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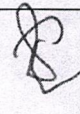
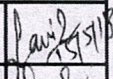
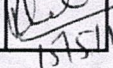
BHEL भारतीय विद्युत निगम	संस्थान क्रय विनिर्देश (सी एफ एफ पी) PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)	FF06031 Rev02 पृष्ठ का Page 1 of 3
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SUBSIDIARY NO सामग्री सूची संख्या INVENTORY NO COPYRIGHT AND CONFIDENTIAL The information on this document 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.	1.0 General This Specification governs the quality requirements of Cobalt alloy #6 ingots.																																	
	2.0 Application The Ingots shall be remelted to make Castings																																	
	3.0 Compliance with National & International Standard There is no equivalent known national standard. References has been drawn from Cobalt alloy #6 under SAE AMS 5387 specification.																																	
	4.0 Properties 4.1 Chemical composition <table border="1"> <thead> <tr> <th>Element</th> <th>% minimum</th> <th>% maximum</th> </tr> </thead> <tbody> <tr><td>Carbon</td><td>1.0</td><td>1.15</td></tr> <tr><td>Chromium</td><td>26.0</td><td>30.0</td></tr> <tr><td>Tungsten</td><td>3.5</td><td>5.5</td></tr> <tr><td>Silicon</td><td>-</td><td>2.0</td></tr> <tr><td>Iron</td><td>-</td><td>3.0</td></tr> <tr><td>Nickel</td><td>-</td><td>3.0</td></tr> <tr><td>Manganese</td><td>-</td><td>1.0</td></tr> <tr><td>Molybdenum</td><td>-</td><td>1.0</td></tr> <tr><td>Trace Elements</td><td>-</td><td>0.1</td></tr> <tr><td>Cobalt</td><td>-</td><td>Remainder</td></tr> </tbody> </table>	Element	% minimum	% maximum	Carbon	1.0	1.15	Chromium	26.0	30.0	Tungsten	3.5	5.5	Silicon	-	2.0	Iron	-	3.0	Nickel	-	3.0	Manganese	-	1.0	Molybdenum	-	1.0	Trace Elements	-	0.1	Cobalt	-	Remainder
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4.2 Size & Shape The ingots can be in form of cuboids having length 150-250 mm, width 70-100 mm and thickness 70-100 mm. Alternatively, the ingots can also be in form of rounds of Dia 70-100 mm and length 150-250 mm.																																		
4.3 The Ingots should be free from slag, dross, gas holes, pin holes and other harmful defects.																																		
5.0 Acceptance The material shall be accepted on the basis of TC and GC given by the supplier. However BHEL shall check the properties as per Clause No. 4 on surveillance basis.																																		

SIGN & DATE सहमत विभाग Agreed Deptt	Chairman PSC RMI LF	Dr. MS Rawat S N Ghosh M Javed	अनुवादक TRANSLATED BY निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY	Tushar Dave
	अनुमोदित APPROVED BY स्विकृति : संस्थान मानक समिति APPROVED : PLANT STANDARDS COMMITTEE			
	निर्माण: PREP: FOUNDRY TECH जारी: फाउंड्री प्रौद्योगिकी ISSUED : FOUNDRY TECHNOLOGY दिनांक DATE 15.5.18			

दिनांक, वेतन, प्रमाण SIGN & DATE		संस्थान क्रय विनीर्देश (सी एफ एफ पी) PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)	FF06031 Rev 02				
समूची सूचित वस्तु INVENTORY NO	SUPERSEDES INVENTORY NO	पृष्ठ का Page 2 of 3					
COPYRIGHT AND CONFIDENTIAL The information on this document 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.		6.0 Inspection, Deviation and Replacement 6.1 BHEL reserves the right to inspect the material at site before despatch. The supplier shall intimate in advance, enclosing a copy of Test Certificate of the material offered for inspection. The supplier shall extend all reasonable test facilities to BHEL representative without any charge to satisfy the later, that the material is being furnished in accordance with this specification. If the facilities are not available at supplier's works, he will make necessary arrangement for testing elsewhere without any cost. 6.2 If the material received at CFFP is found not in accordance with the specification, it shall be rejected and supplier will have to replace it free of cost at the earliest. 6.3 For any deviation from the specification demanded by the supplier prior approval of BHEL must be obtained in writing.					
		7.0 Test Certificate 7.1 Unless otherwise specified, one original and three copies of original manufacturer's test certificates shall be supplied with each consignment bearing the following information. In order to facilitate quick clearance of material, the supplier shall ensure to send a copy of test certificate along with despatch document: a) BHEL PO No. with Date b) Specification No. c) Supplier reference d) Identification No. / Batch No. e) Date of manufacture f) Properties as per Clause 4 g) Any other specific information which the supplier would like to convey. 7.2 Suppliers other than the original manufacturer shall ensure providing original manufacturer's test certificates with linkage to supplier's invoice stating the batch No., lot No., etc of the supply.					
इस प्रालेख में दी गयी सूचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है। इसका प्रालेख एवं अंतर्लक्ष रूप में किसी भी तरह प्रयोग, जो की कंपनी के हित में नहीं है, न किया जाये।		8.0 Packing The material should be packed in 50 Kg. wooden crate to avoid damage during transport and storage. The packing should be that of original manufacturer. Each consignment should bear: i) Name of the product with supplier's name and Monogram ii) Gross weight and Net weight iii) Date of Manufacturing and Batch No. iv) BHEL PO NO.					
		<table border="1"> <tr> <td>समूची सूचित वस्तु INVENTORY NO</td> <td></td> <td> निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY </td> <td> Lavin Agrawal R Lakra </td> <td> Date: 15/5/18  </td> </tr> </table>			समूची सूचित वस्तु INVENTORY NO		निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY
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FORM NO. 001 SUS & DATE		संस्थान क्रय विनीर्देश (सी एफ एफ पी) PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)		FF06031 Rev 02		
				पृष्ठ का Page 3 of 3		
REVISIONS REV. NO. DATE	RECORD OF CHANGES					
अनुमोदित करी (a) अधिकृत अधिकारी						
COPYRIGHT AND CONFIDENTIAL The information on this document 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.	REV CODE	NO. OF CHANGES	Nature of change	SHEET NO.	SIGN	DATE
	01	2	Clause 7 and 8 modified to incorporate original manufacturer's test certificate and packing condition	2		4.9.2009
	02	2	Description of material modified to generic name. Equivalent international standard mentioned in Clause 3 Option of cylindrical shape of ingots added in Clause 4.2	1		15.5.2018
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	RMI					
दिनांक 08/05/2018 SIGN &	STANDARD SECTION					
	MPIC					
अनुमोदित करी INVENTORY NO.				निर्माणकर्ता WORKED BY	Lavin Agrawal	
				जांचकर्ता CHECKED BY	R Lakra	

15/5/18