S.No.	Original ER		Comments				
	Parameter Name	Standard Name	C-DoT	Dish	HathWay	MyBox	TATA PLAY
1.1.1	Conducted And	EN55022/32. Annex-					Not applicable for
	Radiated Emission -	В					consumer devices
	Class A TEC EMI						
	EMC Standard						
	CISPR 22/32						
1.1.2	Conducted And	EN55022/32. Annex-					EN55032 Class B is OK
		В					.More details needed
	Class B TEC EMI						on Annex-B
	EMC Standard						
	CISPR 22/32						
1.1.3	Immunity to AC	TEC EMI EMC					IEC:61000-4-11:2004 is
	Voltage Dips and	Standard					OK .More details
	Short Interruptions	EN/IEC:61000-4-					needed on Annex-B
		11. Annex-B					
1.1.4	Immunity to DC	EN/IEC:61000-4-29.					Not applicable
	Voltage Dips and	Annex-B					
	Short Interruptions						
1.1.6	Immunity to	TEC EMI EMC					IEC:61000-4-2:2009 is
	Electrostatic	Standard					OK .More details needed on Annex-B
	Discharge	EN/IEC:61000-4- 2.					needed on Annex-B
4.4.		Annex-B					
1.1.7	Immunity to Fast	TEC EMI EMC					IEC:61000-4-4:2012 is OK .More details
	Transients (Burst)	Standard					needed on Annex-B
		EN/IEC:61000-4- 4.					liceded off Affilex-D
440	1 20 4	Annex-B					IFO:04000 4
1.1.8	Immunity to	TEC EMI EMC					IEC:61000-4- 3:2006+A1:2008+A2:20
	Radiated RF	Standard					10 is OK. More details
		EN/IEC:61000- 4-3.					needed on Annex-B
		Annex-B					
1.1.9	Immunity to RF Field						IEC:61000-4-
	Induced Conducted	Standard					6:2009/2014 is OK.
	Disturbance	EN/IEC:61000-4- 6.					More details needed on Annex-B
		Annex-B					
1.1.10	Immunity to Surges	TEC EMI EMC					IEC:61000-4-5:2014
		Standard					is OK. more details
		EN/IEC:61000-4- 5.					needed on Annex-B
		Annex-B					

S.No.	Oriair	nal ER			Comments		
	Parameter Name	Standard Name	C-DoT	Dish	HathWay	МуВох	TATA PLAY
1.1.11	IPV6 Dual Stack as per RFC 4213	RFC 4213 clause 2.1 and 2.2. Annex- P6					More Time needed to analyse
1.1.12	IPV6 Parameters	RFC 2460 / 8200. Annex-P7		IPv4 (mandatory) and IPv6 (recommended)			
1.1.13	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1					IS 13252(Part1):2010+ A1:2013+A2:2015/IEC 60950-1:2005 +A1:2009+A2:2013 is OK . More details needed on Annex-1
1.1.14	Safety Requirements (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC					Not Applicable or Optional.
1.1.15	TCP Parameters	RFC 793. Annex- P11					More Time needed to analyse
1.1.16	UDP Parameters	RFC 768. Annex-P5					
1.1.17	Video Codecs	MPEG-4,H.265	MPEG-2 video, MPEG- 4 video, H.264/AVC, H.265/HEVC	• MPEG-2: MP@ML, MP@HL • MPEG-4: MP@L3, MP@L4.1, HiP@L4.1 • H.265: Main@L5.1, Main 10@L5.1 (or	MPEG-2, HEVC, VP8, VP9, AV1	ADD : AV9, AV1, MPEG2,	It is function requirement, should not be part of essential requirements. MPEG-4 is OK. H.265(HEVC) should be optional
1.1.18	Video Container	MP4	MPEG-2 TS, ISO/IEC base media files(MP4, 3GP), MKV		3GPP, MPEG-4, MPEG2-TS, WMV, MKV, DAT, WEBM, AVI, VOB, MOV, FLV, F4V		It is function requirement, should not be part of essential requirements. DTH:MPEG-TS. OTT(HLS): MPEG-TS. OTT(DASH):MP4

S.No.	Origin	Original ER Comments						
	Parameter Name	Standard Name	C-DoT	Dish	HathWay	МуВох	TATA PLAY	
1.1.19	Audio Codecs	MPEG-4 AUDIO		PCM audio is required MPEG-1 Layer I/II [IEC 11172-3] MPEG-2 Audio [ISO/IEC 13818-3] MPEG4 AAC-HE v2 Level 2 as specified in [ISO/IEC 14496-3] MPEG4 AAC-HE v2 Level 4 as specified in [ETSI TS 101 154], section 6.4 Dolby Digital and Dolby Digital Plus is recommended AC-3 [ETSI TS 102 366] is recommended Manual lip-sync delay is recommended up to 400 ms		ADD: , Dolby Digital,	It is a funcation Requirement, should not be part of essential requirements. DTH: MPEG 1 layer 2 OTT: AAC MPEG -4 AUDIO should be Optional.	
1.1.20	Audio Container Conditional Access	MP4 Schedule IX : The	MPEG-2 TS, ISO/IEC base media files(MP3, MP4, 3GP) Apart from CAS, DRM	At least one of the	3GPP, MPEG-4, ADTS raw AAC, MPEG-TS, FLAC, MID, XMF, MXMF, RTTTL, RTX, OTA, IMY, MP3, MKV, WAV, OGG		It is a funcation Requirement, should not be part of essential requirements. DTH: MPEG-TS layer 2 OTT(HLS):MPEG-TS OTT(DASH): MP4 It is already part of	
	System (CAS)	Telecommunication (Broadcasting and Cable) services Interconnection (Addressable Systems) (Third Amendment) Regulations, 2021; By TRAI	support is also required to be mentioned	digital rights management (DRM) standards is required for content protection of IP streaming, the detailed selection of DRM will be decided by the operator and the broadcaster.	(Mandatory)		TRAI requirement. No need to put here in this ER.	

S.No.	Origin	al ER	Comments					
	Parameter Name	Standard Name	C-DoT	Dish	HathWay	MyBox	TATA PLAY	
-	Digital Right							
	Management (DRM)							
1.1.22	RF Tuner	, ,	DVB-C / DVB-T / DVB-		DVB-C Tuner (47 MHz		DVB-S/ DVB-S2	
		DVB-S Tuner	S/S2 Tuner	required to integrate at	to 862 MHz)			
				least one tuner and demodulator for				
				reception of DVB-T,				
				DVB-S/S2 signals.				
	Interface 1:10 100 BA	ASE-T Ethernet			1 x RJ-45 Ethernet Port			
				• IEEE 802.3				
1.2.1	Link Speed and	IEEE 802.3 Annex-		10/100Mbase-T"			Ethernet should be	
1.2.1	Autonegotiation Test						Optional	
	FE	П					o parona.	
	Interface 2 : Bluetooth	Low Energy						
1.3.1	EIRP for BLE	WPC GSR 45(E).					More Time needed to	
	Interface	Annex-G4 (4.2)					analyse	
1.3.2	Frequency of	Latest NFAP. Ánnex-						
	Operation for BLE	G4(4.1)						
	Interface	,						
1.3.3	Spurious Emission	Annex G3						
	for BLE Interface							
4.4.4	Interface 3 : RF Video	(IN/OUT)	Output Bonderidth				Not application 0	
1.4.1	RF Video Output		Output Bandwidth, Output Level, Output				Not application & should be removed	
	Bandwidth	MHz. Annex-J2	Tilt are not applicable				Siloulu de l'ellioveu	
1.4.2	DE Video Outrot	14 dBmV. Annex-J2	if there is no loop-back					
1.4.2	RF Video Output Level	14 ubiliv. Annex-J2	interface.					
1.4.3	RF Video Output Tilt	0 dB Appoy 12						
1.4.3	No video Odiput Till	ub. Alliex-JZ						
1.4.4	RF Input	IEC 60169 – 24 F-					ок	
	·	type female						

S.No.			Comments						
	Parameter Name	Standard Name	C-DoT	Dish	HathWay	MyBox	TATA PLAY		
	Interface 4 : WiFi			Compliant with IEEE 802.11 a/b/g/n standard as minimum Single band (2.4 GHz) Wi-Fi module as client mode					
1.5.1	2.4 GHz WiFi Radio	ETSI EN 300 328 or					More Time needed to		
	Conformance	FCC CFR47 pt					analyse		
		15.247 or FCC							
		CFR47 pt 15.249.							
		Annex G3							
1.5.2	5 GHz WiFi Radio	ETSI EN 301 893 or							
	Conformance	FCC CFR47 pt							
		15.407 or FCC							
		CFR47 pt 15.249.							
		Annex-G3							
1.5.3	EIRP for Wifi	Latest NFAP and							
	Interface	GSRs issued by							
		DoT WPC. Annex-							
4.5.4		G2							
1.5.4	Frequency for WiFi	DoT WPC GSR No.							
	equipments	45(E) 1048(E).							
		Annex G1							
	Interface 5 : HDMI 2.0		HDMI 1.4, HDMI 2.0	Type-A (female) HDMI version 1.4a or above HDCP version 1.2 or above		HDMI 2.1 / HDCP			
1.6.1	Bandwidth	Upto 18 Gbps					HDMI 2.0 should be		
1.6.2	Video resolution	Upto 4K@50/60					Optional. Only HDMI		
		(2160p)					1.4 should be		
1.6.3	Multi-dimensional	Upto 32 Audio					Mandatory.		
	Immersive Audio	channels							
	experience								

S.No.	Oriair	nal ER			Comments		
	Parameter Name	Standard Name	C-DoT	Dish	HathWay	MyBox	TATA PLAY
						"1.6.4 Auto Low	
						Latency Mode (ALLM)	
						Support ALLM for cloud	
						gaming	
						1.6.4 HDCP	
						Support HDCP 2.3 CEC	
	1	. =				EDID output"	
	Interface 6 : 10G Option	cal Ethernet				Interface 6 : 10G Optical	
						Ethernet : why need 10G Optical Ethernet	
						instead of 100M	
						Ethernet which is	
						sufficient for 4K	
						streaming video?	
1.7.1	Average Launch	IEEE 802.3ae Cl.				on carriing video:	NA. It should be
	power for 10 GE Opt						optional.
	power for 10 GE Opt	32. Allilex-II					
470		IEEE 000 0 01					
1.7.2	1	IEEE 802.3ae Cl.					
	10 GE Opt	52. Annex-H					
1.7.3		IEEE 802.3ae Cl.					
	GE Opt	52. Annex-H					
	Interface 7 : USB 2.0			USB Type A			
				connector, version 2.0			
				or above			
				• 5V@500 mA power			
				supply as minimum			
				 Comply with 			
				Universal Serial Bus			
				Specification v2.0 or			
1.8.1	Data Transfer rates	Up to 480 Mbps		ahove			ок
1.8.2		Up to 100 mA; 5V;					More details needed
1.0.2	Low - power device						more details liecued
		0.50W					
	Interface 8: RCA Cables					Interface 8: RCA	
	interface of RCA Cable	#3				Cables: NOT SURE	
						HOW THIS WORKS AS	
						NEW 4K IC DON'T	
						EVEN SUPPORT RCA	
						OPTIONS	

S.No.	Origi	nal ER			Comments		
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1.9.1	RCA connector	3.5mm Jack connector- Stereo (L and R) analogue audio signal and composite video					Should follow BIS spec for STB
	EXTRA INPUT		Clauses pertaining to			1.10. System configuration CPU Power: > 16K DMIPS DDR: 2GB/3GB/4GB DDR RAM Flash: 8GB/16GB eMMC Flash memory 1.11. Graphics: support openGL ES 3.2, Vulkan 1.2, OpenCL 2.0 1.12. HDR format	
			interoperability of Hybrid STBs may also be mentioned			support: HDR10, HDR10+, HLG (standard), 1.13. DRM: Widevine Level 1, PlayReady SL3000 1.14: SPDIF: Support optical Audit (Optional) 1.1.5: Micro SD card support 1.16 Environmental Tests are Critical	