



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

Ref. PR No. 1000057991

Rfx. No. 6100003155

Item Description: Technical Specifications for Digital to Analogue converter (2 Qty.)

Sr. No.	Item Description	Detailed Technical Specification	Technical Compliance	Additional Information (If any)
1	Number of channels	24		
2	Termination type	BNC		
3	Voltage	± 10 V and ± 2 V, Should be able to configure for each channel separately		
4	DC Voltage resolution	24 bits or better		
5	Current output	10 mA or better		
6	Current sensing	Every channel should be able to measure the sourcing/leakage current independently with a Current resolution of 20 pA or lower		
7	Output impedance	50 Ohms		
8	Output filter	Selectable, with a minimum cut off of 10 Hz, and maximum cut off of 300 kHz for each output channel		
9	Voltage Stability	± 2 μ V		
10	Voltage noise floor	10 nV/Hz ^{1/2} or lower at 100 Hz		
11	Sample rate	1 MHz or better		
12	Rise time	5 μ s or shorter		
13	Available wave forms on each channel	Sine, Square, Triangle. List anyother waveforms.		
14	Output frequency	250 kHz or higher		
15	Arbitrary waveform generator	One/channel		

Sr. No.	Item Description	Detailed Technical Specification	Technical Compliance	Additional Information (If any)
16	Computer interfacing, Control and automation	Should have LAN and USB interfaces. Should be able to control and automate using QCodes.		
17	Trigger options	Should have isolated trigger options for input and output		
18	Power requirements	Should operate on standard single-phase power outlets in the country. The offer should include any power adapters required to operate the unit.		
19	Formfactor	19-inch rack mountable.		
20	Warranty	1 year standard warranty after installation and commissioning.		