iCAT is a division of NATIS (NATRiP Implementation Society), an Apex body for implementation of National Automotive Testing and R&D Infrastructure Project (NATRiP), Govt. of India.

- Test Agency Under Rule 126 of CMVR vide MoSRTH, G.S.R. 276 (E) dated 10th April, 2007
- Accredited Agency for “Emission Standard for new generator sets (upto 19 kW) run on petrol & kerosene and emission limits for new diesel engines (upto 800 kW) for generator set (Genset) applications” vide MoEF, G.S.R. 280(E) dated 11th April 2008.
- Facilities Approved by VCA, U.K for purpose of Export Certification (Such testing also done with TUV, Germany)

Core services: • Homologation and Certification • Research & Development • Development Testing

**Electro Dynamic Shaker**

- **Medium ED Shaker with Medium Climatic chamber**
  - **Med. ED Shaker**
    - Rated Force: 3200 Kgf
    - Max. Acceleration: 90 ‘g’ sine, bare armature
    - Slip Table size: 0.8 m x 0.8 m
    - Head Expander size: 0.8 m x 0.8 m
  - **Med. Climatic Chamber**
    - Volume: 1.5 m(W) x 1.5 m(L) x 1.5 m(H).
    - Temp range: -60°C to +180°C range
    - RH: 10% to 95% R.H. range

- **Large ED shaker with Large NVH Climatic chamber**
  - **Large ED Shaker**
    - Rated Force: 3200 Kgf
    - Max. Acceleration: 90 ‘g’ sine, bare armature
    - Slip Table size: 1.2 m x 1.2 m
    - Head Expander size: 1.2 m x 1.2 m
  - **Large Climatic Chamber**
    - Volume: 2.5 m(W) x 2.5 m(L) x 2 m (H)
    - Temp range: -30°C to +80°C range
    - RH: 10% to 95% R.H. range
## RAPID PROTOTYPING

### SALIENT FEATURES

<table>
<thead>
<tr>
<th>Model/Make</th>
<th>Selective Laser Sintering FOR PLASTIC PRODUCTS</th>
<th>SLM 250 FOR METAL PRODUCTS</th>
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</thead>
<tbody>
<tr>
<td>Process</td>
<td>Plastic Laser Sintering</td>
<td>Metal Laser Sintering</td>
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<tr>
<td>Build volume</td>
<td>340x330x450 mm</td>
<td>250x250x250 mm</td>
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<tr>
<td>Accuracy of laser</td>
<td>± 0.005mm</td>
<td>+ 0.005mm</td>
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<tr>
<td>Material</td>
<td>Plastic</td>
<td>Metal</td>
</tr>
<tr>
<td>Building Speed</td>
<td>35mm/hr</td>
<td>20mm/hr</td>
</tr>
</tbody>
</table>
MACD 1: 4x4 Chassis Dynamometer

- AVL 200 Kw Permanent Power Consumption of Front & Rear Roller
- 48” + 0.01” Roller Diameter (Front & Rear)
- Vehicle Inertia Range -- 454 kg - 5448 kg
- Vehicle Wheel Base Range -- 2000-4000 mm
- Max. Speed of each Roller -- 250 kmph
- Robot Driver -- Stahle SAP 2000 -- compatible & easy to be installed & follow cycles on various vehicle orientations & customized vehicle gear shift patterns

MACD 2: 2/3 / 4 Wheeler Chassis Dynamometer

- Burke E Porter 160 Kw Permanent Power Consumption of Front Roller
- Vehicle Inertia Range -- 100 kg - 4000 kg
- Roller Diameter -- 48” inches
- Max. Speed of each Roller -- 200 kmph
- Robot Driver -- Under Progress

MACD 3: 2/3 Wheeler Chassis Dynamometer

- AVL 55 Kw Permanent Power Consumption of Front Roller
- Vehicle Inertia Range -- 80 kg - 1000 kg
- Vehicle Wheel Base Range -- 648 mm
- Max. Speed of each Roller -- 200 kmph
- Robot Driver -- Stahle SAP 2000 -- compatible & easy to be installed & follow cycles on various vehicle orientations & customized vehicle gear shift patterns