

**Tender Notification No.: NITT/F.NO:RES003/PLAN2013-14/PRO dt: 15.11.2013**

With reference to the above tender notification and the pre-bid conference held on 21.11.2013 at 3.00 PM in the committee room of CECASE, the following amendments are made. All other terms and conditions mentioned in the tender document remains same.

**Specification for Lubricated wear tester**

Original tender specification	Amended specification
<p><b>(i) Equipment specification</b></p> <p>Set-up : Pin/Ball-on-Disc (as shown in <b>Figure 1</b>)</p> <p>Pin diameter and Length (mm) (minimum): 4-8 and 20-25 (Suitable provisions should be provided to heat the pin upto 400°C or more)</p> <p>Ball diameter (mm) (minimum) : 8</p> <p>Disc diameter and thickness (mm) : 80 (minimum) and 6-8</p> <p>Wear track diameter (mm) (minimum) : 60-80</p> <p>Rotational speed of disc (RPM) (minimum range): 100-800 (variable)</p> <p>Test load (N) (minimum range) : 10-80 (in steps of 5 N)</p> <p>Depth of wear (µm) (minimum range) : 0-2000 (@ 1µm resolution)</p> <p>Lubrication circulation system : Should consist of lubrication pump with discharge rate 0-80 ml/min (minimum), adjustable nozzle, splash guard and collection tank of 2-3 Litres capacity.</p> <p>Environment chamber: A closed chamber around the pin-disc pair to study the atmospheric effect of inert gas, product of combustion, humidity and fog lubrication. It should be provided with suitable view-port which could also sustain pH about 7. Suitable arrangements should be provided to heat the chamber upto 500°C or more.</p>	<p><b>No amendment</b></p>
<p><b>Mandatory Requirements:</b></p> <ul style="list-style-type: none"> <li>• Standard data acquisition software to collect data such as frictional force, depth of wear and temperature. The software should include post processing of data such as viewing, comparing and exporting.</li> <li>• Suitable probes/sensors for on-line measurement of frictional force and depth of wear.</li> </ul>	<p><b>No amendment</b></p>
<p><b>(ii) System Requirements</b></p> <p>Processor :3rd Generation Intel® Core™ i5-3340s processor (6M Cache, 3.3 GHz)</p>	<p><b>No amendment</b></p>

<p>Operating System: Windows 7 Single Language, English  Memory : 4GB DDR3 SDRAM, 1600MHz-1X4GB  Hard Drive : 3.5" 1TB 7200RPM SATA Hard Drive, 1X1TB  Video Card : NVIDIA® GeForce® GT 620 1GB DDR3  Optical Drive: 12.7" SATA tray load DVD+/-RW  Monitor: 23" FH1920 x 1080 (Full HD) Non Touch., with wireless keyboard and mouse.  Webcam : Integrated 1.0 mega pixel  Speaker: HD Audio with Waves MaxxAudio® 3  UPS : 1 KVA</p>	
<p>Note: The following additional documents are mandatory for technical qualification. Otherwise the bid will be technically rejected.  a) References (with full postal address and name of the contact person with phone, FAX numbers, and E-Mail id) from at least two end-users to whom the quoted model was supplied during the last three years ending 31.03.2013.</p>	<p>Note: The following additional documents are mandatory for technical qualification. Otherwise the bid will be technically rejected.  a) References (with full postal address and name of the contact person with phone, FAX numbers, and E-Mail id) from at least two end-users to whom the quoted model / similar model was supplied during the last three years ending 31.03.2013.</p>

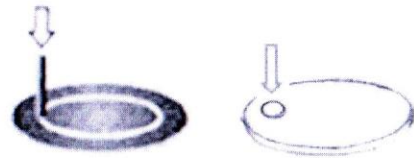


Figure 1. Pin-on disc and ball-on disc set-up.

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21/11/13

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