

## भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित सैक्टर 81,नॉलेज सिटी,प॰ ओ॰ मनोली, एस॰ ए॰ एस॰ नगर,मोहाली, पंजाब 140306 INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Established by Ministry of Human Resource Development, Govt. of India)
Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab
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IISERM (35-2)18/19 Pur

28th June 2018

## **Corrigendum-III**

Refer IISER Mohali E-tender Ref. no. IISERM (35-2)18/19 Pur for <u>Supply and Installation of Cryogenic cables-35-2</u> at IISER Mohali, Sector-81, Knowledge City, PO-Manauli, SAS Nagar Mohali, Punjab. Due date for the online submission is extended as with **below mentioned Technical Details**.

## **Revised Date and Time**

Sr.no.	Description	<b>Extended Due date/Time</b>
01	Closing Date & Time (Online)	09-07-2018 up to 11: 00 AM
02	Opening Date & Time of Technical Bid	10-07-2018 at 11:30 AM

All the other terms & conditions will remain same as contained in the NIT.

For any information, other modifications and/or corrigendum may kindly visit IISER Mohali websites http://www.iisermohali.ac.in & https://eprocure.gov.in/eprocure/app

Sd/-Mukesh Kumar Assistant Registrar (S&P)

## Items Details:-

Sr. No.	Specification	for Cryogenic cable		Quantity (in ft)		
1)	UT-085-SS					
	Semi-Rigid Coaxial Cable					
	Material:-					
	Outer Conductor 304-SS Diameter, inch (mm) 0.0865 +/- 0.001 (2.197 +/- 0.0254)					
	Dielectric PTFE Diameter, inch (mm) 0.006 (1.676)					
	Center Conductor 304-SS Diameter, inch (mm) 0.0201 +/- 0.0005 (0.511 +/- 0.0127)					
	Electrical Pro	perties:-				
	Impedance, of	nms 50				
	Frequency Rar	nge DC to 60GHz				
	Capacitance, p	F/ft. (pF/meter) 29.3 (96.1)				
	Typical Insertion Loss					
	Frequency	Insertion Loss, dB/ft. (dB/meter)	Average Power			
		at 20°C and Sea level	Handling			
	0.5Ghz	0.89 (2.92)	52.4			
	1.0Ghz	1.26 (4.13)	37			
	5.0Ghz	2.84 (9.32)	16.4			
	10.0Ghz	4.04 (13.25)	11.6			
	20.0Ghz	5.76 (18.90)				
		Corona Extinction Voltage, VRMS @ 60 Hz 1500(approx)				
	Voltage Withstand, VRMS @ 60 Hz 5000(approx)					
	Outer Conductor Integrity Temperature, °C 225					
	Maximum Operating Temperature, °C 225  Maximum Operating Temperature, °C 200					
	тапторе	Zi	00			
1	UT-34C			10		
	Semi-Rigid Coaxial Cable					
	Material:-Outer Conductor Copper Diameter, inch (mm) 0.034+/-					
	0.001 (0.864+/-0.0254)					
	Dielectric PTFE Diameter, inch (mm) 0.025 (0.635)					
	Center Conductor SPC Diameter, inch (mm) 0.0159+/-					
	0.0005 (0.404+/-0.0127)					
	Electrical Properties:-					
	Impedance, ohms 17+/-1.0					
	Frequency Range DC to 128GHz					
	Capacitance, pF/ft. (pF/meter) 85.4 (280)					
	Typical Insertio	• •				

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	Frequency	Insertion Loss, dB/ft. ( at 20°C and Sea level	dB/meter)	Average Power Handling			
	0.5Ghz	0.62 (2.03)		27			
	1.0Ghz	0.88 (2.88)		19			
	5.0Ghz	1.99 (6.52)		8.4			
	10.0Ghz	2.83 (9.30)		5.9			
	20.0Ghz	4.06 (13.31)		4.1			
	Corona Extinct						
	Voltage Withst	1 - 1					
					1		
	Outer Conductor Integrity Temperature, °C 175						
	Maximum Ope	Maximum Operating Temperature, °C 150					
3)	Thermocoax ca	able			25		
	Properties of t	he cable					
	Type 1NcAc						
	outer diameter d=0.5 mm						
	a central wire d1=0.17 mm diam made of NiCr (80/20)						
	a room temperature resistivity p,=1.08 m.						
	The surroundin	ig jacket with an inner d	iameter d2=0	.35 mm is made of			
	stainless steel (	type 304L).					
	The space between the conductors, of a thickness (d2—d1)/2 =90um, is						
	filled with highly compacted mineral powder (MgO) and its leakage at low						
	temperature is negligibly small.						
	Frequency	attenuation					
		dB/m					
	10Mhz	10					
	100Mhz	20					
	20Ghz	50					

