

MILL TEST AND INSPECTION CERTIFICATE

For STEEL PLATES USED FOR PRESSURE VESSELS AT MODERATE AND LOW TEMPERATURE

Test Certificate No : HPL/TC/T/2010/15307

Steel Specification : IS 2041 Gr. R220 : 2009 / IS 2041 Gr. R260 : 2009

Customer : Metal Ore

Sales Order No. : 2110084588 / 2110085690 / 2110086383 / 2110086385 / 2110086798 / 2120466197

WE CERTIFY THAT THE MATERIAL DESCRIBED BELOW FULLY CONFORMS TO IS 2041-2009 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING & INSPECTION CONTAINED IN THE BIS CERTIFICATION MARKS LICENCE NO CWIL 3925976 ARE AS INDICATED BELOW AGAINST EACH ORDER NO. ETC. (PLEASE REFER TO IS 2041-2009 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

S. No	Plate No.	Heat No.	Size in mm T _W x L	Weight (MT.)	Mechanical Properties										Chemical Analysis (%)																
					YS (0.2%) MPa	UTS MPa	%EL GL=50mm 565NAg	Bend 180° & M.R. 1.5T	Hardness			Impact in Joules			C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	B	CE	
									1	2	3	1	2	3																	16J Min
74	JS5641211N	R17892	12_2000_12000	2.390	260	490-540	25	21	OK	141	142	162	168	157	0.230	0.85-1.20	0.025	0.025	0.15-0.35	0.300	0.400	0.400	0.400	0.030	0.030	0.020	0.120	0.020	0.0120	0.0010	0.430
75	JS5641212N	R17892	12_2000_12000	2.389											PA	0.79-1.30	0.025	0.025	0.13-0.45	0.340	0.430	0.430	0.430	0.040	0.035	0.030	0.130	0.020	0.0120	0.0015	0.430
76	JS5642011N	R17892	12_2000_12000	2.385	336	516	31	28	OK	141	142	162	168	157																	
77	JS5642021N	R17892	12_2000_12000	2.386																											
78	JS5642210N	R17892	12_2000_12000	2.383																											
79	JS5492111N	R17893	12_2500_12000	2.988	339	530	34	31	OK	159	160	168	160	160	LA	0.185	1.104	0.004	0.011	0.319	0.022	0.025	0.052	0.003	0.003	0.017	0.009	0.037	0.0052	0.0003	0.381
80	JS5492112N	R17893	12_2500_12000	2.982											PA	0.183	1.106	0.003	0.014	0.317	0.023	0.026	0.049	0.002	0.003	0.018	0.010	0.035	0.0064	0.0002	0.380
81	JS5492211N	R17893	12_2500_12000	2.988																											
82	JS5697111N	R17893	12_2500_12000	2.976	346	529	31	28	OK	155	156	160	160	160																	
83	JS5697210N	R17893	12_2500_12000	2.970																											
84	JS5697211N	R17893	12_2500_12000	2.976																											
85	JS6603111N	R17893	12_2500_12000	3.003	327	495	35	32	OK	158	159	166	156	149																	
86	JS6603211N	R17893	12_2500_12000	3.003																											
87	JS6603212N	R17893	12_2500_12000	2.997																											
88	JS5618111N	R17893	14_2000_12000	2.765	317	524	36	33	OK	168	170	172	152	152																	
89	JS5618112N	R17893	14_2000_12000	2.767																											
90	JS5618211N	R17893	14_2000_12000	2.765																											
91	JS5639111N	R17893	14_2000_12000	2.767	348	520	34	31	OK	166	168	170	164	164																	
92	JS5639112N	R17893	14_2000_12000	2.765																											
93	JS5639211N	R17893	14_2000_12000	2.767																											
94	JS5669111N	R17893	14_2500_12000	3.457	355	513	34	31	OK	166	168	170	144	134	141																
95	JS5669112N	R17893	14_2500_12000	3.452																											
96	JS5669211N	R17893	14_2500_12000	3.456																											
97	JS5465111N	R17893	16_2500_12000	3.959																											
98	JS5465112N	R17893	16_2500_12000	3.959																											
99	JS5466113N	R17893	16_2500_12000	3.952	361	506	35	30	OK	154	155	162	172	130	141																
100	JS5467111N	R17893	16_2500_12000	3.963	345	505	31	26	OK	158	159	166	172	134	145																
101	JS5467211N	R17893	16_2500_12000	3.963																											
102	JS5468212N	R17893	16_2500_12000	3.961																											
103	JS5469111N	R17893	20_2000_12000	3.900	337	533	33	27	OK	167	168	172	132	156	147																

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Test Certificate No. : HPLT/C/T/2010/14114

Date : 26.11.2022

Material Specification : IS 2041 Grade R260 : 2009 / SA 516 Gr. 70 of ASME Sec II, Part A, Edition 2021

Sales Order No. : 2110082855

P.O. No. : ZET-KA-ARC-12-2

Sold To Party Name : ZETWERK MANUFACTURING BUSINESSES
Ship to Party Name : SHARP TANKS AND STRUCTURALS (P) LTD.

WE CERTIFY THAT THE MATERIAL DESCRIBED BELOW FULLY CONFORMS TO IS:2041-2009, CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING & INSPECTION CONTAINED IN THE BIS CERTIFICATION MARKS LICENCE NO. CM/L-3925976 ARE AS INDICATED BELOW AGAINST EACH ORDER NO. ETC. (PLEASE REFER TO IS:2041-2009 FOR DETAILS OF SPECIFICATION REQUIREMENTS).

Chemical Analysis (%)																																			
Mechanical Properties															Chemical Analysis (%)																				
Sr. No.	Plate No.	Heat No.	Size in mm T _W _L	Weight (Mf.)	Specimen Condition	YS (0.2%) MPa	UTS MPa	%EL GL=50mm GL=5.65xS ₀	Bend 180° & M.R. 1.5T	Hardness			Impact in Joules at -29°C			C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	B	CE				
										1	2	3	1	2	3																	Avg	LA	200 BHN Max	34J Min
1	HY4686000N	P17153	36 2500 11500	8.336	A	374	536	33	31	-	169	170	176	164	168	172	168	LA	0.170	1.152	0.002	0.011	0.314	0.016	0.201	0.181	0.003	0.004	0.016	0.041	0.037	0.0060	0.0003	0.400	
2	HY4687000N	P17153	36 2500 11500	8.392	A	359	528	32	30	-	176	168	170	196	188	206	196	PA	0.166	1.147	0.001	0.010	0.311	0.015	0.204	0.182	0.002	0.005	0.018	0.049	0.036	0.0068	0.0002	0.395	
3	HY4688000N	P17153	36 2500 11500	8.362	A	366	523	32	30	-	169	168	172	152	172	150	158																		
4	HY4689000N	P17153	36 2500 11500	8.356	A	373	521	35	33	-	171	171	169	166	150	210	172																		
5	HY4690000N	P17153	36 2500 11500	8.385	A	357	518	35	33	-	172	170	173	162	182	152	165																		
6	HY4691000N	P17153	36 2500 11500	8.387	A	369	525	33	31	-	175	171	170	186	152	174	171																		
7	HY4692000N	P17153	36 2500 11500	8.366	A	370	538	34	32	-	175	168	168	194	152	170	172																		
8	HY4693000N	P17153	36 2500 11500	8.366	A	365	516	31	29	-	173	171	170	160	184	200	181																		
9	HY4694000N	P17153	36 2500 11500	8.354	A	362	518	35	33	-	168	172	169	194	162	190	182																		
10	HY4695000N	P17153	36 2500 11500	8.389	A	357	533	36	34	-	175	172	173	170	182	204	185																		
11	HY4697000N	P17153	36 2500 11500	8.375	A	360	535	34	32	-	176	174	168	192	178	200	189																		
12	HY4698000N	P17153	36 2500 11500	8.360	A	358	523	36	34	-	168	173	171	190	160	180	177																		
13	HY5097111N	P17153	36 2500 11500	8.344	A	352	538	34	32	-	168	173	172	180	154	162	165																		
14	HY5098111N	P17153	36 2500 11500	8.339	A	349	521	29	27	OK	166	160	162	282	248	270	267																		
					SC	374	511	34	32	OK	151	150	142	274	270	282	275																		
15	HY5099111N	P17153	36 2500 11500	8.357	A	352	532	34	32	-	169	169	168	158	176	180	171																		
16	HY4428000N	Q16439	34 3100 9000	7.693	A	361	517	32	30	OK	176	175	174	172	182	164	173	LA	0.170	1.150	0.002	0.011	0.313	0.016	0.203	0.186	0.002	0.005	0.016	0.046	0.032	0.0054	0.0001	0.401	
17	HY4696000N	Q16439	36 2500 11500	8.374	A	354	533	33	31	OK	169	175	175	154	164	164	161																		
18	HY4699000N	Q16439	36 2500 11500	8.382	A	356	528	36	34	-	174	173	175	168	188	160	165																		
19	HY4700000N	Q16439	36 2500 11500	8.358	A	353	528	34	32	-	173	173	172	198	196	206	200																		
Grand Total				158.260																															
WE CERTIFY THAT THE PLATES HAVE BEEN MANUFACTURED, INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF SA 516 Gr. 70 of ASME Sec II, Part A, Edition 2021.																																			
WE CERTIFY THAT THE MANUFACTURED CONFORMS TO THE STANDARD TOLERANCES.																																			

WE CERTIFY THAT THE PLATES HAVE BEEN MANUFACTURED, INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF SA 516 Gr. 70 of ASME Sec II, Part A, Edition 2021.

Note: (1) The Material Supplied conforms to the Standard Rolling and Weight tolerances.

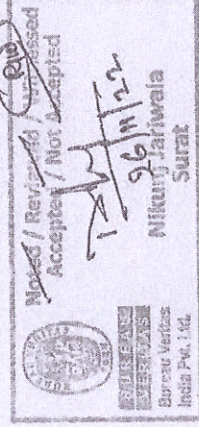


Authorised Signatory (Quality Assurance)
For ArcelorMittal Nippon Steel India Limited
AM/NS/QUAC-PMP/05/F

(Signature)
26/11/2022



Surveyor:
Bureau Veritas



TEST CERTIFICATE FOR HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL

Test Certificate No. 0000216333

To, M/s BHARATKUMAR INDRASEN TRADING PVT. LTD. MUMBAI
36, KAPADIA CHAMBERS, DEVI RATANSEY, MUMBAI PIN-400009 Maharashtra

Date: 25.09.2022
Page 1 of 1

We Certify that the material described below fully conforms to IS 2062 : 2011. Chemical composition and mechanical properties of the product as tested in accordance with the Scheme of testing and inspection contained in the BIS certification marks licence No. CM/L-0005639985 are as indicated below against each Heat Number.

(PLEASE REFER TO IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENT)

Supply Condition: NORMALIZING ROLLING

Deoxidation: Fully Killed

TEST RESULTS

Process of Manufacture: EAF->LRF->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 : IS2062 E250 BR Plate Dimension -Thickness x Width x Length : 80.00mm x 2000mm x 6000mm																																
Chemical Analysis														Mechanical Properties																		
Heat No	Plate No	Wt. MT	No	Pes.	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	

Test Certificate as per EN 10204 Type 3.1

Remarks: 1. Test Certificate as per EN 10204, 2004 Type 3.1

2. Material Specification: IS 2062 Grade B250BR:2011

3. TDC reference: JSPL/ANGUL/TDC-M04083/2022-00 Dtd. 13.03.2020

4. Orientation of Sample: Tensile and Bend is Transverse & Impact is Longitudinal to rolling direction.

30.820 (2 PCS) Tons
Certified that B27831/05A0 to B27831/05D0
of Heat No. B27831/05A0 to B27831/05D0
M/s SHREE TANUKS AND STRUCTURALS CPD UP
Vide Our Chellan Addl No. F22-722-005745
For BHARATKUMAR INDRASEN TRADING PVT. LTD.

The above material supplied conforms to be 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 ASTM A-578 L-B and found ok

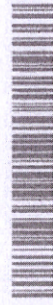
Purchase Order No. & Date: 4500000807 05.09.2022
Despatch Advice No: 62185536
Truck/Wagon No. JSPL00770
* Gauge Length: 5.65(SO)1/2

REC-PM-TSD-14-36, Rev 01, Eff date: 07.10.2020

Prepared by: SANGRAM APLATE
Preparation Date: 25.09.2022 15:46:07
Printing Date: 27.09.2022 & Time 19:01:20

Manager
Engineers India Limited

Deepak Prasad
Authorised Signatory
TSD PlateMill



Test Certificate No. 0000209937

To, M/s BHARATKUMAR INDRASEN TRADING PRIVATE NAVI MUMBAI
LIMITED 1515, KALAMBOLI WAREHOUSING COMPLEX, ROAD NO-17, KALAMBOLI, NAVI MU MUMBAI, PIN-402188 Maharashtra

Date : 26.07.2022
Page 1 of 4

We Certify that the material described below fully conforms to IS 2062 : 2011. Chemical composition and mechanical properties of the product as tested in accordance with the Scheme of testing and inspection contained in the BIS certification marks licence No. CM/I-000583985 are as indicated below against each Heat Number.

(PLEASE REFER TO IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENT)

Supply Condition: NORMALIZING ROLLING

TEST RESULTS

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

Deoxidation : Fully Killed

Material Grade : IS2062 E250 BR Plate Dimension - Thickness x Width x Length : 100.0mm x 2500mm x 6300mm																												Material Grade : IS2062 E250 BR Plate Dimension - Thickness x Width x Length : 40.00mm x 2500mm x 12000mm																												Material Grade : IS2062 E250 BR Plate Dimension - Thickness x Width x Length : 45.00mm x 2500mm x 12000mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Heat No	Plate No	No. of Pcs.	L/P	%C	%Mn	%S	%P	%Si	%Al	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2	CE	YS	UTS	%EL*	Bend Test	Impact Value at(J)				YS	UTS	%EL*	Bend Test	Impact Value at(J)				YS	UTS	%EL*	Bend Test	Impact Value at(J)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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B26010/02A0	1	12.460	✓	0.172	1.02	0.0024	0.022	0.1770	0.024	0.004	0.001	0.001	0.003	0.0010	0.014	0.0004	0.022	51	0.34	322	478	32	OK(3.0 T)	117	100	97	104.66	25	1.0	302	484	29	OK(3.0 T)	117	100	97	104.66	25	1.0	302	484	29	OK(3.0 T)	117	100	97	104.66	25	1.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Material Grade : IS2062 E250 BR Plate Dimension - Thickness x Width x Length : 40.00mm x 2500mm x 12000mm																												Material Grade : IS2062 E250 BR Plate Dimension - Thickness x Width x Length : 45.00mm x 2500mm x 12000mm																												Material Grade : IS2062 E250 BR Plate Dimension - Thickness x Width x Length : 45.00mm x 2500mm x 12000mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Heat No	Plate No	No. of Pcs.	L/P	%C	%Mn	%S	%P	%Si	%Al	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2	CE	YS	UTS	%EL*	Bend Test	Impact Value at(J)				YS	UTS	%EL*	Bend Test	Impact Value at(J)				YS	UTS	%EL*	Bend Test	Impact Value at(J)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
A23276/01B0	1	9.500	1	0.172	0.87	0.0030	0.022	0.1200	0.022	0.004	0.001	0.001	0.002	0.0010	0.008	0.0004	0.023	58	0.32	302	459	27	OK(3.0 T)	168	159	174	167.00	25	1.0	319	472	28	OK(3.0 T)	168	159	174	167.00	25	1.0	319	472	28	OK(3.0 T)	168	159	174	167.00	25	1.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Certified that.....Tons

specifications and B2601002508 to
SHARP TANKS AND STRUCTURALS (P) Limited
M/s SHARP TANKS AND STRUCTURALS (P) Limited
Vide Our Challan / Bill No. F2272200788

Deepak Prasad
Authorized Signatory
TSD Plate Mill

STSP - HRRI. SITE
Purchase Order
Despatch Advice
Truck/Wagon No.
* Gauge Length: 10.202

REVIEW AND
ACCEPTED
REC-OM-1588
28/9/22

Noted / Reviewed / Witnessed
Accepted / Not Accepted
Rajdeep Singh
Delhi
Bureau Veritas
India Pvt. Ltd.

Shri SHARAT KUMAR INDRASEN TRADING PVT. LTD.
Preparation Date: 26.07.2022 11:51:10
Drinking Date: 27.07.2022 & Time 19:25:00

Deepak Prasad
Authorized Signatory
TSD Plate Mill

Test Certificate No. : 0000598855

Customer: M/s MAHALAXMI TRADING CORPORATION,

WORKS: KHASRA NO-56/3 & 56/5, KAPSI KHURD, NAGPUR, PIN-441104 Maharashtra

Date : 05.05.2023 Time : 16:53:39

Page 1 of 1
We certify that the material described below fully conforms to IS 2062:2011. Chemical composition and mechanical properties of the product as tested in accordance with the scheme of testing and inspection carried in the BIS certification marks licence No. CM/L-8558192 are as indicated below against each Heat Number.

Product of Manufacture : EAF/NOF-LRF-CCM-Hot Rolling

(PLEASE REFER TO IS:2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENT)
TEST RESULTS

Supply Condition : As Rolled
Deoxidation : Killed (Si&Al)

Heat No.	Pcs/ Bndl	Weight in MT	Chemical Analysis															Mechanical Properties					
			L/P	%C	%S	%P	%Si	%Mn	%AL	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2 ppm	CE	YS MPa	UTS MPa	%EL**	Bend Test
			Min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350	490	22	
			Max	0.20	0.045	0.045	0.45	1.55									120	0.47					

Chemical Analysis																						
Sectional Weight (Mtr) & Grade NPB 310.4X166.9X13.7X7.9X54.0 & IS2062 F350BR																						
Heat No.	1	5.276	T	0.19	0.006	0.020	0.21	1.35	0.030	0.007	0.035	0.001	0.002	0.004	0.012	0.0002	0.025	64	0.42	393	556	27
	3	15.728	PA	0.18	0.008	0.018	0.21	1.36	0.034	0.012	0.037	0.003	0.001	0.004	0.013		0.027	63	0.42	394	554	26
			T	0.17	0.007	0.018	0.20	1.34	0.024	0.007	0.035	0.002	0.002	0.007	0.013	0.0003	0.030	74	0.41	397	559	27
	1	5.256	PA	0.16	0.009	0.016	0.22	1.35	0.028	0.012	0.038	0.004	0.002	0.007	0.014		0.031	73	0.40	395	555	26
			T	0.17	0.007	0.018	0.20	1.34	0.024	0.007	0.035	0.002	0.002	0.007	0.013	0.0003	0.030	74	0.41	397	559	27
			PA	0.16	0.009	0.016	0.21	1.35	0.028	0.012	0.038	0.004	0.001	0.007	0.014		0.031	73	0.40	395	555	26
Section Total:	5	26.260																				
Total:	5	26.260																				

THIS IS CERTIFICATE THAT MT 5260

MATERIAL CONVERTED UNDER THIS CERTIFICATE

SOLD TO M/s Shoupprunk & Sule P UO

WIDE OUR SALE BILL NO 2213 DT 17/10/23

THROUGH VEHICLE NO. RJ42GA559V

Section(s) is / are equivalent to the following section(s) respectively: UB 305X165X54

The material conforms to the standard rolling tolerances as IS 12779

The above section(s) is / are equivalent to the following section(s) respectively : ** Gauge Length = 5.65sqrt(So)

For Purchase Order No. & Date : OT23Y-00166/27.04.2023

For Purchase Advice No : 9892799

For Sales Wagon No.: MH40CM0903

Issued by : JKSINGH Printing Date 05.05.2023 & Time 16:56:53

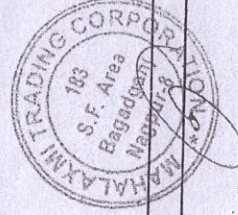
FORMAT No. F-09(8.6.0-10)/ISSUE 02 DT 02.08.2017

NO. SR23Y-02713 - 1910123 - DD-ST-RJ-MAH16-15

Authorised signatory (Quality Control)
For Jindal Steel & Power Limited



Niraj Kumar



Test Certificate No.: G000630491

MAHALAXMI TRADING CORPORATION,
SUKHIA SRA MO-56/3 & 56/5, KAPSI KHURD,
RAIPUR (C) Maharashtra India PIN-441104

TEST CERTIFICATE FOR HOT ROLLED MEDIUM & HIGH TENSILE STRUCTURAL STEEL
Test Method : Tensile : IS 1608 ; Bend : IS 1599 ; Impact : IS 1757 ; Chemical : ASTM E 415 / IS 8811

Date : 09.10.2023 Time : 18:21:03

Page 1 of 1

We certify that the material described below fully conforms to IS 2062:2011. Chemical composition and mechanical properties of the product as tested in accordance with the scheme of testing and inspection contained in the BIS certification marks licence No. CM/L-8558192 are as indicated below against each Heat Number.

For use of Manufacturer : EAF/NOF-LRF-CCM-Hot Rolling

(PLEASE REFER TO IS:2062-2011 FOR DETAILS OF SPECIFICATION REQUIREMENT)

Supply Condition : As Rolled
Deoxidation : Killed(Si&Al)

TEST RESULTS																								
Heat No.		Pcs/3ndl	Weight in MT	Chemical Analysis												Mechanical Properties								
				L/P	%C	%S	%P	%Si	%Mn	%AL	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2 ppm	CE	YS MPa	UTS MPa	%EL**	Bend Test
Manufacturer : EAF/NOF-LRF-CCM-Hot Rolling				Min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350	490	22	
				Max	0.20	0.045	0.045	0.45	1.55									120	0.47					
Grade : ANGLE 75X75X8 & IS2062 F350BR																								
20493	✓	1	4.959	T	0.18	0.008	0.018	0.22	1.33	0.032	0.007	0.002	0.019	0.002	0.001	0.010	0.0003	0.021	66	0.41	411	559	30	Satisfactory(2.0T)
20493	✓			PA	0.18	0.007	0.017	0.22	1.32	0.031	0.006	0.003	0.019	0.002		0.009	0.0002	0.020	65	0.40	408	555	33	Satisfactory(2.0T)
20495	✓	4	21.741	T	0.17	0.010	0.019	0.21	1.36	0.039	0.007	0.002	0.018	0.002	0.002	0.010	0.0003	0.022	70	0.40	418	563	31	Satisfactory(2.0T)
20495	✓			PA	0.16	0.009	0.018	0.20	1.35	0.038	0.006	0.003	0.018	0.002	0.001	0.009	0.0002	0.021	69	0.40	410	560	32	Satisfactory(2.0T)
20496	✓	1	0.980	T	0.18	0.012	0.019	0.19	1.35	0.037	0.008	0.002	0.019	0.002	0.001	0.010	0.0003	0.018	67	0.41	415	564	29	Satisfactory(2.0T)
20496	✓			PA	0.17	0.011	0.018	0.19	1.34	0.036	0.007	0.001	0.018	0.001		0.009	0.0002	0.017	66	0.40	411	559	32	Satisfactory(2.0T)
Section Total :			5																					
Total :			6																					

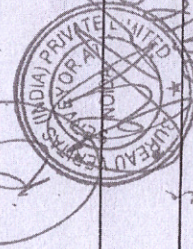
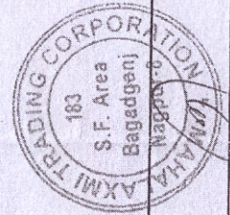
THIS IS CERTIFICATE THAT MT 25-220

MATERIAL CONVERTED UNDER THIS CERTIFICATE

SOLD TO M/S SHARU TRADING & SAW PVT

WIDE OUR SALE BILL NO. 2213 DT 17/10/23

THROUGH VEHICLE NO. RJV2GA594



For use per EN 10222- Type 3.1

The material supplied conforms to the standard rolling tolerances as per IS: 1852.

Place of Melting and Casting : Jindal Steel & Power Ltd, Raigarh, Chhattisgarh, India

Place of Hot Rolling : Jindal Steel & Power Ltd, Raigarh, Chhattisgarh, India

For use per EN 10222- Type 3.1

For use per EN 10222- Type 3.1

For use per EN 10222- Type 3.1

For use per EN 10222- Type 3.1

For use per EN 10222- Type 3.1

Niraj Kumar

Authorised signatory (Quality Control)
For Jindal Steel & Power Limited

TEST CERTIFICATE FOR HOT ROLLED MEDIUM & HIGH TENSILE STRUCTURAL STEEL
Test Method : Tensile : IS 1608 ; Bend : IS 1599 ; Impact : IS 1757 ; Chemical : ASTM E 415 / IS 8811
Date : 15.03.2024 Time : 17:05:01

Test Certificate No. : 0000658623

To, (10799) MAHALAXMI TRADING CORPORATION,
WORKS:KHASRA NO-56/3 & 56/5,KAPSI KHURD,
NAGPUR Maharashtra India PIN-441104

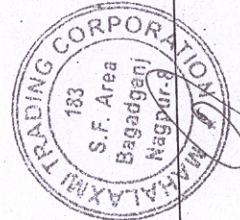
We certify that the material described below fully conforms to IS 2062:2011. Chemical composition and mechanical properties of the product as tested in accordance with the scheme of testing and inspection contained in the BIS certification marks licence No. CM/L-8558192 are as indicated below against each Heat Number.

(PLEASE REFER TO IS:2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENT)

Supply Condition : As Rolled
Deoxidation : Killed(Si&Al)

(PLEASE REFER TO IS:2002-2001 & TEST RESULTS																				Mechanical Properties				
Process of Manufacture : EAF/NOF-LRF-CCM-Hot Rolling																Chemical Analysis								
Heat No.	Pcs/ Bndl	Weight in MT	L/P	%C	%S	%P	%Si	%Mn	%AL	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2 ppm	CE	YS MPa	UTS MPa	%EL**	Bend Test	
			Min	-	-	-	-	-	-	-	-			-	-						350	490	22	
			Max	0.20	0.045	0.045	0.45	1.55										120	0.47					
Section & Grade ISMC 300X90X36.3 & IS2062 E350BR																								
4325490	3	21.077	T	0.18	0.004	0.021	0.20	1.40	0.034	0.008	0.035	0.002	0.002	0.006	0.011	0.0003	0.024	64	0.42	402	562	30	Satisfactory(2.0T)	
4325490			PA	0.17	0.005	0.022	0.21	1.40	0.036	0.009	0.037	0.003	0.003	0.007	0.012		0.025	65	0.41	403	561	30	Satisfactory(2.0T)	
4325491	1	7.043	T	0.17	0.004	0.017	0.21	1.36	0.035	0.007	0.035	0.002	0.002	0.005	0.010	0.0002	0.024	61	0.41	404	563	30	Satisfactory(2.0T)	
4325491			PA	0.18	0.005	0.018	0.23	1.35	0.037	0.008	0.037	0.003	0.003	0.006	0.011		0.025	62	0.41	403	564	31	Satisfactory(2.0T)	
Section Total :		4	28.120																					
Total :		4	28.120																					

THIS IS CERTIFICATE THAT MT 15840
MATERIAL CONVERTED UNDER THIS CERTIFICATE
SOLD TO MISS SHYAMPOK & SHAW PVT
USE OUR SALE BILL NO 526 DT 30/12/24
THROUGH VEHICLE NO RJU7GA261D



TC as per EN10204 Type 3.1

** Gauge Length = 5.65sqrt(So)

The material supplied conforms to the standard rolling tolerances as per IS:1852.

HSN Code : 7216 50 00

Place of Melting and Casting : Jindal Steel & Power Ltd, Raigarh, Chhattisgarh, India

Place of Hot Rolling : Jindal Steel & Power Ltd, Raigarh, Chhattisgarh, India

Purchase Order No. & Date : OT23Y-01914/09.03.2024
Despatch Advice No : 9924224
Truck/Wagon No. : GJ12BX9251
Created by : SPM AUTO Printing Date 15.03.2024 & Time 17:17:24
FORMAT No. F-09(8.6.0-10)/ISSUE 02 DT 02.08.2017

M. Nivaj Kumar

Authorised signatory (Quality Control)
For Jindal Steel & Power Limited

JINDAL STEEL & POWER LIMITED
Post Box No. 16, Kharsia Road, Raigarh(Chhattisgarh)-PIN 496 001, INDIA
Registered Office : Post Box No. 6, O.P. Jindal Marg, Hisar (Haryana)
Corporate Office : Jindal Centre, 12 Bhikaji Cama Place, New Delhi- 110066 INDIA
Phone: (07762) 227001-227010; Fax: 07762-227021-227022; Gram : PIG IRON
Email : bsm.qc.igh@jindalsteel.com

TEST CERTIFICATE FOR HOT ROLLED MEDIUM & HIGH TENSILE STRUCTURAL STEEL
Test Method : Tensile : IS 1608 ; Bend : IS 1599 ; Impact : IS 1757 ; Chemical : ASTM E 415 / IS 8811

Date : 28.04.2024 Time : 03:35:58
Page 1 of 1

Test Certificate No. : 0000666179
To, (10799) MAHALAXMI TRADING CORPORATION,
WORKS:KHASRA NO:56/3 & 56/5,KAPSI KHURD,
NAGPUR Maharashtra India PIN-441104

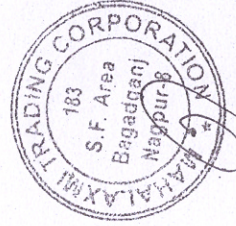
We certify that the material described below fully conforms to IS 2062:2011. Chemical composition and mechanical properties of the product as tested in accordance with the scheme of testing and inspection contained in the BIS certification marks licence No. CMIL-8558192 are as indicated below against each Heat Number.
(PLEASE REFER TO IS:2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENT)

Supply Condition : As Rolled

Heat No.	Pcs / Bndl	Weight in MT	Chemical Analysis													Mechanical Properties												
			L/P	%C	%S	%P	%Si	%Mn	%Al	%CU	N2 (ppm)	%V	%Nb	%Ti	CE	%Cr	%MO	%Ni	Bend Test	YS MPa	UTS MPa	%EL**	Temp °C	Orien	I	II	III	Avg.
			Min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		350	490	22						27
			Max	0.20	0.045	0.045	0.45	1.55			120				0.47													
Section & Grade: NPB 251.4X146.1X8.6X6.0X31.1 & IS2062 F350BR																												
4415796	5	30.950	T	0.17	0.008	0.023	0.20	1.37	0.028	0.009	67	0.036	0.003	0.003	0.41	0.024	0.007	0.010	Satisfactory(2.0T)	391	563	29	RT	L	86	90	86	87
4415796			PA	0.16	0.007	0.022	0.20	1.36	0.027	0.008	66	0.035	0.002	0.002	0.40	0.023	0.006	0.009	Satisfactory(2.0T)	402	561	29	RT	L	96	88	96	93
Section Total :		5																										
Grand Total :		5																										

THE SECTION(S) IS /ARE EQUIVALENT TO THE FOLLOWING SECTION(S) RESPECTIVELY: UB 254X146X31

THIS IS CERTIFICATE THAT WT 15900
MATERIAL CONVERTED UNDER THIS CERTIFICATE
DUE TO HIS STOP TONK & STAMP P UT
OUR SALE BILL NO. SEC DT 30/05/24
**BUSH VEHICLE NO. RJUD6A2610



TC AS PER EN10204 TYPE 3.1

** Gauge Length = 5.65 Sqrt (So)

Place of Hot Rolling : Jindal Steel & Power Ltd Raigarh, Chhattisgarh, India

HSN Code : 7216 32 00

Place of Melting and Casting : Jindal Steel & Power Ltd Raigarh, Chhattisgarh, India

Purchase Order No. & Date : OT24Y-00107/20.04.2024
Despatch Advice No : 9928617
Truck/Wagon No.: MH40CT8832
Created by : SPM AUTC Printing Date 28.04.2024 & Time 03:53:00
FORMAT No. F-09(8.6.0-10)/ISSUE 02 DT 02.08.2017

Authorised Signatory (Quality Control)
For Jindal Steel & Power Limited

Niraj Kumar

Works : Kh. No. 52/1&60 Mouza Bhovri Bhandara Road Nagpur
 Phones : 0712 2764239 Mo: 9373425523
 Regd Office : First Floor, 183 Small Factory Area, Bagadganj, Nagpur - 440 008



Divyansh Steel Private Limited
 TEST CERTIFICATE NO : DSPL/1871/23

TEST CERTIFICATE FOR HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL
 DATE: 23.05.2024

TO: MS MAHALAXMI TRADING CORPN. NAGPUR

We certify that the material described below fully conforms to IS 2062:2011, Chemical Composition and Mechanical properties of the product as tested in accordance with the Scheme of Testing and Inspection contained in the BIS Certification Mark License No. CNL/ 7885309 as indicated below against each order no.

(PLEASE REFER TO IS 2062 : 2011 FOR DETAILS OF THE SPECIFICATION REQUIREMENTS)

TEST RESULTS

ORDER NO. & DATE	SECTION SIZE	QMS	CAST. BATCH NO.	QUANTITY (MT)	CHEMICAL ANALYSIS (%)												Yield Stress (N/mm ²)	Ultimate Tensile Stress (N/mm ²)	Elongation %	Bend Test	IMPACT TEST			GRADE	RE-MARKS
					C	S	P	Si	Mn	Cr	Ni	V	Al	Nb	Ti	Cu					1	2	3	Avg	
MAIL	HTA 50X50X6		DSIM/1101/23-24	20.830	0.190	0.025	0.030	0.200	1.32	0.010	0.011	0.005	0.0005	0.020	0.001	0.410	441.56	564.20	27.54	OK	—	—	—	—	OK
MAIL	HTA 65X65X6		DSIM/1139/23-24	15.010	0.180	0.020	0.035	0.204	1.29	0.011	0.010	0.005	0.0005	0.019	0.001	0.595	426.26	541.10	29.00	OK	—	—	—	—	OK

Micro alloying element present should be indicated

The material supplied conforms to the specified dimension & tolerances.

REMARKS : - OK
 INVOICE NO : - 422
 WAGON NO : -
 TRUCK NO : - MH 40 BG 9362

(Q.C.MANAGER)

For Divyansh Steel Pvt. Ltd.

A-65X6
 THIS IS CERTIFICATE THAT MT 6.920 MT. THIS IS CERTIFICATE THAT MT 13.540 MT
 MATERIAL CONVERTED UNDER THIS CERTIFICATE MATERIAL CONVERTED UNDER THIS CERTIFICATE
 SOLD TO M/S SHARAD TANKS & ST. (P) LTD., SOLD TO M/S SHARAD TANKS & ST. (P) LTD.
 VIDE OUR SALE BILL NO. 1412 - DT 14/08/24 VIDE OUR SALE BILL NO. 1412 - DT 14/08/24
 THROUGH VEHICLE NO RJ 06660206 THROUGH VEHICLE NO RJ 06660206



MAHARASHTRA SEAMLESS LIMITED
WORKS (MILL) TEST CERTIFICATE

EN 10204 : 3.2

Customer	VINAYAK PIPES & TUBES PVT. LTD	OD X Wall Thick (mm)	168.3 X 7.11	Test Certificate No.	MSL-7/OC/0212/2024
P.O. No.	PO / 23-24 / 0000324 Dt. 19-MAR-24	Length Range (MTR)	5 to 6.4	Date	24-MAY-24
OC / Loading Slip No.	18230418	Total Length (MTR)	1024.37 (173 Pcs.)		
Specification	ASME SA 106 GR.B 2023	Material Code			
Process/Type of Pipe	Hot Finished Seamless Carbon Steel Pipes				

A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM E-415																				B) Special/Suppl. Reqt.					
Sr. No.	Heat No.	Test Unit	Analysis	C	Mn	Si	P	S	Cr	Mo	Ni	Cu	V	Nb	Ti	Nb+V	Nb+V+Ti	B	Ca	Al	N	A/N	Cu+Ni	CE Pcm	CE (IIV)
Req.	Min	Max		0.300	0.290	0.100	0.035	0.035	0.400	0.150	0.400	0.400	0.080												
1	AA12992	H		0.130	0.720	0.230	0.007	0.005	0.015	0.001	0.006	0.004	0.0050	0.0010	0.0010	0.0060	0.0070	0.0003	0.0014	0.029	0.0074	3.92	0.0100		0.255
		P1		0.129	0.692	0.280	0.012	0.005	0.021	0.004	0.001	0.008	0.0018	0.0000	0.0041	0.0018	0.0059	0.0000	0.0000	0.042	0.0000	.00	0.0090		0.250
		P2		0.137	0.693	0.300	0.013	0.005	0.020	0.005	0.001	0.008	0.0017	0.0000	0.0043	0.0017	0.0060	0.0000	0.0000	0.043	0.0000	.00	0.0090		0.258
2	AA13538	H		0.140	0.690	0.220	0.018	0.004	0.018	0.001	0.006	0.005	0.0040	0.0020	0.0010	0.0060	0.0070	0.0003	0.0014	0.034	0.0077	4.42	0.0110		0.260
		P1		0.142	0.692	0.223	0.017	0.004	0.017	0.001	0.006	0.005	0.0042	0.0000	0.0015	0.0042	0.0057	0.0000	0.0000	0.033	0.0000	.00	0.0110		0.263
		P2		0.141	0.691	0.222	0.018	0.004	0.018	0.001	0.006	0.006	0.0043	0.0000	0.0014	0.0043	0.0057	0.0000	0.0000	0.033	0.0000	.00	0.0120		0.262
3	AA13539	H		0.130	0.710	0.210	0.002	0.005	0.015	0.002	0.006	0.005	0.0040	0.0020	0.0010	0.0060	0.0070	0.0003	0.0020	0.048	0.0088	5.45	0.0110		0.253
		P1		0.131	0.711	0.211	0.002	0.005	0.014	0.002	0.006	0.005	0.0042	0.0000	0.0011	0.0042	0.0053	0.0000	0.0000	0.047	0.0000	.00	0.0110		0.254
		P2		0.132	0.712	0.212	0.002	0.005	0.015	0.002	0.006	0.005	0.0041	0.0000	0.0012	0.0041	0.0053	0.0000	0.0000	0.048	0.0000	.00	0.0110		0.256
4	AB1363	H		0.180	1.030	0.240	0.010	0.006	0.010	0.002	0.008	0.002	0.0005	0.0002	0.0005	0.0007	0.0012	0.0002	0.0030	0.032	0.0068	4.71	0.0100		0.355
		P1		0.170	1.023	0.246	0.012	0.007	0.012	0.002	0.007	0.001	0.0009	0.0000	0.0006	0.0009	0.0015	0.0000	0.0000	0.034	0.0000	.00	0.0080		0.344
		P2		0.175	1.030	0.250	0.012	0.007	0.012	0.002	0.008	0.001	0.0007	0.0000	0.0005	0.0007	0.0012	0.0000	0.0000	0.032	0.0000	.00	0.0090		0.350
5	AC245	H		0.200	1.310	0.320	0.018	0.004	0.022	0.001	0.005	0.004	0.0010	0.0010	0.0028	0.0020	0.0048	0.0002	0.0025	0.030	0.0064	4.69	0.0090		0.424
		P1		0.195	1.260	0.320	0.017	0.003	0.021	0.004	0.004	0.003	0.0010	0.0000	0.0025	0.0010	0.0035	0.0000	0.0000	0.033	0.0000	.00	0.0070		0.411
		P2		0.193	1.280	0.330	0.017	0.003	0.023	0.005	0.004	0.004	0.004	0.0010	0.0000	0.0024	0.0010	0.0034	0.0000	0.032	0.0000	.00	0.0080		0.412

C) MECHANICAL PROPERTIES					Reference standard ASTM A 370 & E-8				Reference standard ASTM A370 & ASTM E-23				Reference standard ASTM E-18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Sl. No.	Heat No.	Test Unit	Quantity		Name of the Steel Maker and address / Supplier Heat No.	Tensile Testing(Location:PipeBody)		CVN Impact Test(Pipe Body)	Through Wall Hardness (Pipe Body)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			Pcs.	MTR		Orientation	YST (Mpa)		UTS (Mpa)	NAT/UTS Ratio	EL(%)	Absorbed Energy (J)	% Shear Area	Hardness (HRB)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Req.	Min.	Max.				G.L.=50 mm	Nom. Width 25.4 mm -L	Temperature:	Size&Orientn.: mm				Transverse Direction																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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1	AA12992	16	101.47	JSW Ispat Special Products Ltd. Monnet, Village & Post Naharapalli, Tehsil Kharsia, Raigarh, Chattisgarh, India / M000807A	L	308	437	0.70	36																
2	AA13538	20	116.51	JSW Ispat Special Products Ltd. Monnet, Village & Post Naharapalli, Tehsil Kharsia, Raigarh, Chattisgarh, India / M012261B	L	382	497	0.73	34																
3	AA13539	99	386.69	JSW Ispat Special Products Ltd. Monnet, Village & Post Naharapalli, Tehsil Kharsia, Raigarh, Chattisgarh, India / M012260B	L	324	451	0.72	37																
4	AB1363	18	103.84	Jindal Steel & Power Ltd., Kharsia Road, Raigarh, Chattisgarh, India / 3321613	L	381	502	0.76	33																
5	AC245	20	115.86	Jindal Steel & Power Ltd., Kharsia Road, Raigarh, Chattisgarh, India / 3323674	L	373	540	0.69	37																

