## Vendor Compliance Sheet

## (The Vendor is requested to provide the quantitative values of the asked parameters rather than writing OK/Comply/Yes etc.)

Sr.No.	Parameter	Specification	Vendor Compliance
1.	Transmitter Frequency (GHz)	90	
2.	Transmitter Power (dBm)	+15	
	Receiver Frequency (GHz)	90 ± δ	
3.	δ (Any fixed frequency within, MHz)	100 to 600	
4.	Phi (deg)	0 to 180 ° or better	
5.	Antenna gain (dB)	23 or better	
6.	Low noise amplifier gain (dB)	≥ 20	
7.	Low noise amplifier Noise figure (dB)	6 or better	
8.	Continuous Variable attenuation / Gain control (dB)	≥ 30	
9.	Band pass filter centre frequency (MHz)	600	
10.	Output signal $(I/Q)$	1 Vpp @ 500hm	
11.	IQ Frequency (Any fixed frequency within )	>100 KHz	
	Output Connectors at the		
12.	IQ detector	SMA (F) / BNC	
13.	Delivery Period	Within 8 months	
14.	Warranty/Guaranty	1 year (min)	
15.	Mandatory Spares	1 MIXER -2 * (Qty : 02 No's) 2 IF LNA * (Qty : 01 No's) *Ref. to circuit Layout attached.	3
16.	Standard Accessories	Vendor should quote for all the accessories i.e., microwave/RF components, inter- connecting waveguides and cables required for system operation, testing and maintenance.	
17.	Enclosure	The complete system should be enclosed in a 19" rack mountable metal enclosure with	

1		1			
		provision for connecting			
		a grounding cable so as			
		to avoid interference to			
		the system from			
		external noise sources.			
		The instrument			
		subsystem (its			
18.	Indicators	assemblies) should be			
	marcators	self-contained and			
		incorporate indicators			
		or status output signals			
	POWER SUPPLIES				
	The complete subsyst	om must operate op 020			
	V AC.	em must operate on 230			
19.	1 11	ies must be required to			
		n i.e. All the necessary DC			
		ed for the operation of all			
	the active component				
	oscillators etc. must b	LNAs, Multipliers, Quartz			
	<b>DOCUMENTS REQUIRED</b> a	long with the sub system:			
	Complete specification	ns of ALL the components			
		-			
	0 0	inal datasheets and test			
	reports should be pro	vided.			
20.		diversified to			
20.	All components means inclu	0			
	Oscillators, Crystal oscillator				
	attenuators, balanced mixer				
	LNAs etc.				
	Operation / Service m	nanuals must be provided.			
21.	Schedule	1. Vendor should			
<b>41</b>	Seneulie	submit the			
		design/drawing			
		details within 1			
		month from PO			
		received.			
		2. IPR will give the			
		comments/accepta			
		nce of the drawing			
		within 15 days			
		after receiving it			
		from the vendor.			
		3. After the			
		acceptance of			
		drawing from IPR,			
		vendor can start			
		the fabrication.			
		• The delivery of			
		the system			

22.	Pre-despatch tests (before despatch for approval)	<ul> <li>should be within 8 months from the date of approval of drawing.</li> <li>The vendor has to submit the following test reports to IPR once they complete the work of system assembly, integration and characterization.</li> <li>Based on these test reports, IPR shall issue a</li> </ul>	
		dispatch clearance letter. The report has to have the following tests	
Sr. No.	Parameter	Specification	
2	System Output Frequencies a) Source 1 b) Source 2 c) δ (Any fixed frequency within) System Output Power	90 GHz 90±δ GHz 100 to 600 MHz	
	a) Source 1 b) Source 2	+ 15 dBm + 15 dBm	
23.	Acceptance tests at IPR.	IPR representative shall perform the following measurements to verify the specifications as mentioned below:	
Sr. No.	Parameter	Specification	
1	System Output Frequencies d) Source 1 e) Source 2 f) δ (Any fixed frequency within)	90 GHz 90±δ GHz 100 to 600 MHz	
2	System Output Power c) Source 1 d) Source 2	+ 15 dBm + 15 dBm	a d ano a Gradiana
	• System shall be accep are met.	oted only after above mention	ned specifications
24	Warranty	Minimum <u>one year</u> from the date of acceptance.	
25	Packing Instruction:	Proper packing should be done for the shifting of instrument from vendor/factory site to IPR.	