Proposal No. 25 (Proposal details for the R&D scheme of USOF)

Subject: AI enabled use cases applications

Problem	Immersive multimedia communication using XR
Statement	
Problem	The next generation Video Conferencing and e-Learning
Description	platforms would need an immersive user experience. In this
	regard, there is a requirement to enhance the current C-
	DOT secured unified communication solutions for providing
	an immersive experience.
	The requirement is to build a software stack that can be
	offered as a service over any cloud deployment and
	provides SDKs to other developers for invoking the services.
	These SDKs need to perform the tasks of immersive data
	capturing from various types of sensors (vision and audio),
	data encoding (generating multimedia streams with a MUX
	of Video, Audio), data decoding (decode multimedia
	content with a DEMUX of Video, Audio and Haptics) and
	immersive data rendering over different end user devices.
Future	The system will be enhanced to include haptic sensors as
Expectations	input and corresponding output.

Format of Response

Companies / organizations / institutions / individuals developing enabling technologies / modules / components / subsystems / products are required to respond in the format provided in Annexure-A, on the DOT website (link address provided- refer "format of response")