RADWIN

Dated: 14th July 2022

To,
Shri S.T. Abbas,
Principal Advisor,
Telecom Regulatory Authority of India
New Delhi - 110001

Subject: TRAI Consultation Paper on "Spectrum Requirements of National Capital Region Transport Corporation (NCRTC) for Train Control System for RRTS Corridors

Background: NATIONAL CAPITAL REGION TRANSPORT CORPORATION LIMITED has requested Department of for allocation of Spectrum for Train Control System for Regional Rapid Rail Transit System being Implemented by NCRTC in 8 Rail Corridors including 3 Rail Corridors of approximate length of 350Kms along Delhi – Ghaziabad – Meerut, Delhi – Gurugram – Alwar, Delhi – Panipat in Phase – I in 700MHz LTE Band

Major Deployment Applications:

1. CBTC
2. Video Transfer System
3. Depot Offload/Coverage
4. WiFi for the Passengers

Suggestions:

1. As current Tender of NCRTC for Delhi – Ghaziabad – Meerut Corridor already awarded and LTE Radio Signalling CBTC to be deployed in 700Mhz Band, hence department should consider release of spectrum in 700Mhz band for the Current Project however since the application for CBTC is Train Control with Safety of Passengers is Topmost Priority, DoT/TRAI can alternatively consider 4.9Ghz band to be used for Signalling applications. This band is for Public Safety and DoT can also evaluate the option of 4.9Ghz beside LTE in 700Mhz. The Radios are widely available in Global markets with operating frequency 4.9Ghz – 6.0Ghz.

2. Further Allocation of Spectrum in 60Ghz frequency Band will help delivery of higher throughput for

    a. CAR to CAR Connectivity which could have earlier been wired connectivity (prone to more failures)

    b. Depot Offloading: Availability of Radio in 60Ghz band will provide higher throughput ~1Gbps for offloading of Video Images in shorter span of time after Train has berthed the Depot.

3. Alternate Spectrum for CBTC and Depot Offload will reduce load on 5Ghz band which can then be utilized fully for VTS applications

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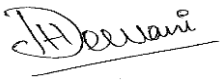
Hence, we request DoT/TRAI to also evaluate alternate Spectrum for Signalling and for Depot Offloading.

Should you have any queries please feel free to get in touch with us.

Yours faithfully,
For and on behalf of **M/s RADWIN Wireless Solutions India Private Limited**



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