator is used to regulate the temperature.</p> <p><u>CONTROL SYSTEM:</u> User friendly & ergonomically designed controls ensure automatic operation of the system.</p> <ul style="list-style-type: none"> • Fully automatic water filling. • Exposure to cleaning for pre-determined time. • Exposure to rinsing for pre-determined time. • Exposure to drying for pre-determined time. • Auto shutdown .
3	<p>Washing Stations. Size – 1800 x 650 x 900</p>	<p><u>COMPONENTS</u> <u>BENCH TOP:</u> The bench top of the preparation and packing table is fabricated out of S.S. 304 quality and ground and polished to a dull mirror finish. The tabletop is duly re-inforced against bending and treated for sound deadening.</p> <p><u>FRAME:</u> The bench top will be fixed on a S.S. square tube frame. The frame will be provided with leveling lugs for suitable adjustment of height up to +/- 25 mm.</p> <p><u>FITTINGS:</u></p> <ul style="list-style-type: none"> • The unit will be provided with the following fittings: • Separate hot and cold faucet above each sink. • Demineralized water inlet for connecting to the spray gun rinser • Compressed air connection to the spray gun for air flushing. • Drainage and overflow connections on the sink unit with manual drain valve. <p><u>SPLASH GUARD:</u> A 150-mm high stainless steel splash guard is provided at the rear of the unit.</p>

4	<p>Drying Cabinet Size – 450 x 450 x 600 600 x 600 x 600</p>	<p><u>OPERATION:</u> Automatic</p> <p><u>CONSTRUCTION:</u> The equipment consists of mild steel frame work supporting the outer cover and inner chamber. The inner chamber is fabricated from stainless steel the outer chamber from epoxy painted CRCA sheets. All inside edge are curved and all joints are welded and ground flush. All surfaces are imparted a reflective mirror finish.</p> <p><u>DOOR:</u> The drying cabinet is provided with a quick lock door with heat resistant gasket.</p> <p><u>AIR CIRCULATION:</u> The chamber design allows uniform air circulation. The air is circulated by a stainless steel impeller powered by a single-phase TEFC motor.</p> <p><u>EXHAUST:</u> An Exhaust is provided at the top of the unit. The exhaust opens to ensure complete removal of moisture.</p> <p><u>HEATING SYSTEM (120°C):</u> S. S. sheathed “U Type” heaters (2 k.w.) are provided.</p> <p><u>SHELF:</u> 2 Nos. equispaced S. S. 304 shelves are provided.</p> <p><u>CONTROL SYSTEM:</u> The user-friendly control panel comprises of: -</p> <ul style="list-style-type: none"> • Temperature Indicator Controller for setting for setting the drying temperature. • Timer for Setting drying time. • “START” Push button. • Indication Bulb.
5	<p>Spray Gun Rinsers</p>	<p><u>OPERATION:</u> The spray gun rinser will be used for cleaning of pipettes, catheters, cannulas, syringes etc.</p>

		<p>The spray gun is connected to demineralized water and pressurized air.</p> <p>A special rack will be provided for fitting the different cleaning tips.</p> <p>The water/air pressure will be released, regulated and fully controlled by the spray gun trigger.</p> <p><u>CLEANING TIP:</u></p> <p>Special purpose tip is provided for the cleaning of:</p> <ul style="list-style-type: none"> • Syringes and cannulas. • Measuring and blood pipettes. • Drainage tubing. • Instruments. • Bottles and flasks
6	Endoscope Washer	<p>Compatible with ocular or video – endoscopes for all Waterproof endoscopes and a variety of high level disinfectants.</p> <p>By controlling air pressure and water resistance, guarantees perfect washing and disinfections of both the outside and inside of the endoscopes. The system protects the inside of the endoscopes against any possible damage.</p> <p>The front panel is convenient to operate and designed to see all functions at a glance. The Operation can be manual or automatic according to user’s selection.</p> <p>Equipped with the most efficient and precise self-diagnostic system. Detects any failures and requires low maintenance.</p> <p><u>TECHNICAL SPECIFICATION FOR ENDOSCOPIC WASHER</u></p> <ul style="list-style-type: none"> ➤ Leakage Test ➤ Operation Procedure <ul style="list-style-type: none"> Time: Water – 10 to 90 sec Detergent – 10 to 30 sec. Disinfection – 1 to 50 min./ 1-9 hr. ➤ Program Mode (Automatic) <ul style="list-style-type: none"> A mode: Washing –Detergent- Washing- Disinfectant Washing – Air B mode: Water – Detergent- Washing- Air C mode: Water – Disinfectant- Washing – Air ➤ Tank Capacity

		<p>Detergent: 0.8 Liter Disinfectant: 1.2 Liter</p> <ul style="list-style-type: none">➤ Couplers: 6 Outlets in cleaning base (2 Scopes).➤ Discharge: 1 Outlet (Compulsory discharging on rear panel) 3 Outlets (in the front door)➤ Power: AC 230V, 60Hz
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SCHEDULE -17C

c	PACKING AND INSPECTION SYSTEMS	1. Control and Packing Tables. 2. Heat Sealing Machines. 3. Magnifying Lamps. 4. Linen Fold Table 5. Gauze Cutting Machine	
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SPECIFICATION

1	<p>Control and Packing Tables Size – 1800 x 700 x 1400 mm 1800 x 1400 x 1400 mm</p>	<p><u>COMPONENTS:</u></p> <p><u>A) BENCH TOP:</u> The table top of the Control and Packing table is fabricated out of S.S. 304 quality and ground and polished to a dull mirror finish. The tabletop is duly re-inforced against bending and treated for sound deadening.</p> <p><u>B) STORAGE SHELF:</u> Two storage shelves fabricated from S.S.304 Quality stainless steel are mounted on the tabletop.</p> <p><u>C) FRAME:</u> The tabletop will be fixed on a S.S. square tube frame. The frame is provided with leveling lugs for suitable adjustment of height up to +/- 25 mm</p>
2	<p>Heat Sealing Machines.</p>	<p><u>OPERATION:</u> The continuous band heat-sealing machine with conveyer is suitable for hospital sterile packing. It adapts electronic constant temp control system (temp control) It has speed adjusting transmission mechanism. (Speed control) It can emboss upto 15 interchangeable characters for batch recording, date etc.(embossing mechanism) It can seal plastic film of various materials such as PE, PP, Aluminium foil etc It has height adjustments as well as sealing width adjustments</p> <p><u>SPECIFICATION:</u></p> <p>Temperature Range : 0---300 deg Current Supply : 220 –240 Volts,50 HZ, Single Phase Current Consumption : 500 watts Sealing speed : 0---12m/min Cutting size : 200 mm (8") Sealing width : 6---15 m m Sealing film thickness : 0.02---0.80m m Conveyor loading : up to 5kgs Machine size : 900 mm x 420mm x 660mm Weight of the Machine : 45 kg</p>

3	Magnifying Lamps.	<p>1. Two spring balanced arms with parallel movement of 150 deg C. in the horizontal plane.</p> <p>2. Arm Length: 105 cm made from finished in baked enamel.</p> <p>3. Chrome plated spring of high-grade tempered steel individually calibrated to ensure perfect arm balance.</p> <p>4. Die cast aluminum ballast box fixed to lower arm section</p> <p><u>MAGNIFYING HEADS</u></p> <ul style="list-style-type: none"> • Die cast aluminum reflector, enamel finish • Height : 7.5 cm • Diameter : 23 cm • Lens : Fixed 7 diptre bi-convex lens for ¾ x “Auxiliary clip on lenses” available for extra magnification • Lens Diameter : 12.5 cm
4	Linen Fold Table Size – 2134 x 1220 x 950	<p><u>COMPONENTS</u></p> <p><u>TABLE TOP:</u></p> <p>The table top is fabricated out of S.S. 304 quality and ground and polished to a dull mirror finish. The table top is duly re-inforced against bending and treated for sound deadening.</p> <p><u>FRAME:</u></p> <p>The tabletop will be fixed on a S.S. square tube frame. The frame will be provided with leveling lugs for suitable adjustment of height up to +/- 25 mm.</p>
5	Gauze Cutting Machine	<ul style="list-style-type: none"> • Blade Size : 200 mm (8 inches) • Cutting Capacity : 165 mm • Net Weight : 16 .0 Kg • POWER : 220 – 240V/ 0.75 H.P / Single Phase. <p>The machine is elegant, sturdily built to cut the thickest of Cotton gauze material. It helps you do away with the tedious, time-consuming conventional method of manual cutting, giving way to new improved cutting quality. This machine is operated on a Single phase Motor and consists of a cutting unit. And a knife sharpening unit that gives a finely honed edge to the cutting blade on the touch of a control lever/button.</p> <ul style="list-style-type: none"> • The low profile base-plate drastically reduces fabric distortion and drag. • The close fitting wing of the base-plate easily slips under the bottom ply without catching or snagging

		<p>the cloth.</p> <ul style="list-style-type: none">• The motor cooling fan dissipates heat build-up and directs the hot air-flow away from the operator.• Operating handle and lever are positioned for maximum convenience,• Blade can be sharpened by the automatic sharpening unit only when the lever is pressed down, ensuring safety.
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SCHEDULE -17D

d	WORK STATION AND STORAGE ACCESSORIES	1. Work Table With Under Shelf. 2. Storage Racks. 3. Free Standing Basket Rack	
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SPECIFICATION

1	<p>Work Table With Under Shelf Size – 1200 x 650 x 950 - 1800 x 650 x 950</p>	<p>COMPONENTS</p> <p><u>TABLE TOP :</u> The table top is fabricated out of S.S. 304 quality and ground and polished to a dull mirror finish. The table top is duly re-inforced against bending and treated for sound deadening.</p> <p><u>UNDERSHELF:</u> The under shelf fabricated out of S.S. 304 quality with beaded edge all duly buffed and polished and should be mounted at 300 mm above floor level.</p> <p><u>FRAME:</u> The tabletop will be fixed on a S.S. square tube frame. The frame will be provided with leveling lugs for suitable adjustment of height up to +/- 25 mm.</p>
2	<p>Storage Racks. (Wall – Mounted) Size – 1200 (W) x 500 (D) x 900 (H) mm -1800 (W) x 500 (D) x 900 (H) mm</p>	<p><u>SHELF: (3 Nos.)</u> The shell is fabricated from S. S. 304 sheet. This shell is bend downwards 15 mm. on the front and rear side.</p> <p>All welding is argon arc and all weld joint are polished to a smooth finish.</p> <p><u>FRAMEWORK:</u> The stand is fabricated from stainless steel S.S. 304 quality hollow square sections. Leveling lugs are provided at the bottom for stability.</p>
3	<p>S. S. Storage Rack (Floor Mounted) Size- 1200 (W) x 500 (D) x 1800 (H) mm - 1800 (W) x 500 (D) x 1800 (H) mm</p>	<p><u>FRAMEWORK :</u> The Stand is fabricated from stainless steel S.S. 304 quality hollow square sections.</p> <p>The rack is designed for mounting on the wall.</p> <p><u>SHELF: [5 Nos.]</u> The shelf is fabricated from S. S. 304 sheet. This 16 SWG sheet is bend downwards 15 mm. on the</p>

		<p>front and rear side.</p> <p>All welding is argon arc and all weld joints are polished to a smooth finish.</p>
4	<p>Free Standing Basket Rack</p> <p>Capacity – 16 Baskets</p> <ul style="list-style-type: none"> - 24 Baskets - 32 Baskets - 40 Baskets <p>Size - 790 x 650 x 1970 mm</p> <ul style="list-style-type: none"> - 1185 x 650 x 1970 mm - 1580 x 650 x 1970 mm - 1975 x 650 x 1970 mm. 	<p><u>APPLICATION</u></p> <p>For holding Baskets at various transit stages within the CSSD.</p> <p><u>CONSTRUCTION</u></p> <p>The Basket Rack is fabricated from stainless steel hollow sections. The stand holding members are provided with specially molded nylon caps for better aesthetic appeal and safety. The stand framework is provided with leveling lugs for height adjustment in the range +/-25 mm.</p>

SCHEDULE -17E

a	HANDLING SYSTEMS	<ol style="list-style-type: none">1. Baskets.2. Instrument Trays.3. Basket Trolleys.4. Distribution Trolley.5. Table Trolley with Shelf.6.Pass Box	
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SPECIFICATION

1	Baskets.	<p>SIZE: 540 x 370 x 140 mm.</p> <p><u>DESCRIPTION:</u></p> <p>The modular wire Basket has outside dimensions of: 540 x 370 x 140 mm. (L x W x H).</p> <p>The baskets fit one on another for easy transport when loaded. Also when empty baskets fit into one another for less stacking space.</p>
2	Instrument Trays.	<p>SIZE : 480 x 250 x 70 mm.</p> <p><u>DESCRIPTION:</u></p> <p>Fabricated from stainless steel wire with full argon welding.</p> <p>The Instrument trays are ideally suited for packing instruments for disinfection & sterilization.</p>
3	Basket Trolleys.	<p>SIZE: 540 x 390 x 180 mm.</p> <p><u>APPLICATION :</u></p> <p>The trolley is used for storing And transport of sterilizing baskets and total baskets.</p> <p><u>CONSTRUCTION :</u></p> <p>The frame of the trolley is fabricated by welded construction using S. S. 304 quality round bars duly buffed and polished. The frame is provided with 4 nos. Swiveling nylon castors.</p> <p>The trolley is finished for clean surfaces and will be designed for easy cleaning</p>
4	Distribution Trolley.	<p><u>APPLICATION:</u></p> <p>The distribution trolley is used in external transport of sterilized or contaminated goods in sterilizing baskets. The trolley is designed for transporting up to 8 baskets.</p> <p><u>CONSTRUCTION :</u></p> <p>The trolley is fabricated out of stainless steel tubing ground and polished with horizontally mounted stainless steel bars for the baskets.</p> <p>The trolley has two fixed castors in the front and two swiveling castors at the rear.</p>
5	Table Trolley with Shelf	<p>Size: 1080 x 500 x 800</p> <p><u>APPLICATION :</u></p>

		<p>The Trolley will be used in the sterile zone when holding sterile goods for delivery and also for short internal transport. The trolley will also be suitable for use as a temporary storage of utility space at packing tables.</p> <p><u>COMPONENTS</u></p> <p><u>A) TABLE TOP:</u></p> <p>The table top of the trolley is fabricated out of S.S. 304 quality and ground and polished to a dull mirror finish. The table top is duly re-inforced against bending and treated for sound deadening.</p> <p><u>B) UNDERSHELF :</u></p> <p>The trolley under shelf fabricated out of S.S. 304 quality with beaded edge all duly buffed and polished and should be mounted at 300 mm above floor level.</p> <p><u>C) CASTORS :</u></p> <p>The frame will be mounted on 4 nos heavy \square wiveling castors for easy movement in narrow passages.</p>
6	Pass Box	<p><u>MATERIAL OF CONSTRUCTION</u></p> <p>The Pass Box is fabricated from S.S. 304 stainless steel sheets with double wall construction. All welding is full argon welding for superior hygiene.</p> <p><u>ACCESSORIES AND FITTINGS</u></p> <ul style="list-style-type: none"> • UV lights for safe storage of components. As an additional safety to the operator the UV light will be automatically switched off when any one door is opened. Magnetic locks for both doors. • Door interlocking to prevent simultaneous opening of both doors. • Toughened glass paneling for easy visibility.

SCHEDULE-18

KITCHEN

a	Rice Steamer : 75 Kg capacity	3
b	Milk Steamer : 75Kg	2
c	Veg Steamer : 75Kg	2
d	Grinder : 25 kg	3
e	Coffee(Milk/Tea) Trolley with Heater Big, Dispenser	2
f	Food Supply Trolley (Rice Sambar, Curds)	3
g	Bread Store (With mesh covered) :100 kg Capacity	1
h	Copper Bottom Vessel(To Boil Eggs) Large Capacity for 500 eggs	1
i	Weighing Machine (Electronic) 25 kg	2
j	Water Drum 500 litre	4
k	Dinner Set(Sp. Ward) Large	25 +25
l	Chapattis Roller Machine	2+2
m	Lunch Plates (Large)	75
n	Cups(Bowl)Small + Medium	50+50=100
o	Knife Small (S. steel)	10 Pcs
	Knife Big	10 Pcs
p	Spoons –Serving Small	20
	Large	20
	Rice Serving	10
	Big size doubles	4+2
	Spatulas (chapattis)	2+2
q	Idli steamer	100 capacity
r	Gas cylinder	25
s	Exhaust fans (Big Kitchen)	2

SCHEDULE-19

PHYSIOTHERAPY DEPARTMENT

Sl. No.	Required things in Physiotherapy Department	Numbers
a	Laser Therapy	1
b	Intermittent Pelvic/ Cervical Traction with table	2
c	Short –wave diathermy unit 300 watts	1
d	Interferential therapy	2
e	Electrical stimulation with pen Electrode	1
f	Infrared Radiation [IR]	2
g	Parallel Bar Big	1
h	Shoulder wheel	2
i	Shoulder Pulleys	1
j	Over head Pulleys	1
k	Quadriceps Table	2
l	Quadriceps Board	2
m	Crutches	3 Pairs
n	Walker	3
o	Sticks	3
p	Ankle exercise	3

SCHEDULE-20

FURNITURES

SCHEDULE-20A

a	Executive chairs	30
b	Office Chair	500
c	Wooden Rectangular stool	80
d	Office table 3x6	300
e	Executive tables (Big with racks)	60
f	Almirah	150
g	Computer table +chairs	40

SPECIFICATION

a	Executive chairs	Moulded plywood for seat and back, Moulded polyurethane foam for seat and back, Revolving and Tilting system, PU arm rests, 5 Prong PP base, Nylon twin castor wheels, Upholstered
b	Office Chair	Chair is made with 19mm dia 16G pipe, 60 microns powder coated steel frame, plywood backing, polyurethane foam for seat and back, PU arm rests upholstered with desired colour of fabric. Fixed arm H120Xseat width450Xback width 590
c	Wooden Rectangular stool	1.1/2 ft Square teak wood 2ft height
d	Office table 3x6	Table is made from 25 mm thick plain particle board post formed with desired colour laminate and back up laminate on bottom side. All other panels will be 18 mm thick pre-laminated particle board with the exposed edged duly covered using PVC edges bending tape with EVA hot melt glue at 200 ⁰ , Provided with 3 –drawers on powder coated steel slides, handles and lock on one side. Size:1500 L x 750 W x 750 mm H.
e	Executive tables (Big with racks)	Table is made from 25 mm thick plain particle board post formed with desired colour laminate on top side All other panels are made with 18 mm thick pre-laminated particle board with the exposed edge duly covered using PVC edges bending tape with EVA hot melt glue at 200 ⁰ C the table is assembled using necessary hardware such as chip board screws steel drawers slides handles and locks the Provided with 3 –drawers unit with made of pre Laminate particle board, castors handles and lock on one side. Size:1800 L x 900 W x 750 mm H.
f	Almirah	Cupboard fitted with four fixed shelves making five compartments double door with three way locking device and duplicate keys, all joints outside and inside will be spot are welded and neatly finished by grinding. Outside will be rounded off to give smooth appearance. The edges of doors and shelves will be properly bent to shape of 25mm width to ensure good strength and the outer edge of bent of the door lengthwise should be double folded and neatly finished. . the MS sheet should be of 18G for body and shutters 20G for shelves 900 x 1950 x 470mm deep powder quoted
g	Computer table & chairs	Table is made with 25mm thick post formed top in selected shade of laminate and all other panels are being 18mm thick pre-laminated particle board with all the exposed edges covered with PVC edges bending tape using EVA

		hot melt glue at 200 ⁰ C on the machine along with one drawer, keyboard, CPU shelf. Size: 1200 Lx 1050W x 740 mm light & Revolving type hydraulic left moved cusion with arm heavy duty
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SCHEDULE-20B

a	Demonstration Chair	750
b	Bed side lockers	440
c	3 Seater chairs	600
d	Cots	450
e	Foot steps	125
f	Back rests	20
g	Examination cots / couches	100
h	ICU Cots	40
i	Beds	440

SPECIFICATION

a	Demonstration Chair	Made out of 1 round 16gauge pipe seat back are cushion with right arm fitted rotting writing pad made out of 1''X2''.1/2'' nevopan board with PVC beading
b	Bed side lockers	16''X16'' square & H32'',size of the cup board H12''W12''Xd12'',ss sheet enclosed on three sides having 1 box & 1 drawer. SS top superimposed with three raised edges.
c	3 Seater chairs	Size: Length: 165, Width: 55 & Height: 45cm (90-100 cm back rest) Tubular/square base made out of 60 x40 mm SS tube of 16SWG Three seater .18 swg perforated CR sheet for the chair size: 45''x 45''cm with arm rest, good workmanship. Oven backed/Powder coated black finishing not less than 50 microns. All end part should be closed with steel Cap.
d	Cots	Cot made out of MS 16 G Sheet Construction, duly powder coated. The Head Board and foot board are made out of 32mm thick 16G Ø pipe the cot frame will have box type rib 16G MS sheet with desired colour powder coated of 60 microns with misquote frame fixing Size ; L 1900 X w 890 X H 400
e	Foot Double steps	Length :18'',width:8'',Height:18'' Top sheet CRCA 20 SWG sheet.
f	Back rests	
g	Examination cots / couches	Length :72'', width:21'', Height :33'' Top sheet CRCA 16 SWG. M.S sheet, double press bent in 2 section adjustable on Ratchet.
h	ICU Cots	Length :78'' Width :36'' Height:21''to 29'' Detachable Head bow :42'' Foot bow :42'' Four section perforated for backrest , knee rest & longitudinal tilt & Height adjustment Detachable SS Tubular head & foot bows with laminated panels SS.I.V rod with four locations Provision for mosquito net Four swivel castors of 6'' dis two with brakes Mattress for above cot Mattress size should be match with the ICU Cot 4'' thickness with 3'' coir & 1'' Foam Should be covered with durable rexine with raps The mattress should be s four section as above to

		<p>match the ICU cot .</p> <p>Full length collapsible SS safety side railings at both sides</p> <p>Four sections perforated CRCA 16G Top.</p>
i	Beds	<p>Length (cms): 198.0. Width (cms) :Nos 91.5.</p> <p>Thickness (cms): 10.2 coir</p>

SCHEDULE-20C

a	Racks	140
b	Ordinary chairs	500
c	File rack	25
d	Notice Board	25
e	White Boards	25
f	Steel round stool	250
g	Pigeon Lockers	30

SPECIFICATION

a	Racks	Steel Racks size of 1`x3`x6` with four sizes Angles 14-G
b	Ordinary chairs	Stool is made with 30mm dia MS tubular frame seat wooden top, back MS tubular All end part should be closed with steel Cap.
c	File rack	Filing cabinets size of 54”X27X32” with drawers made out of 18 gauge
d	Notice Board	made out of inside cushion 2 X 4 fit 3 X 5 fit
e	White Boards	White board is made out aluminium frame work all round and resin coated fixed with suitable hardware fixtures. Size: 2400X1200mm
f	Steel round stool	Stool is made with 30mm dia MS tubular frame, stainless steel seat top adjustable from 450 to 600 mm height. Frame work will be powder coated in TA grey colour
g	Pigeon Lockers	Steel cupboard with 10 lockers made from 20G MS Sheet, with individual locking arrangement and powder coated of 60 microns Size: 1200x1950x470mm deep.

SCHEDULE-21

HOSPITAL NECESSITIES

SCHEDULE-21A

a	Kidney Tray	50
b	Bed pan	35
c	Waste disposable- Bins Drums	10 5
d	Plastic bucket with lid	10
e	Plastic Apron	100
f	Weighing Scales – Round (Digital +Ordinary=20+58)	78
	Infant	5
	Electronic Infant	3
g	Stethes scopes	140
h	Needle Cutters	40
i	X-ray View box	60
j	Water purifier	30
k	BP Apparatus- Adult	50
	Stand	10
	Pediatric-2.5cms	5
	5cms	5
	9cms	5
l	Sterilizer- Medium	50
	Small	10
m	Steel torch	30
n	Table lamp	6
o	Stadiometer (Height measuring scale)	4
p	Thermometer- Clinical	50
	Rectal	20
q	Wall clocks	-----
r	Stomach wash equipments	5Sets
s	Tongue depressor	20
t	Et- tube stylet	20
u	Nasal prongs- Neonates	
	Infants	15
	Adults	15
v	T- pieces	30
w	Face masks- Neonate +Pediatric	20

	Adults	15
x	Steel torch	30
y	Ambu bag with Reservoir- Adult	25
	Neonate	20
z	Laryngoscope with Blades – Adult	10
	Neonate	10
aa	Glucometer	25
ab	Nebulizer	25
ac	Hot water sterilizer -30x20x20``	3
ad	Diathermy cautery	1
ae	Plaster cutting Scissors	20
af	Electrical Extension Board	35
ag	Formaline chamber 25``(Transparent PVC 3chambers)	5
ah	Tools set (Screw Drivers)	1Sets
ai	Pass box (Magnetic) (CSSD)	1
aj	Airways 0,1,2,3,4	3sets
	Adults	15
ak	Arm board- Adult	10
	Pediatric	10
al	Enema sets	5
am	Hangers with Rod for clothes	20
an	Cold light Source with cable	2
ao	Fumigator	1
ap	Ophthalmoscope	2
aq	Bone marrow aspiration needle	10
ar	Liver Biopsy needle	10

SCHEDULE-21B

a	Drugs trolley	15
b	Mayo Trolley SS	50
c	Instruments trolley SS with out railings Standard size	06
d	Dressing trolley SS with Railings 3side Provision for bucket, bowl basin tray Standard size	20
e	Patient shifting trolley hydraulic, tiltable, provision FOZ, o2 cylinder & drip stand	6
f	Trauma care Crash Cart	10
g	Foot operated stretcher	6
h	drip stand	200
i	wheel chairs	12
j	Dressing drums (Bins) for Autoclaves 15x12``=3 14 x10``=3 11x9``=3 11x4 1/2=2 6x6` =2	30 30 30 20 20
k	Surgical tray with cover (SS) 15x12`` 12x8`` 8x6``	10each
l	O2 cylinder trolley	6

SPECIFICATION

a	Drugs trolley	
b	Mayo Trolley SS	Tray Length: 22" Width :15" Adjustable Height of SS Tray From 30"to 50" Mounted on four swivel 2" dia castors
c	Instruments trolley SS with out railings Standard size	Length:30" Width :20" Height:36" Double press bent two nos SS shelves S frame fabricated out three sides of shelves SS rails on three sides of shelves Mounted on four swivel 4" dia castors
d	Dressing trolley SS with Railings 3side Provision for bucket, bowl basin tray Standard size	Length :30" Width :20" Height :36" Double press bent two nos SS shelves with 2nos .SS bowls fitted on SS frame H frame work fabricated out of 1" dia 16SWG SS pipe SS rails on all four sides of shelves
e	Patient shifting trolley hydraulic, tiltable, provision FOZ, o2 cylinder & drip stand	
f	Trauma care Crash Cart	Length :37" Width :19" Height:60" Removable six coloured bins & two polystyrene lockable storage units with three drawers Mounted on four swivel 5" dia castors two with brakes Powder coated oxygen cylinder holder
g	Foot operated stretcher	
h	Drip stand	Size: Adjustable from 60"to 90" Central stand 16 SWG 1" dia SS pipe 4 Winged base & A telescope 10mm dia SS 304 grade for with double hooks & Legs fitted with 2"dia castors
i	wheel chairs	Width : 26", Height : 36", Depth :43" MS tubular frame work fitted with metal seat & back . Metal foot rests Two rubber bicycle wheels with brakes Self propelling hoops
j	Dressing drums (Bins) for Autoclaves 15x12`=3 14 x10`=3 11x9`=3 11x4 ½=2 6x6` =2	

k	Surgical tray with cover (SS) 15x12`` 12x8`` 8x6``	
1	O2 cylinder trolley	MS tubular frame work fitted with two wheels Suitable for 1320 ltrs size gas cylinder SS