Technical CST format for Integrated Receiver Decoder (IRD)

Sr. No.	Parameter	Specifications	Compliance (Yes/No)	Remarks
1	Input Interfaces			
1.1	RF Interface			
1.1.1	Connector	F type/ BNC		
1.1.2	Frequency	L Band (950 to 2150 MHz) or more		
1.1.3	Level	-25 to -65dBm or better range		
1.1.4	LNB Power	13V, 18V selectable		
1.2	DVB-S			
1.2.1	Constellation	QPSK		
1.2.2	Symbol Rate	1Msps to 45Msps or better		
1.3	DVB-S2			
1.3.1	Constellation	QPSK, 8PSK, 16APSK, 32APSK		
1.3.2	Symbol Rate	Up to 35Msps or better		
1.4	DVB-S2X			
1.4.1	Constellation	QPSK, 8PSK, 16APSK, 32APSK		
1.4.2	Symbol Rate	Up to 35Msps or better		
1.5	ASI Input			
1.5.1	Connector	BNC, 50 ohm (If 75 ohm, suitable adaptor		
		should be provided)		
1.5.2	Input Rate	100 Mbps or better		
1.5.3	Standard	EN50083-9		
1.6	IP Input			
1.6.1	Connector	RJ-45 100/1000BaseT		
1.6.2	Input Rate	100 Mbps or better		
2.	Video Outputs	Composite/Component Video,		
		3G/HD/SD-SDI with embedded audio,		
		ASI out,		
		IP transport stream output		
3.	Audio Outputs	Balanced Stereo audio output		
4.	Video Decoding			
4.1	Decoding formats	MPEG-2 SD 4:2:0, 4:2:2;		
		MPEG-2 HD 4:2:0, 4:2:2;		
		MPEG-4 AVC SD 4:2:0, 4:2:2;		
		MPEG-4 AVC HD 4:2:0, 4:2:2;		
		HEVC SD 4:2:0, 4:2:2;		
		HEVC HD 4:2:0, 4:2:2;		
5.	Audio Decoding			
5.1	Decoding formats	MPEG-1 Layer-II,		
		AAC,		
6.	Video Processing	Full HD and HD Video down conversion to		
		SD,		
		Aspect ratio conversion		
7.	Content Security	DVB Common Interface single and multi-		
		service decryption,		
		BISS mode 1 and E single and multiservice		
	BA and transfer and 10 and 1	decryption		
8.	Monitoring and Control	Front Panel Keypad with LCD,		
		HTTP (Web GUI),		
		SNMP traps and alarms,		

9.	Power	230VAC, 50/60Hz	
10.	Warranty	1 Year or more	
11.	Mounting	19-inch rack mountable (mounting brackets	
	3	to be provided by vendor)	
12.	Operating temperature	0° to 45°C or better	
13.	Accessories to be	1x HDMI to SDI converter	
	supplied as per the	1x SDI to HDMI converter	
	technical specification		
13.1	HDMI interface	Full HD support	
13.2	SDI interface	6G/3G/HD-SDI	
14.	Documents	Soft copies of operating, service,	
		programming manual to be provided along	
		with the instrument. Vendor to provide	
		technical datasheets of the offered product	
		only. Vendor shall ensure that the	
		datasheet of the offered item includes all	
		the tendered technical specifications.	
		Vendors shall avoid providing the generic or	
		standard datasheets/manuals.	
15.	Technical bid shall include	To be provided	
	un-priced bill of material		
	indicating all optional		
	modules & part numbers		
	required for meeting the		
	tender specifications		
16	Indication of	To be provided	
	make/model/optional		
	items quoted for, in the		
	compliance sheet and		
	datasheet of the quoted		
17	model Sanda support	Deguired in India Turn around time shall be	
17.	Service support	Required in India. Turn-around time shall be	
		provided by the vendor.	
		In event of equipment taken out of MCF	
		premises, for service /repair, necessary MCF	
		purchase procedures to be followed like	
		bank guarantee etc.	
18.	Demonstration of the	To be arranged within two weeks of	
	instrument by the	intimation, if required by MCF.	
	supplier at MCF-		
	Hassan/Bhopal before price bid opening		
19.	Offered product must not	Bidder to provide OEM Certification	
15.	contain malicious content	mentioning that the resident	
	Jonain manerous content	firmware/software in the instrument	
		offered will not have any kind of Malicious	
		software.	
20.	Product evaluation	Quoted model shall not reach End of Life for	
	criteria	minimum 5 years. Supporting document/	
		Undertaking from the OEM to be provided.	
		All the hardware and firmware support	
		required to derive the above specification	
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		should be preinstalled on the equipment &			
		the equipment should work on standalone			
		basis.			
21.	Vendor evaluation	Vendor has to be in the Satellite			
	criteria	broadcasting equipment field for minimum			
		5 years, (supporting documents shall be provided for the same, Old PO reference			
		may be provided older than 5 years).			
		Vendor shall be OEM or OEM certified			
		authorized distributor/seller (Authorization			
		certificate shall be with reference to this			
		tender enquiry)			
22.	Delivery	It Should be =12 Weeks from the date of</th <th></th>			
	•	firm PO			
23.	Vendor eligibility criteria:				
	The technical bids will be evaluated based on the following parameters. For this				
	procurement, bids/tenders from Class-I, Class-II and Non-Local Suppliers/Bidders				
	are admissible. Offer will be evaluated & processed in conformation with GOI				
	order (Specially mentioned below). The bidder shall provide compliance and				
	undertaking as per order and subsequent amendments.				
	a. Compliance to the terms & Preference in purchase, will be provided as per Make In India Guidelines order no: P-45021/2/2017-PP(BE-II) dated 04.06.2020				
	of Department for Promotion of Industry and Internal Trade (DIPP), Ministry of				
	Commerce and industry and Make In India Guidelines Order no: F.No.6/18/2019				
		220 of Department of Expenditure, Ministry of Finance Under			
	Public procurement division for the General Financial rule (GFRs) b. As per above order definition of local content means amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a				
	proportion of the total value, in percentage. c. Bidder to mention in the certificate/compliance statement, the type of local				
	supplier (Class-I, Class-II local				
	d. Bidder to give final compli				
	eligibility criteria: Class-I, Clas				
	e. If the technical offer is sub				
	category following compliance	e to be provided.			
	f. Bidder to provide self-certif				
	with self – certification.				
	g. Bidder shall clearly mention in the certificate, break up of local content in				
	percentage without disclosing the actual price and the details of location(s) at				
	which the local value addition is made.				
	•	bidder is not the OEM, bidder to obtain declaration from the named OEM their product calls for such value addition locally for the stated end use of the			
	equipment/component.	an value addition locally for the stated end use of the			
	i. If bidder is non-local supplier, then the bidder shall provide Manufacturer				
	Authorization Certificate (MA				
24.	-	- Il local supplier' shall offer only standard and			
	catalogued product for Equipment / Spares Cards / assemblies. If the above				
		Assemblies are under development / to be			
	developed the bid will not be	considered.			