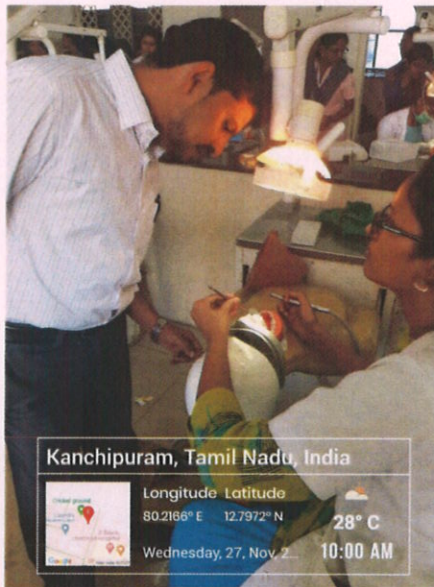
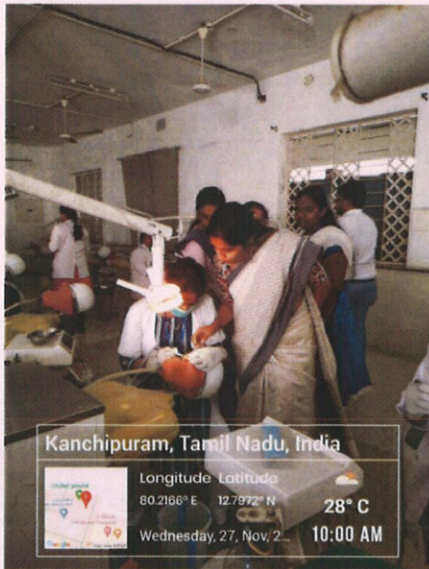




### 4.2.1 CLINICAL TEACHING AND LEARNING:

#### Phantom head used for simulation



#### Pre-clinical lab for students' training



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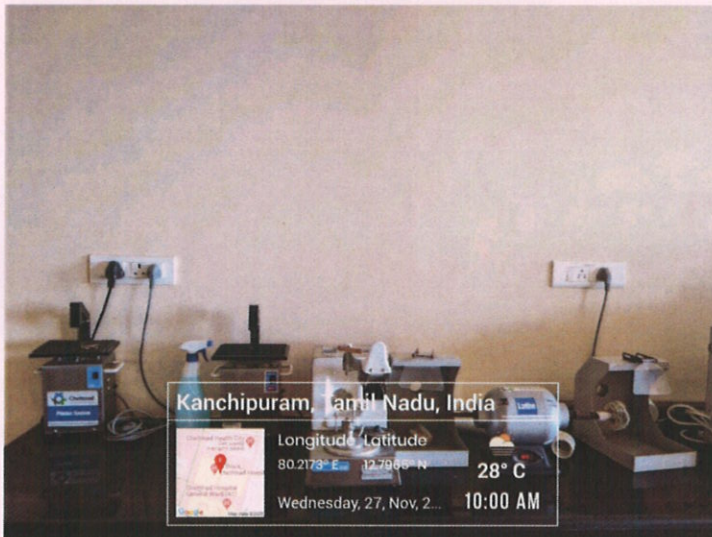


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**Laboratories equipped with advanced machinery - vacuum mixer**

- Laboratories equipped with advanced machinery - porcelain furnace



- Laboratories equipped with advanced machinery -

1. Pindex system
2. High speed lathe



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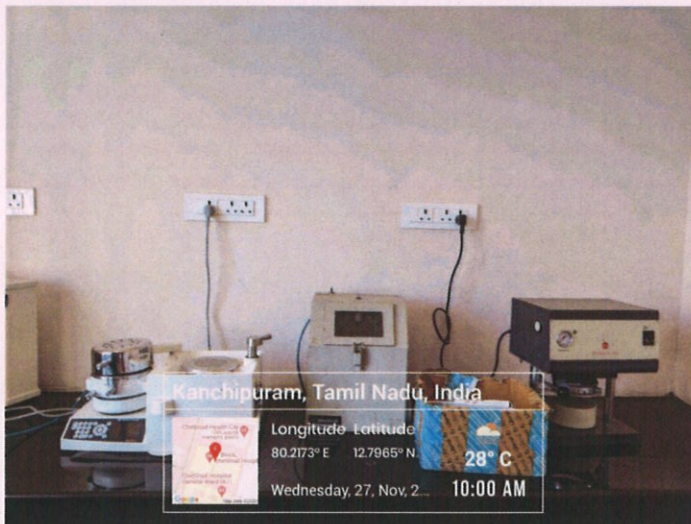
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- Laboratories equipped with advanced machinery - sand blaster



- Laboratories equipped with advanced machinery - thermofoming machine



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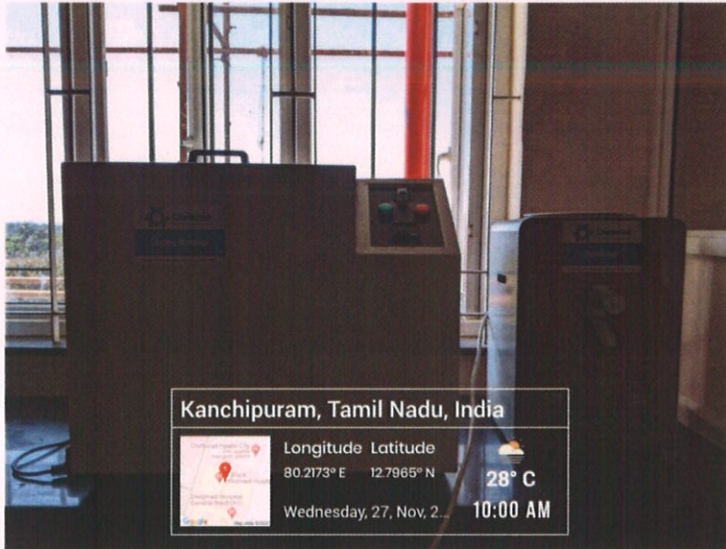
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Laboratories equipped with advanced machinery - casting machinery



Laboratories equipped with advanced machinery - burnout furnace



  
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Kanchipuram, Tamil Nadu, India



Longitude Latitude  
80.2173° E 12.7965° N

28° C

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Kanchipuram, Tamil Nadu, India



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28° C

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Study Models for Health Education

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### Orthodontics and Dentofacial Orthopedics



A set of orthodontic pliers and cutting instruments used for treating patients with conventional orthodontic treatment.



This is a high intensity light curing unit. They are used to harden the adhesive in attaching the orthodontic bracket to the tooth. This high intensity light has reduced curing times, offering advantages for the orthodontist and for the patient.

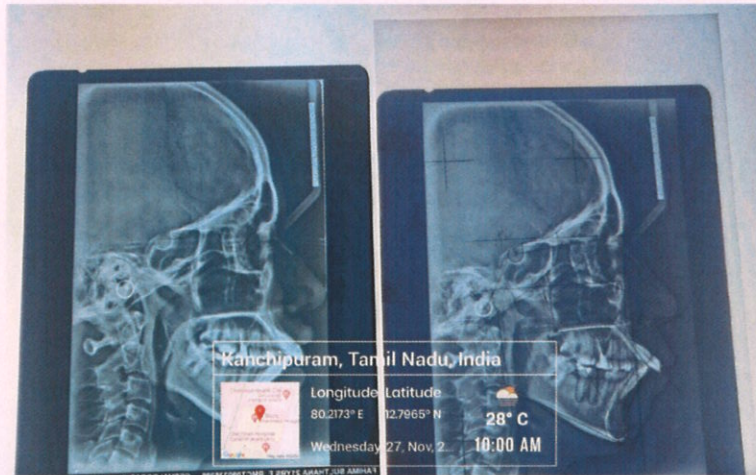
*Dr.*

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Tracing table for viewing the xrays as well as analysing them manually on a tracing sheet.

The **lateral cephalogram** is a profile x-ray of the skull and soft tissues and is used to assess the relation of the teeth in the jaws, the relation of the jaws to the skull and the relation of the soft tissues to the teeth and jaws.

The faccad is a software to analyse the cephalogram digitally. Helps in processing many analyses in a short time. Also helps in surgical treatment prediction.

Also helpful in research applications, where hundreds of samples can be processed in quick time.

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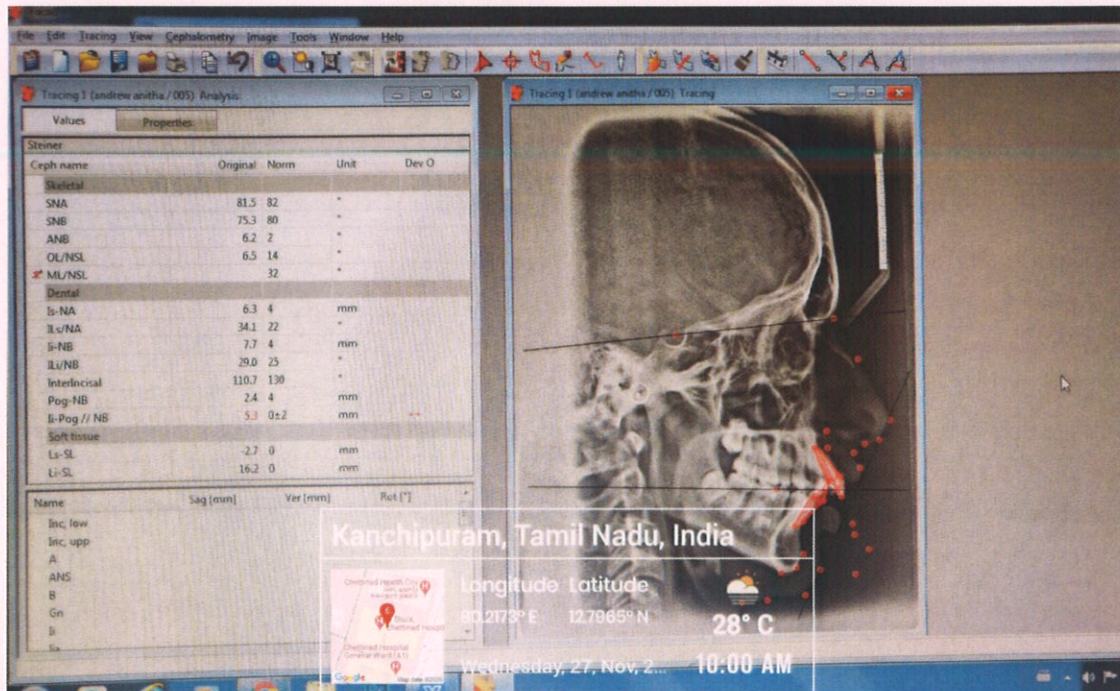
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This is used to orient the patients lower and upper jaw models.  
Accurate, functional simulation of patient mandibular movement  
Semi-adjustable, tracking feature, open-format  
Easy viewing during positioning and observation of tooth-to-tooth contacts  
Also helps in mock orthognathic surgery

Typhodont has an adjustable part (i.e. a tooth, teeth, palate) that is capable of simulating an orthodontic occlusal problem of the type correctable by a fixed appliance component. By adjusting the appliance component to initiate correction of the occlusal problem; and

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Laboratory :

Biostar



Soldering torch



Precision fabricate these appliances using positive pressure thermal-forming: • Hawley Retainers • Bleaching & Fluoride Trays • Retainers with Bite Plane • TMJ Splints • Expansion Appliances • Temporaries for Crown & Bridge • Bonded RPEs • Indirect Bonding Trays • Invisible Retainers • Model Duplication • Custom Impression Trays • Mouthguards • Positioners • Nightguard

Soldering torch:

**Soldering** enables you to join two metal segments into one piece, using a **torch** and a softer metal as the adhesive. Used in fabricating various orthodontic appliances and connecting component parts.

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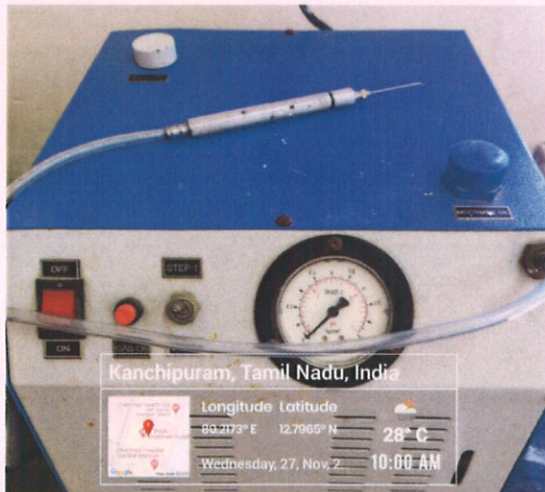
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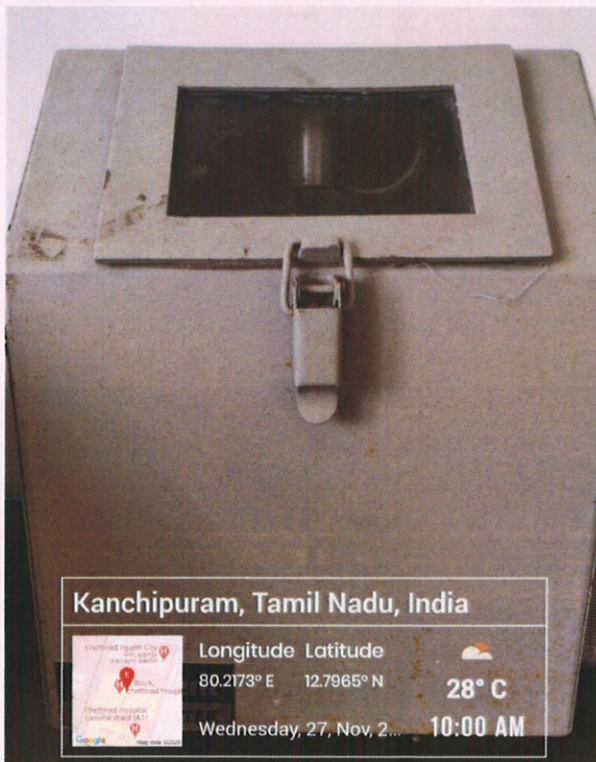
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## HYDRO SOLDERING MACHINE



Conventional gas torches use butane or cooking gas which causes carbon deposition in soldering joint deteriorating the quality of the joint. In hydro soldering units hydrogen and oxygen gas are generated through electrolysis of water on burning. It produces perfectly neutral and non oxygenizing flame for soldering and exasperates no residues.

specially designed to enable the user to perform an easy operation with a high degree of accuracy and simplicity.



## SANDBLASTER

**Sandblasting** in **orthodontics** has been implemented to improve the bond strength of new brackets/bands or to remove adhesive remnants from debonded brackets prior to rebonding. This helps in recycling brackets that have been accidentally debonded. Also used in improving bond strength in lingual orthodontics.

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