

**अनिवार्य आवश्यकताएँ**

**संख्या : TEC42272108**

**Essential Requirements**

**ER No. : TEC42272108**

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**Compact Cellular Network**

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MTCTE के तहत जारी:

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**Telecommunication Engineering Centre**

**Government of India**

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Essential Requirements for:  
**Compact Cellular Network**

Certification Scheme: **GCS**

Product Fee Group: **C**

This ER covers all types of Compact Cellular Network

*Note: Annexures referred to in this ER are Annexures as mentioned in "Annexures to ERs" No. TEC/SD/DD/TCP-222/02/June19 as updated from time to time and available on MTCTE portal.*

This product has the following variants:

1. BTS CCN
2. eNodeB CCN
3. NodeB CCN

**1. Variant 1 : BTS CCN**

**1.101 Parameters Linked with Product Variant**

S.No.	Parameter Name	Standard Name
1.1.1	Conducted And Radiated Emission - Class A	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B
1.1.2	Dual IP Layer Operation RFC 4213 - Address	RFC 4213 Cl. 2.1. Annex-P6
1.1.3	Dual IP Layer Operation RFC 4213 - DNS	RFC 4213 Cl. 2.1. Annex-P6
1.1.4	GSM BTS Operating Frequency	NFAP-Annex-F
1.1.5	GSM BTS Output Power	3GPP TS 45.005 Cl. 4.1.2. Annex-F1
1.1.6	GSM BTS Receiver Parameters	3GPP TS 51.021. Annex-F1
1.1.7	GSM BTS Transmitter Parameters	3GPP TS 51.021. Annex-F1

1.1.8	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
1.1.9	Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B
1.1.10	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
1.1.11	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
1.1.12	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
1.1.13	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
1.1.14	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
1.1.15	IPV6 Extn Header Parameters	RFC 2460 or RFC 8200 . Annex-P7
1.1.16	IPV6 Header Parameters	RFC 2460 / RFC 8200 . Annex-P7
1.1.17	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1

## 2. Variant 2 : eNodeB CCN

### 2.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
2.1.1	Conducted And Radiated Emission - Class A	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B
2.1.2	Dual IP Layer Operation RFC 4213 - Address	RFC 4213 Cl. 2.1. Annex-P6
2.1.3	Dual IP Layer Operation RFC 4213 - DNS	RFC 4213 Cl. 2.1. Annex-P6
2.1.4	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
2.1.5	Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B
2.1.6	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
2.1.7	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4.

		Annex-B
2.1.8	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
2.1.9	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
2.1.10	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
2.1.11	IPV6 Extn Header Parameters	RFC 2460 or RFC 8200 . Annex-P7
2.1.12	IPV6 Header Parameters	RFC 2460 / RFC 8200 . Annex-P7
2.1.13	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1
2.1.14	LTE eNodeB Operating Frequency	NFAP. Annex-F
2.1.15	LTE eNodeB Receiver Parameters	3GPP TS36.141. Annex-F3
2.1.16	LTE eNodeB Transmitter Parameters	3GPP TS36.141. Annex-F3

### 3. Variant 3 : NodeB CCN

#### 3.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
3.1.1	Conducted And Radiated Emission - Class A	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B
3.1.2	Dual IP Layer Operation RFC 4213 - Address	RFC 4213 Cl. 2.1. Annex-P6
3.1.3	Dual IP Layer Operation RFC 4213 - DNS	RFC 4213 Cl. 2.1. Annex-P6
3.1.4	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
3.1.5	Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B
3.1.6	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
3.1.7	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
3.1.8	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B

3.1.9	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
3.1.10	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
3.1.11	IPV6 Extn Header Parameters	RFC 2460 or RFC 8200 . Annex-P7
3.1.12	IPV6 Header Parameters	RFC 2460 / RFC 8200 . Annex-P7
3.1.13	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1
3.1.14	WCDMA NodeB Operating Frequency	NFAP. Annex-F
3.1.15	WCDMA NodeB Receiver Parameters	3GPP TS25.141. Annex-F2
3.1.16	WCDMA NodeB Transmitter Parameters	3GPP TS25.141. Annex-F2