

**Government of India (BHARAT SARKAR)  
Ministry of Railways (RAIL MANTRALAYA)  
(Railway Board)**

No: 2010/Tele/11(11)/1 Pt.

New Delhi  
Dated: 31.10-17

**General Manager  
All Indian Railways**

**Sub: Manning of LC Gates to eliminate unmanned LC Gates -  
Working method for telephonic communication.**

Approval of Competent authority is hereby communicated to use GSM based FCT phone for manning of LC gates to improve safety level, as an approved means of communication in low traffic density sections.

While wiring GSM based FCT phone at such LC Gates, following need to be ensured:-

- (a) The system will function in a manner, such that, as soon as the gateman of LC gate lifts the handset to communicate with the on duty SM, a bell/buzzer shall ring in the Fixed Cellular Terminal Instrument (FCT) kept at the SM desk. The SM will in turn lift the handset to receive the call from the gate keeper.
- (b) Similarly, on duty SM at station end, when required to communicate with the gatekeeper of LC gate, will press the single key meant for the specified LC gate. The bell/buzzer of the desktop instrument at the LC gate will ring at the gate and gatekeeper will off hook the handset from the cradle to receive the call and thereby the communication between SM and the gatekeeper shall get established
- (c) In the same way, the facility can be extended to other level crossing gates in the section by programming other keys of the FCT equipment of SM. Incoming calls from any other source, except SM, should not be possible.
- (d) In case the FCT phone is out of order or is showing engaged condition, necessary precaution as per provision of SR or those which should be taken in case of failure of communication.
- (e) Zonal Railway shall provide the proposed system at such LC gate only where proper GSM network coverage is available. Signal strength of GSM network should be tested, once in quarterly basis to avoid any subsequent network issues & record of it should be kept in the proper format. The signal strength at the location of FCT must be strong enough for working with FCT having RF sensitivity of -102dBm.

- (f) Reliability of power supply with sufficient battery backup at gate lodge must be ensured before commissioning of the proposed system. Solar Panel of suitable capacity should be installed at Gate to ensure uninterrupted power supply for least 4 sunless days to FCT.
- (g) The phone instrument along with FCT should be kept inside the gate lodge in a pilferage & theft proof housing with locking arrangement.
- (h) Use of GSM based FCT is to be approved as a one-time special case till the work of laying of 6 Quad cable is completed in the section.
- (i) Suitable number of spares of FCT equipment & Telephone instruments should be kept in the section/division to avoid any long duration failure/breakdown

This issues with the approval of DG(S&T).

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(Anshul Gupta) 31/10/12

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