

## Testing Facilities available at IIT Kanpur

S. No	Facility	Overview
1	Flight Laboratory	A unique national facility with 3 single engine aircraft running flight-testing courses for students from IIT Bombay, Kharagpur, Madras, PEC Chandigarh and MIT Madras . Active research in parameter estimation from flight data, with instrumentation continuously upgraded.
2	Dedicated Airstrip	Institute-owned runway for experimental flight, endurance and aviation-research programmes.
3	National Wind Tunnel	Among India's most advanced — 80 m/s, sub-0.08% turbulence, 3D stereoscopic PIV.
4	Gust Wall Facility	India's first — drone testing in winds up to 15–20 m/s, coupled to motion capture.
5	EMI/EMC Test Chamber	NABL-accredited 3 m semi-anechoic chamber, full IEC & CISPR compliance testing.
6	UAS Testing Foundation	<p>A Section-8 HAL Led company establishing a one-stop UAS / UAV / drone testing facility at the Technopark building on the IIT-Kanpur campus.</p> <ul style="list-style-type: none"> <li>• Altitude, humidity &amp; temperature chambers</li> <li>• Rain &amp; thermal shock testing</li> <li>• EMI/EMC (40GHz anechoic chamber)</li> <li>• High-voltage &amp; power-supply variation</li> <li>• Datalink &amp; navigation testing (GCS, sensors)</li> <li>• Aerial flight test with mobile ground stations &amp; antenna towers</li> <li>• Tensile load, wind tunnel &amp; corrosion testing</li> <li>• 3D geometry scanning &amp; dimensional measurement</li> <li>• Signal analysis (spectrum analyser, oscilloscope)</li> <li>• Battery cell testing &amp; certification</li> <li>• Motor &amp; propeller testing (up to 20 kg thrust)</li> <li>• Wind-wall gust generation (up to 20 m/s)</li> <li>• Motion capture for indoor flight testing</li> <li>• Noise measurement (anechoic tunnel + mic array)</li> </ul>