

M/V NO. 143.218



# JINDAL STEEL & POWER LIMITED

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 Registered Office: Post box No. 6, O P Jindal Marg, Hisar (Haryana)  
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CE  
0045

## INSPECTION CERTIFICATE

13  
0045 - CPR - 1835

Test Certificate No. 0000009602

Date : 12.05.2021

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

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## TEST RESULTS

Supply Condition: AS ROLLED

Process of Manufacture : EAF->LRF->VD->CCM->RHF->Hot rolling

Deoxidation : Fully Killed

(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 : 60.00MMX2500MMX12000MM																														
Heat No	Plate ID	Pcs	Wt. MT	Chemical Analysis																	Mechanical Properties									
				L/P	%C	%Mn	%S	%P	%Si	%Al	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2 ppm	CE	YS Mpa	UTS Mpa	%EL*	Bend Test	Impact Value at(J)					
Heat No	Plate ID	Pcs	Wt. MT	Chemical Analysis																	Mechanical Properties									
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	YS Mpa	UTS Mpa	%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	YS Mpa	UTS Mpa	%EL*	Bend Test	I	II	III	Avg	Temp °C	Orien
B12963	B1296302A0	1	14.130	L	0.200	0.71	0.003	0.023	0.20	0.033	0.005	0.001	0.001	0.002	0.0010	0.007	0.0004	0.016	57	0.32	363	524	30		174	163	178	171.66	20	Lo.
B12963	B1296303A0	1	14.130	L	0.200	0.71	0.003	0.023	0.20	0.033	0.005	0.001	0.001	0.002	0.0010	0.007	0.0004	0.016	57	0.32	363	524	30		174	163	178	171.66	20	Lo.
B12963	B1296304A0	1	14.130	L	0.200	0.71	0.003	0.023	0.20	0.033	0.005	0.001	0.001	0.002	0.0010	0.007	0.0004	0.016	57	0.32	363	524	30		174	163	178	171.66	20	Lo.
B12963	B1296305A0	1	14.130	L	0.200	0.71	0.003	0.023	0.20	0.033	0.005	0.001	0.001	0.002	0.0010	0.007	0.0004	0.016	57	0.32	363	524	30		174	163	178	171.66	20	Lo.
<b>Sub Total</b>		4	56.520																											
<b>G Total</b>		29	149.935																											

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/10057/Aviles 05.03.2021  
 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 :12.05.2021 12:27:57  
 Printing Date 12.05.2021 & Time 12:36:22

Sridhar Behera  
 Authorised Signatory  
 TSD PlateMill  
 For, JINDAL STEEL & POWER LIMITED

REC-PM-TSD-14-41, Rev 01, Eff date : 07.10.2020



**INSPECTION CERTIFICATE**

Test Certificate No. 0000009602

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

**TEST RESULTS**

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(EAF - Electric Arc Furnace / LRF: Ladle Refining Furnace / VD : Vacuum Degassing / CCM : Continuous Casting Machine/ RHF : Re-Heating Furnace)

Supply Condition: AS ROLLED

Deoxidation : Fully Killed

- Remarks :
1. Test Certificate as per EN 10204, 2004 Type 3.1
  2. Material mentioned above also conforms to EN10025-2 S275JR+AR
  3. Material also conforms to TDC Doc. No. : JSPL/ANGUL/TDC/-00733B; Rev.00, Dt.:09.03.2021
  4. Dimensional Tolerance: Thickness tolerance found satisfactory as per EN 10029:2011 of Class B
  5. Surface Inspection: As per EN10163:2005 class A Subclass 3
  6. Flatness: As per EN10029:2011 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

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REC-PM-TSD-14-41, Rev 01, Eff date : 07.10.2020

Prepared by SRIDHAR.BEHERA  
Preparation Date : 12.05.2021 12:27:57  
Printing Date 12.05.2021 & Time 12:36:22



Sridhar Behera  
Authorised Signatory  
TSD Plate Mill  
For, JINDAL STEEL & POWER LIMITED