



F-No.-AIIMS/JMU/BOO/2024/LP/15

Dated: | January, 2025

Inviting Quotations for Purchase of Dental Plaster Lab Equipment required for the Department of Dentistry, at AIIMS, Vijaypur Jammu.

QUOTATION NOTICE

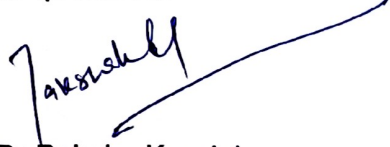
Sealed quotations are invited from intending registered Stockiest / Distributors having GST and relevant documents for Purchase of Dental Plaster Lab Equipment required for the Department of Dentistry, at AIIMS, Vijaypur Jammu. The quotation with copy of certificate of GST & other documents should be submitted to Procurement Section at AIIMS, **Vijaypur, District Samba, Jammu (184120)** up to **01-01-2025** till 03:00 pm. The quotations will be opened on the same day at 04:00 pm. Details of Items are given as under:-

S. No.	Name of Items	Make/Model	Qty.	Packs Size/Unit	HSN Code	Basic Price	GST %	Total Cost Inclusive of GST
1	Acrylizer unit		01					
2	Dewaxing unit		01					
3	Palatal arch trimmer		01					
4	Double disc model trimmer		01					
5	Dental lathe with suction		01					
6	Brushless lab micromotor		01					
7	Dental hydraulic press		01					
8	Mechanical press		01					
9	Dental steam cleaner		01					
10	Dental Vibrator		01					
11	Dental wax knife heater		01					
12	Dental plaster trap		01					
13	Plaster saw with blades		01					
14	Plaster cutter		01					
15	Three pin articulator		01					
16	Dog bite articulator		01					
17	Plaster-less articulator		01					
18	Dental flasks		01					
19	Clamp		01					
20	Dental lab workstation		01					



Terms & Condition

1. Firm to mention Make/Brand name in their quotation.
2. GST, if any (Kindly mention in above table) should be clearly mentioned in the offer.
3. Document relating to registration of firm i.e., GST number and relevant document should be submitted along with quotation.
4. GST/other taxes please may be included in your quotation with the price in separate column.
5. The aforementioned items must confirm to the specifications attached as Annexure-1.
6. Supply should be made within 15 days from the date of purchase order.
7. Price should be for Destination basis (i.e., concerned department).
8. Payment will be released after certification from HOD of Concerned Department / Inspection committee of AIIMS, Vijaypur, Jammu.
9. **Quotation Name, Name of Department and No. must be mentioned on top of envelope.**
10. Liquidated damage shall be @ 0.5% for delayed supply per week or part of week for delay subject to maximum of 10%.
11. AIIMS, Vijaypur, Jammu reserves the right to place order for full or part quantity to one or more firms. The AIIMS, Jammu reserves the right to increase/ decrease the number of required quantities all other terms & condition.
12. Sealed quotation should be submitted by speed post/ copy courier/ by hand to Procurement Section, AIIMS, Vijaypur, District Samba, Jammu (184120) up to 21-01-2025 till 03:00 pm.
13. **Vendors would get their sample check by user department through procurement section before the last date of quotation opening.**
14. **Validity of quotation should be 90 days from the date of opening.**
15. **Sample to be submitted as and when required by the institute.**
16. **Firm to submit documentary evidence in support of claim of GST at the time of submission of bills.**
17. **All column given in quotation should be filled otherwise quotation will not be accepted.**
18. **Demo of the Item is must for quality check before the last date.**
19. **Please mentioned Email-id and Contact Number in the quotation.**


Dr Raksha Kundal
Chairperson,
Store Purchase Committee,
AIIMS, Vijaypur, Jammu

DENTAL PLASTER LAB EQUIPMENT SPECIFICATIONS

1. ACRYLISER UNIT

- 1.1. The acryliser unit should be designed for polymerizing acrylic materials used in dental prosthetics.
- 1.2. The construction must be double-walled, with both inner and outer bodies made of stainless Steel 304 Grade. The outer body should have a powder-coated paint finish.
- 1.3. The tank capacity should be sufficient to accommodate multiple flasks or large prosthetic cases.
- 1.4. The temperature must be controlled via a digital display and a digital controller cum timer.
- 1.5. It should include a stainless steel drain plug for easy drainage.
- 1.6. The unit should have a transparent or easily accessible lid for monitoring the polymerization process.
- 1.7. The device must operate on a 220/230 volts AC power supply.
- 1.8. It should comply with industry safety standards for laboratory equipment.
- 1.9. Spare parts and accessories should be readily available for maintenance.
- 1.10. Warranty: 1 year or more *& CAME 4 YEARS*

2. DEWAXING UNIT

- 2.1. The dewaxing unit should be designed for efficient removal of wax from dental flasks during prosthetic fabrication.
- 2.2. The construction must be double-walled, with both inner and outer bodies made of stainless steel 304 Grade with the outer body should have a powder-coated paint finish.
- 2.3. The unit should include a high-capacity chamber to accommodate multiple flasks simultaneously
- 2.4. The unit should have temperature control with a digital display and digital controller cum timer.
- 2.5. An alarm must activate once the set time is completed, ensuring timely operation.
- 2.6. A high-quality drain valve should be provided.
- 2.7. The unit must operate on a 220/230 volts AC power supply.
- 2.8. It should comply with industry safety standards for laboratory equipment.
- 2.9. Spare parts and accessories should be readily available for maintenance.
- 2.10. Warranty: 1 year or more *& CAME 4 YEARS*

3. DENTAL PALATAL TRIMMER

- 3.1. It must be specifically engineered for palatal trimming, catering to dental applications.
- 3.2. The motor should be powerful and durable, with high torque for efficient trimming.
- 3.3. Blade speed should be adjustable to handle different trimming tasks.
- 3.4. Blades and burs should be made of high-quality stainless steel or carbide-tipped for durability and precision.

- 3.5. Safety guards should be included, with features like a blade cover and emergency stop button.
- 3.6. The noise level should be low, around 55-60 dB, for quiet operation. The design should be compact, ergonomic, and easy to control with minimal vibration for user comfort.
- 3.7. A self-cleaning system should be available for easy removal of debris from the blade, burs, and chamber.
- 3.8. Spare parts, replacement blades, and burs should be easily available.
- 3.9. The device must operate on a 220/230 volts AC power supply.
- 3.10. Warranty: 1 year or more * CAMC 4years

4. **DOUBLE DISC MODEL TRIMMER**

- 4.1. The model trimmer should operate at 2800 RPM or more to ensure efficient and precise trimming of dental models.
- 4.2. It should feature double motors, each with a power of 1 HP, to provide robust and consistent performance.
- 4.3. Heavy-duty construction should ensure durability and long-term reliability under continuous use.
- 4.4. Each motor should be equipped with two ball bearings for smooth operation and reduced wear.
- 4.5. The unit should have a single-speed operation, optimized for continuous performance without overheating.
- 4.6. The trimmer should come with a fixed 10" carborundum coarse cutting wheel (imported) for rough trimming tasks and one 10" Carborundum Wheel
- 4.7. The design should incorporate a heavy base for stability during operation, minimizing vibrations.
- 4.8. An inlet and outflow water system should be integrated to control dust and keep the discs cool.
- 4.9. The trimmer should be easy to clean and maintain, with easily available spare components.
- 4.10. Warranty: 1 year or more * CAMC 4years

5. **DENTAL LATHE WITH SUCTION**

- 5.1. The dental lathe should operate at a speed of 3000 RPM or more for efficient grinding, polishing, and finishing tasks.
- 5.2. It should include a lighted dust box that should be detachable and capable of functioning independently.
- 5.3. Should have lamp that provide bright and uniform illumination for precision work.
- 5.4. The unit should feature a strong torque motor and a powerful suction pump with a combined output of at least 550W.
- 5.5. A small brush holder should be included to hold polishing and grinding tools
- 5.6. The construction should be durable, with corrosion-resistant materials for longevity. The unit should be provided on a movable trolley that should have a cabinet for storage.

- 5.7. Safety features, such as a transparent shield and overload protection, should be integrated to ensure operator safety.
- 5.8. Spare parts, including brushes and motor components, should be readily available for maintenance and replacements.
- 5.9. The device must operate on a 220/230 volts AC power supply.
- 5.10. Warranty: 1 year or more *& CAMC 4 years*

6. BRUSHLESS LAB MICROMOTOR

- 6.1. The unit should have a speed range of 1,000 to 50,000 min⁻¹ with a torque of 7.8 Ncm for high-performance precision work.
- 6.2. It should feature an auto-cruise speed function to maintain a consistent rotation speed for repetitive tasks.
- 6.3. The brushless lab micromotor should include a digital speed display (RPM) for precise speed monitoring during operation.
- 6.4. A self-diagnosis system with an error code display function should be integrated for quick troubleshooting and maintenance.
- 6.5. The dual control system should support both brushless and brush motors, allowing alternate use based on application needs.
- 6.6. Variable speed control should be available through both hand and foot pedal operation for enhanced versatility.
- 6.7. It should have compatibility with an air turbine adaptor for added versatility.
- 6.8. The unit should have an overload alarm system.
- 6.9. Power Supply: 200-240V, 50/60 Hz
- 6.10. Warranty: 1 year or more *& CAMC 4 years*

7. DENTAL HYDRAULIC PRESS

- 7.1. The press should deliver a maximum pressure of 2 tons.
- 7.2. The lifting height should be at least 80mm, providing sufficient clearance for various tasks.
- 7.3. The construction should feature durable, corrosion-resistant materials for long-lasting use.
- 7.4. Ergonomic design should minimize operator fatigue during extended use.
- 7.5. The hydraulic mechanism should operate smoothly, with minimal maintenance required.
- 7.6. The unit should comply with safety and quality standards for dental laboratory equipment.
- 7.7. Warranty: 1 year or more *& CAMC 4 years*

8. MECHANICAL PRESS

- 8.1. The press should be constructed from durable and robust materials, such as cast iron or high-grade steel, to withstand repeated use and high pressure without deformation.
- 8.2. It should provide a uniform and controlled application of pressure to the dental flask, ensuring accurate molding and curing of resin materials or other dental restorations.

- 8.3. The press should have a mechanism with adjustable pressure settings to accommodate various materials and processes.
- 8.4. The design should feature a stable base and anti-slip pads to prevent movement during operation, ensuring precise and safe handling.
- 8.5. The pressure plates should have a smooth, flat surface to ensure even contact with the dental flask, preventing damage or distortion.

8.6 *warranty: 1 year & CAMC 6 years*
 9. **DENTAL STEAM CLEANER**

- 9.1. It should be specifically designed for cleaning ceramic materials in dental and laboratory applications.
- 9.2. Cleaning must be performed at a pressure of 5-6 bar and a constant temperature of 140°C.
- 9.3. The unit should feature an efficient boiler system to maintain consistent steam pressure for prolonged use.
- 9.4. A corrosion-resistant stainless steel housing should ensure durability and easy maintenance.
- 9.5. The steam cleaner should include a user-friendly control panel with options for adjusting pressure and temperature.
- 9.6. A refillable water tank or direct water connection should provide uninterrupted operation.
- 9.7. Spare parts and maintenance kits should be easily available for servicing and longevity.
- 9.8. The unit should meet international safety and performance standards for dental and ceramic cleaning equipment.
- 9.9. Power Supply: 200-240V, 50/60 Hz
- 9.10. Warranty: 1 year or more *& CAMC 4 years*

10. **DENTAL VIBRATOR**

- 10.1. The dental vibrator should have a capacity to accommodate 3-4 casting cylinders.
- 10.2. It should include a removable rubber plate for easy cleaning.
- 10.3. The unit should be fitted with a controller for variable vibrational frequencies to cater to different material requirements.
- 10.4. The motor should provide consistent and adjustable vibration for optimal material flow and bubble removal.
- 10.5. Noise levels should be minimal to ensure a comfortable working environment.
- 10.6. Spare rubber plates and parts should be easily available for maintenance and replacement.
- 10.7. Power Supply: 200-240V, 50/60 Hz
- 10.8. Warranty: 1 year or more *& CAMC 2 years*

11. **DENTAL WAX KNIFE HEATER**

- 11.1. It should ensure rapid heating to achieve high heat quickly and efficiently.
- 11.2. The device should incorporate an advanced electronic sensor for energy-efficient operation and reduced power consumption.

- 11.3. It should have an ergonomic design for easy handling and operation, minimizing user fatigue during extended use.
- 11.4. A replaceable cap should be included to ensure a clean and tidy workspace.
- 11.5. Built-in circuit protection should display an error and safeguard circuits if a carver is inserted for too long, preventing overheating.
- 11.6. Electromagnetic induction heating should be used to heat only inductive metal, enhancing safety by preventing accidental burns from non-metal substances.
- 11.7. The device should support a voltage of 220V/110V and a power supply of 130W.
- 11.8. Warranty: 1 year or more *& CAMC 2 years*

12. DENTAL PLASTER TRAP

- 12.1. It should be designed to effectively separate and collect plaster waste from sink drains to prevent pipe clogging.
- 12.2. It should be made of durable, corrosion-resistant material, such as high-quality fiberglass or heavy-duty plastic, for long-term use.
- 12.3. The capacity should be sufficient to handle high volumes of plaster waste
- 12.4. The trap should feature a compact and ergonomic design for easy installation under sinks or in tight spaces.
- 12.5. Wheels should be included for enhanced mobility and ease of relocation.
- 12.6. Cleaning and emptying should be simple, with a removable access lid or cube for hassle-free maintenance.
- 12.7. All necessary pipes and fittings should be included for a straightforward setup.
- 12.8. A transparent or easy-to-monitor section should be provided to check the waste levels at a glance.

Warranty : 1 year & CAMC 2 years

13. PLASTER SAW WITH BLADES

- 13.1. The plaster saw should be designed for precise and efficient cutting of dental and orthodontic models.
- 13.2. It should feature high-quality, durable blades suitable for cutting various materials like plaster and acrylic.
- 13.3. It should be lightweight and ergonomically designed for comfortable handling during extended use.
- 13.4. Should be supplied with minimum of 100 blades.

14. PLASTER CUTTER

- 14.1. It should be designed for precise and efficient cutting of dental and orthodontic plaster models.
- 14.2. It should be suitable for cutting various thicknesses of plaster with minimal effort.
- 14.3. It should include a robust, corrosion-resistant frame for durability and long-term use.
- 14.4. It should feature a sharp tip made from high-quality stainless steel
- 14.5. The design should include an ergonomic handle for a comfortable grip and minimal user fatigue during extended use.
- 14.6. The cutter should be lightweight and compact for easy portability and storage.

15. THREE-PIN ARTICULATOR

- 15.1. The three-pin articulator should be designed for accurate and stable mounting of dental models, ensuring precise occlusal analysis and simulation.
- 15.2. It should feature three alignment pins for consistent positioning and secure attachment of upper and lower models.
- 15.3. The articulator should be constructed from durable, corrosion-resistant materials.
- 15.4. Adjustable settings should allow replication of various occlusal relationships and jaw movements, including lateral, protrusive, and retrusive motions.
- 15.5. The design should be lightweight and compact for ease of handling and storage.
- 15.6. Easy cleaning and maintenance should be ensured, with replaceable pins and components readily available.

16. DOG BITE ARTICULATOR

- 16.1. It should be specifically designed to replicate the occlusion and jaw movements
- 16.2. It should be constructed from durable, corrosion-resistant materials
- 16.3. Lightweight and ergonomic construction should allow for easy handling and minimal operator fatigue.
- 16.4. The articulator should be simple to disassemble and clean

17. PLASTERLESS ARTICULATOR

- 17.1. The plasterless articulator should eliminate the need for plaster, enabling clean, efficient, and mess-free mounting of dental models.
- 17.2. It should feature a secure mechanical or magnetic mechanism for precise and stable model attachment.
- 17.3. The construction should be of durable, corrosion-resistant materials like aluminium or stainless steel for long-term use.
- 17.4. The articulator should accommodate various model sizes and shapes for versatility in dental applications.
- 17.5. It should feature a lightweight, compact design for portability and easy storage.

18. DENTAL FLASKS

- 18.1. The dental flask should be made of high-quality brass, ensuring durability, resistance to corrosion, and effective heat conductivity for consistent curing.
- 18.2. The flask should be sectional, typically consisting of a base, a middle section, and a top to allow for easy placement and removal of molds.
- 18.3. It should have sufficient capacity to accommodate plaster of Paris or artificial stone molds, commonly used in denture or resinous restoration processing.
- 18.4. The internal surface of the flask should be smooth and non-porous to prevent adhesion of plaster or resin materials.
- 18.5. The flask should be designed to resist deformation under high temperatures and pressures typical of denture curing processes.

19. CLAMP

- 19.1. The clamp should be made of high-strength, durable metal
- 19.2. It should provide a secure and even compression of the dental flask during the curing process, preventing leakage or displacement of materials.
- 19.3. The clamp mechanism should be easy to operate, with adjustable screws or locking levers for precise control of compression force.
- 19.4. The clamp should be compatible with standard-sized dental flasks, fitting snugly without requiring modifications.
- 19.5. The clamp material should be heat-resistant to withstand high curing temperatures without deforming or weakening.
- 19.6. The device should be lightweight yet sturdy, ensuring ease of handling and stability during use.

20. DENTAL WORKSTATION

- 20.1. The double dental workstation should be designed to accommodate two persons, with separate workspaces for each.
- 20.2. The frame should be constructed from sturdy metal to ensure durability and long-term stability.
- 20.3. Each workstation should include individual magnifiers for enhanced precision.
- 20.4. Table mounts should securely anchor the workstation in place.
- 20.5. Separate micromotor holders should be provided for each user for convenient tool placement.
- 20.6. Each workspace should be equipped with LED lighting for bright, shadow-free illumination.
- 20.7. Individual instrument holders should ensure organized access to tools for both users.
- 20.8. Built-in power sockets should be available at both workspaces for electrical devices and tools.
- 20.9. Finger joint mechanisms should enable smooth operation and enhanced durability of movable parts.
- 20.10. The work surfaces should feature high-quality wooden boards for comfort and functionality.
- 20.11. Two air guns should be included, one for each user, to remove dust and debris efficiently.
- 20.12. Stainless steel working sheets should provide a durable, easy-to-clean surface for each workspace.
- 20.13. Multi-drawer compartments should be available for both users to organize instruments and materials.
- 20.14. Adjustable LED arm spotlights should provide focused lighting for each user's workspace.
- 20.15. Comfortable ergonomic chairs with adjustable height, lumbar support, and soft cushioning should be provided to ensure proper posture and reduce fatigue for both users.

Warranty 1 year & CAMC 4 years