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|-------------------------------|--|--------------------|-------------------|
| <b>Laboratory</b>             | <b>Meter Testing Laboratory, RRVPNL, 132 kV Chambal GSS Premises, Hawa Sarak, Civil Lines, Jaipur, Rajasthan</b> |                    |                   |
| <b>Accreditation Standard</b> | <b>ISO/IEC 17025: 2005</b>   |                    |                   |
| <b>Discipline</b>             | <b>Electrical Testing</b>  | <b>Issue Date</b>  | <b>14.12.2013</b> |
| <b>Certificate Number</b>     | <b>T-2094</b>  | <b>Valid Until</b> | <b>13.12.2015</b> |
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| <b>S.No.</b> | <b>Product / Material of Test</b> | <b>Specific Test Performed</b> | <b>Test Method Specification against which tests are performed</b> | <b>Range of Testing / Limits of Detection</b> |
|--------------|-----------------------------------|--------------------------------|--|---|
|--------------|-----------------------------------|--------------------------------|--|---|

#### **ELECTRICAL INDICATING & RECORDING INSTRUMENTS**

|           |   |                                 |   |  |
|-----------|---|---------------------------------|---|--|
| <b>1.</b> | <b>AC Static Transformer Operated wh- VARh Meters</b> | Test of Accuracy Requirements   |   |  |
|           |   | 1. Test on limits on error      | IS 14697 :1999<br>(Reaffirmed 2004)<br>Edition 1.3 (2004-12)<br>IS 13779 :1999<br>(Reaffirmed 2002) with<br>amendment 1 to 4<br>(June, 2006)<br>CBIP Manual - 304 | Current Range :<br>1mA to 12 A<br><br>Voltage Range :<br>40V to 320V |
|           |   | 2. Test on No Load condition    |   | Current Range :<br>1mA to 12 A<br><br>Voltage Range :<br>40V to 320V |
|           |   | 3. Test of starting condition   |   | Current Range :<br>1mA to 12 A<br><br>Voltage Range :<br>40V to 320V |
|           |   | 4. Test of Meter constant       |   | Current Range :<br>1mA to 12 A<br><br>Voltage Range :<br>40V to 320V |
|           |   | 5. Test of influence quantities |   |  |
|           |   | i). Voltage variation           |   | ± 30% of Ref. Voltage  |
|           |   | ii). Frequency variation        |   | ± 5% of Ref. Freq.<br>50Hz   |

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**Accreditation Standard** ISO/IEC 17025: 2005

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**Certificate Number** T-2094 **Valid Until** 13.12.2015

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| S.No.                                | Product /<br>Material of Test                             | Specific Test Performed              | Test Method<br>Specification against<br>which tests are<br>performed           | Range of Testing /<br>Limits of Detection                            |
|--------------------------------------|---|--------------------------------------|--|--|
|                                      | <b>AC Static Transformer<br/>Operated wh- VARh Meters</b> | 6. Repeatability of Error Test       | IS 14697 :1999 with<br>latest amendment<br>IS 13779 :1999<br>CBIP Manual - 304 | Current Range :<br>1mA to 12 A<br><br>Voltage Range :<br>40V to 320V |
|                                      |   | 7. Test of power Consumption         |  | Current Range :<br>1mA to 12 A<br><br>Voltage Range :<br>40V to 320V |
|                                      |   | 8. Test of Reverse Phase<br>Sequence |  | Current Range :<br>1mA to 12 A<br><br>Voltage Range :<br>40V to 320V |
| <del>-X-X-X-X-X-X-X-X-X-X-X-X-</del> |   |                                      |  |  |