



Gujarat Power Research & Development Cell

(A Govt. of Gujarat Initiative)

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V Top Fixtures

Title of the Research: V Top Fixtures

Present System: Pin poles is key structure for the DISCOM. In pin poles, we install V Cross Arm and Top Fittings for support a insulators and conductors on pole. V Cross Arm and Top Fittings are fitted with pole through nut bolts and supporting clamps.



Limitations of the present system: As per our field experience, we are facing many issue for tilting of V Cross or top fitting due to that the clearance between the conductors reduce and chances of faults are increase. And also which is esthetically not look good.

Detail report of Innovation/solution: The redesigning V Cross Top Fixures has the specific applications and would be more beneficial to the existing practice, for the various reasons. In this design, after the installation of pin insulators and conductors on it the clearance of conductors are maintain through out in all possible as per the REC guidelines. All Structure is pass through hot galvenizing process.

Field study report: Sample is ready but installation is pending



How does new innovation help to overcome Limitations of the present system:

Benefits of V Cross Top Fixtures over the present system following:

- Clearance of Conductor maintain throughout;
- Chances of Short Circuit of Conductor is less;
- Aesthetic Look;
- Long life;
- Adopt proper installation method by line staff;