E-mail: admin@sunflagsteel.com Web Site: www.sunflagsteel.com CIN L27100MH1984PLC034003 : (0712) 2524661 Norks: (07184) 285551 Regd, Off.

SUNFLAG IRON & STEEL CO. LTD.

Works: Bhandara Road, Bhandara - 441 905 (Maharashtra) .egd. Office: 33, Mount Road, Sadar, Nagpur - 440 001 India

TEST CERTIFICATE



0.90 31/1432/1433/1434/1435/1435/1437/1438/1439/14310/16 312/16 314/16 316/16 2.0 mdd H2 DECARBURIZATION (MM) | MACRO ETCH | REDUCTION 88 21.820 23.0 (Mtrs) PIECES (MT) LENGTH NO. OF | OTY 26.04.2018 26.04.2018 : RJ09GD4888 mdd N2 90 44 8:1 24.0 %Nb 02 20 0.0030 14 ASTM-E-381 RESULTS 5.500 C2R2S2 25.0 TRUCK NO. %C0 DATE DATE 44.0 43.0 42.0 39.0 38.0 33.0 31.0 29.0 28.0 27.0 Full Partial | Total 0.60 0.0052 | 0.0010 | 0.0010 | -%Sp - HRC) : 1.82701597 DELIVERY ORDER NO.: 81062358 09.0 SUPPLY CONDITION : 0020587 %Ca (INCH %AS JOMINY VALUE 210x232 AS ROLLED P INVOICE NO. M% 36.0 -40.04 BLT/BLM SIZE (mm) 0.0150 0.0210 0.2200 1.0800 0.0230 0.0140 0.0090 0.0050 0.0230 0.0002 0.0025 0.0002 0.0002 TC NO. %Sn JISG0555 dB+dC METALLURGICAL PROPERTIES %B CHEMICAL COMPOSITION MBF-EAF-LRF-VD-CCM-RM COLOUR CODE %Al %Pb %Ti GRADE PROCESS ROUTE dA VALUE E RED HARDNESS QUENCH 0.015 0.050 VALUE DI 3 SECTION IN (mm) 700 HARDNESS SURFACE OUALITY (IZOD/CHARPY) (BHN) RCS-75 240 %Wo 183 0.05 %Ni 20MNCR5 PROPERTIES IMPACT SIZE (ASTM GRADE 0.10 E- 112) GRAIN CUSTOMER : DHAR AUTOMOTIVES PRIVATE LIMITED 7/7.5 0 %Cr %Cn -MAX | 2.00 | 1.50 | 2.00 | 1.50 | 2.00 | 1.50 | 2.00 | 1.50 | 8 HEAT R-00(J4/16=36-40)/01.01.2016 |09721 No. DH (ASTM-E-45 /IS:4163) "RRA 48.00 35.00 MECHANICAL 1.30 1.50 1.00 DI CH % ST 0.15 1.40 | 0.035 | 0.035 | 0.40 12.00 / H.T. %EL 8.00 E O 00.00 % As Rolled н INCLUSION RATING (KG/MM2) CUSTOMER SPECIFICATION NO. m 110.00 80.00 92.23 OTS 2.00 0.50 0.50 %P H m %Mn 1.16 щ 1.10 (KG/MM2) A. PS/YS SPEC-MIN | 55.00 79.49 DHAR: 20MNCR5 E A SP-MIN | 0.17 -MAX 0.22 ACTUAL | 0.18 % - MAX -SPEC-MIN ACTUAL ACTUAL

For Sunflag Iron & Steel Co. Ltd. Home

We certify that the material described above conforms to the specs.

(100%);OK

(100%):OK.M.P.T.

SPARK/SPECTRAL: OK. STEP DOWN TEST: OK. U.S. T.

:1008

REMARKS

MIRL IS FREE FROM RADIOACTIVE ELEMENTS

8.66

C2R1S1

0.36

0.36

0.000