STEEL AARTI INTERNATIONAL LIMITED Registered Office : G.T.Road, Miller Ganj, Ludhiana. Works : Focal Point, LUDHIANA - 141 010. (INDIA)

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

-: Original :-M/S. - S.S.B. ENGINEERS PVT. LTD. T.C.NO. 5489 Date -: 22/02/2025 12:51:06 PLOT NO.C-158A, M. I.A ALWAR Invoice No. 5401 RAJASTHAN-301030 Truck No. PB10JD-0462 GRADE SIZE HEAT NO. MANUFACTURING ROUTE COLOUR CODE SUPPLY CONDN. NO. OF QTY. (MT) PCS. BAE 1053H | 120 DIA | 8218 E.A.F.+L.F.+V.D.+CCM+EHS YELLOW+GREEN DOT AS ROLLED 29,865 CHEMICAL COMPOSITION IN PERCENTAGE C | Mn | B P Si Νi CrMo V | Al | Cu | Sn | Ti | B Ca Min 0.4800 0.6000 0.0150 0.1500 0.0200 Max 0.5500 0.9000 0.0350 0.0350 0.4000 0.2500 | 0.2500 | 0.0600 | -- | 0.0500| 0.2500 0.0005 0.0010 Actual | 0.4930 | 0.7900 | 0.0230 | 0.0220 | 0.2080 | 0.0620 | 0.1860 | 0.0120 | 0.0023 | 0.0220 | 0.1700 | 0.0190 | 0.0100 | 0.0005 | 0.0006 METALLURGICAL RESULTS INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A Aust.Grain Gas Content Size (ppm) В C D ASTM No. 6.5 (E-112)T H Т H T H T H Decarb. 0.23 02 13 STD 2.0 1.5 1.0 0.5 0.5 1.0 1.0 (MM) MAX N2 79 Micro-ACTUAL 1.5 0.5 0.5 0.0 0.0 0.0 0.0 1.01 Structure P+F H2 .826 MECHANICAL PROPERTIES (ASTM A-370/IS-1608) AS ROLLED MACRO ULTRASONIC MIX UP TEST TEST CONDITION (N / H & T) TEST U.T.S. Y.S. EL% RAS Impact Hardness SPARK, MOBILE Value BHN / HRB C2,R2,S2 100 % DONE OK SPECTRO TEST LEVEL AS PER 100% DONE OK Reqd. 930-1130 706 HIN 8 MIN 30 J MIN 240 MAX PLATE Ist OF ASTM-E-381 Actual 984 MPA 796 MPA 9.0 45 J 185-193 HARDENABILITY (HRC) AS PER IS : 3848 :--: Distance | 1.5MM | 3 MM | 5 MM | 7 MM | 9 MM | 11 MM | 13 MM | 15 MM | 20 MM | 25 MM | 30 MM | Required | 59-63 50-61 45-58 32-50 28-42 26-36 25-33 24-31 22-30 20 MIN 20 MIN | Actual 59 57.5 45.5 34 32.5 31.5 30.5 29 28 26 23 Remarks :- REDUCTION PATIO=5.1:1.BILLET SIZE=240X240 M4, SURFACE SATISFACTORY HPI 100% DONE FOUND OK, %AL/%N2=RATIO=2.784 (2.1 MIN) INCLUSION PATING CERTIFIED AS PER WORST FIELD RATING ASTH E45 METHOD A BANDING OR AS PER UNI 8449 (A MAX OF GR-4 ACCEPTABLE). ULTRA SONICALLY TESTING OK WITE: 1/16 FLATE BOTTOM HOLE Elst MATERIAL CONFORMS TO DANA SPEC.QF 1001.REV.LEVEL-3 Note :- TESTED FOR RADIOACTIVE CONTAMINATION- AL CERTIFIED THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON ACTUAL RESULTS CARRIED OUT ON SAMPLESS DRAWN AS PER Q.A.P.

PREPARED BY

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