



1. TYPE TEST :-

1.1 DRY LIGHTNING IMPULSE WITHSTAND VOLTAGE } AS GIVEN IN TABLE

1.2 DRY POWER FREQUENCY WITHSTAND VOLTAGE } 10 PICO COULOMBS MAXIMUM

1.3 PARTIAL DISCHARGE } AS GIVEN IN THE TABLE

1.4 TEST FOR MECHANICAL STRENGTH (CANTILEVER WITHSTAND)

1.5 MEASUREMENT OF DEFLECTION UNDER LOAD } TEST AS PER STANDARD

1.6 TEST FOR MECHANICAL BENDING STRENGTH } IS 9431

1.7 WATER ABSORPTION

1.8 AGEING AND HUMIDITY

1.9 FLAMMABILITY CLASS UL94 - VO

1.10 TEMPERATURE CYCLE TEST AS PER STANDARD IS 9431

1.11 COMPARATIVE TRACKING INDEX AS PER IS 2824/IEC 60112 SHALL NOT BE LESS THAN 600.

1.12 VENDOR TO FURNISH TYPE TEST REPORTS ALONG WITH THE OFFER. ALL TEST REPORTS MUST HAVE BATCH NO. OF MANUFACTURING LOT.

2. ACCEPTANCE TEST :-

SAMPLE LOT SHALL BE TAKEN AS PER APPENDIX-B OF IS:9431

2.1 DIMENSIONAL CHECKS AS PER TABLE

2.2 PARTIAL DISCHARGE 10 PICO COULOMBS MAXIMUM

2.3 DEFLECTION UNDER LOAD AS PER STANDARD

2.4 MECHANICAL STRENGTH AS GIVEN IN TABLE & INSULATOR SHALL BE TESTED WITH TESTING FIXTURE AS SHOWN IN FIG. A.

2.5 COMPARATIVE TRACKING INDEX AS PER IS 2824 / IEC 60112 SHALL NOT BE LESS THAN 600.

3. ROUTINE TEST:-

3.1 POWER FREQUENCY WITHSTAND AS GIVEN IN TABLE

3.2 VISUAL EXAMINATION AS PER CLAUSE 9.14 IS:9431

3.4. SUPPLIER MUST SUBMIT TEST CERTIFICATE FOR CHARACTERISTICS SPECIFIED IN NOTE 1.1 AND 1.4.

3.5. IF THE SUPPLIERS STANDARD INSULATOR COMPLIES WITH NOTES 1.1, 1.4 AND IS 9431 IT WILL ALSO BE ACCEPTABLE BUT SUPPLIER HAS TO SEND NECESSARY DRAWINGS AND SAMPLES FOR APPROVAL.

3.6. EPOXY USED SHALL COMPLY WITH B.S. 3816 AND IS 9431.

3.7. THE MATERIAL SHALL BE HOMOGENEOUS AND THE COMPLETED INSULATOR SHALL HAVE A SMOOTH SHINING/GLAZED SURFACE FINISH WITH NO SURFACE BLEMISHES IN CASE MACHINING/GRINDING IS DONE SURFACE SHALL BE APPLIED WITH ANTI-TRACKING EPOXY VARNISH.

3.8. ALL TESTS MUST BE IN ACCORDANCE WITH IS 9431 AND BS 3816.

3.9. SURFACES XX AND YY SHOULD BE PARALLEL WITHIN 0.2mm.

3.10. ALL DIMENSIONS TO BE MAINTAINED WITHIN ± 0.25 EXCEPT 'D' & 'd' SHALL HAVE TOL. OF 0.1.

3.11. COLOUR OF THE INSULATOR SHALL BE RED.

3.12. SUPPLIER NAME, LOGO, PO. NO., SERIAL NO., SUPPLY DATE & BATCH NO. IS TO BE EMBOSSED/LASED ON EACH PIECES (STICKER NOT ACCEPTABLE). BATCH NO. SHALL BE SI/YY/XX WHERE YY IS THE YEAR OF MANUFACTURING AND XXXX IS 4 DIGIT RUNNING SERIAL NUMBER.

3.13. ALL INSERTS SHALL BE OF STEEL WITH ZINC PLATED & PASSIVATED FOR ITEM 001 TO 013.

3.14. ALL INSERTS SHALL BE OF BRASS FOR ITEM 014 TO 017.

3.15. AND THREADS OF METRIC COARSE PITCH WITH THREADS OF METRIC COARSE PITCH MAY BE USED.

3.16. RESIN/HARDENER SHALL BE OF M/S ATUL LTD. OR M/S HUNTSMAN ONLY.

3.17. M/S HUNTSMAN- RESIN CY205/HARDENER HY905 ; M/S ATUL LTD.- RESIN C17/HARDENER K17

3.18. VENDOR SHALL FOLLOW & SUBMIT RECORD OF DOCUMENTS IN LINE WITH QUALITY ASSURANCE PLAN AS PER SG15214

FIG. A

A1