



**BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL**  
**QUALITY PLAN FOR – INSULATOR TO Drg No- 14022240017**

QUALITY PLAN NO. QA/MT/BOI/130

DATE:27/10/2022

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**ABBREVIATION:**

|           |                                              |
|-----------|----------------------------------------------|
| <b>M</b>  | Measurement                                  |
| <b>T</b>  | Testing                                      |
| <b>TT</b> | Type test (Validity in 5 years from PO date) |
| <b>AT</b> | Acceptance Test                              |

| SL. NO                                                                                                                                                | COMPONENT                   | CHARACTERISTICS                                                                                                                                                                                                                                                                               | TYPE OF CHECK | QUANTAM OF CHECK                    | REFERENCE DOCUMENT                                                                                                                                      | ACCEPTANCE NORMS          | FORMAT OF RECORD | INSPECTION AGENCY | REMARKS                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-------------------|---------------------------------------------------------------------------------|
| 1.0                                                                                                                                                   |                             | <b>Acceptance Test</b><br>1. Dimensional check<br>2. Partial discharge<br>3. Deflection under load<br>4. Mechanical strength<br>5. Power frequency withstand<br>6. Comparative Tracking Index                                                                                                 | AT            | 5%                                  | Drg No-14022240017                                                                                                                                      | Drg No-14022240017        | TR               | BHEL/TPIA         | Witness by TPJA on one sample of same type per design.                          |
| 2.0                                                                                                                                                   |                             | <b>Type Test</b><br>1. Dry Lighting impulse withstand voltage<br>2. Dry power withstand voltage<br>3. Mechanical strength<br>4. Power frequency withstand<br>5. Comparative Tracking Index<br>6. Water absorption<br>7. Aeging & Humidity<br>8. Flammability<br>9. Temperature Tracking Index | M             | One sample of same type per design. | Drg No-14022240017                                                                                                                                      | Drg No-14022240017        | TC               | BHEL/TPJA         | “Validity of type test – 5 years from PO date”<br><br>Review of valid type test |
| 3.0                                                                                                                                                   | <b>PACKING AND MARKING:</b> | <b>Marking</b><br>BHEL order No. Manufacturer's / Supplier's Name Batch/Lot No., Date of Manufacturing.<br><br>The items shall be suitably packed to avoid damage during transportation/handling                                                                                              | V             | 100%                                | Drg No-14022240017/P O No.                                                                                                                              | Drg No-14022240017/PO No. | ----             | ----              |                                                                                 |
| PREPARED BY:<br><br>A. M. TELGOTE<br>QA/MT/BOI/130<br>BHEL, BHOPAL |                             |                                                                                                                                                                                                                                                                                               |               |                                     | APPROVED BY:<br><br>A. M. TELGOTE<br>QA/MT/BOI/130<br>BHEL, BHOPAL |                           |                  |                   |                                                                                 |

