

**बिड दस्तावेज़ / Bid Document**

बिड विवरण / Bid Details	
बिड बंद होने की तारीख/समय / Bid End Date/Time	10-06-2026 16:00:00
बिड खुलने की तारीख/समय / Bid Opening Date/Time	10-06-2026 16:30:00
बिड पेशकश वैधता (बंद होने की तारीख से) / Bid Offer Validity (From End Date)	30 (Days)
मंत्रालय/राज्य का नाम / Ministry/State Name	Ministry Of Education
विभाग का नाम / Department Name	Department Of Higher Education
संगठन का नाम / Organisation Name	Delhi University
कार्यालय का नाम / Office Name	Vallabhbhai Patel Chest Institute
कुल मात्रा / Total Quantity	42
वस्तु श्रेणी / Item Category	Demonstration eye piece , Double demonstration eye piece , Stethoscope . Stethoscopes, demonstration with multiple ear pieces , Spirometer, ordinary Manual , Mosso s Ergograph , Compass aesthesiometer , Thermo aesthesiometer , Algometer , Knee hammer , Olfactometer , Ophthalmoscope , Schematic eye , Color perception lantern Edridge Green , Otoloscope , Tuning fork to test hearing , Van Slyke s apparatus manometric , Venous pressure apparatus , Douglas bag, complete , Apparatus for passive movement , Phakoscope , Perimeter with charts Lister s , Maddox rod , Newton s color wheel , Sherrington Starling kymograph electrically driven Complete assembly , Electromagnetic time marker , Myograph stand , Electronic stimulator , Tuning fork time marker 100 per sec , Electrodes , Spirit lamps , Marey s tambour , Step down transformers
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	Demonstration eye piece, Double demonstration eye piece, Stethoscope , Stethoscopes, demonstration with multiple ear pieces, Spirometer, ordinary (Manual), Mossos Ergograph, Compass aesthesiometer, Thermo-aesthesiometer, Algometer, Knee hammer, Olfactometer, Ophthalmoscope, Schematic eye, Color perception lantern Edridge Green, Otoloscope, Tuning fork to test hearing 32-10000 cps (100, 256, 512Hz), Van Slykes apparatus manometric, Venous pressure apparatus, Douglas bag, complete, Apparatus for passive movement, Phakoscope, Perimeter with charts (Listers), Maddox rod, Newtons color wheel, Sherrington Starling kymograph (electrically driven) Complete assembly, Electromagnetic time marker, Myograph stand, Electronic stimulator, Tuning fork time marker (100/sec), Electrodes, Spirit lamps, Mareys tambour, Step down transformers

बिड विवरण / Bid Details

**Searched String:** Demonstration eye piece

Eye Blinder, Eye Pad Conforming to IS 17628, traffic signs - bilinker light, Timolol Eye Drops, Protective Eye Goggles (MHA), Moxifloxacin Eye Drops, Microscopes - Pathological and Research as per IS 4381, IS 5204, IS 4381, IS 5204, Prednisolone Eye Drops, Compostable Bio-Medical Waste Collection Bags (Biohazard Bags), Cyclopentolate Eye Drops

**Searched String:** Double demonstration eye piece

FRP Urinal Cabin (V2), traffic signs - bilinker light, Microscopes - Pathological and Research as per IS 4381, IS 5204, IS 4381, IS 5204

**Searched String:** Stethoscope

acoustic stethoscope, Acoustic Stethoscope (V2), Acoustic Binaural Stethoscope (V3), Digital Stethoscope with integrated ECG as per MHA QR

**Searched String:** Stethoscopes, demonstration with multiple ear pieces

Acoustic Binaural Stethoscope (V3), Wrestling Mats

**Searched String:** Spirometer, ordinary (Manual)

Spirometer, Diesel Power Generator (up to 900 KVA), Spirometer (V2), Manual Winches, Manual Single Channel Air Displacement Pipettors Or Micropipette (V2), Manual Pitch Roller, pH Meter, Manual Paddy Seeder, Lyophilizer, Manual Paddy Weeder

**Searched String:** Mossos Ergograph

S type load Cell, S-Curve Urethral Dilator Set, 2,4,6-Tris(2-pyridyl)-s-triazine, Parallel Bar - Outdoor Gym Equipment, Clerk Maxwell Apparatus, Vertical Autoclave, M S Structural Plate as per IS 2062, M S Casing For Pulverised Fuel Mill (BHEL), Spirometer, Zero Air generator with compressor

**Searched String:** Compass aesthesiometer

Magnetic Compass, Dry Military Compass (MHA), Magnetic Compass (V2), tent arctic camping and outdoor equipment, Nylon Rope as per IS 4572

**Searched String:** Thermo-aesthesiometer

Digital Thermo Hygrometer, Manual Single Channel Air Displacement Pipettors Or Micropipette (V2), Solar Thermo-Reflective Exterior Coating For Cooling Of Roof Top- IS:17218, PH buffer solution, Disposable Clinical Thermometers, Thermos SS (Defence), Clinical Thermometer - Solid Stem Type, Clinical Thermometer - Enclosed Scale Type, Ultra low temperature laboratory deep freezer, Thermocouple Standards Platinum / Platinum Rhodium

**Searched String:** Algometer

Category not available on GeM for the text string uploaded by the buyer

**Searched String:** Knee hammer

Knee Hammer, Knee Braces and Splints (V2), Knee Hammer

बिड विवरण / Bid Details

(V2), Reflex Hammer (V2), Concrete Test Hammer (Rebound Hammer), Hammer Unions, Reflex hammer, Rotary Hammer Drill (NDRF), Claw hammer, stocking anti embolism stockings for dvt prophylaxis

**Searched String:** Olfactometer

Category not available on GeM for the text string uploaded by the buyer

**Searched String:** Ophthalmoscope

Binocular Indirect Ophthalmoscope - RBSK, Binocular Indirect Ophthalmoscope (V2) - RBSK, Coaxial Ophthalmoscope Rechargeable

**Searched String:** Schematic eye

Eye Blinder, Protective Eye Goggles (MHA), Eye Pad Conforming to IS 17628, Fixed Clean Agent Gas based Fire Suppression System, Timolol Eye Drops, Moxifloxacin Eye Drops, Polyester Round Slings, Prednisolone Eye Drops, Cyclopentolate Eye Drops, Hand Held Search Light

**Searched String:** Color perception lantern Edridge Green

Steel Almirah / Cabinets (V4), Rubberised Fabrics and Ground Sheet - JSS Standard - MK XII, Flower Pots or Planters (V2)

**Searched String:** Otoscope

Diagnostic Otoscope Rechargeable, Diagnostic Otoscope (V2)

**Searched String:** Tuning fork to test hearing 32-10000 cps (100, 256, 512Hz)

Tuning Fork (V3) Conforming to IS 10995

**Searched String:** Van Slykes apparatus manometric

Van Slyke Manometric Blood Gas Apparatus, Clerk Maxwell Apparatus, Hand Operated Direct Shear Apparatus

**Searched String:** Venous pressure apparatus

Femoral Venous Perfusion Cannula, blood pressure recording units, Central Venous Catheter Conforming to IS 10555 (Part 3), Extraction Apparatus, Autoclave (Horizontal), Orificemeter Apparatus, Notch Apparatus, JAR TEST APPARATUS, Reynolds Apparatus, High Pressure Washer

**Searched String:** Douglas bag, complete

Douglas bag system (complete set), Tool bag, Hiking Bag, Compostable Bio-Medical Waste Collection Bags (Biohazard Bags), Vomit Bag, Compostable Bio-Medical Waste Collection Bags (Biohazard Bags) (V3), Bag filter, Laundry Bag, Tracksuit, tea bag

**Searched String:** Apparatus for passive movement

Movement Therapy System for Upper and Lower Body, Thermal Conductivity Apparatus for liquid, Flexural Testing apparatus of Concrete - IS 9399, Bar and gauge apparatus for laboratory, Water - Drinking and Sanitation (V2), Passive

GeMARPTS में खोज गया परिणाम / Searched Result generated in GeMARPTS

विड विवरण / Bid Details

Exoskeleton for Augmentation and Rapid Logistics (PEARL) (CRPF), Apparatus For Conducting Orifice/Mouthpiece Experiment, Parallelogram Law of Forces Apparatus, Newton's law of cooling apparatus (University pattern), Wrist Watch and Watch Movements for Mechanical Watches conforming to IS 13130 (Part 1)

**Searched String:** Phakoscope

Category not available on GeM for the text string uploaded by the buyer

**Searched String:** Perimeter with charts (Listers)

Zero Air generator with compressor, Parallel Bar - Outdoor Gym Equipment, Thermocouple Standards Platinum / Platinum Rhodium, Agar Media, Spirometer, Agar Media (V2), Medical Training kit with Human mannequins for medical education or training, Modular Table / Meeting Table / Centre Table (V2), Portable Ultrasound Machine, Moulded Case Circuit Breakers (MCCB) Conforming To IS/IEC 60947 (Part 2)

**Searched String:** Maddox rod

Maddox Rod (V2), Muffle Furnace, Tungsten Rod, Earthing Rod, Lat Pull Down (Version 2), Mining Drill Rod, Ph Meter Rod, Electrical Rescue Rod, Digital LED vision chart, Rod Avalanche (V2) as per IS 11616

**Searched String:** Newtons color wheel

Revolving Chair (V5), Steel Almirah / Cabinets (V4), Metal Beds (V3), M.S Stopper for Traffic Control (Portable Barrier), computer kiosk, Wheel Chairs (V2), Wheeled Skid Steer Loader (V2) as per IS / ISO 7131 (Latest), Wheelbarrows (Two Wheels Type) as per IS 4184

**Searched String:** Sherrington Starling kymograph (electrically driven) Complete assembly

Category not available on GeM for the text string uploaded by the buyer

**Searched String:** Electromagnetic time marker

Electromagnetic flowmeter, Online UPS (V2), DNA marker, Electromagnetic Yoke Machine, Elliptical Cross Trainer, Time Switch, Protein ladder marker, Portable Emergency LED Lighting Tower System with Battery Bank, Permanent Marker Pen, Surgical Skin Marker Pen (V2)

**Searched String:** Myograph stand

Coat Stand, Metal Storage Cabinet, Bottle Stand, flask stand, Cloth Dryer Stand, burette stand, funnel stand, Twister - Outdoor Gym Equipment, Magnetic Stand, Speaker Stand

**Searched String:** Electronic stimulator

Peripheral Nerve Stimulator, Air Curtain, Electronic Lectern, Electronic Theodolite, Electronic Weighing Scales, Electronic dosimeter, Electronic Hooter, Electronic Baby Weighing Scale - RBSK, DC Electronic Load, electronic total station

**Searched String:** Tuning fork time marker (100/sec)

बिड विवरण / Bid Details  
 Category not available on GeM for the text string uploaded by the buyer

**Searched String:** Electrodes

ECG Electrodes, Portable electrode oven, TURP Electrodes, electrocardiography ekg patch electrodes or disposable ecg electrodes, Low Hydrogen Electrodes, Welding Electrode - Covered Arc Welding Electrode - Basic Type (BEML), ECG Electrodes (V2), Ph Meter Rod, Carry Oven for Welding Electrodes, Electrode Holder as per IS 2641

**Searched String:** Spirit lamps

Spirit level, Self Ballasted LED Lamps (LED Bulb) (V3) Conforming to IS 16102 (Part 2) (Under BIS Scheme - II), Floor Lamps-Handicraft, Lamp Starter (Ignitors - Starting Device) for HPSV Lamps, Metal Halide Lamps) as per IS 12449 (Part 1 and Part 2), Projector Lamps, Digital Electronic Spirit Level (Digi level or Digital inclinometer), Spirit Burner-IS:323, Slit Lamp, Floor Lamps-Handicraft (Bamboo), Wall Lamps and Sconces-Handicraft

**Searched String:** Mareys tambour

S type load Cell, S-Curve Urethral Dilator Set, 2,4,6-Tris(2-pyridyl)-s-triazine, Parallel Bar - Outdoor Gym Equipment, Clerk Maxwell Apparatus, Vertical Autoclave, M S Casing For Pulverised Fuel Mill (BHEL), M S Structural Plate as per IS 2062, Spirometer, M S Sheet as per IS 1079 (Unit - Mass)

**Searched String:** Step down transformers

Step Hurdle, foot step for hospitals, Jacket Down and Trouser Down (Defence), Distribution Transformer, 3 Phase, 11 kV, >200 KVA upto and Including 2500 KVA ISI Marked To IS 1180 (Part 1), Platform Step Ladder (V2), Single Operator AC Arc Welding Transformers as per IS 1857, Lat Pull Down (Version 2), Cast Copper Alloy Screw Down Bib Taps and Stop Valves for Water Services as per IS 781, Temperature Indicator for Transformers - Analog type, Power Transformer, Oil immersed type

अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / **Relevant Categories selected for notification**

- Acoustic Binaural Stethoscope (V3)

बीओक्यू शीर्षक / **BOQ Title**

Procurement of 33 Lab instruments

टर्नओवर के लिए एमएसई को छूट प्राप्त है / **MSE Relaxation for Turnover**

Yes | Complete

स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / **Startup Relaxation for Years of Experience and Turnover**

No

विक्रेता से मांगे गए दस्तावेज़ / **Document required from seller**

Certificate (Requested in ATC), Additional Doc 1 (Requested in ATC)  
 \*In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer

**बिड विवरण/Bid Details**

क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	10
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	3
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
बिड का प्रकार/Type of Bid	Two Packet Bid
प्राथमिक उत्पाद श्रेणी/Primary product category	Stethoscope
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	5 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
वित्तीय दस्तावेज की आवश्यकता है / Financial Document Required	Yes
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

**ईएमडी विवरण/EMD Detail**

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	17612

**ईपीबीजी विवरण /ePBG Detail**

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%) /ePBG Percentage(%)	5.00

ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).

60

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई कटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**लाभार्थी /Beneficiary :**

Director

3rd floor, Administrative Block, MS Building, Vallabhshai Patel Chest Institute, Department of Higher Education, Delhi University, Ministry of Education  
(Director, Vpci)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

**एमआईआई खरीद वरीयता / MII Purchase Preference**

एमआईआई खरीद वरीयता / MII Purchase Preference	Yes
मेक इन इंडिया विक्रेताओं को खरीद में प्राथमिकता, यदि उनका मूल्य $L1+X\%$ तक की सीमा में है / Purchase Preference to MII sellers available upto price within $L1+X\%$	20
मेक इन इंडिया खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MII purchase preference	50
सार्वजनिक खरीद (मेक-इन-इंडिया को प्राथमिकता) आदेश 2017 के अनुसार केवल क्लास 1/क्लास 2 के स्थानीय आपूर्तिकर्ताओं को ही भागीदारी की अनुमति है दिनांक 16.09.2020 (समय-समय पर संशोधित एवं लागू) / Allow participation only from Class 1/Class 2 local suppliers as per the Public procurement(Preference to Make-in-india) order 2017 date 16.09.2020(as amended and applicable time to time)	Yes, in compliance with the MII ORDER : DPIIT Order(as amended and applicable time to time)

**एमएसई खरीद वरीयता/MSE Purchase Preference**

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उपमूल उपकरण निर्माताओं को खरीद में प्राथमिकता, यदि उनका मूल्य $L1+X\%$ तक की सीमा में हो / Purchase Preference to MSE OEMs available upto price within $L1+X\%$	15

सूक्ष्म और लघु उद्यम को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MSE purchase preference

25

1. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.

2. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per Mil order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per Mil order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023. OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

3. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

4. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

### Demonstration Eye Piece

(कमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

तकनीकी विशिष्टियाँ /Technical Specifications

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**परेषिती/रिपोटिंग अधिकारी तथा मात्र/Consignees/Reporting Officer and Quantity**

क्र.सं./S.No.	परेषिती/रिपोटिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

**Double Demonstration Eye Piece**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

**तकनीकी विशिष्टियाँ /Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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**परेषिती/रिपोटिंग अधिकारी तथा मात्र/Consignees/Reporting Officer and Quantity**

क्र.सं./S.No.	परेषिती/रिपोटिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

**Stethoscope**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

**तकनीकी विशिष्टियाँ /Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	2	60

**Stethoscopes, Demonstration With Multiple Ear Pieces**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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### Spirometer, Ordinary Manual

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### Mosso S Ergograph

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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**Compass Aesthesiometer**

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**Thermo Aesthesiometer**

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**Algometer**

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**Knee Hammer**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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**Olfactometer**

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**Ophthalmoscope**

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### Schematic Eye

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### Color Perception Lantern Edridge Green

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### Otoscope

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**Tuning Fork To Test Hearing**

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**Van Slyke S Apparatus Manometric**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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**Venous Pressure Apparatus**

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**Douglas Bag, Complete**

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**Apparatus For Passive Movement**

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**Phakoscope**

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Perimeter With Charts Lister S

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परेषिती/रिपोर्टिंग अधिकारी तथा मात्र/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
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क्र.सं./S.N o.	परेषिती/रिपोटिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

### Maddox Rod

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

तकनीकी विशिष्टियाँ /Technical Specifications

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

### Newton S Color Wheel

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

**Sherrington Starling Kymograph Electrically Driven Complete Assembly**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

**Electromagnetic Time Marker**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

**Myograph Stand**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

**Electronic Stimulator**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

**Tuning Fork Time Marker 100 Per Sec**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

**Electrodes**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	2	60

**Spirit Lamps**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	4	60

### Marey S Tambour

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	2	60

### Step Down Transformers

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Sunil Kumar	110007,VALLABHBHAI PATEL CHEST INSTITUTE, NORTH CAMPUS, OPPOSITE SHRI RAM COLLEGE OF COMMERCE, UNIVERSITY OF DELHI	1	60

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions

1. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

Note: Buyer is requested to fill tender as per E-Tender No. **VPCI/PUR/OT/Gen/26-27/12-1/11** attached in ATC 1.

Sr. No	Name of the Instrument	Short definition	Technical Specifications
1.	<b>Demonstration eye piece</b>	<p>A demonstration eyepiece is a special microscope eyepiece attachment used in laboratories and classrooms so that a specimen can be demonstrated under the microscope.</p> <p>It is commonly attached to teaching microscopes.</p> <p>Usage</p> <p>Teaching, demonstrations, training, research</p>	<ul style="list-style-type: none"> <li>• Demonstration eye piece with 10 x magnification.</li> <li>• Huygenian eye piece having a pointer to locate different positions of specimen.</li> <li>• Material: Metal body with optical glass lenses</li> <li>• Eyepiece diameter of at least 23 mm fitting</li> <li>• Should be compatible with common laboratory Compound microscopes</li> <li>• Should have Optical and Anti-reflection coated lenses</li> <li>• Preferably in a velvet lined Case.</li> </ul>

2. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

2.	<b>Double demonstration eyepiece</b>	A Double Demonstration Eyepiece is a microscope accessory that allows two users (teacher and student) to observe the same specimens simultaneously.	<ul style="list-style-type: none"> <li>· Dual viewing system with 10x magnification.</li> <li>· Huygenian eye piece having a pointer to locate different positions of specimen.</li> <li>· Built-in pointer should be visible to both viewers</li> <li>· Material; Metal body with optical glass lenses</li> <li>· Eyepiece: with Double Demonstration Lens Material Optical glass Tube Diameter of at least 23 mm</li> <li>· High-quality optical glass</li> <li>· Metal body construction</li> <li>· Should be compatible with common laboratory Compound microscopes</li> <li>· Should have Optical and Anti-reflection coated lenses</li> <li>· Preferably in a velvet lined Case.</li> </ul>
3.	<b>Stethoscope</b>		

4.	<b>Stethoscopes, demonstration with multiple ear pieces</b>	Demonstration stethoscope with multiple ear pieces (also called a teaching stethoscope) is designed so that 2 people can listen simultaneously to heart, lung, or body sounds during medical training.	<b>Teaching/Demonstration stethoscope</b> <ul style="list-style-type: none"> <li>• Headset           <ul style="list-style-type: none"> <li>o Chrome plated stainless-steel binaural with adjustable tension.</li> <li>o Ergonomically angled (15° - 17°) for comfortable ear alignment.</li> <li>o Soft-sealing snap-tight rubber/silicone ear tips for better acoustic seal.</li> <li>o Number of Earpieces: 2 sets</li> </ul> </li> <li>• Chest Piece:           <ul style="list-style-type: none"> <li>o Dual head chest piece (diaphragm + bell).</li> <li>o Made of stainless steel or anodized aluminum for high acoustic sensitivity.</li> <li>o Diaphragm: Tunable, 45-50 mm diameter.</li> <li>o Bell: 30-35 mm diameter.</li> <li>o Non-chill rim patient comfort.</li> </ul> </li> <li>• Acoustic Tubing:           <ul style="list-style-type: none"> <li>o High quality PVC/Latex-free tubing.</li> <li>o Minimum length: 50-55 cm length approx. 70-75 cm)</li> <li>o Thick-walled single-lumen or dual-lumen design to reduce ambient noise.</li> <li>o Oil and alcohol resistant material.</li> </ul> </li> <li>• Weight: Total weight 120-380 grams depending on model.</li> <li>• Total Stethoscope Length: Approx. 70-80 cm</li> <li>• Performance:           <ul style="list-style-type: none"> <li>o High acoustic sensitivity suitable for heart, lung and vascular sound auscultation.</li> <li>o Frequency range 20Hz-20000 Hz.</li> <li>o Good sound amplification with minimal loss.</li> </ul> </li> <li>• Warranty: Minimum 2-5 years manufacturer warranty.</li> </ul>
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5.

**Spirometer, ordinary (Manual)**

It is a medical instrument used to measure the volume of air inhaled and exhaled by the lungs.

Used for measuring static lung volumes in

Pulmonary function testing

System Type: Closed-circuit, water-sealed recording spirometer.

Consist of metallic vessel with

6 or 9 Litres capacity (standard, inverted bell/float type) inverted on jacket of water

Recording Mechanism: 4-speed electric kymograph (often featuring speeds for 4-minute and 20-minute rotations) with gravity writing ink pen.

Gas Used: 100% Oxygen filled into the internal bell.

CO<sub>2</sub> Absorption: Soda-lime container with screw connections, located in the breathing circuit to remove expired Carbon Dioxide (CO<sub>2</sub>).

Breathing Tubes: Separate corrugated rubber tubes for inspiration and expiration with unidirectional valves for open and closed-circuit assessment.

Counter-balance System: Chain compensated counter-balance for the floating bell.

Monitoring Instruments: Thermometer fitted on the float (to calculate BTPS) and pressure gauge/drain cocks.

Dimensions: Approximately 440 mm x 330 mm x 290 mm

Portable Frame: The unit is typically mounted on a stand, making it portable.

Recording Paper: Specialized kymograph paper calibrated to measure volume in Litres (L) against time.

Patient Connection: Mouthpiece with nose clip to ensure mouth-breathing only.

Gas Filling: Sampling cock provided for filling the bell with oxygen or connecting the patient to the atmosphere

Should be able to measure Oxygen Consumption to determine BMR and static lung volumes such as Tidal Volume, Inspiratory Capacity, Expiratory Capacity and Vital Capacity

6.	<b>Mosso's Ergograph</b>	It is an instrument used to measure and record muscular work and fatigue, especially of the finger muscles.	<ul style="list-style-type: none"> <li>· Should have sun mica topped wooden board fitted with two pairs of clamp for fixing forearm on armrest and a pair of steel finger holder with adjustable arm and finger length.</li> <li>· It should have sliding plate over the board.</li> <li>· The plate should be fitted with chart/graph holder and a vertically fitted spring loaded writing device for recording / automatic ratchet recording system on drum surface.</li> <li>· Should have provision to hang hook with weights for conducting different sets of experiments.</li> <li>· Weights should be 1 kg x 10 numbers.</li> </ul>
7.	<b>Compass aesthesiometer</b>	A Compass Aesthesiometer is a medical instrument used to measure the two-point discrimination sense of the skin — the minimum distance at which a person can distinguish two separate points being touched simultaneously.	<ul style="list-style-type: none"> <li>· Material: Stainless steel/brass</li> <li>· Design: Should have two adjustable pointed arms like compass with adjusting screw giving movement of approx. 1 mm. per half turn read on a scale.</li> <li>· Scale: Graduated scale in millimeters</li> <li>· Measurement Range: Usually 0-100 mm</li> <li>· Tips: Well formed, Blunt or pointed tips</li> </ul>
8.	<b>Thermo-aesthesiometer</b>	It is an instrument used to test the temperature sensation of the skin — the ability to distinguish between hot and cold stimuli.	<ul style="list-style-type: none"> <li>· Material: Metal with insulated handle</li> <li>· Components: Two metallic cylinders/tips</li> <li>· Filling: One side for hot water, one for cold water</li> <li>· Handle: Non-conducting/ebonite handle</li> </ul>

9.	<b>Algotometer</b>	It is an instrument used to measure the sensitivity to pain or the pain threshold produced by pressure on the body	<ul style="list-style-type: none"> <li>· Must be able to exert a pressure of 1 to 8 kg/ cm<sup>2</sup> or more on manual operation.</li> <li>· Should be provided with a resolution of at least 0.5kg/ cm<sup>2</sup> or less.</li> <li>· Minimum Range: 0.5kg</li> <li>· Maximum Range: 2 kg</li> <li>· Should be provided with internal spring which must be made of non-fatigable stainless-steel material.</li> <li>· User must be able to calibrate the spring assembly over a period of time.</li> <li>· Readings must be read directly over a resettable and movable sliding scale or a dial scale.</li> <li>· Pressure delivery point must be blunt with an area of at least 1 cm<sup>2</sup> g.</li> <li>· Must be made of non-rusting stainless-steel material.</li> <li>· Tip /Holding point and pressure delivery point must be covered with thick rubber material.</li> <li>· Warranty of 3 years.</li> </ul>
10.	<b>Knee hammer</b>		
11.	<b>Olfactometer</b>	For assessing olfactory sensation for humans	Specification: - <ul style="list-style-type: none"> <li>· Should consist of two 500 ml flask</li> <li>· One 'Y' tube</li> <li>· Rubber tubing: 1 m. x 1no.</li> <li>· Rubber bladder: 1 no.</li> </ul>

12.	<b>Ophthalmoscope</b>	An ophthalmoscope is an instrument used to examine the interior of the eye, especially the retina, optic disc, and blood vessels.	<p>Ophthalmoscope for examining human eye.</p> <ul style="list-style-type: none"> <li>• Should be hand held with rechargeable battery and halogen /LED light source.</li> <li>• Should have Aluminum frame system.</li> <li>• Optical components are flush-mounted on a cast aluminum frame.</li> <li>• Range of lenses: 27 lenses from -35D to + 40D</li> <li>• Without macula aperture (pin hole).</li> <li>• Precise one hand control of the instrument.</li> <li>• Should have 1 Memory Stick</li> <li>• Item Weight 300 -400 g</li> <li>• Should be provided with carrying case, Soft Pouch and cleaning cloth</li> </ul>
13.	<b>Schematic eye</b>	A schematic eye is a simplified theoretical model of the human eye used in optics to represent its main optical components (like cornea, lens, and retina) for studying image formation and eye functions.	<ul style="list-style-type: none"> <li>• Should be physical model that represents the basic optical features of the real eye.</li> <li>• Should be made of plastic or fiber with following minimum dimensions: <ul style="list-style-type: none"> <li>o Height 19cm. Width 18cm</li> <li>o Thickness 22cm.</li> <li>o Approx. 5 x enlargement</li> </ul> </li> <li>• Should have semi-detachable arrangement for demonstration.</li> <li>• Warranty: 2 years</li> </ul>

14.	<b>Color perception lantern - Edridge Green</b>	Is a device used to test color vision (color perception), especially for detecting color blindness, by showing standardized colored lights under controlled conditions	<ul style="list-style-type: none"> <li>· Should consist of five rotating discs, three discs containing seven colored glasses and one clear aperture.</li> <li>· One disc contains seven various size aperture and one contains seven modifying glasses.</li> <li>· The required handle position is indicated by scale which can be viewed from the rear of the instrument only.</li> <li>· Should be supplied with frosted milk bulb.</li> <li>· Should be provided with standard Examination Charts.</li> <li>· Warranty: one year or more</li> </ul>
15.	<b>Otoscope</b>		
16.	<b>Tuning fork to test hearing 32-10000 cps (100, 256, 512Hz)</b>	Used in hearing tests to evaluate hearing ability and type of hearing loss by producing sound vibrations at specific frequencies.	<p>Tuning fork set of (100,256,512Hz)</p> <p>Shape:- U Shape.</p> <p>Handle:- Solid.</p> <p>Length:- 5-7 Inch</p> <p>Features:- Heavy duty</p> <p>Material:- Stainless steel and aluminum</p> <p>Frequency:- 100, 256, 512 Hz,</p> <p>Surface Finish:- Galvanized</p>

17.	<b>Van Slyke's apparatus manometric</b>	<p>Measure the volume of gases (especially oxygen and carbon dioxide) in blood or biological samples using a manometric (pressure-based) method.</p>	<p><u>Van Slyke Manometric Specification:</u></p> <p>-</p> <p>Material : Stainless Steel</p> <p>Container Type -: Wooden Frame</p> <p>VAN SLYKE APPARATUS / VAN SLYKE MANOMETRIC APPARATUS:</p> <p>Glass Parts:</p> <p>Reaction Chamber: A cylindrical glass container where the reaction to release the gas occurs.</p> <p>Manometer: A U-shaped or straight glass tube filled with a liquid (often mercury or water) to measure the pressure or volume of the gas released.</p> <p><b>Pipettes and Reservoirs:</b> Glass pipettes for precise liquid handling and reservoirs for reagents.</p> <p>Stopcocks and Tubing: For controlling the flow of liquids or gases.</p> <p>Connecting Joints: Ground-glass connections for secure assembly.</p> <p><b>Wooden Stand:</b> A solid and stable base, often made of varnished or polished hardwood, designed to hold the delicate glass parts securely. Adjustable clamps and mounts to ensure proper alignment of the apparatus and to prevent breakage during experiments.</p>
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18.	<b>Venous pressure apparatus</b>	To measure Demonstration of venous pressure recording.	<ul style="list-style-type: none"> <li>· Consisting of main console of single channel Physiograph</li> <li>· pressure transducer and Coupler with Venus cannula - box of 5</li> <li>· Plain Stand, Clamp and X-Block for Pressure Transducer.</li> <li>· Measurement range 0-30 cm H<sub>2</sub>O (or 0-20 mmHg)</li> <li>· Accuracy: <math>\pm 1</math> cm H<sub>2</sub>O</li> <li>· Manometer type Water manometer/Digital transducer</li> <li>· Scale graduation: 1 mm or 1 cm intervals</li> <li>· Tubing material: Medical-grade latex or silicone</li> <li>· Display type: Analog column or digital LCD</li> <li>· Operating principle Hydrostatic pressure measurement</li> <li>· Calibration: Manual or automatic</li> <li>· Power supply (digital type) 220-240 V AC/Battery</li> </ul>
19.	<b>Douglas bag, complete</b>	To measure Oxygen consumption (VO <sub>2</sub> ), Carbon dioxide production (VCO <sub>2</sub> ), Respiratory exchange ratio (RER), Energy expenditure and metabolic rate	<ul style="list-style-type: none"> <li>· Complete Douglas bag Having transparent valve &amp; rubber pipe</li> <li>· System for Collection of expired air for respiratory gas analysis</li> <li>· Bag Material Gas-impermeable PVC/rubberized flexible sheet</li> <li>· Capacity: 100-200 L</li> <li>· Type: Flexible collapsible gas collection bag</li> <li>· Should have Valve System Mouthpiece with One-way/non-rebreathing valve Accessories</li> <li>· Rubber or plastic mouthpiece Tubing</li> <li>· Nose clip, tubing, gas analyzer connection</li> </ul>

20.	<b>Apparatus for passive movement</b>	It is an apparatus to move a joint or limb through its range of motion without the patient's active muscle effort.	<ul style="list-style-type: none"> <li>Target Body Part: passive movement Upper and Lower Limbs</li> <li>Usage: Flexion and Extension of any joint through a Prefixed Range of Motion and Time</li> <li>Types: Various range of motion settings where movement Protocols can be programmed &amp; stored in memory</li> <li>Features: SIX, Mobilization Modes for Continuous, Intermittent and Progressive passive movements</li> <li>Application: Flexion and Extension of the upper /lower limb joints through a Prefixed Range of Motion</li> <li>Controller type: Computer-based</li> <li>Passive resistance monitor: To be provided</li> </ul>
21.	<b>Phakoscope</b>	Apparatus to study the crystalline lens of the eye, especially to observe and demonstrate accommodation.	<ul style="list-style-type: none"> <li>Phakoscope standard along with following details: <ul style="list-style-type: none"> <li>o Consists of triangular box the base of which is about 35cm long and other two sides of 18cm each.</li> <li>o Height of the box is about 10cm</li> <li>o Painted black inside</li> <li>o Mounted on stand</li> <li>o Three angles of box are truncated and provided with holes of adequate size</li> <li>o The truncation leaves a distance of about 10cm between the apex and the center of the base</li> <li>o At one of truncated angle two prism are placed.</li> </ul> </li> </ul>

22.	<b>Perimeter with charts (Lister's)</b>	To measure the field of vision, helping detect defects in peripheral vision by mapping what a person can see while focusing on a central point.	<ul style="list-style-type: none"> <li>· Should have metallic, semi-circular arc to map the visual field</li> <li>· The arc should be graduated from 0° to 90° with a movable test object.</li> <li>· At the back of the arc, arrangement should be provided for fixing of chart which has concentric circles corresponding to the degrees of arc.</li> <li>· Should have Adjustable chin rest.</li> <li>· The above-mentioned system should be fitted over a sturdy base with receptacle for keeping charts.</li> <li>· Accessories: Different sized (2mm &amp; 5mm), shaped (round &amp; square) and colored (five different) objects.</li> <li>· Metallic graduated scale with a movable pin punch point to mark on perimeter</li> <li>· Should be provided with standard charts (500 numbers)</li> </ul>
23.	<b>Maddox rod</b>	To test ocular alignment by converting a point of light into a line image.	<ul style="list-style-type: none"> <li>· Maddox rod standard</li> <li>· Maddox rod lens: red/white/green rim options</li> <li>· Handle material: copper handle</li> </ul> <p>Length: 70mm.</p>
24.	<b>Newton's color wheel</b>	To demonstrate color mixing and the spectrum of visible light,	<ul style="list-style-type: none"> <li>· Newton's color wheel having different colors in rainbow order on a disc mounted on a stand</li> <li>· Should be provided with a handle or disc which can be rotated ..with electricity.</li> </ul>

25.	<b>Sherrington Starling kymograph (electrically driven) Complete assembly</b>	To record physiological movements or changes over time, such as muscle contractions, heart activity, or respiratory movements, by converting them into a continuous graphical record on a rotating drum powered electrically.	<p>Sherrington Starling Kymograph (Standard) (electrically driven) :- E-8 Kymograph with Myograph stand, Inductorium, Simple key, Short circuiting key, Pohl's commutator ; Vibrating Read, Muscle trough, Muscle lever, Muscle grip of femur clamp, Hook and Weight set, Heart lever (simple &amp; Starling), Frog board for dissection, Enamel tray, Frog board cork lined with boss head, Low voltage unit for tapping 2 and 4 volts for stimulation, Electro magnetic time marker, Tuning fork time marker 100/sec,</p> <p>Electrodes, X-blocks</p> <ul style="list-style-type: none"> <li>• Speeds from 0.12 mm/sec to 640 mm/sec</li> <li>• 8 steps in speed gear- hand gear</li> <li>• Oil lapped gear system</li> <li>• Electric motor Instantaneous Start and stop Clutch</li> <li>• Cylinder-6 inch diameter</li> <li>• Stainless Steel Spindle screw lift 15x15cm.cylinder.</li> <li>• Double electric Contact arms Clamped on the main spindle and a stout double-contact block fitted on top of the base.</li> <li>• Special Heavy Duty motor</li> <li>• Jerk Free Running</li> <li>• Voltage-220V-240V</li> </ul> <p>Kymograph Part Lever setup gel pen          The holder carrying a length of spring steel wire and a flat steel lever with holes for attaching thread wire.</p>
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26.	<b>Electromagnetic time marker</b>	To be used with recording instruments to measure the duration and timing of physiological events.	<ul style="list-style-type: none"> <li>· Electrical Time Marker, or signal marker, double magnet</li> <li>· Coil wound round soft iron bar</li> <li>· Coil connected to screw</li> <li>· Soft iron plate with spring</li> <li>· Tension of screw can be regulated by screw</li> <li>· Writing lever attached to plate</li> <li>· Bar and holder to fix the instrument on stand</li> </ul>
27.	<b>Myograph stand</b>	To support a myograph system for recording muscle contractions, holding the muscle preparation, lever, and recording device in a stable position during physiological experiments.	<ul style="list-style-type: none"> <li>· Material: Durable, rust-resistant materials such as stainless steel, brass, or aluminum to withstand biological fluids and cleaning.</li> <li>· Adjustability: Height- and angle-adjustable clamps for mounting, ensuring flexible positioning for muscle lever systems.</li> <li>· Compatibility: Designed to fit standard kymograph uprights (e.g., 9.5 mm clamps or 38-45 cm total height).</li> <li>· Base Components: Usually includes a heavy base or a robust clamping mechanism for stability.</li> </ul> <p>Lever System: Often paired with a stainless steel/aluminum myographic lever featuring a ~150 mm arm, adjustable fulcrum, and needle bearings for low-friction recording.</p>
28.	<b>Electronic stimulator</b>	Used in physiology experiments to deliver controlled electrical impulses to nerves or muscles in order to study their responses or produce muscle contraction.	<ul style="list-style-type: none"> <li>A. For Animal: <ul style="list-style-type: none"> <li>· Transistorized Stimulator, with 25V. DC output in two steps,</li> <li>· Duration 0.5 or 1.5ms.,</li> <li>· Frequency: 0.5 to 100 c/s in 11 steps.</li> <li>· Modes: Single, repetitive or an external trigger.</li> </ul> </li> <li>B. For Human: <ul style="list-style-type: none"> <li>· Channel: Dual, isolated between channels.</li> <li>· Pulse intensity: Adjustable 0-80 mA peak into 500-Ω load each channel, constant current</li> <li>· Pulse Rate: 1Hz-160 Hz (adjustable), 1Hz/step (1-20 Hz), 5Hz/step (20-160 Hz)</li> <li>· Pulse Width: 50 μs - 260 μs (adjustable), 10 μs / step</li> <li>· Timer: 15, 30, 60 minutes and continuous mode</li> </ul> </li> </ul>

29.	<b>Tuning fork time marker (100/sec)</b>	Used with recording instruments to produce regular time marks at 100 intervals per second, helping measure precise timing in physiological recordings.	Tuning Fork Frequency -100Hz with attached pointer/stylus in one of the Prongs.
30.	<b>Electrodes</b>	Electrodes are conductive devices used to transfer electrical signals.	<p><b>SIMPLE ELECTRODE</b></p> <ul style="list-style-type: none"> <li>· Acrylic block with copper wire poles</li> <li>· Copper wire placed in holder made of nonconductive material (cork, Plastic etc.) with screw</li> <li>· Two shielded parallel electrode wires in layer of nonconductive material</li> </ul> <p>Polarizable or non-Polarizable electrode</p>
31.	<b>Spirit lamps</b>	Small laboratory burner that uses alcohol (spirit) as fuel to produce a flame for heating, sterilization, or simple experimental work.	<ul style="list-style-type: none"> <li>· Spirit lamp made from highly durable stainless steel or glass.</li> <li>· To be provided with replaceable wick.</li> </ul>
32.	<b>Marey's tambour</b>	Physiological recording device that uses a flexible membrane connected to a lever system to convert small pressure changes (like breathing or pulse) into mechanical movements, which can be recorded on a kymograph.	<ul style="list-style-type: none"> <li>· This device should convert changes in air pressure into movements of a stylus that scribbles on a kymograph.</li> <li>· Diaphragm diameter 22mm or 28mm (Approx) on which flexible membrane can be tied.</li> <li>· Stainless Steel capillary lever and hollow stem.</li> <li>· Sliding adjustment to writing point</li> </ul>
33.	<b>Step down transformers</b>	An electrical device that reduces high voltage to a lower voltage	Step down transformers:-Series or Shunt regulators are frequently used for regulating the voltage of the DC power.

### अस्वीकरण/Disclaimer

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs

and including the modification of technical specifications and / or terms and conditions governing the bid. All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM. If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

**All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.**

**For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.**

**The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:**

- All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and
- All operative provisions of the erstwhile Labour Laws until their complete substitution.

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.

This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace.

However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.

यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने या इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---