AARTI STEEL INTERNATIONAL LIMITED

MARE TO SEE TO COMPANY :

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MANUFACTURER'S OF :- CARBON ALLOYS & SPECIAL STEELS TEST CERTIFICATE -: Original :-

M/S. - S.S.B. ENGINEERS PVT. LTD. T.C.NO. 6009 Date -: 25/03/2025 17:59:58 PLOT NO.C-158A, M.I.A ALWAR Invoice No. 5897 RAJASTHAN-301030 Truck No. PB10HL-6252 GRADE SIZE HEAT NO. | MANUFACTURING ROUTE COLOUR CODE SUPPLY CONDN. QTY. NO. OF (MT) PCS. SAE8620 H | 80 DIA | 8419 E.A.F.+L.F.+V.D.+CCM+EMS BLUE+WHITE AS ROLLED 32.700 148 CHEMICAL COMPOSITION IN PERCENTAGE C Mn S P | Si | Ni | Cr | Mo | V Al | Cu | Sn | Ti | B 0.1800 0.7000 0.0200 Min -- | 0.1500| 0.4000| 0.4000| 0.1500| -- 0.0200 0.2300 0.9000 0.0350 0.0350 0.3500 0.7000 0.6000 0.2500 Max -- | 0.0500 | 0.3000 -- | 0.0005 | 0.0010 Actual | 0.2100 | 0.8400 | 0.0230 | 0.0160 | 0.1820 | 0.4460 | 0.5450 | 0.1680 | 0.0033 | 0.0240 | 0.1200 | 0.0054 | 0.0025 | 0.0004 | 0.0006 METALLURGICAL RESULTS INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A Aust.Grain Gas Content Size (ppm) D ASTM No. 7 (E-112)T H Т H T H T H Decarb. 0.15 02 13 STD 2.0 1.5 2.0 1.0 0.5 0.5 1.0 1.0 (MM) MAX N2 78 Micro-ACTUAL 1.5 0.5 0.5 0.0 0.0 0.0 1.0 0.0 Structure P+F+B H2 .906 MECHANICAL PROPERTIES (ASTM A-370/IS-1608) AS ROLLED ULTRASONIC MACRO MIX UP TEST TEST CONDITION (N / H & T) TEST U.T.S. Y.S. EL% RA% Impact Hardness SPARK, MOBILE Value BHN / HRB C2,R2,52 100 % DONE OK SPECTRO TEST LEVEL AS PER 100% DONE OK Reqd. 1180-1570 930 MIN 7 MIN 27.5 JMIN 240 MAX PLATE Ist OF ASTM-E-381 Actual 1310 MPA 1094 MPA 9.0 45 J 174-187 HARDENABILITY (HRC) AS PER IS : 3848 :-|J1/16 |J2/16 |J3/16 |J4/16 |J5/16 |J6/16 |J7/16 |J8/16 |J9/16 |J10/16 |J12/16 Distance Required |34-39 |-Actual 36.5 |-Remarks :- REDUCTION RATIO=8.0:1, BILLET SIZE=200X200 MM, SURFACE SATISFACTORY MPI 100% DONE FOUND OK INCLUSION RATING CERTIFIED AS PER WORST FIELD RATING ASTM E45 METHOD A MATERIAL CONFIRMS TO STD.NO.: FAL-MTS-02-04, REV.NO.: 06 JEERS (A Note :- TESTED FOR RADIOACTIVE CONTAMINATION NO CERTIFIED THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON ACTUAL RESULTS CARRIED OUT ON SAMPLESS DRAWN AS PER Q.A.P. PREPARED BY

AUTHORISED SIGNATORY