भारत सरकार (Government of India)
रेल मंत्रालय (Ministry of Railways)
रेलवे बोर्ड (Railway Board)

No: 2023/W-I/Genl/Gatishakti (e-3438676)          New Delhi, Dated: 26.03.2025

General Managers,
All Indian Railways.

**Sub:**          **Leveraging Technology for Project Monitoring.**

**Ref:**     **(i) RDSO Specification For IP Based Video Surveillance System RDSO/SPN/TC/65/2021, Version 6.0 with Amendment No. 1, 2 & 3.**
**(ii) Railway Board's Letter No. 2021/W-I/Genl/Gatishakti (E-3378115) dated 25.08.2023**

Hon'ble Lokpal of India has taken up an issue of hidden items in case of major Railway Bridge. It is difficult to ascertain these items after completion of bridge and, thus, it is unverifiable at later stage.

Project Management cum Monitoring system leveraging latest development in technology will not only ensure proper planning and monitoring of progress of construction projects for timely completion but it will also facilitate monitoring of quality of works especially of those works which get hidden and hence are not verifiable once completed. Accordingly following instructions are to be followed during execution of infrastructure projects:

1.  **CCTV Camera:** A system for continuous monitoring by IP based CCTV cameras should be installed for important bridges and structures. Hidden items which are difficult to ascertain after completion should be recorded duly geo-tagged. Geo-tagged photographs of installation of such hidden items should be uploaded on IRPSM for later reference. This will be beneficial for any such potential questions from investigating agencies. RDSO specifications for CCTV as given in ref (i) may be adopted for the same.

2.  **Project Monitoring by using Aerial Geospatially Referred UAS (drone):** Instructions were issued vide ref(ii) for used UAS-Drone technology for monitoring the progress of construction projects and quarterly recording the videos as per the guidelines given therein the videos and uploading them on IRGVAP (Indian Railway Geo Video Application Platform). It is again reiterated to carry out the drone video recordings quarterly and upload them on IRGVAP (through IRPSM). Presently, IRPSM has capacity to store drone videos for approx. 100 projects. So each of the Railways can upload videos for few important projects.

(Vivek Kumar)
ED/GatiShakti/Civil-II
Railway Board

**Copy to:** CAO/C, All Indian Railways.