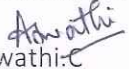
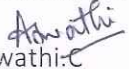
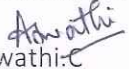


		 A4 -10	PURCHASE SPECIFICATION DECOUPLING REACTORS		PS/408/111 Rev. No. 01 Page 1 of 5						
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			<table border="1"> <tr> <td colspan="3" data-bbox="758 1691 1468 1848"> APPROVED BY: R.RUKMANI  </td> </tr> <tr> <td data-bbox="758 1848 1077 1993"> PREAPARED BY  Aswathi: </td> <td data-bbox="1077 1848 1276 1993"> ISSUING DEPT. CE-GCE </td> <td data-bbox="1276 1848 1468 1993"> DATE 30.12.2019 </td> </tr> </table>			APPROVED BY: R.RUKMANI 			PREAPARED BY  Aswathi:	ISSUING DEPT. CE-GCE	DATE 30.12.2019
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			PURCHASE SPECIFICATION DECOUPLING REACTORS	PS/408/111
				Rev. No. 01
		A4 -10		Page 2 of 5

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	Sl.no	Technical particulars
	1.	Rated Current of reactor
	2.	Voltage Drop
	3.	Ambient Temperature
	4.	Humidity
	5.	Short Circuit Rating
	6.	Short Circuit Duration
	7.	Mechanical Construction
	8.	Number of turns
	9.	Varnish & Insulation
	10.	Impregnation
	11.	Conductor material
	12.	Interturn insulation
	13.	Banding Material
	14.	Technical supply conditions
	15.	Routine tests
	16.	Special test
	17.	Type test
		Requirement
		700A
		2.56V +/- 2.5% at 700A under cold condition.
		50 deg. C
		100% tropical
		60 KA peak and approximately 24kA r.m.s value
		Total duration 0.5 secs
		As per BHEL-EDN drg. 2-653-98-10014
		9.75
		Class C materials shall be used
		Reactor shall be impregnated with class C silicone varnish
		Electrical grade copper to BHEL standard : AA12007
		As per annexure-1
		As per annexure-1
		As per annexure-1
		For format refer Annexure-2.
		Temperature rise test shall be done on 2% of qty / min 1 no. For format refer Annexure-3
		Short circuit test to be carried out in government recognized laboratories, before manufacturing the entire quantity, if not done earlier.

			PURCHASE SPECIFICATION DECOUPLING REACTORS	PS/408/111
				Rev. No. 01
				Page 3 of 5

A4 -10

		Annexure - 1 Technical Supply Conditions for Decoupling Reactors	
		1. The reactor shall not be tinned. 2. The reactor terminals shall be clean and free from lacquer or burr. 3. The inner terminal of the reactor shall be checked with a template to ensure that bus bar of size, 10 x 80 can be connected to the inside terminal and that the holes are at proper place. The inner terminal shall be flat and smooth, over the entire length of dimension 80mm. When joined to a bus bar, there shall be no gaps, to ensure minimum contact resistance at the joint. The inner terminal shall pass through the reactor centre point. 4. Inner and outer terminals to be at right angles 5. The specification of banding material : RES-I-GLAS Type no. : B-0822F Dimension: 25.4 x 0.275 mm Supplier: INDUSTRIAL TAPES & FABRICS PVT. LTD. 1/1 VANSITTART ROW, III FLOOR, KOLKATA, Pin : 700001. If other makes are planned to be used credentials to be furnished to BHEL for approval 6. The specification of inter turn insulation & varnish 4 Layers of Impregnated fibre glass cloth Class of insulation for impregnation : C Cross section: 5 mil x 68 SQ. mm 7. The following information shall be marked by punching on each reactor starting from the point X in the drawing: 2-653-98-10014: (i) The supplier code, followed by a four-digit serial number of the reactor. (ii) Nominal value of the inductance in micro Henries (e.g 11.6 uH) 8. The punching shall be done across the copper strip as shown in the drawing. 9. The supplier shall maintain a running serial number for the reactor supplied to Electronics division of BHEL. 10. Packing shall be such that there is no transit damage to the reactor terminals and the insulating material. The delivery of reactors in each batch shall be in multiples of six. 11. The supplies of every batch of reactors shall be accompanied by test reports containing the results of test conducted as per this specification. 12. The test results shall be furnished in the format given in annexure 13. Supplier shall furnish test certificate for the copper used for each lot as per the requirements of BHEL Corporate Standard AA 12007.	

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Annexue-3

TEMPERATURE RISE TEST REPORT

Customer: _____

Date of testing: _____

Product : Air core reactor

P.O. Number : _____

Drg.No.: _____

Code no.: _____

Current passed : _____

Time	Temperature Observed deg C	Ambient deg C

Temperature rise after stabilization : _____deg C

Tested by

Approved by