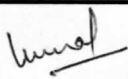
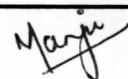
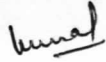


दिनांक एवं हस्ताक्षर SIGN & DATE	दिनांक एवं हस्ताक्षर SIGN & DATE	SUPERSEDES INVENTORY NO.	सामग्री सूची संख्या को अधिकारित करना है	COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company	स्वत्वाधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है इसका प्रयोग एवं प्रसारण के बिना की जाये नहीं, जो कि कंपनी के हित में हानिकारक हो न किया जाय।	दिनांक एवं हस्ताक्षर SIGN & DATE	सामग्री सूची संख्या INVENTORY NO.
		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION		TG60456		पृष्ठ 2 का 1 Page 1 of 2	
EMPTY HYDROGEN CYLINDER							
1.0 SCOPE This specification covers the design, manufacture, testing and supply of EMPTY HYDROGEN CYLINDER As per the requirements specified here in.							
2.0 STANDARD APPLICABLE Latest addition of IS: 3224, IS:7285 & IS: 11117							
3.0 DIMENSIONS a. Outside diameter : 232mm. b. Cylinder wall thickness : 5.4 mm.(Min) c. Overall length : 1445mm							
4.0 DESIGN The top end should be necked down to 2"dia. And screwed internally to dia 1"standard taper 1 in 8, 14 TPI to IS: 3224. The bottom of cylinder shall be concave.							
5.0 FITTINGS The Gas cylinder should be complete with the following fittings/accessories. a. neck collar (Neck Ring) b. Valve guard as per ISO: 11117. c. outlet valve to IS:3224							
6.0 CAPACITY a. Water capacity 46.7 Liters b. Volume of Gas 7M ³ (app)							
7.0 WORKING PRESSURE: 150kg/cm ²							
TSX		DEEPAK		TRANSLATED BY		नाम NAME	
PSC Member		R. KUMAR		WORKED BY		Kunal Mishra	
QAX		A. K. MALHOTRA		CHECKED BY		Manju Azad	
सहमत विभाग AGREED DEPTT.		नाम NAME		पर्यवेक्षणकर्ता SUPERVISED BY		Roshanlal Vyas	
		दिनांक एवं हस्ताक्षर DATE & SIGNATURE		स्वीकृति APPROVED : A. K. MALHOTRA (AGM / EME)		Gr. NO.	
REV.NO.		02		निर्माण PREPARED : TGE		जारी ISSUED : TSX	
Dt.		01.02.2016				दिनांक DATE : 01.11.1993	
CHANGE ADVICE NO.		TGE-16-09		17/02/16			

मंजूर SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION		TG60456 पृष्ठ 2 का 2 Page 2 of 2	
SUPERSEDES INVENTORY सामग्री सूची संख्या को अधिचिह्नित करता है	8.0 MATERIAL The cylinders shall conform to IS: 7285 and shall be made of seamless steel tubes high carbon manganese steel. The valve body shall be made of brass and internals of stainless steel.				
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	9.0 TEST REQUIREMENTS OF CYLINDERS: As per IS: 7285 10.0 PAINTING AND MARKING ON CYLINDERS To be as per IS: 7285 11.0 INFORMATION REQUIRED WITH THE OFFER Cylinder drawing indicating the following details: a. The standard to which cylinder and fitting conform. b. Capacity, size and wall thickness of cylinder. c. Details and arrangement of fittings. d. Minimum wall thickness of cylinder. e. Working pressure, pneumatic test pressure, hydraulic test pressure and hydraulic stretch test pressure and hydraulic stretch test pressure.				
स्वत्वधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत हेवी एलेक्ट्रिकल्स की संपत्ति है इसका प्रयोग एवं प्रसारण के बिना भारत हेवी एलेक्ट्रिकल्स की लिखित अनुमति के बिना न किया जाय।	12.0 TEST CERTIFICATES a. Test certificates for all tests indicate in clauses 9.0 of this specification. b. Manufacturer shall be furnish inspection certificates from BIS and approval certificates form from Dept. of Explosives, Nagpur. 13.0 GENERAL a. The offers submitted shall be strictly in line with the requirements specified in this specification. b. All the documents as required in clause 11 and 12 shall be submitted in 5 copies.				
दिनांक एवं प्रमाण SIGN & DATE	14.0 BASED ON: BHEL Experience 15.0 CROSS REFERRED STANDARD: IS: 3224, IS: 7285 & ISO: 11117				
सामग्री सूची संख्या INVENTORY NO. 1-5932	REV. NO. 02		निर्माणकर्ता WORKED BY	Kunal Mishra	 05/02/16
			जांचकर्ता CHECKED BY	Manju Azad	 05/02/16

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	TG60457 पृष्ठ 2 का 1 Page 1 of 2																																																												
SUPERSEDES INVENTORY NO. सामग्री सूची संख्या को अधिनिर्देशित करना है	EMPTY CARBONDIOXIDE CYLINDER																																																														
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दिनांक एवं हस्ताक्षर SIGN & DATE			उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	TG60462 पृष्ठ 2 का 1 Page 1 of 2																																																						
सामग्री सूची संख्या INVENTORY NO. SUPERSEDES INVENTORY NO.	सामग्री सूची संख्या को अधिनिर्देश करता है	EMPTY NITROGEN CYLINDER																																																								
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न हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION		TG60462	
				पृष्ठ 2 का 2 Page 2 of 2	
SUPERSEDES INVENTORY मासिक सूची संख्या को अपडेट किया जाता है	8.0 MATERIAL The cylinders shall conform to IS: 7285 and shall be made of seamless steel tubes high carbon manganese steel. The valve body shall be made of brass and internals of stainless steel. 9.0 TEST REQUIREMENTS OF CYLINDERS: As per IS: 7285 10.0 PAINTING AND MARKING ON CYLINDERS To be as per IS: 7285 11.0 INFORMATION REQUIRED WITH THE OFFER Cylinder drawing indicating the following details: - The standard to which cylinder and fitting conform. - Capacity, size and wall thickness of cylinder. - Details and arrangement of fittings. - Minimum wall thickness of cylinder. - Working pressure, pneumatic test pressure, hydraulic test pressure and hydraulic stretch test pressure and hydraulic stretch test pressure. - Filling ratio of cylinder 12.0 TEST CERTIFICATES - Test certificates for all tests indicate in clauses 9.0 of this specification. - Manufacturer shall be furnish inspection certificates from BIS and approval certificates form from Dept. of Explosives, Nagpur. 13.0 GENERAL - The offers submitted shall be strictly in line with the requirements specified in this specification. - All the documents as required in clause 11 and 12 shall be submitted in 5 copies. 14.0 BASED ON: BHEL Experience 15.0 CROSS REFERRED STANDARD: IS: 3224, IS: 7285 & ISO: 11117				
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मासिक सूची संख्या INVENTORY NO.	2-5970	REV. NO. 02	निर्माणकर्ता WORKED BY	Kunal Mishra	
			जांचकर्ता CHECKED BY	Manju Azad	
					05/02/16