Ĭ	बीएग ई ए	PLANT	PURCHA	ASE SPECIFIC	ATION	FF 05064 Rev02				
13670		PPUR_SDC		- HARDWAR)						
						Page	1 of	3		
			<u>FE</u>	RRO NIOBIUM						
	1. SCOPE									
	This specification governs the quality of Ferro Niobium with the following requirements.									
Limited. It must be company	 2. APPLICATION The material shall be used as alloying addition for the melting and refining of special alloy steel. 3. CONDITION OF DELIVERY The size should be in the range of 10-50 mm. However oversized material should not exceed 10% by weight and undersize material should not exceed 5% by weight. 									
AND CONFIDE::AL e property of Bharat Heavy Electrical Limited.It m usy way detrimental to the interest of the company	 4. COMPLIANCE WITH NATIONAL STANDARDS The specification in general is based on Indian standards specification IS 3014-1993 (Reaffirmed 1999), Grade: FeNb65. 5. FREEDOM FROM CONTAMINATION The material shall be free from extraneous contamination such as slag. 									
ND Coperty o										
	6. CHEMICAL COMPOSTION									
RIGF uments udirectly	The material shall conform to the following chemical composition when it is analyzed in accordance with any national/international method. The sampling shall be done as per									
COPYRIGHT n this documents is the ectly or indirectly in a	IS: 1472.									
_ o.≌		13. 1472.								
The information not be used d		ELEMENT	9/0	MIN	%MA	X				
The		Niobium		60	70					
	Tantalum			-	0.5					
		Aluminium		-	2.0					
		Silicon		-		4.0				
1		Titanium		-		1.0				
		Carbon		- 0.3						
		Phosphorus Sulphur Tin		-		0.1				
				-	0.05			•		
		Iron		-	Balan	ce				
				,	77-		<u> </u>	-		
	RMI	S.N.GHOSH		WORKED BY	M.K.SAHU RANJAN		12 Little	the _		
	MPIC CHAIRMAN	SHANTANU R.PARTHASARATHY	TIMMI	CHECKED BY SECRETARY	Dr.M.S.RAWAT		tog var	\$108/1°		
	CPSC		180810	APPROVED: PLAN	T STANDAR	RDS COM	MITTEE	012-1		
				PREPARED By: SMS TECH	ISSUED : Steel M	elting Shop	DATE	:18/08/10		

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		Page	2	of 3			
COPYRIGHT AND CONFIDE. of TAL. The information on this documents is the property of Bharat Heavy Electrical Limited it must not be used directly or indirectly in any way detrimental to the interest of the company	 7. INSPECTION CFFP reserves the right to witness the testing of the material at supplier work CFFP or by CFFP authorized representative (including any Third Party Insp therefore the supplier shall notify the readiness of the material in advance. CFFP may, at its discretion, test the material after receipt and acceptance of twill be based on the CFFP's test results. For any deviation from this specification prior approval shall be taken by the serior result of analysis and properties of material the decision of CFFP shall be binding on the supplier. 8. TEST CERTIFICATES One Original and three copies of Test Certificate from the Manufacturer containing following information along with test result of clause 3,5 and the chemical compose as per clause 6 should be provided. Manufacturer's Name 						
•	b) Any other supplier should provide a covering letter along with Manufacturer's TC as above mentioning BHEL's P.O. No. an 9. PACKING AND MARKING The material shall be packed & sealed in Tamper Proof Metallic drum deterioration in quality during handling, transport and storage. It should packing. Each package should be marked with the following details. Name of the material Manufacturer's Name / Trade mark Batch/Lot No. Net weight. 10. REFFERED STANDARDS IS: 3014-1993, IS: 1472.	d Challan	o preve				
	WORKED BY RANJAN CHECKED RANJAN	Rand	In Jan	18/8/10			
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				REVISION	RECORD SHEET			
		SN	Revision No.	Revision date	Nature of Char	Changes		
		01.						
COr - RIGHT AND CONFIDENTIAL. Bhant Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of	the company	02.	02	18.08.2010	 Clause 3: Size Range redefined. Clause 4: The specification was made in the year 2004 based on IS 3014-1965 Grade 02 FeNb 55. This has been changed to IS 3014-1993 Grade FeNb65. Clause 6: Chemical composition redefined based on IS 3014-1993. Sampling as per IS1472. Clause 8: Clause 5 included in T.C. Clause 9: Tamper Proof Metallic drum incorporated. 			
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