भारतसरकार **Government of India**
संचारमंत्रालय **Ministry of Communications**
दूरसंचारविभाग **Department of Telecommunications**
दूरसंचारअभियांत्रिकीकेंद्र **TELECOMMUNICATION ENGINEERING CENTRE**
खुर्शीदलालभवन ,जनपथ , **Khurshid Lal Bhawan, Janpath, New Delhi -**
नईदिल्ली**110001** **110 001**
(Radio Division)
Visit http://www.tec.gov.in

No.: 3-4018/2021-R/TEC Date: 20-02-2023

Subject:- **Invitation for Mandatory Testing Consultative Forum (MATCOF) for ER on 'E-band Fixed Radio Relay Systems.'**

TEC is implementing Mandatory Testing & Certification of Telecommunication Equipment as notified vide Gazette Notification No. G.S.R. 113(F) dated 5th September, 2017 for which Essential Requirements (ER) documents are being formulated.

2 The Mandatory Testing Consultative Forum (MATCOF) to consider the draft ER on '**E-band Fixed Radio Relay Systems**' is planned to be held as per the following schedule.

Date	March 03, 2023
Time	2.30 PM onward
Meeting link	http://cdotmeet.cdot.in/vmeet/nehpzy-8mx-5tn

3. The draft document for ER to be discussed is enclosed herewith. The stakeholders are encouraged to send their comments on the draft ER beforehand, so that same may be considered during the discussion. As the discussion on the draft ER document will be fairly technical in nature, appropriate representation from the technical experts of different stakeholders is advised.

4 The stakeholders are requested to provide comments on the draft ER and confirm their participation in the MATCOF via email to anshulkr.gupta@gov.in with a copy to bhoomika.gaur@gov.in latest by Feb 28, 2023.

Bhoomika

(Bhoomika Gaur)
Assistant Director General (R-II)
Radio Division, TEC

To,

1 Stakeholders registered for MATCOF under the relevant category.
2 AD(IT), TEC, with a request to upload this letter on TEC website.

अनिवार्यआवश्यकताएँ

सख्ं्ा :TEC xxxxx

Essential Requirements

ER No. : TECxxxxxxxx

E-band Fixed Radio Relay Systems

MTCTE के तहत जारी:
Issued under MTCTE by:

दूरसंचार अभियांत्रिकी केंद्र
भारत सरकार
खुर्शीद लाल भवन, जनपथ, नई दिल्ली - 110001, भारत

Telecommunication Engineering Centre
Government of India
Khurshid Lal Bhawan, Janpath, New Delhi-110001, INDIA

Essential Requirements for:

E-Band Fixed Radio Relay Systems

Certification Scheme: GCS Product Fee Group: C

This ER covers E-band point-to-point digital integrated radio relay systems operating in 71-76/81-86 GHz frequency band.

Note: Annexures referred to in this ER are Annexures as mentioned in "Annexure to ER" .~~TEC/SD/DD/TCP-222/02/June19~~ as updated from time to time and available on MTCTE portal.

This product has only one variant:

1. E-Band Fixed Radio Relay System

1.1 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 32 EN55032. Annex-B
1.1.2	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
1.1.3	Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B

1.1.4	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
1.1.5	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
1.1.6	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
1.1.7	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
1.1.8	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
1.1.9	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1
1.1.10	Frequency for E-Band Radio Interface	As per DoT/WPC NFAP Clause 2.1.1 of TEC Standard 36060:2022 Annex-C1
1.1.11	Maximum Transmit Power for E-Band Radio interface	As per DoT/WPC license conditions. Clause 2.2.1 of TEC Standard 36060:2022. Annex C2
1.1.12	E-band_Tx/Rx Separation	Clause 2.1.4 of TEC Standard 36060:2022. Annex C3
1.1.13	E-Band_Co-channel_C/I	Clause 2.5.2 of TEC Standard 36060:2022. Annex C3
1.1.14	E-Band_Adjacent_Channel_C/I	Clause 2.5.3 of TEC Standard 36060:2022 Annex C3
1.1.15	E-Band_TX Spurious_Harmonics	Clause 2.2.5 of TEC Standard 36060:2022. Annex C3
1.1.16	E-Band_XPIC_Functionality	Clause 2.1.9 of TEC Standard 36060:2022 Annex C3
1.1.17	E-Band_CA_Functionality Functionality to combine Carrier Aggregation (CA) E-Band carrier with traditional band carrier	Clause 2.1.10 of TEC Standard 36060:2022 Annex C3

1.1.18	E-Band_Radio_Capacity	Clause 2.1.5 of TEC Standard 36060:2022. Annex C3

1.2 Interface 1 : 1 G Optical Ethernet

S.No.	Parameter Name	Standard Name
1.2.1	Average Launch power for 1 GE Opt	IEEE 802.3z Cl. 38. Annex-H
1.2.2	Receiver Sensitivity 1 GE Opt	IEEE 802.3z Cl. 38. Annex-H
1.2.3	Wavelength for 1 GE Opt	IEEE 802.3z Cl. 38. Annex-H

1.3 Interface 2 : 10 G Optical Ethernet

S.No.	Parameter Name	Standard Name
1.3.1	Average Launch power for 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H
1.3.2	Receiver Sensitivity 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H
1.3.3	Wavelength for 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H

1.4 Interface 3 : Fast Ethernet Electrical

S.No.	Parameter Name	Standard Name
1.4.1	Link Speed and Autonegotiation Test FE	IEEE 802.3 Annex-H

1.5Interface 4 : Gigabit Ethernet Electrical

S.No.	Parameter Name	Standard Name
1.5.1	Link Speed and Autonegotiation Test GE	IEEE 802.3. Annex-H

1.6 Interface5 : 2 Mbps - E1

S.No.	Parameter Name	Standard Name
1.6.1	Input Jitter Tolerance for 2 Mbps Int	ITU-T G.823 / ETSI TBR-4. Annex-I
1.6.2	Input Return Loss for 2 Mbps Int	ITU-T G.703 / ETSI TBR-4 Cl. 9.3.1. Annex-I
1.6.3	Nominal Bit Rate with Tolerance for 2 Mbps Int	ITU-T G.703 / ETSI TBR-4 Cl. 9.2.3. Annex-I
1.6.4	Output Jitter for 2 Mbps Int	ITU-T G.823 / ETSI TBR-4. Annex-I
1.6.5	Pulse Mask for 2 Mbps Int	ITU-T G.703 / ETSI TBR-4 Cl. 9.2.1. Annex-I

1.7 Interface 6 : STM-1 Electrical

S.No.	Parameter Name	Standard Name
1.7.1	Input Jitter Tolerance STM-1 Electrical	ITU-T G.825. Annex-K
1.7.2	Input Return Loss for STM-1 Electrical	ITU-T G.703. Annex-K
1.7.3	Nominal Bit Rate with Tolerance STM-1 Electrical Int	ITU-T G.703. Annex-K
1.7.4	Output Jitter for STM-1 Electrical Int	ITU-T G.825. Annex-K
1.7.5	Pulse Mask for STM-1 Electrical Int	ITU-T G.703. Annex-K

1.8 Interface 7 : STM-1 Optical

S.No.	Parameter Name	Standard Name
1.8.1	Input Jitter Tolerance for STM-1 Opt	ITU-T G.825. Annex-K
1.8.2	Mean Launched Power for STM-1 Opt Int	ITU-T G.957. Annex-K
1.8.3	Nominal Bit Rate with Tolerance STM-1 Opt Int	ITU-T G.957. Annex-K
1.8.4	Operating Wavelength Range for STM-1 Opt Int	ITU-T G.957. Annex-K
1.8.5	Output Jitter for STM-1 Opt Int	ITU-T G.783 G.825 Annex-K
1.8.6	Receiver Overload for STM-1 Opt Int	ITU-T G.957. Annex-K
1.8.7	Receiver Sensitivity for STM-1 Opt Int	ITU-T G.957. Annex-K

1.9 Interface 8 : STM-16 Optical

S.No.	Parameter Name	Standard Name
1.9.1	Input Jitter Tolerance for STM-16 Opt	G.825. Annex-K
1.9.2	Mean Launched Power for STM-16 Opt Int	ITU-T G.957. Annex-K
1.9.3	Nominal Bit Rate with Tolerance STM-16 Opt Int	ITU-T G.957. Annex-K
1.9.4	Operating Wavelength Range for STM-16 Opt Int	ITU-T G.957. Annex-K
1.9.5	Output Jitter for STM-16 Opt Int	ITU-T G.783. Annex-K

1.9.6	Receiver Overload for STM-16 Opt Int	ITU-T G.957. Annex-K
1.9.7	Receiver Sensitivity for STM-16 Opt Int	ITU-T G.957. Annex-K

1.10 Interface 9 : STM-4 Optical

S.No.	Parameter Name	Standard Name
1.10.1	Input Jitter Tolerance for STM-4 Opt	ITU-T G.825. Annex-K
1.10.2	Mean Launched Power for STM-4 Opt Int	ITU-T G.957. Annex-K
1.10.3	Nominal Bit Rate with Tolerance STM-4 Opt Int	ITU-T G.957 Annex-K
1.10.4	Operating Wavelength Range for STM-4 Opt Int	ITU-T G.957. Annex-K
1.10.5	Output Jitter for STM-4 Opt Int	ITU-T G.783. Annex-K
1.10.6	Receiver Overload for STM-4 Opt Int	ITU-T G.957. Annex-K
1.10.7	Receiver Sensitivity for STM-4 Opt Int	ITU-T G.957. Annex-K

Annexure-C1: Frequency Band of Operation for Non-Cellular Radio Equipment

Parameter Group: Radio Conformance (RADCONF)

S. No.	Parameter Name	Standard	Limits/ Values	Applicability/ Remarks
C1.1	Frequency Band For MRTS	Latest NFAP issued by WPC.	300/400 MHz or 800 MHz	MRTS Equipment Testing procedure as per applicable ENxxx standard mentioned in Annexure C3
C1.2	Frequency for HF equipment	Latest NFAP issued by WPC	3 MHz to 30 MHz	HF Equipment Testing procedure as per applicable ENxxx standard mentioned in Annexure C3
C1.3	Frequency for UHF/ VHF equipment	Latest NFAP issued by WPC	30 MHz to 1000 MHz	VHF/UHF Equipment Testing procedure as per applicable ENxxx standard mentioned in Annexure C3
C1.4	Frequency for PTP Radio Interface	Latest NFAP issued by WPC.	6/ 7/ 13/ 15/ 18/ 23 GHz. Applicable to all Point to Point Microwave Fixed Radio Systems except Split Microwave Indoor Unit	Applicable to all Point to Point Microwave Fixed Radio Systems except Split Microwave Indoor Unit Testing procedure as per EN 302 217-2
C1.5	Frequency for PMP Radio Interface	Latest NFAP issued by WPC.	10.5/ 26/ 28 GHz. Applicable to all Point to Multi- Point Microwave Fixed Radio Systems except Split Microwave Indoor Unit	Applicable to all Point to Multi- Point Microwave Fixed Radio Systems except Split Microwave Indoor Unit Testing procedure as per EN 302 326-2
C1.6	Frequency of Operation - Satellite Equipment	Latest NFAP issued by WPC.	Lower C-band Receive Frequency 3.400-3.700GHz Trans Frequency 6.425-6.725GHz *Note- The equipmentmay operate in part of the bands or cover the full bandslisted.*	Testing procedure as per Appendix-II, Test-2

C1.7	Frequency of Operation - Satellite Equipment	Latest NFAP issued by WPC.	Normal C-band Receive Frequency 3.700-4.200GHz Trans Frequency 5.925-6.425GHz *Note- The equipmentmay operate in part of the bands or cover the full bandslisted.*	Testing procedure as per Appendix-II, Test-2
C1.8	Frequency of Operation - Satellite Equipment	Latest NFAP issued by WPC.	Extended C-band Receive Frequency 4.500-4.800GHz Trans Frequency 6.725-7.025GHz *Note- The equipmentmay operate in part of the bands or cover the full bandslisted.*	Testing procedure as per Appendix-II, Test-2
C1.9	Frequency of Operation - Satellite Equipment	Latest NFAP issued by WPC.	Ku band Receive Frequency 10.7-11.7 GHz 12.2-12.75 GHz Trans Frequency 12.75-13.25GHz 13.75-14.0GHz 14.0-14.5 GHz Note- The equipment may operate in part of the bands or cover the full bands listed.	Testing procedure as per Appendix-II, Test-2
C1.10	Frequency for E-Band Radio Interface	Latest NFAP issued by WPC.	71-76/81-86 GHz. Note- The equipment may operate in part of the bands or cover the full bands listed.	Testing procedure as per EN 302 217-2

Note: Frequency of operation requirements is as per the latest NFAP issued by WPC and the requirements in NFAP supersede the requirements listed here.

Annexure-C2: Transmitted Power/ EIRP for Non-Cellular Radio Equipment

Parameter Group: Radio Conformance (RADCONF)

S. No.	Parameter Name	Standard	Limits/ Values	Applicability/ Remarks
C2.1	Max RF Power Output MRTS Base Stn	As per DoT/WPC license conditions	100 W	MRTS Base Stations Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.2	Max RF Power Output MRTS Mobile Stn	As per DoT/WPC license conditions	30 W	MRTS Fixed Mobile Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.3	Max RF Power Output for MRTS Handheld Stn	As per DoT/WPC license conditions	3 W	MRTS Handheld Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.4	Max RF Power Output for MRTS Fixed Stn	As per DoT/WPC license conditions	30W	MRTS Fixed Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.5	Max Transmit Power for HF Base Stn	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	HF Base Stations Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.6	Max Transmit Power for HF HH Stn	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	HF Handheld Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.7	Max Transmit Power for HF Mob Stn	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	HF Mobile Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.8	Max Transmit Power for HF Fixed Stn	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	HF Fixed Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.9	Max Transmit Power for UHF/VHF Base Stn	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	VHF/UHF Base Station Testing procedure as per applicable ENxxx standard mentioned Annexure C3

S. No.	Parameter Name	Standard	Limits/ Values	Applicability/ Remarks
C2.10	Max Transmit Power for UHF/VHF HH Stn	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	VHF/UHF Handheld Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.11	Max Transmit Power for UHF/VHF Mob Stn	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	VHF/UHF Mobile Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.12	Max Transmit Power for UHF/VHF Fixed Stn	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	VHF/UHF Fixed Equipment Testing procedure as per applicable ENxxx standard mentioned Annexure C3
C2.13	Transmit Power for PTP Radio interface	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	Applicable to all Point to Point Microwave Fixed Radio Systems except Split Microwave Indoor Unit Testing procedure as per EN 302 217-2 or Appendix-II, Test-3
C2.14	Transmit Power for PMP Radio Interface	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	Applicable to all Point to Multi-Point Microwave Fixed Radio Systems except Split Microwave Indoor Unit Testing procedure as per EN 302 326-2 or Appendix-II, Test-3
C2.15	Transmit Power - Satellite Equipment	As per DoT/WPC license conditions	As per DoT/WPC prescribed limit	Testing procedure as per Appendix-II, Test-2
C2.16	Maximum Transmit Power for E-Band Radio interface	As per DoT/WPC license conditions TEC Standard 36060:2022	As per TEC Standard 36060:2022 or ETSI EN 302 217-2 Clause 4.2.2	Testing procedure as per ETSI EN 302 217-2

Note: *EIRP requirements i.e. Limits/Values shall be as per the latest NFAP and GSRs issued by WPC, DoT and the requirements in NFAP and GSRs supersede the requirements listed here.*

Annexure-C3: Radio Conformance Requirement for Non-Cellular Radio Equipment

Parameter Group: Radio Conformance (RADCONF)

S. No.	Equipment Name	Parameter Name	Standard	Limits/ Values	Applicability/ Remarks
C3.1	MRTS Equipment	Conformance to standards for MRTS	ETSI EN 300 113	Compliance	Applicable for equipment meant for transmission of data and/or speech and having antenna connector
C3.2	MRTS Equipment	Conformance to standards for MRTS	ETSI EN 300 390	Compliance	Applicable for equipment meant for transmission of data and/or speech and having integral antenna
C3.3	MRTS Equipment	Conformance to standards for MRTS	ETSI EN 300 086	Compliance	Applicable for equipment meant for analogue speech and having internal or external RF connector
C3.4	MRTS Equipment	Conformance to standards for MRTS	ETSI EN 300 296	Compliance	Applicable for equipment meant for analogue speech and having integral antenna
C3.5	MRTS Equipment	Conformance to standards for MRTS	ETSI EN 300 219	Compliance	Applicable for equipment meant to transmit signals to initiate specific receiver response
C3.6	MRTS Equipment	Conformance to standards for MRTS	ETSI EN 300 341	Compliance	Applicable for equipment, using integral antenna, meant to transmit signals to initiate specific receiver response
C3.7	MRTS Equipment	Conformance to standards for MRTS	ETSI EN 301 166	Compliance	Applicable for equipment meant for transmission of data and/or speech and operating on narrow band channels (<10KHz) and having antenna connector
C3.8	MRTS Equipment	Conformance to standards for MRTS	ETSI EN 302 561	Compliance	Applicable for Terrestrial Trunked Radio (TETRA)

C3.9	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 113	Compliance	Applicable for equipment meant for transmission of data and/or speech and having antenna connector
C3.10	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 390	Compliance	Applicable for equipment meant for transmission of data and/or speech and having integral antenna
C3.11	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 086	Compliance	Applicable for equipment meant for analog speech and having internal or external RF connector
C3.12	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 296	Compliance	Applicable for equipment meant for analog speech and having integral antenna
C3.13	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 219	Compliance	Applicable for equipment meant to transmit signals to initiate specific receiver response
C3.14	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 341	Compliance	Applicable for equipment, using integral antenna, meant to transmit signals to initiate specific receiver response
C3.15	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 783	Compliance	Applicable for commercial amateur radio equipment.
C3.16	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 720	Compliance	Applicable for UHF On-board vessels communication systems.
C3.17	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 301 925	Compliance	Applicable for Radiotelephone transmitters and receivers for maritime mobile service operating in VHF band

C3.18	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 301 178	Compliance	Applicable for portable VHF radiotelephone equipment for the maritime mobile service (for non-GMDSS applications only)
C3.19	VHF/UHF Equipment	Conformance to standards for Equipment used in VHF/UHF Radio Systems	ETSI EN 300 698	Compliance	Applicable for Radio telephone transmitters and receivers for the maritime mobile service operating in the VHF bands used on inland waterway
C3.20	HF Equipment	HF Radio Systems	ETSI EN 300 433	Compliance	Applicable to Citizen band (CB) Radio equipment.
C3.21	HF Equipment	HF Radio Systems	ETSI EN 303 402	Compliance	Applicable to maritime mobile transmitters and receivers.
C3.22	HF Equipment	HF Radio Systems	ETSI EN 301 783	Compliance	Applicable to commercially available amateur radio equipment.
C3.23	PTP Microwave Fixed Radio Systems	PTP Fixed Digital Radio Conformance	ETSI EN 302 217-2	Compliance	Applicable to all Point to Point Microwave Fixed Radio Systems except Split Microwave Indoor Unit
C3.24	PMP Microwave Fixed Radio Systems	PMP Fixed Digital Radio Conformance	ETSI EN 302 326-2	Compliance	Applicable to all Point to Multi-Point Microwave Fixed Radio Systems except Split Microwave Indoor Unit
C3.25	VSAT	Conformance to standards for Satellite	Compliance to ETSI EN 301 443	Compliance	For C Band
C3.26	VSAT	Conformance to standards for Satellite	Compliance to ETSI EN 301 428	Compliance	For Ku Band
C3.27	E- Band Microwave Fixed Radio Systems	E-band_Tx/Rx Separation	TEC Standard 36060:2022	As per TEC Standard 36060:2022 or ETSI EN 302 217-2 Clause J.1	Applicable to all E-Band Microwave Fixed Radio Systems Testing procedure as per ETSI EN 302 217-2
C3.28		E-Band_Co-channel_C/I	TEC Standard 36060:2022	As per TEC Standard 36060:2022 or ETSI EN 302 217-2 Clause 4.3.3.2	
C3.29		E-Band_Adjacent_Channel_C/I	TEC Standard 36060:2022	As per TEC Standard	

				36060:2022 or ETSI EN 302 217-2 Clause 4.3.3.2	
C3.30		E-Band_TX_Spurious_Harmonics	TEC Standard 36060:2022	As per TEC Standard 36060:2022 or ETSI EN 302 217-2 4.2.5	
C3.31		E-Band_XPIC_Functionality	TEC Standard 36060:2022	Compliance	
C3.32		E-Band_CA_Functionality Functionality to combine Carrier Aggregation (CA) E-Band carrier with traditional band carrier	TEC Standard 36060:2022	Compliance	
C3.33		E-Band_Radio_Capacity	TEC Standard 36060:2022	As per TEC Standard 36060:2022 or ETSI EN 302 217-2 J.2.2	

Note to Annexure -C:

1. "Frequency of operation" and "maximum transmitted power "shall be entered in BOM file as per guidelines ofWPC/DOT.
2. Usage scenario of equipment shall be entered in BOM. Various Usage Scenarios for different types of equipment like MRTS equipment, VHF/UHF/HF Radio are listed in Annexure-C3 along-with the applicable EN standard. There may be multiple ENs applicable for a single usage scenario as per the applicability mentioned. For example - HF Radio intended for Maritime usage in Citizen Band will have to get conformance against both EN standard mentioned in Annexure C3.20 & Annexure C3.21.
3. Type of VHF/UHF/HF/MRTS equipment- Base station fixed mobile transportable equipment; handheld, base band processing equipment etc. shall be entered in BOM.
4. For all types of equipment covered in Annexure C, the Radio Conformance Requirements (Limits/Values) listed in Annexure C3 do not include Limits/Values for RF technical parameters - Frequency of operation and Transmit power, which are explicitly mentioned in Annexure C1 and Annexure C2. These RF parameters are governed by National regulations as listed in Annexure C1 andC2.