



**JINDAL STEEL & POWER LIMITED**  
 Works: Chhendipada Road, SH- 53, At/Po : Jindal Nagar, Dist : Angul (ODISHA)-759111 INDIA  
 Email: qclab.pm@angul.jspl.com  
 Registered Office: Post box No. 6, O P Jindal Marg, Hisar (Haryana)  
 Corporate Office : Jindal Center, 12 Bhikaji Cama Palace, New Delhi - 110066 INDIA  
 Phone No. :-(06761) 254191-95; Fax :-06761 -254141-44

109312



0045

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0045 - CPR - 1835

Date : 12.06.2018

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**INSPECTION CERTIFICATE**

Test Certificate No. 0000004199

To, M/s NETWORK STEEL S.L. SPAIN  
 CARDENAL MARCELO SPINOLA 2-5 PLTA.28016 MADRID SPAIN CIF 883, SPAIN, PIN-00000

Supply Condition: AS ROLLED (TMCP)  
 Deoxidation : Fully Killed

**TEST RESULTS**

Process of Manufacture : EAF->LRF->VD->CCM->RHF->Hot rolling  
 (EAF - Electric Arc Furnace / LRF: Ladle Refining Furnace / VD : Vacuum Degassing / CCM : Continuous Casting Machine/ RHF : Re-Heating Furnace)

Material Grade : EN10025-2 S275JR+AR Plate Dimension -Thickness x Width x Length : 100.0MMX2500MMX10000MM																				Mechanical Properties										
Chemical Analysis															YS		UTS		%EL*	Bend Test	Impact Value at(J)									
Heat No	Plate ID	Pcs	Wt. MT	L/P	%C	%Mn	%S	%P	%Si	%Al	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2 ppm	CE	Mpa	Mpa		Mand Dia.	I	II	III	Avg	Temp °C	Orien
A80765	A8076503A0	1	19.625	L	0.15	1.11	0.002	0.015	0.22	0.024	0.007	0.002	0.001	0.016	0.0010	0.007	0.0004	0.012	54	0.33	282	432	28		74	168	194	178.66	20	L
A80765	A8076504A0	1	19.625	L	0.15	1.11	0.002	0.015	0.22	0.024	0.007	0.002	0.001	0.016	0.0010	0.007	0.0004	0.012	54	0.33	282	432	28		74	168	194	178.66	20	L
A80765	A8076505A0	1	19.625	L	0.15	1.11	0.002	0.015	0.22	0.024	0.007	0.002	0.001	0.016	0.0010	0.007	0.0004	0.012	54	0.33	282	432	28		74	168	194	178.67	20	L
A80766	A8076609A0	1	19.625	L	0.16	1.11	0.003	0.013	0.21	0.023	0.004	0.002	0.001	0.019		0.006	0.0004	0.013	53	0.34	286	439	28		56	189	177	174.00	20	L
A80766	A8076610A0	1	19.625	L	0.16	1.11	0.003	0.013	0.21	0.023	0.004	0.002	0.001	0.019		0.006	0.0004	0.013	53	0.34	286	439	28		56	189	177	174.00	20	L
A80767	A8076701A0	1	19.625	L	0.16	1.12	0.003	0.016	0.24	0.026	0.004	0.002	0.001	0.019	0.0010	0.005	0.0004	0.014	55	0.35	281	442	27		85	167	174	175.33	20	L
A80767	A8076702A0	1	19.625	L	0.16	1.12	0.003	0.016	0.24	0.026	0.004	0.002	0.001	0.019	0.0010	0.005	0.0004	0.014	55	0.35	281	442	27		85	167	174	175.33	20	L
A80767	A8076703A0	1	19.625	L	0.16	1.12	0.003	0.016	0.24	0.026	0.004	0.002	0.001	0.019	0.0010	0.005	0.0004	0.014	55	0.35	281	442	27		85	167	174	175.33	20	L
A80767	A8076704A0	1	19.625	L	0.16	1.12	0.003	0.016	0.24	0.026	0.004	0.002	0.001	0.019	0.0010	0.005	0.0004	0.014	55	0.35	281	442	27		85	167	174	175.33	20	L
A80767	A8076705A0	1	19.625	L	0.16	1.12	0.003	0.016	0.24	0.026	0.004	0.002	0.001	0.019	0.0010	0.005	0.0004	0.014	55	0.35	281	442	27		85	167	174	175.33	20	L
<b>Sub Total</b>		10	196.250																											

We hereby certify that Material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above said material specification.  
 The above material supplied conforms to the specified dimensions and tolerances as per specifications and as per mutually agreed Technical Delivery Conditions.  
 UltraSonic Examination : All the above plates are ultrasonically tested as per EN10160 S1E1 and found ok

Purchase Reference & Date: PROV/EXP/PLT/8002/ 19.04.2018  
 Despatch Advice No:  
 Vehicle No.  
 \* DOP can be viewed at www.jindalsteelpower.com"  
 \* Gauge Length: 5.65(SO)1/2

Prepared by SRIDHAR.BEHERA  
 Preparation Date :12.06.2018 09:06:58  
 Printing Date 12.06.2018 & Time 15:39:23

Authorised Signatory  
 QA/QC Plate Mill  
 For, JINDAL STEEL & POWER LIMITED

JSPL/ANG./PM-QA&QC/F-25J

**ONIRAM, LDA**  
 DEP. QUALIDADE  
 RECEPÇÃO

DATA 20/06/23 RUBRICA



M/V DOWDN ELEGANCE 109312

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ROLLED(TMCP)

Deoxidation :Fully Killed

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CARDENAL MARCELO SPINOLA 2-5 PLTA.28016 MADRID SPAIN CIF 883,SPAIN,PIN-00000

### TEST RESULTS

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3. Material also conforms to TDC Doc. No. : JSPL/ANGUL/TDC/-M01333,Rev.00, Dt.:28.02.2018.
4. Dimensional Tolerance: Thickness tolerance found satisfactory as per EN 10029:2011 of Class A
5. Surface Inspection: As per EN10163:2005 class A Subclass 3
6. Flatness: As per EN10029:2011 table 4 class N (L Type)
7. Test Piece: Chemical as per EN ISO 14284:2003, Tensile as per DIN EN ISO 6892-1:2009 & Impact as per DIN EN ISO 148-1:2011
8. CE (IIW) : C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15
9. Marking details: Mfg. Name, & logo, plate identification, specification & grade, size, customer name & UT Spec.
10. Orientation of Sample: Tensile is Transverse & Impact is Longitudinal to rolling direction
11. In Chemical Analysis column, L stands for Ladle Analysis & In Mechanical Properties Column, L stands for Longitudinal Direction

We hereby certify that Material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above said material specification. The above material supplied conforms to the specified dimensions and tolerances as per specifications and as per mutually agreed Technical Delivery Conditions  
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