

**DEPARTMENT OF PRODUCTION ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY: TIRUCHIRAPPALLI - 620 015**

**30.12.2013**

**Minutes of the pre-bid conference**

**Tender Notification No.: NITT/F.NO:SIF011/PLAN2013-14 dt: 20.12.2013**

The pre-bid conference was held on 30.12.2013 at 11.00 AM in the committee room of Physics department to discuss the specification published in the tender. The following suppliers were present in the meeting,

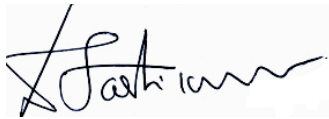
1. **TTL Technology** Pvt.Ltd, (A Fluke Company), #3071, 10<sup>th</sup> Cross, 11<sup>th</sup> Main, HAL II Stage, Bangalore – 560 008.

Based on the discussion, the committee recommends no amendments to the specification.

**Specification for Thermography Camera**

<b>Original tender specification</b>		<b>Amended specification</b>
Detector	320x256, 30µm pitch, InSb	<b>No amendment</b>
Spectral response	2.5 -5.1 µm	
Thermal sensitivity	< 20 mK	
integration time control	1µs to 10ms step 0.2µs	
Camera calibration	Upto 1500 oC	
Calibration	Should include all standard calibrations emissivity, temperature etc.	
Focus	Autofocus	
frame rate (adjustable)	5Hz to 380Hz for 320x256 px(it<2.6ms) 5 Hz to 3800 Hz for 80x64 px	
format	320x256 pixels (it <2.6ms)	
FOV	20° x 16°	
Ifov	1.1 mrad or better	
Software	Acquisition and analysis & other necessary softwares, should be compatible with labview/matlab	
Output	GigE, S-video with cables for all the options USB/ WiFi if available	
Camera accessories		

<p>Accessories Flashlamp with generator Power: 6000 Ws Duration: few ms Trigger: software and manual Necessary software to be used with the thermograph camera</p>	
<p>Optional: Softwares for eddy current thermography Laptop with the latest configuration and OS loaded with the following software compatible with the thermography camera</p> <p>i) Software which supports lockin, pulse, transient thermography and advanced techniques of the same ii) Should support optical lamp excitation sources, eddy current and related sources iii) Interface electronics for lockin, pulse and transient thermography iv) Should have interfacing capability with Matlab/LabView</p>	<p><b>No amendment</b></p>
<p>4 Reputation Should have supplied similar InSb (2.5 -5.1 <math>\mu\text{m}</math>) infrared camera along with energy sources and interfaced systems to Educational Institutes / R&amp;D organizations in India. Provide name, full address and contact details of the place of installation in In</p>	
<p><b>Note:</b> Any other accessories apart from the mandatory accessories and systems mentioned above may be quoted separately. Pre-installation/post-installation training expenses (including travel, boarding and lodging) should be borne by the supplier</p>	<p><b>No amendment</b></p>



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