

EXPLANATORY NOTES

The upgradation of Indian Railways' SCADA systems to the latest security standards is driven by their classification as Critical Information Infrastructure (CII), following directives from the National Security Council Secretariat (NSCS) and the Railway Board to mitigate significant cyber vulnerabilities. Specification TI/SPC/RCC/SCADA/0134 addresses this critical need by mandating advanced technical defences, including hardware firewalls, biometric authentication, and robust protocol encryption for field communications. To facilitate this transition for the large population installations, Technical Instruction TI/IN/0048 defines a specific migration path that allows existing systems to achieve 0134-level security requirements through targeted software and firmware upgrades while prioritizing the reuse of existing hardware. Finally, Instruction TI/IN/0052 provides the necessary Standard Operating Procedure (SOP) for the protection of this infrastructure, ensuring a unified and standardized implementation of these cyber security guidelines across all Zonal Railways. These specifications are uploaded with the tender and are to be complied in all the upgradation process of SCADA for cyber security.

Schedule-1- Firmware up-gradation of RTUs for cyber security compliances of TSS/SSP/SP as per RDSO specification no.TI/SPC/RCC/SCADA/0134 of M/s Vbro RTU from RSDO TI/SPC/RCC/SCADA/0133

The scope includes the firmware up-gradation of RTUs for cyber security compliances of TSS/SSP/SP as per RDSO specification no.TI/SPC/RCC/SCADA/0134 of M/s Vbro RTU from RSDO TI/SPC/RCC/SCADA/0133. The RTUs in BAW-HAS section are of M/s Vbro make in RDSO specification TI/SPC/RCC/SCADA/0133. The price covers firmware upgradation and implementation of all the latest features of RDSO Specifications TI/SPC/RCC/SCADA/0134 in the RTU, such full Cyber Security upgrade of the existing system. All work shall be carried out under supervision of railway representatives with prior intimation & after approval of Sr.DEE/TRD/SBC.

Note: The upgraded RTUs of the BAW–HAS section are proposed to be integrated with the upgraded SCADA servers of the existing SDVL–BSN and YNK–KQZ sections. Therefore, the cost shall include all necessary technical support, engineering inputs, interface details, software documentation, testing assistance, and other documentary support required for successful integration. The above assistance shall be provided to the agency executing the integration works without any additional cost.