

Ittiam Systems Pvt Ltd

Customer (Licensee): 3GPP SA WG4 Quote: IVAS Codec, Float to Fix Conversion Date: 11 May 2023

SI No	Deliverables	Scope of work	Pricing (USD)
1	IVAS codec (Encoder, Decoder and Renderer)	1) Development of fixed point module using ETSI intrinsic model for the existing C model of IVAS codec. 2) Develop a unit test for a logical block for IVAS module and work on the corresponding module for precision, testing and validation (if the module owner doesn't have a unit test) 3) Modules where precision can't be met, sync up with modules owners (Stakeholders) with ViSQOL/PEAQ data 4) Fixed-point conversion of EVS modules would be done by referring to/modifying existing fixed-point code. Assumptions 1) Customer to share the latest version of ETSI intrinsic 2) Customer to define conformance criteria for fixed-point implementation	373,333

Terms and Conditions				
1		This quote is valid for 30 days from the date it is presented		
2	: :	Subject to Ittiam Licensing Agreement and Ittiam Conditions of sale		
3	3 License for Ittiam deliverables is valid for Single program			
4	4 Pricing does not include any taxes. All local, national and international taxes and applicable withholding taxes to be borne by Licensee			

Licensee's Responsibility

- 1 Share the latest ETSI fixed point intrinsic C model
- 2 Share test vectors necessary for testing logical modules/IVAS Code base
- 3 Share available/existing unit test for logical modules
- 4 Modules where the precision of fixed point is difficult to meet, guide Ittiam team with dB difference acceptable using data provided with ViSQOL/PEAQ
- 5 Define conformance criteria for fixed-point implementation

Delivery Timeline (Indicative. Can be further aligned based on customer's program timelines):

Milestone	Deliverable/Description	Timeline
	Signing of Agreement	Т0
R1	Fixed point C model delivery of Decoder and Renderer	T1=T0 +4months
R2	Fixed point C model delivery of Encoder	T2 = T0 + 6 Months