PS GSG 73		Specification	No.	PSGSG- 073			
_		for	Date:	17.12.21			
			Product:	General			
		Insulating Gas for GIS	Sheet:	1/2			
1.0	1.1	General Description: This specification governs the technical requirements of Insulating Gas filled and stored in cylinders.					
2.0	2.1	APPLICATION: The Gas shall be blended with Co2 and O2 and used as an insulating medium for T&D high voltage equipment. This equipment can be Gas Insulated circuit breakers and Gas insulated power equipment.					
3.0	3.1	Quantity: 1 No of Cylinder (Each Cylinder Contains approx.11.30 Kg of Insulating Gas)					
4.0		General properties :					
	4.1	Chemical Name: Propanenitrile, 2,3,3,3-tetrafluoro-2- (trifluoromethyl)					
	4.2	Chemical Formula: iso-C3F7CN					
	4.3	Purity : Fluid should have purity >99.0 % by wt.					
	in gaseous state or in liquid						
	4.5	Moisture : The moisture content in the fluid should be less than 200.0 ppm(v/v).					
	4.6 Gas Cylinders : Gas shall be supplied with NEW cylinders and valves manufactured and inspected by the approved suppliers/inspection agencies						
	4.7	Compatibility: Gas Should be compatible with Epoxy, Copper, Aluminum, Stainless Steel and other GIS material.					
	4.8	s from the date of erial and stored at room					

PS GSG_73	Signature:	
	Date:	

5.0		TECHNICAL:				
	5.1	The Gas should have following phys				
		Property	SI Unit			
		Molecular Weight	195 g/mol			
		Flammability in air	Non-Flammable			
		Boiling Point	-4.7°C			
		Freezing Point	-118°C			
		Ideal Gas Density at 1 bar	7.9 kg/m³ (at 1 bar)			
		Vapor Pressure	297 kPa			
6.0		DOCUMENTS TO BE SUBMITTED WITH QUOTATION:				
		In order to make a preliminary assessment as to whether the gas cylinders will				
		meet the regulations of the Departme	~ ·			
		_	all submit a SAMPLE set of documents as			
		listed below along with the quotation				
	6.1	Specification to which the carrier gas cylinders are manufactured and the name				
		and address of the manufacturer.				
	6.2	Record of chemical analysis of the material used for the cylinders.				
	6.3	Record of Physical tests of the material used for the cylinders.				
	6.4	Specifications to which the valves are manufactured.				
	6.5	Filler's certificate indicating filling ratio at which each cylinder has been filled.				
	6.6	Name and address of the manufacturer of gases and record of tests conducted to				
		A statement in duplicate showing the	e serial number of the cylinders.			
7.0	7.1	DOCUMENTS TO SUPPLIE	D BEFORE SHIPMENT :			
		1. Chemical Composition Report.				
		2. Purity report of the fluid.				
		3. Moisture content report of the Gas.				
		4. Weight of the gas in each cyl				
8.0		MARKING:				
	8.1		nder shall be durably and legibly marked			
			ess with the following, preferably at the va			
		end and off the cylindrical part.	<i>U</i> , 1			
	8.2	Other Markings: Each cylinder shall be marked by stamping, engraving or simila				
	0.2	process with the following details:				
		a) Manufacturer's mark.				
		b) Inspection agency's mark				
		c) Rotation No. (Serial No.)				
9.0		SHIPMENT:				
	9.1	Cylinders can be shipped on the deck	k in conformance with shipping regulations			
		1				
10.0	10.1	Guarantee: Against faulty material and workman				

PS GSG_73	Signature:	
	Date:	