

SECTION-C

Tender no. IPR/TN/PUR/ET/19-20/38 dated 19/11/2019 Specification of Liquid Helium Supply

Sr No	Specification	Requirement	Vendors Comment
1	Type of fluid	Liquid Helium (LHe)	
2	Purity	99.99%	
3	Operating pressure and temperature	~ 1.0 bar (a) and 4.2 K	
4	Quantity	4500 Liters	
5	Mode of Delivery	Staggered delivery on requirement basis.	
Other Requirements			
6	Supply of LHe should be flexible and it should be supplied as per IPR requirements. IPR requirement can be any quantity from 250 liters to 1000 liters at a time. The vendor can supply the liquid helium in safe transportable LHe container (Dewars) of standard size of 250liter or 350 liters. (Transport safety as per Cryogenic handling / transportation norms)		
7	Each Dewar will be supplied along with the filled He gas cylinder (01 no., 7 m ³ capacity, 99.99% pure He gas) and appropriate fittings and couplers for transfer purpose.		
8	Transportation for filled Dewar to IPR and carrying empty Dewar from IPR will be in party's Scope		
9	The net weight of the LHe will be measured at IPR site and the suppliers should bear the amount of LHe evaporation during the transportation.		
10	IPR will normally retain the Dewar and gas cylinder for 21 days, The vendor need to specify the rent of Dewar including the helium gas cylinder after 21 days.		
12	This quantity is indicative and actual requirement may vary.		
13	Frequency of the delivery may vary as per the need.		
14	Quoted rates should be valid for 12 months from the date of purchase order.		