

हस्ताक्षर	बीएम ईएम	उत्पाद	क्रय विनिर्देश		CG 59612 पृष्ठ का				
ं. दिनांक एवं हस्ताक्षर ९८२४ १. घरम	BHI	PRODUCT PURC	HASE SPECIFIC	CATION	Page 1 of 7				
SUPERSEDES INVENTORY NO.					D ON BHEL XPERIENCE				
सामग्री सूची संख्या को अधिक्रमित करता		TECHNICAL	SPECIFICAT	ION .					
ENTIAL y of Bharat Heavy r indirectly in any			FOR						
PYRIGHT AND CONFIDENTIAL mation on this documents is the property of Bharat H Limited It must not be used directly or indirectly in way derrimental to the interest. of the company	3	CURRENT TRANSFORMERS							
COPYRIGHT AND CONFIDENTIAL 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		(PROTECTIO	N & METERI	NG)					
ग्नीय हेवी इलेक्ट्रिकल्स की ं क्षि एवं									
स्वत्वाधिकार एवं गोपनीय दी गई सूचना भारत हेवी सम्पत्ति है इसका प्रत्यक्ष ए									
स् इस प्रलेख में दी सम्									
एवं दिनांक & DATE			<i>F</i>	नाम NAME	दिनांक एवं हस्ताक्षर SIGNATURE & DATE				
हस्ताक्षर	QAX TSX		अनुवादक TRANSLATED BY निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY	Manju Azad Vineet Jain	,				
सामग्री सूची संख्या INVENTORY NO.	सहमत विभाग AGREED DEPTT.	नाम दिनांक एवं हस्ताक्षर NAME DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY स्वीकृति	B.R.Dhingra					
सामग्री INVEN	REV.NO.		APPROVED : A.K.Jain निर्माण : PREPARED :	ज़ारी : ISSUED :	दिनांक : DATE :				



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SIGN & DATE	मी एवा ई एम सिक्ष	PRODUCT PURCHASE SPECIFICATION	ਧੂਬਰ Page	2	का of								
DES													
सूची	1.0	SCOPE											
	a.	~											
COPTRIGHT AND CONFIDENTIA		Current transformers to be used for 800/1000 MW generator during tes	sting.										
COPTRIGHT AND CONFIDENTIA	b Deviations, if any, should be brought out very clearly along with the offer, otherwise it will												
2 8		be presumed that the offer is in line with what has been stated/asked for											
नापनाय सूचना भारत सम्पत्ति है एवं				1									
स्वलाधिकार एव गापनीय इस प्रलेख में शे गई सूचना ^भ हेवी इलेपिट्रकल्स की सम्पत्ति इसका प्रत्यक्ष एवं													
	2.0	COMPLIANCE WITH NATIONAL STANDARDS:											
इस हेर्व		Current transformers shall generally comply with IS: 2705 Part-Revision) with specific requirements as per this specification.	I to Part-	·IV (Lates	it							
	3.0 TECHNICAL REQUIREMENTS												
	3.1 The detailed technical parameters of CT's required are given in Annexure –A.												
	3.2												
	3.3	System Voltage 36 KV (Unearthed neutral system) and Frequency 50 Hz ± 5%.											
	3.4	Continuous operation Duty at specified System Voltage and Frequency.											
वं ।दनांक DATE	3.5	Mounting in Vertical / Horizontal position.											
हस्ताक्षर एवं SIGN &	3.6	Class "F" insulation with temperature rise limited to 70°C over an ambient temperature											
		of 50°C as specified in IS: 2705 (Part- I).											
	3.7 Accuracy Class as per Annexure-A.												
			,										
सामग्री सूची संख्या INVENTORY NO	REV.NO.	निर्माणकर्ता Manju WORKED BY Azad			T								
सूची ITOR		जांचकर्ता Vineet CHECKED BY Jain	_		+								



	Aug Fug		उत्पाद क्रय विनिर्दे	श		CG 59	612
	मीएम ईएल सिंद्राहर	PRODUCT	PURCHASE SPI	ECIFICA'	ΓΙΟΝ	पृष्ठ Page ³	का of
DES							
स्मित्र	3.8		els (i.e. Highest Syste mpulse withstand Volta ified system voltage.			-	
COPYRIGHT AND CONFIDENTIA	3.9	Short circuit level is 1	3.1 kA for 1 sec.				
	3.10		meters like System V Excitation Current at kr				
स्वलाषिकार एव गापनाथ इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एवं	3.11	7	ensions of CT1 and CT2		specified in t	he Annexur	e - B.
इस प्रले हेवी इ	3.12	Earthing as per IS: 27	05 (Part- I).				
	4.0 4.1 4.1.	• •	shall be carried out in a or these tests are also a				
हस्ताक्षर एवं विनाक SIGN & DATE	4.1.	.2 Lightning Impulse on a prototype CT corresponds to hig	Test shall be carried out. In case the insulation ther voltage level, the Lage level shall be accept	at correspond level of the ightning Imp	CT's provide	ed by the si	applier
	4.2	Routine Tests: All Current Transfor	mer's shall be subjected	to Routine T	ests as per IS	: 2705	
सामग्री सूची संख्या	REV.NO.			निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY	Manju Azad Vineet		

ш		उत्पाद क्रय विनिर्देश	CG 59612
SIGN & DATE	भी एम ई एल स्रोता	PRODUCT PURCHASE SPECIFICATION	पृष्ठ का Page ⁴ of
DES	4.3	WITNESS:	
संस्था संस्था		BHEL reserves the right to witness Type/Routine tests at vendor's information shall be given by the successful vendor.	s work, for which prior
COPYRIGHT AND CONFIDENTIA I	5.0	RATING PLATE / DESGINATION:	
CON		Rating Plate as per IS: 2705 shall be provided on each Current Tra	nsformer.
फी हित		Following indications shall be provided on the rating plate:	
क्ट्रकल्स व कंपनी के		CT Ratio, Minimum Knee Point voltage (V _k), Maximum Magne	tizing Current at knee
रवं गीपनीय भारत हेवी इली हा प्रत्यक्ष एवं प्रयोग, जो कि		point voltage, Secondary Resistance at 75°C and Mounting Dimen	sions.
स्वत्वाधिकार । में दी गई सूचना सम्पति है इसव् से किसी भी तरह	6.0	PACKING & DISPATCH	
लेख स्त्र		(i) CTs shall be despatched with secondary shorted by Copper(ii) CTs shall be packed in wooden boxes ensuring their safe tra	
इस प्र अप्रत्यक्ष		ansportation.	
.		(iii) Each wooden box shall bear the following information:-a) Purchase Order No.	
		a) Purchase Order No.b) Net and Gross weight	
		c) Indication of top of box.	
		d) Caution sign against over turning	
		e) Sign showing precision instrument on top	
		f) Code No	
		(iv) Packing list shall be enclosed in the wooden box specifying	no ·
दिनांक DATE		a) Manufacturer's Name and Trade mark.	
हस्ताक्षर एवं दिनांक SIGN & DATE		b) Designation of CTs and their Sl.No. against each typ	pe.
		A Property of the second secon	
सूची	REV.NO.	निर्माणकर्ता Manju WORKED BY Azad	
सामग्री र संख्या		जांचकर्ता Vinee	t

SIGN & DATE		उत्पाद क्रय विनिर्देश	CG 59612				
N & DA	तीएम ईएम 		पृष्ठ का				
	HIJJEL	PRODUCT PURCHASE SPECIFICATION	Page 5 of 7				
DES	7.0	TEST CERTIFICATE:					
सूची	, , ,	The entire test certificate shall be having the following information.					
		BHEL order No.					
AND CONFIDENTIA I		> Specification No,					
AND ONFIDENTIA	*	Supplier's Name					
CON	8	Details of CTs					
-		> Test results of all Type Tests & Routine Tests mentioned at Sl.	No.4.0				
्य गाउँ भारत गई सूचना भारत १ की सम्पत्ति है त्यक्ष एवं		4 copies of Test certificates as per requirement of Sl.no.4.0 sha along with the supplies.					
स्पत्नामिकार ६५ इस प्रलेख में दी गई । हेवी इलेक्ट्रिकल्स की इसका प्रत्यक्ष		 Dimensional Observation 					
इस प्रले हेवी इ	8.0	Documents /Drawing to be furnished along with the offer					
	0.0	The offer should be complete with technical data, catalogue, brochure	20				
		and drawings as applicable.					
		Detailed Dimensional drawing for each type of current transformer along					
			long				
		with the disposition and size of terminals.					
		4 Copies of the type test certificates.					
		Mounting arrangement drawings for CT3, CT4.					
F		Calibration Certificate for each type of the CT.					
वं दिनांक DATE							
हस्ताक्षर एवं SIGN &	9.0	LIST OF REFFERED STANDARDS:					
SIG		IS: 2705					
100							
च	REV.NO.	निर्माणकर्ता Manju					
सामग्री सूची ख्या		WORKED BY Azad जांचकर्ता Vineet					
संख्या	1	CHECKED BY Jain.					

TE		Alv	ग ई एम	T		ਦ	त्पाद क्रय	विनिर्देश			CG 59	9612
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INVENTORY NO.		ı							T		ANNE	XURE-A
\$ anc			Remarks	1	For Generator		For Generator (Neutral side)		Aux CT's for Generator / Neutral			
सामग्रा सूचा सख्या अधिक्रमित करता			$V_{ m kp}$		200 R _{CT} + 200V		200 R _{CT} + 200V		> 80V			
DENTIAL property of troot be used to the interest			I _{EX}		500mA at V _k		500mA at V _k		<pre>5 250mA at V_k/2</pre>			
COPYRIGHT AND CONFIDENTIAL. The information on this documents is the property of Bhaza Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest	of the company		Insulati on level		70/ 170KV	70/ 170KV	70/ 170KV	70/ 170KV		1	-	
YRIGHT A information on the arat Heavy Electric y or indirectly in	of		VA Burde		1	100		100		40	40	
	피		Acc. Class		PS	0.1	PS	5P15	PS	5P15	0.1	
	के हित में हानिकारक हो		System Voltage		36KV Unearthed Neutral system	36KV Unearthed Neutral system	36KV Unearthed Neutral system	36KV Unearthed Neutral	V099	Λ099	Λ099	340
स्वत्वाधिकार एवं गोपनीय ाना भारत हेवी इलेक्ट्रिकल प्रत्यक्ष एवं	अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी		Purpose		Protection	Metering	Protection	Protection	Protection	Protection	Metering	
स्वत् गई सूचना	ो भी तरह		C	ou u	-	7	-	2	-	_	-	
इस प्रलेख में दी	मप्रत्यक्ष रूप से किस		Rating		30000- 20000/20 /20A		30000- 20000/20 /20A		20/5A	20/5A	20/5A	
हस्ताक्षर एवं दिनांक SIGN & DATE	٠		Designation		CT 1. ZGMF16620038	,	CT 2. SGMF16620046		CT 3. ZGMF16620054	CT 4. ZGMF16620062	CT 5. ZGMF16620100	
बी संख्या RY NO.		REV.	NO.						निर्माणकर्ता WORKED BY	Manju Azad		
सामग्री सूची संख्या INVENTORY NO.									जांचकर्ता CHECKED BY	Vineet Jain		

E E	उत्पाद क्रय विनिर्देश					CG 59612		
SIGN & DATE	nthu .	DUCT	PURCHASI	SPECIFICAT	ΓΙΟΝ	पृष्ठ Page	का ⁷ of	
SUPERSEUES INVENTORY NO.	DIMENSIONAL D	ETAILS:	(FOR CT1 and C	CT2)		ANI	NEXUR	EE
सामग्रा सूचा सख्या का अधिक्रमित करता है	Generator Data:		800MW		1000M	(W		
-	Rated Voltage: Rated Stator Curre	nt:	27KV 20126 Amp		27KV 25157	Amp		
ND CONFIDENTIAL documents is the property of I Limited It must not be used y way detrimental to the interest e company	Rated Power Factor	or:	0.85(lag)		0.85(la			
स्वत्ताषिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हैवी इलेक्ट्रिकल्स की सम्पत्ति है इसका The information on this Bharat Heavy Electrica अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न	Inner diamCentre to 0	and weighter not lead to the control of termination	ht to be indicated ess than 300mm tance b/w 2 bush nal as per figure	in the offer.	Wormgo HOTGAS	ssoude 810, 2		
हस्ताक्षर एवं दिनांक SIGN & DATE		UI {	U2.	V2 V1 950				
सामग्री सूची संख्या INVENTORY NO.	REV.NO.			निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY	Manju Azad Vineet Jain			