JINDAL STEEL & POWER LIMITED

Works:Chhendipada Road,SH- 63, At\Po : Jindal Nagar, Dist : Angul (ODISHA)-759111 INDIA
Email:qclabpm.ang@jindalsteel.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

INSPECTION CERTIFICATE

CE
0045
13
0045 - CPR - 1835

Test Certificate No. 0470
Date : 11.04.2022

To, M/s ZIMMER STAAL BVBA,
GROTE MARKT 41, 2500 LIER (BELGIUM)

TEST RESULTS

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

Supply Condition: Normalizing Rolling
Deoxidation :Fully Killed

Material Grade : EN10025-2 S355J2+N & AD 2000W1:2006, Plate Dimension -Thickness x Width x Length : 15.00MMX3000MMX12000MM

Heat No	Plate No	No.of Pcs.	Wt. MT	L/P	Chemical Analysis (L : Ladle & P : Product)															Mechanical Properties								
																				<=25mm Flat & >25mm Round Sample				Impact (V Notch Charpy) Value at(J), Size:(10*10*55)mm					
					%C	%Mn	%S	%P	%Si	%Al	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2(ppm	CE	YS(Mpa	UTS(Mpa	%EL*	Orien.	I	II	III	Avg	Temp °C	Orien.
A21201	03A0, 03B0, 03D0, 18A0, 18B0, 16A0, 17A0, 17B0, 17D0, 18D0, 16B0, 16D0, 06A0, 06B0, 06D0, 09A0, 09B0, 09D0, 10A0, 10B0, 13A0, 13B0, 13D0, 10D0, 07A0, 07B0, 07D0, 08A0, 08B0, 08D0, 04A0, 04B0, 04D0, 05A0, 05B0, 05D0, 14A0, 14B0, 14D0, 15A0, 15B0, 15D0, 12A0, 12B0, 12D0	45	190.755	L	0.185	1.40	0.003	0.022	0.24	0.021	0.005	0.001	0.006	0.003	0.001	0.011	0.0003	0.018	56	0.42	426	533	30	T	180	164	152	165.33	-20	L
				P	0.173	1.43	0.002	0.019	0.24	0.025	0.006	0.001	0.007	0.004	0.001	0.010	0.0003	0.015	60	0.41	432	574	26	T	138	158	170	155.33	-20	L
																					411	551	27	T	89	83	72	81.33	-20	L

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Remarks :

1. Test Certificate as per EN 10204, 2004 Type 3. 1
2. Material mentioned above also conforms to EN10025-2 S355J2+N & AD 2000W1:2006.
3. Material also conforms to TDC Doc. No. : JSPL/ANGUL/TDC/- 0012A; Rev.02, Dt.:14.01.2021
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. Orientation of Sample: Tensile is Transverse & Impact is Longitudinal to rolling direction
10. In Chemical Analysis column, L stands for Ladle Analysis & In Mechanical Properties Column, L stands for Longitudinal Direction
11. **The Plates described here in have been delivered in accordance with EN 10025-2 & AD2000 W1:2006 (Certificate No.: 07-203-1409-wp-2121/16) & authorised inspector stamp as "**

Approved acc. to AD2000-Merkblatt WO and certified acc. to PED (97/23/EC) by Certification Body for Pressure Equipment of TUV NORD Systems (notified body, reg. No.:0045)

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
UltraSonic Examination : All the above plates are ultrasonically tested as per EN10160:1999 S1E1 and found ok

Purchase Reference & Date: PROV/EXP/PLT/11073A/LOT 2 /16.02.2022
" DOP can be viewed at www.jindalsteelpower.com", DOP No.: JSPL/CE/PL/S355J2
* Gauge Length: 5.65(SO)1/2

JINDAL STEEL & POWER LTD. JINDAL STEEL & POWER ANGUL

Deepak Prasad
Authorised Signatory
TSD PlateMill

For, JINDAL STEEL & POWER LIMITED