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## ST-39014 विनोक एवं इस्ताकार SIGN & DATE उत्पाद मानक भी एग ई एम पृष्ठ वा 2 PRODUCT STANDARD (STEAM TURBINE ENGINEERING) Page 2 Of 6 SUPERSEDES INVENTORY 5.0 PUMP SPECIFICATION:-5.1 IDENTIFICATION NO. TO BE MENTIONED ON NAME PLATE MAY22APOO1 AND MAY23APOO1. 5.2 DESIGN TEMPERATURE = 100°C OPERATING TEMPERATURE = 65°C NORMAL SUCTION PRESSURE = 0.05 Bar MINIMUM SUCTION PRESSURE = 0.025 Bar समयी सूची १ अधिकमित् NORMAL DISCHARGE CAPACITY NORMAL MAYIMIM MAYIMUM VARIANT DISCHARGE PRESSURE DISCHARGE CAPACITY DISCHARGE PRESSURE ( Liter/Min ) ( Bar ) ( Liter/Min ) ( Bar ) VAR. 1 2544 7.0 4700 COPYRIGHT AND CONFIDENTIAL Information on this documents is the property of Bharat Heavy cent Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company 6.6 VAR. 2 3248 6.1 4560 5.8 VAR. 3 2820 5.6 5355 6.2 VAR. 4 3240 7.4 5460 6.6 VAR. 5 3060 7.3 6600 7.1 VAŘ. 6 2544 8.0 4700 6.6 VAR. 7 2356 7.4 3204 6.9 VAR. 8 2905 8.2 5177 6.6 VAR. 9 1930 7.5 VAR. 10 2880 8.7 6016 6.3 VAR. 11 3060 7.3 6600 7.1 VAR. 12 3180 8.2 5400 6.6 VAR. 13 1852 8.0 4649 7.0 VAR. 14 2767 8.0 2392 8.3 VAR. 15 2774 8.4 5144 8.0 VAR. 16 VAR. 17 The inform Electrical 5.3 DURING INITIAL STARTUP IN WINTER OIL TEMPERATURE MAY GO AS BELOW AS 20°C. THE CAPACITY OF MOTOR SHALL BE AS INDICATED IN CLAUSE NO. 7.3 OF THIS SPECIFICATION. 5.4 PUMP WITH DROOPING CHARACTERSTIC SHALL NOT BE ACCEPTABLE. 5.5 PUMP SHALL BE SUITABLE FOR MOUNTING VERTICALLY ON THE OIL TANK & PUMP BED द्य PLATE SHALL MATCH THE COUNTER FLANGE PROVIDED ON THE TANK AS PER SKETCH इस्ए प्रतेख में वी गई सूक्षमा मारत हेवी ह्रलेशियुक्तकम की सम्परित है इसका प्रथ्यक गण्यक्ष करा से किसी भी तरह दवीग, जो कि कंपनी के दित में शनिकारक हो न किया। ON SHEET NO. 6. PUMP SUPPLIER SHALL FURNISH THE PERMISSIBLE TIME FOR THE OPERATION OF PUMP AT 5.6 SHUT OFF LOAD. न्। पनीय 6.0 MOTOR:-A SUITABLE MOTOR CONFORMING TO THE PUMP REQUIREMENT SHALL BE SUPPLIED. THE MOTOR SHALL ALSO MEET THE FOLLOWING REQUIREMENTS BROADLY. THE MOTOR स्वत्वाधिकार एवं SHALL CONFIRM TO IS:4722, IS:325, IS:2253, IS:2254, IS:4029 & IS:3202 OR EQUIVALENT BS: SPECIFICATIONS. THE MOTOR SHALL MEET ALL INDIAN STATUTORY REQUIREMENTS. APPLICATION:-6.1 TO DRIVE OIL PUMP FOR SUPPLYING OIL TO BEARING & GOVERNING ELEMENTS. TYPE OF MOTOR:-SQUIRREL CAGE, INDUCTION MOTOR. KW RATING OF THE MOTOR SHOULD BE THE MAXIMUM OF THE FOLLOWING THREE 6.3 CONDITIONS: 6.3.1 IT SHALL HAVE ATLEAST 15% RESERVE CAPACITY THAN REQUIRED TO DRIVE THE PUMP WHEN IT IS DISCHARGING MAXIMUM QUANTITY AT A VISCOSITY CORRESPONDING TO 50°C TEMPERATURE. 6.3.2 IT SHALL HAVE ATLEAST 5% RESERVE CAPACITY THAN REQUIRED TO DRIVE THE PUMP इस्सानार एवं विमांक SIGN & DATE Men WHEN IT IS DISCHARGING MAXIMUM QUANTITY AT A VISCOSITY CORRESPONDING TO 35°C TEMPERATURE. 6.3.3 IT SHALL HAVE AT LEAST 5% RESERVE CAPACITY THAN REQUIRED TO DRIVE THE PUMP Q WHEN IT IS DISCHARGING 70% OF MAXIMUM QUANTITY AT A VISCOSITY CORRESPONDING TO 20° TEMPERATURE. FINALLY SUPPLIER SHALL FURNISH THE KW RATING AT AN AMBIENT TEMPERATURE OF 50°C. REV. NO. निर्माणकर्ता DHARAMPAL 127/08/06 सामग्री सूची संख्या INVENTORY NO. WORKED BY 06 4 V) जांचकर्ता ANUJ JAIN S Jain 27/3/06 CHECKED BY

## विनांक एवं इस्ताक्षर SIGN & DATE ST-39014 उत्पाद मानक भी एम हैं एम पृष्ठ 6 वा 3 PRODUCT STANDARD ( STEAM TURBINE ENGINEERING) Page 3 Of 6 KW ACTUALLY REQUIRED BY DRIVEN 6.4 : PUMP CAPACITY EQUIPMENT UNDER SPECIFIED OPRATION/ STARTUP CONDITIONS. 6.5 RATED VOTAGE : 415V समग्री सूची संख्याको अधिकमित करता है **FREQUENCY** : 50 Hz PERMISSIBLE VOLTAGE AND FREQUENCY 6.6 : ±10% VOLT. VARIATION UNDER NORMAL RUNNING ± 5% FREQUENCY CONDITIONS. COMBINED VARIATION 6.7 : 10% (SUM OF ABSOLUTE VALUES) MINIMUM VOLTAGE REQUIRED UNDER STARTING COPYRIGHT AND CONFIDENTIAL is information on this documents is the property of Bharat Heavy trical United. It must not be used directly or indirectly in any way detrimental to the interest of the company : 80% RATED CONDITION TO BRING DRIVEN EQUIPEMENT UPTO RATED SPEED. 6.9 NO. OF PHASES : 3 ø 6.10 TYPE OF DUTY : CONTINUOUS 6.11 FULL LOAD SPEED : IT SHALL BE COMMENSURATE WITH PUMP SPEED AS PER DESIGN. 6.12 FULL LOAD CURRENT : AS PER DESIGN. 6.13 STARTING CURRENT : NOT TO EXCEED 600% OF RATED CURRENT (EXCLUSIVE OF IS TOLERANCES) 6.14 STARTING TORQUE : 1.3 (MIN.) OF RATED TORQUE. 6.15 BREAK DOWN TORQUE : 2.05 TIMES (MIN.) OF RATED VALUE. 6.16 EFFICIENCY AT FULL LOAD : 90% (MIN.) 6.17 POWER FACTOR AT FULL LOAD : 0.85% MINIMUM The Electri MOTOR SHALL BE DESIGNED TO WITH STAND THE VOLTAGE AND TORQUE STRESSES 6.18 DEVELOPED DUE TO THE DIFFERENCE BETWEEN THE MOTOR RESIDUAL VOLTAGE AND INCOMING SUPPLY VOLTAGE EQUAL TO 150% OF THE RATED MOTOR VOLTAGE Ġ. DURING FAST CHANGEOVER OF BUSES. ! इसका प्रत्यक्षा । ।एक हो न किया ( इस प्रलेख में बी गई सूचना भारत हेयी इलेक्ट्रिकल्स की सम्पन्ति है इसका प्रस्थत रूप से किसी भी तरह प्रयोग, जो कि कंपनी के वितर्म हानिकारक हो = 7.0 STARTING DATA: 7.1 STARTING : SUITABLE FOR DOL STARTING. गोपनीय 7.2 ACCELERATION TIME WITH FULL LOAD $: 3.5 \pm 0.5 SECS.$ CONNECTED. 7.3 LOCKED ROTOR WITHSTAND TIME UNDER HOT CONDITION AT RATED VOLTAGE स्वत्वाधिकार एवं SHALL BE AT LEAST 2.5 SEC. MORE THAN STARTING TIME. 7.4 PERMISSIBLE STARTING DUTY CYCLE : 3 STARTS EQUALLY SPREAD OVER NO. OF STARTS. HOUR AND 2 CONSECUTIVE STARTS FROM HOT CONDITION WITHOUT ANY INJURIOUS HEATING TO THE WINDING. 7.5 OVER LOAD ( % OF FULL LOAD ) THAT : MOTOR SHALL BE CAPABLE OF CAN BE CARRIED BY THE MOTOR WITHOUT RUNNING AT FULL LOAD AT 80% OF IMPAIRING, OVERALL PERFORMANCE AND RATED VOLTAGE FOR FIVE MINUTES PERIOD FOR WHICH THIS OVERLOAD IS AND 70% OF RATED VOLTAGE FOR APPLICABLE. इस्ताझर एवं विभाज SIGN & DATE 70/27 1 SEC. 7.6 LOCATION : INDOOR CLASS OF INSULATION 7.7 SIGN : CLASS-F, FUNGUS RESISTANT, 7 TROPICALISED AS PER IS:3202 WITH TEMP. RISE LIMITED TO THAT OF CLASS B. REV. NO. निर्माणकर्ता DHARAMPAL 27/03/06 सामधी सूची संख्या INVENTORY NO. WORKED BY 4 06 ١V 5 जांचकर्ता ANUJ JAIN CHECKED BY ffair 27/3/06

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HHALL HAZII INVENTORY AN	REV. NO					निर्माणकर्ता WORKED BY जोचकर्ता CHECKED BY	DHARAM ANUJ JA	.   '	Mal	14/6	6/06

## ST-39015 BRAILBIT उत्पाद मानक SIGN & DATE बीएस है एक 3 पष्ट वा 6 देशक एवं PRODUCT STANDARD ( STEAM TURBINE ENGINEERING) Page 3 Of 6 6.6 PERMISSIBLE VOLTAGE VARIATIONS : ~15% UNDER NORMAL RUNING CONDITIONS. +10% MINIMUM VOLTAGE REQUIRED UNDER STARTING 6.7 : 80% RATED CURRENT समग्री सूची संख्या को अधिकृष्टित करता है CONDITION TO BRING DRIVEN EQUIPEMENT UPTO RATED SPEED. 6.8 TYPE OF DUTY : CONTINUOUS 6.9 FULL LOAD SPEED : IT SHALL BE COMENSURATE WITH PUMP SPEED AS PER DESIGN. 6.10 FULL LOAD CURRENT COPYRIGHT AND CONFIDENTIAL information on this documents is the property of Bharst Heavy rives! Limited it must not be used directly or indirectly in any way definited in the Interest of the company : AS PER DESIGN. 6.11 STARTING CURRENT : 3 TO 3.5 TIMES. I RATED 6.12 STARTING TORQUE : 3 TO 3.5 TIMES. TORQUE 6.13 EFFICIENCY AT FULL LOAD : 85% MINIMUM 7.0 STARTING DATA 7.1 STARTING SUITABLE FOR DIRECT ON LINE STARTING WITH A PERMANENT RESISTANCE CONNECTED IN THE ARMATURE CIRCUIT. UNDER THIS CONDITION MOTOR SHALL BE CAPABLE OF DRIVING THE PUMP AT 100% LOAD. THE MOTOR SHALL ACCELARATE TO FULL SPEED WITH FULL LOAD CONNECTED WITHIN 3±0.5 SECONDS. SUCH RESISTANCE SHALL ALSO BE INCLUDED IN THE OFFER. THE RESISTANCE SHALL BE FOR CONTINUOUS The information on Slectrical Limited.lt DUTY. THE RESISTANCE BOX ENCLOSURE TEMP, RISE OVER AMBIENT SHOULD NOT EXCEED 70°C AND IT IS OF FeCr-AI OR CUPRO-NICKLE TYPE SHOULD HAVE IP21 (MIN.) DEGREE OF PROTECTION. STARTING RESISTANCE BOX/PANEL SHALL BE IN VENDOR SCOPE OF SUPPLY. 7.2 PERMISSIBLE STARTING DUTY CYCLE/NO. OF STARTS:-प्रलेख में दी गई सूचना मारत हेनी इस्तेषिट्र करूर की सन्पत्ति है इसका प्रत्यक्ष एवं THREE STARTS SPREAD OVER AN HOUR AND TWO CONSECUTIVE STARTS FROM HOT प्रस्यका रूप से किसी भी तरह प्रयोग, जो कि खंपनी के हित में हानिकारक हो न किया CONDITION WITHOUT ANY INJURIOUS HEATING TO THE WINDING. OVER LOAD ( % OF FULL LOAD ) THAT : 25% FOR 5 MINUTES. CAN BE CARRIED BY THE MOTOR WITHOUT गोपनीय IMPAIRING, OVERALL PERFORMANCE AND PERIOD FOR WHICH THIS OVERLOAD IS ā APPLICABLE. स्वत्वाधिकार 7.5 LOCATION : INDOOR 7.6 CLASS OF INSULATION : CLASS-F, FUNGUS RESISITANT. TROPICALISED AS PER IS:3202 WITH TEMP. RISE LIMITED TO THAT OF CLASS B. 7.7 SHAFT DISPOSITION/MOUNTING : VERTICAL / FLANGE MOUNTED 2 METHOD OF CONNECTION TO DRIVEN : FLANGE FLEXIBLE COUPLING. EQUIPEMENT. DIRECTION OF ROTATION AND CORRESPONDING : TO SUIT PUMP 7.9 DATE TERMINAL DESIGNATION. दिमाय 7.10 ENCLOSURE AND VENTILATION : TOTALLY ENCLOSED FAN COOLED हस्ताक्ष एवं SIGN & IP-55 REV. NO. निर्माणकर्ता DHARAMPAL ENVENTORY NO. शामग्री सूबी संख्या WORKED BY 14/6/06 04 **जांचकर्ता** ANUJ JAIN 14/6/06 CHECKED BY

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