LIMITED STEEL INTERNATIONAL AARTI Registered Office : G.T.Road, Miller Ganj, Ludhiana.

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Phone no. :- +91-161-5244200 Fax :- +91-161-5244250 MANUFACTURER'S OF :- CARBON ALLOYS & SPECIAL STEELS

DOCINOF-16900029154COMPANY

CERTIFICATE TEST

Date -: 22/02/2025 11:56:54 5488 T.C.NO. M/S.- S.S.B. ENGINEERS PVT. LTD. 5400 Invoice No. PLOT NO.C-158A, M.I.A ALWAR Truck No. PB10JD-0462 RAJASTHAN-301030 NO. OF SUPPLY CONDN. | QTY. COLOUR CODE MANUFACTURING ROUTE HEAT NO. GRADE SIZE PCS. (MT) 53 10.330 AS ROLLED E.A.F.+L.F.+V.D.+CCM+EMS BLUE+WHITE 20MNCR5 B 80 DIA | 6638

CHEMICAL COMPOSITION IN PERCENTAGE

Ca Cu | Sn | Si Ni Cr | Mo V Al 0.0010 0.0200 -- | 1.0000 Min 0.1500 1.0000 0.0200 0.0030 0.2000 | 1.3000 | 0.0350 | 0.0250 | 0.3000 | 0.3000 | 1.3000 | 0.1200 -- | 0.0500| Max

Actual | 0.1630 | 1.2600 | 0.0230 | 0.0200 | 0.2400 | 0.1030 | 1.2100 | 0.0600 | 0.0043 | 0.0340 | 0.2050 | 0.0110 | 0.0034 | 0.0019 | 0.0006

METALLURGICAL RESULTS Gas Content Aust.Grain INCLUSION RATING IS: 4163/JK CHART/ASTM E-45A (ppm) Size 7 ASTM No. C B A (E-112) Т H T H Т Н Т H 0.13 02 13 Decarb. 0.0 2.0 (MM) STD 2.0 1.0 2.0 0.0 2.0 1.0 95 N2 MAX Micro-0.0 0.0 0.0 1.0 0.0 Structure P+F Н2 .887 0.0 0.5 1.5 ACTUAL

MECHANICAL PROPERTIES (ASTM A-370/IS-1608) AS ROLLED MACRO ULTRASONIC MIX UP TEST TEST TEST CONDITION (N / H & T)

U.T.S. Y.S. EL% RA% Impact Hardness SPARK, MOBILE BHN / HRB Value C2,R2,S2 100 % DONE OK SPECTRO TEST LEVEL AS PER 100% DONE OK PLATE Ist OF Reqd. ASTM-E-381 226-237 Actual

HARDENABILITY (HRC) AS PER IS : 3848 :-

Distance | 5 MM | 10 MM | 25 MM |

Required | 39-43 35-39 27-31

42 36 28 Actual

DATE: 17.12.2015

Remarks :- REDUCTION RATIO=11.5:1, BILLET SIZE=240X240 MM, SURFACE SATISFACTORY THIS RAW MATERIAL MADE FOR ASHOK LEYLAND AS PER STANDARD ALS 258.02

Note :- TESTED FOR RADIOACTIVE CONTAMINATION ~ だり

ISSUE 02 & CSR ISSUE 03, DATED 15.02.14 RMQP(P), REV. 03 JOMINY: 50 HM=25(24 MIN), HEAT APPROVED HAIL DATE:05.11.2024

CERTIFIED THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON ACTUAL RESULTS CARRIED OUT ON SAMPLESS DRAWN AS PER Q.A.P.

PREZARED

AUTHORISED SIGNATORY