## Compliance sheet

SL.No.	Description		Compliance Status
1	Wrought Nickel-Iron Soft Magnetic alloy		
2	Specification Standard	– ASTM A 753-21	
3	Alloy type (UNS No.) : N14080		
4	Supply Condition – Hot machined		
5	Sizes and quantities required		
	Ø 130 mm x 500 mm- 8 nos		
	Ø 140 mm x 500 mm- 3 nos		
	CHEMICAL COMPOSITION (wt %ge)		
	Mn (max)	0.8	
	Si (max)	0.5	
	C (max)	0.05	
r.	Мо	3.5-6	
	Ni	79-82	
6	Cu (max)	0.3	
	P (max)	0.02	
	S (max)	0.01	
	Cr (max)	0.3	
	Co (max)	0.5	
	Fe	remainder	
7	MECHANICAL & MAGNETIC PROPERTIES		
	Yield strength (Y S)	220 MPa	

	Ultimate Tensile Strength (U T S)	580 MPa	
	Percentage of Elongation (% El) (in 50 mm)	40	
	Max permeability	1,75,000	
SL.No.	De	Compliance Status	
8	100 % Ultrasonic Inspection as per AMS 2630 E Class A1 (For Dia > 12.5 mm)		
9	ASTM E1019 test methods should be used for determination of Carbon and Sulphur content.		
10	ASTM A773/A 773M test method should be used for dc Magnetic properties test.		
11	Other tests: Visual exa inspection to be comple		
12	Material should be Iron equivalent grade a mentioned in Annexur source/manufacturer o		
13	Party should supply reputed manufacturer warpage within a perio order.		
14	Material should be supp machined condition to as mentioned in Annex		
15		nical properties, magnetic nic inspection etc. tested by third party agency should be	
16		es of mill certificates and third to IISU for verification & spatch of the item.	
	Report to be submit → Dimensional rep		

	<ul> <li>Mechanical properties test report</li> <li>Chemical composition test report</li> <li>Magnetic permeability test report.</li> <li>Non –destructive testing (Ultrasonic)</li> </ul>	
17	Each of the above report shall contain the information like, Purchase order No. and date, Material, Heat /Lot No., Size, Quantity, Supply Condition etc.	
18	<ul> <li>Identification and marking: Material shall be marked or engraved with the following information:</li> <li>&gt; Alloy designation and supply condition</li> <li>&gt; Heat No., Batch No and identification Number</li> <li>&gt; Size and quantity</li> <li>&gt; Manufacturer/supplier name</li> </ul>	