

**Minutes of the Pre-Bid conference**

**Tender Notification No.: NITT/F. No: RES 008/PLAN 2013 – 14/CEC dt: 28.11.2013**

The pre-bid conference was held on 11.12.2013 at 3.30 p.m. in the committee room of CECASE and the following amendments are made. All other terms and conditions mentioned in the tender document remains same.

**Specification for SCC Test Facility [Slow Strain Rate Tester (SSRT) / Constant Extension Rate Tester (CERT)]**

Original tender specification	Amended specification
<p><b>Load Frame</b></p> <p>Vessel: Should accommodate 4 ltrs @ 400-700°C</p> <p>column construction: 4 Nos</p> <p>Load capacity/Load cell Range: 40-60KN /10,000 lbs</p> <p>Motor: Stepper/Gear</p> <p>Dual LVDT</p> <p>Load Train Components with Quick Release pins</p> <p>Tool kit should be provided for operation and maintenance of system</p> <p>Extension Rate Range: <math>1 \times 10^{-8}</math> mm/s to <math>1 \times 3^{-3}</math> mm/s</p> <p>Displacement Range: 0-42mm</p> <p>Accuracy of Extension Rate: Less than 0.5% of setting rate</p>	<p>Vessel: Should accommodate maximum 3 ltrs @ 250°C</p> <p>Displacement Range: 0 - 40mm</p>
<p><b>Load Frame Controller</b></p> <p>Should control 1 load frame and control up to 4 load frames when control upgrades are added</p> <p>PC (latest) controlled with Windows operating system</p> <p>Stepper Motor Drive with PC installed control board</p>	

<p>should be provided</p> <p>Lab VIEW software with menu control for conducting SSRT should be provided</p> <p>Field point, I/O modules</p>	
<p><b>GRIPS-</b> Should accommodate round tensile specimen, Flat Tensile, ½ CT specimen grips, designed in accordance with ASTM E8, ASTM E339, ASTM E647 &amp; ASTM G129</p>	
<p><b>Acrylic Vessel</b></p> <p>Vessel Capacity: 330 ml</p> <p>Testing conditions: ambient temperature and atmospheric pressure</p> <p>Should be compatible for offered RT Specimen Grips</p> <p>2 nos. ¼” NPT ports in lid for gas I/O</p> <p>O-Ring sealed vessel top and bottom</p>	
<p><b>Optional Accessories</b></p> <p><b>316 SS C.F. Vessel:</b> Should accommodate 2.2-liter capacity; 220°C up to 2000 psi</p>	<p><b>Optional Accessories</b></p> <p><b>316 SS C.F. Vessel:</b> Should accommodate 2 – 3 liter capacity; 220°C up to 2000 psi</p>
<p><b>Testing conditions:</b> High Pressure High Temperature</p> <p>Pressure transducer required with LED display</p> <p>Heater band with insulation jacket</p> <p>Load frame control software upgrade for vessel heating and pressure monitoring required</p> <p>Should accommodate 1/2-CT, 7/16" RT, Flat Tensile Specimen</p> <p>Tool kit required for operation and maintenance</p>	
<p><b>Direct Current Potential drop (DCPD)</b></p> <ul style="list-style-type: none"> <li>• Switchable DC current with precision measurement for determining crack growth</li> <li>• Operator command console,</li> </ul>	

- DCPD measurement for ½” CT specimen
- Precision Keithley Multimeter,
- Direct Current (DC) Power source,
- Solid State DC Switching,
- Isolated Vessel Feed-through Fittings for DCPD Measurement.
- Proprietary software (LabView Based) for conducting DCPD Crack Measurement
- Computer facility (PC) with latest configuration (Intel Dual core processor, 4 GB RAM, 500 GB Hard disk, Key board, Optical mouse, 21” LCD monitor, DVD Writer, Four USB ports) along with HP Laser Printer and Operating system – Windows 7

Computer facility (PC) with latest configuration (Intel Dual core processor, 4 GB RAM, 500 GB Hard disk, Key board, Optical mouse, 21” LCD monitor, DVD Writer, Four USB ports) along with HP Laser Printer and Operating system – Windows 7 or latest branded desk top computer



**Prof. S. NATARAJAN**  
HoD/Convener  
Chairman - CECASE