

SYSTEM IMPROVEMENT / INNOVATION

- ✦ Tr. D depot POY has developed a height and stagger gauge for measuring parameters of OHE during maintenance with Ladder trolley. This has reduced cumbersome movement of tower wagon to some extent during maintenance.
- ✦ JOKT TSS commissioned by GM/SR on 14.09.2022 which is availing power from KPTCL, Karnataka under Open access scheme.
- ✦ Tr. D depot Kannur south and traction substation Charvattur got ISO9001-2015 certification.
- ✦ For improving reliability of supply 2nd Feeder has been commissioned in KJKD and SRR TSS.
- ✦ Unprotected IOL before starter signal at PGT on Road-4 eliminated by shifting IOL beyond the starter signal. Now there is no unprotected IOL before stop signal in PGT division.
- ✦ All HT meters at TSSs replaced with 0.2s accuracy class ABT meters.
- ✦ Thermal imager is being used extensively to find out hot-spots at vulnerable locations.
- ✦ Consistent tree trimming has contributed in reducing the number of Circuit Breaker tripping.
- ✦ All 133 numbers of 42 kV LA's at gantry locations have been provided with dis-connector assembly.
- ✦ All the rusted anti-creep wires have been replaced by copper catenary wires.
- ✦ Anti-Monkey Climbing Devices have been provided at monkey menace area of Walayar to reduce spurious circuit breaker trippings.
- ✦ As a part of technological upgradation, Numeric type control & Relay panel has been provided at traction substations in PGT division.
- ✦ PTFE neutral sections have been introduced in KJKD/FP for effective management in the event of incoming power supply failures and for control of Maximum demand.

- ✦ Periodical Current collection inspection is being conducted using GPS based OLIVIR-G equipment to find out sparking locations on OHE, thereby helping in attention to defects and preventing failures.
- ✦ Anti-bird discs provided in SRR yard on trial basis to monitor the FCB tripping trend.
- ✦ Provision of Netlon mesh over portals at major yards has reduced the FCB tripping due to bird menace.
- ✦ Safety counseling done for other department staff in PGT Division (total 650nos.).
- ✦ Height Measurement Gauge provided to the Pantograph of CS Tower wagon for Contact wire height measurement.
- ✦ CCTV cameras are installed at all Traction substations in view of unmanning of Traction sub-stations and all Tr. D depots to keep a close vigil on the events and activities.
- ✦ CU Quad cable for RC communication converted to end to end OFC connectivity in RTU at KJKD/TSS. This is second such case in Southern Railway for SCADA.
- ✦ Replacement of rusted cantilever assembly is under progress for improving the reliability of OHE.
- ✦ Provision of Double Pole Isolator with Earthing heel at Shunting Neck of Madukarai Station. Loading of construction material will involve the use of Machines and the resultant need for Power Block during the process of Loading, it is essential that separate Isolation arrangements are provided for the Shunting Neck so that Reception & Dispatch of other Trains is not affected from either direction on Road 4 & 5.

- ✚ Provision of Single pole Isolator in PGT yard towards KJKD B line section by converting the existing UIOL to IOL. This arrangement will facilitate reception & despatch of trains through KJKD-PGT A line from Rd-1 to Rd-11 of Palakkad station during emergency/power block on PGT-KJKD B line. So far it was not possible to dispatch and receive trains from/to PGT yard through KJKD-PGT A line during power block on PGT-KJKD B line.
- ✚ At MNY/SP UP & DN line, insulated overlap type neutral section have been replaced by PTFE type neutral section (Location-548/13A & 16A) and commissioned on 08.05.2024 & 13.06.2024. With this, all neutral sections of PGT division are of PTFE type short neutral section.
- ✚ SRR-NIL section commissioned on 30-12-2024
- ✚ First AC loco hauled passenger train (16326 exp.) ran in SRR-NIL section on 01-01-2025 with 25kV AC traction power supply from MLTR/TSS