S. No.	Name of Items	specification
1	Physiology Department	A CONTRACTOR OF THE BUILDING STATES
i	Neubauer chamber for WBC/ RBC Counting	German made
2	RBC pipette with mouth piece	German made
3	WBC pipette with mouth piece	German made
4	Haemoglobinometer pipette with rubber	German made
5	Demonstration eye piece	THE SOURCE REPORT OF SHARE THE LOCAL SHOPE SHARE
6	Double demonstration eye piece	Comprising a high quality beam-splitting prism of optical glass ensuring perfect vision to both the observer and sub-observer; conveniently located fine pointer to cover the entire field, i.e. rotatable 360°, being visible to both the viewers for easier demonstration; Both horizontal and vertical eye piece with 10x magnification
7	Plain Mirror 4'x2' size With Frame and stand	Carrier and the Assess and the Carrier and
8	All glass distillation apparatus double stage, Voltage stabilizer, with spare heating elements	protecting part of the hear the long of the special
9	Spirometer, ordinary	Water type Double container, 6 Liter capacity, Made up of Stainless steel; Pulley calibrated with recording lever to denote volume; with chain compensated counter balance; inlet and outlet tubes, side cock for gases, cock for draining off water; corrugated tube mouth piece
10	Mosso's Ergograph	For recording work done by a finger on to the drum surface. With arm fixation rests, finger holders, finger strapes, recording lever for drum, pulley & a set of 5 KGs slotted weights
11	Otorhinolaryngoscope	4mm 0 degree HOPKINS II Wide Angle Straight Forward Telescope 0 ⁰ . • Enlarged view Dia 4mm Length 18 cm • Color Code: Green; Autoclavable • Fiber Optic light transmission Incorporated, Battery should be rechargeable

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12	Hand Grip Dynamometer (Digital)	Light weight LCD/LED Display/force indicator for pounds or kilograms isometric grip force: 0-200 lbs (90Kg); Should have sturdy body with scratch resistant UV coating Capable to measure PSI with cordless hand evaluation tool Provided with precision digital load cell technology Capable upto 5 tests/trials with each hand without reset Provision for rapid exchange testing with audible signals and automatically calculates the average, standard deviation and coefficient of variation Facility to automatically calculate average, standard deviation and coefficient of variation Provision to review individual test readings and all calculations Feature to choose the hand to be
13	von Frey's Hair aesthesiometer	tested Provision with battery back up Stainless steel body, Should have a protective screw cap; The horse hair is carried in a graduated holder which by sliding into tube lengthens the protruding part of the hair, the length being read directly on a scale
14	Compass aesthesiometer	Two limb of compass with graduated arc; Limb is bifurcated to possess two point one blunt for the touch and the other sharp for pain; Should ISO/CE/BIS Certified
15	Knee hammer	Metallic handle; Pointed end, which is usually covered; Concealed brush
16	Tuning fork to test hearing 32-10000 cps(sets-100, 256, 512 hz)	Tuning fork should be chrome plated with frequency marked as 128,256,512,1024 Hz
17	Stethoscopes, demonstration with multiple ear pieces	Should have high quality sound transmission, Should be light weight, Preferable color black or grey, Should have tight and soft sealing ear tips, Chest piece – adult, System Configuration Accessories, spares –Diaphragms, Eartips, Binaurals, Rims

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Computarised complete pulmonary
Function test machine with complete accessories

accurate & precise interpretation; designed for the following measurement protocols Spirometry with pre/post comparison, Flow/Vol and Vol/Time loops/curves and Trend Loops. Individual interpretation assistance; MVV Patient Cooperation Display; Determination of anatomical and functional dead spaces; Pneumotach easily sterlizable; Flow Measurement Range: 0 to +/- 16 Ltrs/sec with accuracy better than +/- 3% or 100 ml/sec; Volume measurement Range: 0 to 10 ltrs with resolution of 10 ml; measuring SVC, VC ex, V C max, IRV, ERV, VT, IC, Frequency, MVV, ti, te, ti/te, FVC, FEV1, FEV 0.5, FEV 1/ VC max, FEV 1/ FVC ex, MEF25, MEF 25-75, PEF, PIF, MVV and prepost

comparisons.; Should measure CO2 max %, Vm25-50, Vm50-75; Automatic BTPS correction; Window based software along with Laptop & Printer; Could record all parameters of respiratory function; Should include all accessories, viz.-digital turbine, adult & paediatrics mouthpieces, nose clip USB compatible; CPU – Pentium IV Core i7 Processor; RAM – 8 GB, At least 500 GB HDD; At least 17" TFT Color Monitor; DVD R/W Drive,laser jet Printer; Windows 10 with suitable UPS.

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19	EMG/NCV/EP(Somatosensory, Visual, P300 & BERA) Recording Machine (Minium 4 channel) with complete accessories	Ethernet connection for connecting to either to desktop system or laptop system for portable use;Needle & surface EMG, Trigger EMG, Jitter EMG; Turn/Amplitude Analysis, Q-MUAP; storage facility of complete EMG Data; EMG replay of minimum 600 sec of stored data from hard disk with audio and store in AVI format for review on any Windows Media Player PC; Nerve Conduction; Customised setting for individual nerve —motor, sensory; F wave with split screen display with automatic marking of F responses showing the Max F, Min F and % F values, H reflex & Blink reflex;Repetitive nerve stimulation; Auto Area & duration calculation; Auto storage of highest amplitude trace in MNCV; Super imposition of traces Sympathetic skin response; RR Interval program with programs for stand/sit/supine position & Heart rate variability calculations; Somatosensory (Upper, lower, Dermatomes), Visual (Pattern reversal VEP, 16" VEP monitor for visual evoked potential), Auditory (BAER, AEP programs) Evoked Potential, MMR, LLR & P-3004 recording; Provision to display & store multiple waves; Auditory headphones with clicks, bips and tones; Input Impedence - > 1000 M ohm Low filter to be varied from 0.05 Hz - 500Hz or Higher; High filter to be varied from 30Hz - 5KHz or Higher; Gain to be varied from 0.5 ms/div to 1000 ms/div;Constant current stimulator with current variable from 0 to 100mA with increments
20	Machine for Autonomic funtion test with complete accessories	Head up Tilt Table; TM flow system;
21	Bicycle Ergometer with data recording	Speed independent; Braking principle: Eddy current; workload and RPM analog meter or digital display, with high load accuracy; Racing saddle, handlebars and toe clips with variable position options; Wingate up to 2000 Watts; Workload Programmer; digital timer with alarm safety switch for stopping & reversing the motion. ELECTRICAL POWER connection available, Optional are Blood Pressure & Pedal Force Measurement, Heart rate signal, Double connected handlebar, Zero watt start-up, Pediatric seat, cranks and pedals
22	Basal Metabolic Rate Apparatus / Benedict Roth apparatus with recording paper	Six litre capacity, Spirometer has been provided with a unit of 4-speed electric recording Kymograph with gravity writing ink-pen; Easily accessible valves, soda-lime container with screw connections in central chamber drain cocks to all tubes and containers. Sampling cock provided for connecting the patient to Spirometer or atmosphere

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23	Human Non invasive BP Recorder (finger set-up)	System for continuous, beat-to-beat, blood pressure signal recording from the fingers, using double finger cuff; small, medium, and large size cuff; measured parameters BP, sBP, dBP, mBP, and PR <i>plus</i> hemodynamic parameters CO, CI, SV,SI, SVR, and SVRI with PPV, SVV
24	Pen recording Spirometer	Lightweight, Perfectly Counterpoised stainless steel Bell , housed in a brass/stainless steel cylinder with brass interior fittings and piping; counterweight travelling over two lightweight pulleys by a chain. This counterweight fits in a calibrated tube; On the bottom of the counterweight is a marker which holds a pen arm and disposable cartridge pen for recording on the kymograph. Recording Device is a 4-speed kymograph with a crystal-controlled electronic drive is mounted on the base of the Spirometer. The four chart speeds are 25, 150, 600 and 1200 mm per minute. Other accessories are one-way valve, 3 mouth pieces, 2 nose clips, 100 sheets kymograph paper, color-indicating absorbent (3 kg), 6 disposable pen cartridges, pen arm, and thermometer
25	Metronome	Tempo range: 30 bpm to 252 bpm; Tempo settings: pendulum step, FULL step, TAP tempo: Beat range: different kinds available (0 to 9 beats, duplets, triplets, triplet with inner beat omitted, quadruplets,) Tempo accuracy: +/- 0.2%; Tone accuracy: under 1cent; Connections- Phone jack, Dynamic speaker, batteries powered
20	6 Polygraph 16 Channel	16-Channels Computerised digital data acquisition system having provision to record independently EEG, EMG, EOG,GSR respiration, Pulse, BP, Volume, Force etc. with sampling rate 1024 samples/sec; amplifier – universal AC/DC; Sensitivity – 1 to 1500 μV/mm; Pass filter – 0.1 to 100 Hz; sweep speed – 0.05 – 100 mm/sec.; Input impedance > 10 GΩ; CMRR > 80 dB; with cable, Junction Box, EEG/ EMG Electrodes, ECG Electrodes, Pulse Transducer, Phono Cardiogram Transducer, Skin Temperature Transducer, Galvanic Skin Response Transducer, Pressure Transducer, Muscle Activity/Force Transducers, Volume Transducer; with CPU Processor i7, 8 GB RAM, 500 GB HDD, DVD R/w, USB 2.0; Monitor - 17" coloured supporting 1024 X 768 mode; Printer - Windows supporting laser jet Color Printer; Operating System:

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Material ABS (Acrylonitrile butadiene styrene) Plastic Flow Meter with cardboard mouthpieces; Temperature resistance (°C) -10 to +50°C; Storage temperature (°C) 0 27 Peak flowmeter to +50°C; Measurement range 50 – 800L/min; Accuracy Above +/- 10 L/min or +/- 10% of the measurement; Reproducibility Above +/- 5 L/min or +/- 5% of the measurement; Leakage resistance; Frequency response Difference between A/B profiles below 15 l/min/15% Surasti 18/12/2023

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