

High Speed Balanced Photodetector		
A.	High speed photodetector specifications	
1	Operating Wavelength Range	1525 nm - 1570 nm
2	Bandwidth, 3-dB	upto 100 GHz
3	Maximum dark current	200 nA
4	Conversion Gain	>11 V/W
5	Peak Responsivity	>0.25 A/W
6	CMRR	≥14 dB
7	Saturation Power	≥ 10 mW
8	Maximum Safe Input	40 mW
9	Output Impedance	50 Ohm
10	Polarization dependent loss	<1 dB
11	Positive bias voltage	3.3 V
12	Negative bias voltage	-3.3 V
13	Operating temperature	0 ^o -75 ^o C
14	Input Optical Connector	SC/APC
15	Compatible Optical fiber	SMF-28
16	Mounting/soldering	Factory mounted/soldered Photodetector on Evaluation Board
17	Test Datasheet	Test datasheets before & after soldering on evaluation board
B.	Evaluation kit	
1	Components	Evaluation board suitable for mounting/soldering of BPD modules
2		Banana plugs set for laboratory access of BPD DC control lines
C.	Power supplies and Cables	
1	<ul style="list-style-type: none"> ● Power supplies suitable for Balanced photodetector and Evaluation board ● Optimized performance at high optical input levels ● Stable biasing voltage supply ● Front display ● Necessary electrical cables 	
D.	Suppliers should provide technical compliance including explanations without fail against each point given in the technical specifications for consideration of the offer.	
E.	Power requirement: As per Indian electrical standards (230V AC, 50 Hz)	
F.	Warranty: Standard warranty for 1 year from the date of installation. Vendor is also expected to provide the cost for extended comprehensive warranty until 5 years as an optional item.	
G.	standard Configurations will be required. NO CUSTOM BUILT SYSTEMS WILL BE ENTERTAINED	

Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified