

National Institute of Ayurveda, Jaipur

(Deemed to be University)

Ministry of AYUSH, Govt. of India

Jorawar Singh Gate, Old Amer Road, Jaipur (Rajasthan)- 302002

Invitation for Quotation

Sealed quotations are invited from the reputed, eligible interested Companies/Firms for Dental Unit of the Institute as per below mentioned Item -

S. No.	Name of Item	Specifications	Quantity
1	Dental portable x-ray	As per Annexure A	01 no.
2	GIC Type 1 GIC Luting & lining Cement		05 nos.
3	Temporary Restoration filling material		05 nos.
4	Impresion Material heavy body		01 no.
5	Light Body Impression Material		02 no.

General Terms & Conditions:

1. Last date of send the quotation is **11-08-2026 till 03.00 PM.**
2. The Supplier will have to complete the supply at National Institute of Ayurveda, Jaipur.
3. Delivery of goods must be completed within 30 days from date of Purchase Order. After that, liquidated damages (LD) will be charged at the rate of 0.5% per week.
4. The Quotation Price shall be in Rupees including all Taxes and no extra prices such as transportation expenses, are payable by the Institute.
5. After due evaluation of the quotation(s) Institute will award the Supply order to the lowest evaluated responsive firm.
6. Payment shall be made after completion of the Supply and submission of bills which will be subject to satisfactory report (certified by the Head of Department or Committee constituted for the purpose).
7. The Vice Chancellor, NIA Jaipur shall be the final authority to reject full or any part of the order which is not confirming to the requirements and other terms and conditions.
8. No payment shall be made for the unsatisfactory work.
9. GST certificate should be enclosed with quotation.
10. The quotations in sealed envelope, superscribing clearly on the envelope "**Quotation of Dental Items**" in the institute should reach NIA, Jaipur on or before **11-08-2026 till 03.00 PM** at the below mentioned address:

The Vice Chancellor, National Institute of Ayurveda (Deemed to be University), Madhav Vilas Palace, Jorawar Singh Gate, Amer Road, Jaipur - 302002

1. Portable x ray specification

- **Weight:** 1.5 kg to 1.8 kg (depending on the model and shield configuration)
- **Focal Spot:** 0.4 mm (IEC 60336)
- **Tube Voltage:** 60 kV or 65 kV (fixed)
- **Tube Current:** 2.5 mA (fixed)
- **Exposure Time Range:** 0.05 to 0.5 seconds (Base) / up to 1.0 seconds (Plus model)
- **Source to Skin Distance (SSD):** 200 mm
- **Total Filtration:** Minimum 1.5 mm Al equivalent
- **Duty Cycle:** 1:60
- **Power Supply:** 22.2 V (Replaceable Battery), Line voltage 100–240 V.

2. GIC LUTING AND LINING CEMENT SPECIFICATION

Core Material Specifications

- **Powder:** A calcium/strontium aluminosilicate glass.
- **Liquid:** An aqueous solution of polyacrylic acid, tartaric acid, and water.
- **Bonding Mechanism:** Intrinsic chemical bonding (ionic bond) to hydroxyapatite and collagen without requiring an additional bonding agent.
- **Radiopacity:** Radiopaque.
- **Film Thickness:** $\leq 25 \mu\text{m}$ (typically $15 \mu\text{m}$).

Mixing and Working Parameters (at Room Temperature)

- **Standard Powder/Liquid (P/L) Ratio:** 1.8g / 1.0g (or roughly 1 level scoop to 1 drop).
- **Mixing Time:** 20 - 30 seconds.
- **Working Time:** Approximately 2 minutes from the start of mixing.
- **Setting Time:** 4.5 - 7 minutes inside the mouth from start of mixing.

Physical Properties (Set Cement)

- **Compressive Strength:** $\geq 70 - 100 \text{ MPa}$.
- **Tensile Strength:** Approx. 5 - 7 MPa.
- **Solubility in Water:** $< 0.5\%$.
- **Fluoride Release:** Continuous, sustained release over 12 - 24 months.

3. TEMPORARY RESTORATION MATERIAL SPECIFICATION

FEATURES :

- **Self-Curing:** Sets without the need for light activation, curing under humidity.
- **Moisture Tolerance:** Ensures quick and void-free curing in a moist environment, ideal for dental applications.
- **Easy Removal:** Can be removed in one piece without leaving residue, facilitating simple replacement with permanent restorations.
- **Durability:** Provides reliable temporary restoration, protecting the tooth from sensitivity and further decay.
- **Clinical Convenience:** Designed for ease of use, offering efficient handling during dental procedures.
- **Proven Performance:** Trusted by dental professionals for its consistent results and effective cavity sealing.
- **Patient Comfort:** Helps maintain comfort during the interim period before permanent restoration.



4. Heavy body impression material specification

1. **Composition:** Addition-cured silicone (vinyl polysiloxane, VPS) with reactive unsaturated carbosilane (UCS) crosslinkers and platinum-catalyzed hydrosilylation reaction, plus polyalkylene oxide wetting enabler for super-hydrophilicity.
2. **Setting Mechanism:** Dual reaction – normal VPS setting plus active self-warming for rapid intra-oral curing while maintaining working time.
3. **Consistency:** Heavy body, Super Quick Heavy, Regular Heavy, compatible with automatic mixing systems (Pentamix 2/3).
4. **Working Time:** Up to 1:15 minutes for Super Quick materials at room temperature.
5. **Intra-Oral Setting Time:** Approximately 35 seconds for Super Quick; longer for Regular materials.
6. **Features:** Highly hydrophilic in unset state, captures ultra-fine detail in moist oral environment, resistant to tearing during removal, and compatible with 1- or 2-step impression techniques.
7. **Applications:** Crown and bridge impressions, inlays, orthodontic impressions, and situations requiring high precision and fast workflow.
8. **Physical Properties:** Shortest intra-oral setting time among leading VPS materials, active warming increases comfort and work speed, excellent elastic recovery and dimensional stability.

5. Light body impression material specification

- **Material Type:** Addition-cured silicone (VPS)
- **Setting Mechanism:** Platinum-catalyzed hydrosilylation with active self-warming for faster intra-oral setting
- **Hydrophilicity:** Super-hydrophilic in unset state for accurate wet environment capture
- **Working Time:** Up to 1:15 minutes at room temperature
- **Intra-Oral Setting:** Approximately 35 seconds (Super Quick)

