## 1 Compliance Metrics

Please provide complete details of vendor specifications against IPR requirements.

Sr. No.	IPR Specifications		Vendor Specifications (Don't write simply Yes/No)
2.1	Instrument Chassis		
1	AC power supply	230V +/- 10%, 50Hz	
2	Bus type	PXI Express	
3	Number of Slots	8 slots or more with minimum 2 hybrid slot	
4	Slot types	Must be able to accommodate minimum two 3U PXI hybrid modules, PXI Express modules as specs below and PXI express controller as specs below for this system configuration	
5	Minimum Per Slot Bandwidth	2GB/s dedicated bandwidth or higher	
6	Dimensions	3U 19 inch rack mountable	
7	Form Factor	Standard PXIe	
8	Cooling	Forced air cooling with inbuilt fan(s)	
9	Operating temperature	5 °C to 50 °C or better specification	
10	Standards and Compliance	The product should meet the international safety standard related to electrical equipment and EMI/EMC.	
11	System Reference Clock out	10 MHz reference clock out	
12	External Clock Source In	10 MHz external clock In	
13	Accessories:	Rack Mount kit and Power cord	
2.2	<b>Embedded Cont</b>	roller	
1	Bus type	Fully compatible with PXI Express specification	
2	Processor	2.4 GHz quad core processor or better	
3	Operating system and Drivers	Supply of Windows 10 Professional or higher. Controller should also be capable of real time operating system deployment. Vendor must specify the RTOS support and the programming method for RTOS.	
4	Hard Drive	500 GB or larger Solid State Drive	
5	RAM	8GB or larger	
6	Ethernet interface	Two 10/100/1000 Base-T Port, RJ-45 connector	
7	Display port	1 Number	
8	GPIB (IEEE 488 controller)	1 Number	
9	Hi-Speed USB (3.0) Port	2 Numbers or more	
10	PXI Express Trigger Bus Input /Output	Required – with SMB interface or equivalent	

11	Accessories:	For controller: 20" LCD Monitor or		
11	riccessories.	higher, USB keyboard, Optical Mouse.		
12	Dimension	3U PXI express module to fit in		
		PXIe chassis		
13	Operating	5 °C to 50 °C or better specification		
10	Ambient	5 C to 50 C of better specification		
	temperature			
1.4	range	10.07 / 00.07		
14	Relative	10 % to 90 %, non-condensing		
	Humidity range			
2.3	1	npling Digitizer Module type 1		
1	Total number of	48		
	Analog In (AI)			
	channels			
2	Number of AI	4 or 8 numbers of differential		
	channels per	channels		
	card			
3	Bus Type	PXI Express		
4	ADC Resolution	16 bits		
5	Sampling rate	Simultaneous sampling at rate of		
		1.25 MS/sec/channel or higher		
6	Input Impedance	$\geq 10 \text{ G}\Omega$ in parallel with input		
		capacitance ≤100 pF		
7	Input coupling	DC		
8	Input Voltage range	$\pm 10V, \pm 5V$ selectable		
9	Over voltage	±20 V or higher		
	Protection			
10	Input buffer	8k Samples or more		
11	Data transfers	DMA, Programmed IO		
12	External clock and	Provision for external clock and external		
13	External trigger Analog Out	trigger for synchronous operation  2 Numbers with 16 bit resolution		
13	Analog Out channel	2 Numbers with 10 bit resolution		
14		16 1		
14	_	16 channel Individually		
45	channel	programmable as In or Out		
15	Driver should be	Windows 10 or higher		
	compatible with the Operating system			
16	Mandatory	(1) Shielded connection box for		
	Accessories:	connection of acquisition		
	110005501105.	signals to DAQ Modules		
		(2) Shielded cables for connection		
		of modules to Connection box.		
2.4	Cimultaneaus			
<b>2.4</b> 1	Total number of	npling Digitizer Module type 2		
T		16		
	Analog In (AI)			
	channels	4 0 1 2 122		
2	Number of AI	4 or 8 numbers of differential		
	channels per	channels		
	card			
3	Bus Type	PXI Express		
4	ADC Resolution	16 bits		
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5	Sampling rate	Simultaneous sampling at rate of 10		
		MS/sec/channel or higher		
6	Input Impedance	$\geq 10 \text{ G}\Omega$ in parallel with input		
		capacitance ≤100 pF		
7	Input coupling	DC		
8	Input Voltage	$\pm$ 10V, $\pm$ 5V selectable		
	range			
9	Over voltage	±20 V or higher		
	Protection			
10	Input buffer	8k Samples or more		
11	Data transfers	DMA, Programmed IO		
12	External clock	Provision for external clock and		
	and External	external trigger for synchronous		
	trigger	operation		
13	Driver should be	Windows 10 or higher		
	compatible with			
	the Operating			
	system			
14	Mandatory	(1) Shielded connection box for		
	Accessories:	connection of acquisition		
		signals to DAQ Modules		
		(2) Shielded cables for connection		
		of modules to Connection box.		
3	Software Compatibility for above all DAQ hardware			
1		troller shall be equipped with		
	preinstalled operating system Windows 10 Professional 64 bit (English).			
2		ould provide programming language		
	1 2	compatibility for LabVIEW based software		
	development. The drivers of all the digitizers and			
	controller should be compatible with LabVIEW 2015 or			
	above with provid	led Windows 10 operating system.		
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Date:	Bidder's Sign and Stamp