



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717510628
DATE : 03.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED				SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011												UT STD. : EN10160 S2 E3																		
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024				GRADE : S355J0+N / E350B0												Impact Temp.(°C) : 0																		
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks									
							1		2		%RA	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	1	2	3	AVG										
							Min	355	490	22		355	490	22		355	490	22			S25-T, >25-	---	27	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	355	490	22	---	355	490	22	---	27	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---				
1	24LP0503B1	A035217	12.80	2981	11539	3.456	385	559	26	---	408	540	28	---	OK	71	127	84	94	---	---	---	---	---	---	---	---	---	---	---				
2	24LP0504B1	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	349	245	333	309	---	---	---	---	---	---	---	---	---	---	---				
3	24LP0180A1	B035380	15.60	2982	13436	4.907	411	547	26	---	420	547	30	---	OK	356	379	373	369	---	---	---	---	---	---	---	---	---	---	---				
4	24LP0728A1	A035070	26.30	2980	14051	8.645	437	563	27	---	458	568	29	---	---	234	224	245	234	---	---	---	---	---	---	---	---	---	---	---				
5	24LP0730A1	A035213	26.30	2980	14051	8.645	413	547	25	---	398	554	28	---	---	200	265	304	256	---	---	---	---	---	---	---	---	---	---	---				
6	24LP0231A1	B035370	33.00	2980	14051	10.847	430	535	27	---	422	531	28	---	---	281	266	243	263	---	---	---	---	---	---	---	---	---	---	---				
Chemical Composition (%)																																		
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm										
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---					
A035217		0.150	1.360	0.003	0.018	0.196	0.018	0.007	0.008	0.015	0.004	0.027	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.015	0.034	6.17	0.38	0.23											
A035274		0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23											
B035380		0.151	1.390	0.003	0.013	0.200	0.018	0.008	0.010	0.019	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.048	0.018	0.037	10.00	0.39	0.23											
A035070		0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24											
A035213		0.150	1.358	0.002	0.017	0.195	0.023	0.007	0.010	0.019	0.004	0.025	0.001	0.046	0.0060	0.0010	0.0000	0.048	0.017	0.041	7.67	0.38	0.23											
B035370		0.135	1.430	0.003	0.015	0.208	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.055	0.0050	0.0020	0.0000	0.063	0.022	0.045	11.00	0.38	0.22											
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm										
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---					
A035217		0.147	1.346	0.003	0.018	0.192	0.018	0.007	0.008	0.015	0.004	0.027	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.015	0.034	6.10	0.38	0.22											
A035274		0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24											
B035380		0.149	1.375	0.003	0.013	0.197	0.018	0.008	0.010	0.019	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0000	0.048	0.018	0.037	10.00	0.38	0.23											
A035070		0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24											
A035213		0.148	1.344	0.002	0.017	0.193	0.023	0.007	0.010	0.019	0.004	0.025	0.001	0.045	0.0059	0.0010	0.0000	0.048	0.017	0.041	7.63	0.38	0.22											
B035370		0.134	1.416	0.003	0.015	0.206	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.054	0.0049	0.0020	0.0000	0.063	0.022	0.045	11.02	0.38	0.21											

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717507994
DATE : 03.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)	Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks									
							1				2					Longitudinal				1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA	1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		1	2	3	Avg														
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		NA	---	---	27	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---						
1	24LP0502B1	A035217	12.80	2981	11539	3.456	385	559	26	---	408	540	28	---	OK	71	127	84	94	---	---	---	---	---	---	---	---						
2	24LP2418A1	A033371	24.50	2980	14051	8.053	438	549	32	---	442	554	29	---	OK	406	412	408	409	---	---	---	---	---	---	---	---						
3	24LP0727A1	A035213	26.30	2980	14051	8.645	413	547	25	---	398	554	28	---	---	200	265	304	256	---	---	---	---	---	---	---	---						
4	24LP0735A1	A036345	26.30	2980	14051	8.645	434	550	26	---	429	542	28	---	---	216	217	208	214	---	---	---	---	---	---	---	---						
5	24LP0367A1	B035370	33.00	2980	14051	10.847	430	535	27	---	422	531	28	---	---	281	266	243	263	---	---	---	---	---	---	---	---						

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
A035217	0.150	1.360	0.003	0.018	0.196	0.018	0.007	0.008	0.015	0.004	0.027	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.015	0.034	6.17	0.38	0.23	
A033371	0.136	1.478	0.003	0.013	0.203	0.018	0.006	0.007	0.026	0.005	0.036	0.001	0.051	0.0050	0.0020	0.0000	0.067	0.013	0.032	10.20	0.39	0.22	
A035213	0.150	1.358	0.002	0.017	0.195	0.023	0.007	0.010	0.019	0.004	0.025	0.001	0.046	0.0060	0.0010	0.0000	0.048	0.017	0.041	7.67	0.38	0.23	
A036345	0.155	1.370	0.003	0.012	0.202	0.012	0.007	0.011	0.018	0.005	0.025	0.001	0.037	0.0050	0.0010	0.0000	0.048	0.018	0.031	7.40	0.39	0.23	
B035370	0.135	1.430	0.003	0.015	0.208	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.055	0.0050	0.0020	0.0000	0.063	0.022	0.045	11.00	0.38	0.22	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
A035217	0.147	1.346	0.003	0.018	0.192	0.018	0.007	0.008	0.015	0.004	0.027	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.015	0.034	6.10	0.38	0.22	
A033371	0.135	1.463	0.003	0.013	0.201	0.018	0.006	0.007	0.026	0.005	0.036	0.001	0.050	0.0049	0.0020	0.0000	0.067	0.013	0.032	10.20	0.38	0.22	
A035213	0.148	1.344	0.002	0.017	0.193	0.023	0.007	0.010	0.019	0.004	0.025	0.001	0.045	0.0059	0.0010	0.0000	0.048	0.017	0.041	7.63	0.38	0.22	
A036345	0.159	1.377	0.003	0.012	0.207	0.012	0.007	0.011	0.018	0.005	0.026	0.001	0.038	0.0051	0.0010	0.0001	0.049	0.018	0.031	7.45	0.39	0.24	
B035370	0.134	1.416	0.003	0.015	0.206	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.054	0.0049	0.0020	0.0000	0.063	0.022	0.045	11.02	0.38	0.21	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717506584
DATE : 03.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1				2					Longitudinal						1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		2												
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	1	2	3	Avg	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LP0501B1	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	349	245	333	309	---	---	---	---	---	---	---	---	---					
2	24LP0506B1	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---	---					
3	24LP0232A1	B035370	33.00	2980	14051	10.847	430	535	27	---	422	531	28	---	---	281	266	243	263	---	---	---	---	---	---	---	---	---					
4	24LP0469A1	A035366	33.00	2980	14051	10.847	443	569	27	---	422	549	28	---	---	235	259	242	245	---	---	---	---	---	---	---	---	---					
5	24LP0600A1	B035292	33.60	2980	14051	11.044	424	541	29	---	425	559	23	---	---	267	319	278	288	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035274	0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23
	A035268	0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23
	B035370	0.135	1.430	0.003	0.015	0.208	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.055	0.0050	0.0020	0.0000	0.063	0.022	0.045	11.00	0.38	0.22
	A035366	0.143	1.420	0.003	0.016	0.243	0.018	0.007	0.010	0.024	0.002	0.033	0.001	0.046	0.0050	0.0010	0.0000	0.059	0.017	0.036	9.20	0.39	0.22
	B035292	0.154	1.370	0.003	0.018	0.197	0.019	0.007	0.010	0.017	0.004	0.026	0.001	0.044	0.0050	0.0010	0.0000	0.047	0.017	0.037	8.80	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	A035274	0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24
	A035268	0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23
	B035370	0.134	1.416	0.003	0.015	0.206	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.054	0.0049	0.0020	0.0000	0.063	0.022	0.045	11.02	0.38	0.21
	A035366	0.141	1.406	0.003	0.016	0.240	0.018	0.007	0.010	0.024	0.002	0.033	0.001	0.045	0.0049	0.0010	0.0000	0.059	0.017	0.036	9.18	0.38	0.22
	B035292	0.151	1.358	0.003	0.018	0.193	0.019	0.007	0.010	0.017	0.004	0.026	0.001	0.043	0.0049	0.0010	0.0001	0.047	0.017	0.037	8.78	0.38	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717506168
DATE : 03.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks					
							1			2				Longitudinal						1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	25-2T, >25-	---	27	---	---	---	---	---	---	---	---	---					
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-2T, >25- NA		---	27	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---			---	---	---	---	---	---	---	---	---	---					
1	24LP090B1	A036347	18.00	2542	11539	4.145	459	564	26	---	416	546	25	---	OK	366	221	377	321	---	---	---	---	---	---	---					
2	24LP0940A1	B035056	27.00	2980	14051	8.875	413	545	28	---	414	545	23	---	---	277	305	259	280	---	---	---	---	---	---	---					
3	24LP0253A1	A035055	28.30	2980	14051	9.302	431	551	32	---	446	578	28	---	---	388	333	335	352	---	---	---	---	---	---	---					
4	24LP0254A1	B035212	28.30	2980	14051	9.302	440	566	26	---	436	558	27	---	---	345	358	338	347	---	---	---	---	---	---	---					
5	24LP1187A1	B035095	28.30	2980	14051	9.302	423	556	29	---	401	565	27	---	---	332	306	314	317	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A036347	0.162	1.380	0.003	0.018	0.216	0.014	0.007	0.010	0.020	0.005	0.025	0.001	0.044	0.0060	0.0020	0.0000	0.050	0.017	0.032	7.33	0.40	0.24
	B035056	0.151	1.380	0.002	0.018	0.188	0.026	0.013	0.010	0.017	0.002	0.030	0.001	0.045	0.0050	0.0010	0.0000	0.049	0.023	0.050	9.00	0.39	0.23
	A035055	0.158	1.350	0.004	0.016	0.195	0.023	0.009	0.009	0.018	0.002	0.029	0.001	0.050	0.0040	0.0010	0.0000	0.049	0.018	0.042	12.50	0.39	0.23
	B035212	0.150	1.360	0.001	0.016	0.201	0.019	0.007	0.008	0.019	0.004	0.025	0.001	0.049	0.0060	0.0020	0.0000	0.048	0.015	0.035	8.17	0.38	0.23
	B035095	0.162	1.380	0.003	0.017	0.208	0.023	0.009	0.009	0.018	0.002	0.025	0.001	0.050	0.0060	0.0010	0.0000	0.045	0.018	0.042	8.33	0.40	0.24

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	A036347	0.159	1.368	0.003	0.018	0.212	0.014	0.007	0.010	0.020	0.005	0.025	0.001	0.043	0.0059	0.0020	0.0002	0.050	0.017	0.032	7.29	0.39	0.24
	B035056	0.149	1.365	0.002	0.018	0.185	0.026	0.013	0.010	0.017	0.002	0.030	0.001	0.044	0.0049	0.0010	0.0000	0.049	0.023	0.050	8.98	0.38	0.23
	A035055	0.155	1.337	0.004	0.016	0.191	0.023	0.009	0.009	0.018	0.002	0.028	0.001	0.049	0.0039	0.0010	0.0000	0.048	0.018	0.042	12.56	0.38	0.23
	B035212	0.148	1.346	0.001	0.016	0.199	0.019	0.007	0.008	0.019	0.004	0.025	0.001	0.048	0.0059	0.0020	0.0000	0.048	0.015	0.035	8.14	0.38	0.22
	B035095	0.159	1.366	0.003	0.017	0.204	0.023	0.009	0.009	0.018	0.002	0.025	0.001	0.049	0.0059	0.0010	0.0000	0.045	0.018	0.042	8.31	0.39	0.24

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
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PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717505781
 DATE : 03.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3														
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0														
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1		2		1			Longitudinal					1		2		3								
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG									
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25-NA	---	27	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---		---	---	---	---	---	---	---	---	---						
1	24LP0251A1	A035211	28.30	2980	14051	9.302	426	550	29	---	432	580	23	---	---	366	306	371	348	---	---	---	---	---	---						
2	24LP0252A1	A035211	28.30	2980	14051	9.302	426	550	29	---	432	580	23	---	---	366	306	371	348	---	---	---	---	---	---						
3	24LP0834A1	B035388	33.60	2980	14051	11.044	396	541	25	---	389	528	27	---	---	367	185	191	248	---	---	---	---	---	---						
4	24LP0317A1	B035076	34.80	2692	14151	10.407	425	536	32	---	428	582	28	---	---	162	184	192	179	---	---	---	---	---	---						
Chemical Composition (%)																				Pcm											
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm							
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---							
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---							
A035211		0.154	1.360	0.003	0.015	0.191	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.048	0.0060	0.0010	0.0000	0.050	0.015	0.035	8.00	0.39	0.23								
A035211		0.154	1.360	0.003	0.015	0.191	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.048	0.0060	0.0010	0.0000	0.050	0.015	0.035	8.00	0.39	0.23								
B035388		0.152	1.410	0.003	0.014	0.201	0.016	0.007	0.009	0.019	0.002	0.026	0.001	0.048	0.0060	0.0010	0.0000	0.047	0.016	0.033	8.00	0.39	0.23								
B035076		0.165	1.360	0.003	0.015	0.196	0.020	0.010	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.021	0.042	10.00	0.40	0.24								
PRODUCT ANALYSIS																				Pcm											
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---								
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---							
A035211		0.152	1.346	0.003	0.015	0.189	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.047	0.0059	0.0010	0.0000	0.050	0.015	0.035	7.97	0.38	0.23								
A035211		0.152	1.346	0.003	0.015	0.189	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.047	0.0059	0.0010	0.0000	0.050	0.015	0.035	7.97	0.38	0.23								
B035388		0.150	1.396	0.003	0.014	0.199	0.016	0.007	0.009	0.019	0.002	0.026	0.001	0.047	0.0059	0.0010	0.0000	0.047	0.016	0.033	7.97	0.39	0.23								
B035076		0.162	1.346	0.003	0.015	0.192	0.020	0.010	0.011	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0000	0.051	0.021	0.042	10.00	0.39	0.24								

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 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<t≤63=335,63<t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717496254
DATE : 03.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)	Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks										
							1				2					Longitudinal				1	2	3	Avg											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA	1	2	3	Avg											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		1	2	3	Avg															
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---						
1	24LP0720A1	B035280	27.00	2980	14051	8.875	410	540	25	---	406	535	28	---	---	377	341	340	353	---	---	---	---	---	---	---	---	---						
2	24LP0721A1	A035209	27.00	2980	14051	8.875	401	516	30	---	411	522	28	---	---	298	304	284	295	---	---	---	---	---	---	---	---	---						
3	24LP0724A1	A035207	27.00	2980	14051	8.875	420	554	28	---	428	557	27	---	---	234	296	370	300	---	---	---	---	---	---	---	---	---						
4	24LP0725A1	A035205	27.00	2980	14051	8.875	413	524	29	---	411	556	25	---	---	304	310	318	311	---	---	---	---	---	---	---	---	---						
5	24LP0705B1	A035272	31.50	1699	14151	5.945	401	538	23	---	413	554	28	---	---	393	353	365	370	---	---	---	---	---	---	---	---	---						

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035280	0.153	1.360	0.002	0.012	0.197	0.021	0.006	0.008	0.017	0.005	0.028	0.001	0.041	0.0070	0.0010	0.0000	0.050	0.014	0.036	5.86	0.39	0.23
	A035209	0.158	1.370	0.001	0.017	0.196	0.020	0.007	0.009	0.020	0.004	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.051	0.016	0.037	8.33	0.39	0.24
	A035207	0.165	1.371	0.003	0.015	0.188	0.022	0.007	0.008	0.019	0.004	0.027	0.001	0.044	0.0060	0.0010	0.0000	0.050	0.015	0.038	7.33	0.40	0.24
	A035205	0.153	1.350	0.002	0.017	0.200	0.024	0.010	0.010	0.022	0.004	0.028	0.002	0.039	0.0050	0.0010	0.0000	0.054	0.020	0.046	7.80	0.39	0.23
	A035272	0.150	1.370	0.004	0.017	0.204	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.020	0.039	6.17	0.38	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	B035280	0.150	1.346	0.002	0.012	0.193	0.021	0.006	0.008	0.017	0.005	0.027	0.001	0.040	0.0069	0.0010	0.0000	0.049	0.014	0.036	5.80	0.38	0.23
	A035209	0.156	1.356	0.001	0.017	0.194	0.020	0.007	0.009	0.020	0.004	0.027	0.001	0.049	0.0059	0.0020	0.0000	0.051	0.016	0.037	8.31	0.39	0.23
	A035207	0.162	1.357	0.003	0.015	0.185	0.022	0.007	0.008	0.019	0.004	0.027	0.001	0.043	0.0059	0.0010	0.0000	0.050	0.015	0.038	7.29	0.39	0.24
	A035205	0.151	1.335	0.002	0.017	0.197	0.024	0.010	0.010	0.022	0.004	0.028	0.002	0.038	0.0049	0.0010	0.0000	0.054	0.020	0.046	7.76	0.38	0.23
	A035272	0.147	1.356	0.004	0.017	0.200	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.020	0.039	6.10	0.38	0.22

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717494969
DATE : 03.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1				2					Longitudinal						1													
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		1	2	3	Avg											
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP0602A1	B035105	28.30	2980	14051	9.302	415	549	30	---	416	533	29	---	---	234	229	221	228	---	---	---	---	---	---	---	---	---							
2	24LP0320A1	B035394	34.80	2692	14151	10.407	430	542	24	---	424	540	27	---	---	398	372	349	373	---	---	---	---	---	---	---	---	---							
3	24LP0321A1	B035394	34.80	2692	14151	10.407	430	542	24	---	424	540	27	---	---	398	372	349	373	---	---	---	---	---	---	---	---	---							
4	24LP0322A1	B035394	34.80	2692	14151	10.407	430	542	24	---	424	540	27	---	---	398	372	349	373	---	---	---	---	---	---	---	---	---							

Chemical Composition (%)																							
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035105	0.157	1.350	0.003	0.018	0.201	0.030	0.009	0.010	0.018	0.005	0.030	0.004	0.050	0.0060	0.0010	0.0000	0.053	0.019	0.053	8.33	0.39	0.23
	B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23
	B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23
	B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	B035105	0.154	1.337	0.003	0.018	0.197	0.029	0.009	0.010	0.018	0.005	0.029	0.004	0.049	0.0059	0.0010	0.0000	0.052	0.019	0.052	8.31	0.39	0.23
	B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23
	B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23
	B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717494644
DATE : 03.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2			Longitudinal				1					1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		25-2T, >25-	---	27	---		---	---	---	---										
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-2T, >25-	---	27	---		---	---	---	---				---						
							Max	---	630	---	---	---	630	---	---	NA	---	---	---		---	---	---	---				---						
1	24LP0497B1	A035272	12.80	2981	11539	3.456	432	556	30	---	428	544	27	---	OK	97	173	144	138	---	---	---	---	---	---	---	---							
2	24LP0659A1	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---							
3	24LP0659A2	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---							
4	24LP0661B1	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	349	245	333	309	---	---	---	---	---	---	---	---							
5	24LP0656A1	A035092	13.10	2981	11539	3.537	433	568	27	---	455	554	30	---	OK	152	148	139	146	---	---	---	---	---	---	---	---							
6	24LP1218B1	B035293	13.10	2981	11539	3.537	442	563	29	---	406	548	25	---	OK	207	165	243	205	---	---	---	---	---	---	---	---							
7	24LP0474A1	B035097	27.70	2980	14051	9.105	395	511	30	---	401	519	29	---	---	268	294	266	276	---	---	---	---	---	---	---	---							
8	24LP0468A1	A035366	33.00	2980	14051	10.847	443	569	27	---	422	549	28	---	---	235	259	242	245	---	---	---	---	---	---	---	---							
Chemical Composition (%)																																		
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---							
A035272			0.150	1.370	0.004	0.017	0.204	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.020	0.039	6.17	0.38	0.23										
A035268			0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23										
A035268			0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23										
A035274			0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23										
A035092			0.157	1.370	0.004	0.016	0.217	0.017	0.009	0.009	0.022	0.003	0.030	0.001	0.043	0.0060	0.0010	0.0000	0.055	0.018	0.036	7.17	0.39	0.23										
B035293			0.162	1.370	0.003	0.018	0.193	0.020	0.007	0.011	0.022	0.004	0.027	0.001	0.048	0.0060	0.0010	0.0000	0.053	0.018	0.039	8.00	0.40	0.24										
B035097			0.156	1.372	0.003	0.018	0.208	0.029	0.011	0.015	0.017	0.003	0.027	0.001	0.049	0.0060	0.0010	0.0000	0.047	0.026	0.056	8.17	0.39	0.23										
A035366			0.143	1.420	0.003	0.016	0.243	0.018	0.007	0.010	0.024	0.002	0.033	0.001	0.046	0.0050	0.0010	0.0000	0.059	0.017	0.036	9.20	0.39	0.22										
PRODUCT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---								
A035272			0.147	1.356	0.004	0.017	0.200	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.020	0.039	6.10	0.38	0.22										
A035268			0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23										
A035268			0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23										
A035274			0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24										
A035092			0.154	1.356	0.004	0.016	0.213	0.017	0.009	0.009	0.022	0.003	0.029	0.001	0.042	0.0059	0.0010	0.0000	0.054	0.018	0.036	7.12	0.39	0.23										
B035293			0.159	1.358	0.003	0.018	0.190	0.020	0.007	0.011	0.022	0.004	0.027	0.001	0.047	0.0059	0.0010	0.0002	0.053	0.018	0.039	7.97	0.39	0.24										
B035097			0.154	1.358	0.003	0.018	0.206	0.029	0.011	0.015	0.017	0.003	0.027	0.001	0.048	0.0059	0.0010	0.0000	0.047	0.026	0.056	8.14	0.39	0.23										
A035366			0.141	1.406	0.003	0.016	0.240	0.018	0.007	0.010	0.024	0.002	0.033	0.001	0.045	0.0049	0.0010	0.0000	0.059	0.017	0.036	9.18	0.38	0.22										

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY




Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717494636
DATE : 03.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1				2					Longitudinal						1													
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)																					
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP0722A1	A035072	27.00	2980	14051	8.875	421	555	29	---	425	550	29	---	---	292	320	267	293	---	---	---	---	---	---	---	---	---							
2	24LP0723A1	A035055	27.00	2980	14051	8.875	431	551	32	---	446	578	28	---	---	388	333	335	352	---	---	---	---	---	---	---	---	---							
3	24LP0464A1	B035076	33.60	2980	14051	11.044	425	536	32	---	428	582	28	---	---	162	184	192	179	---	---	---	---	---	---	---	---	---							
4	24LP0601A1	B035292	33.60	2980	14051	11.044	424	541	29	---	425	559	23	---	---	267	319	278	288	---	---	---	---	---	---	---	---	---							

Chemical Composition (%)																								
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm	
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	
A035072	0.162	1.360	0.003	0.018	0.196	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.020	0.045	9.00	0.40	0.24		
A035055	0.158	1.350	0.004	0.016	0.195	0.023	0.009	0.009	0.018	0.002	0.029	0.001	0.050	0.0040	0.0010	0.0000	0.049	0.018	0.042	12.50	0.39	0.23		
B035076	0.165	1.360	0.003	0.015	0.196	0.020	0.010	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.021	0.042	10.00	0.40	0.24		
B035292	0.154	1.370	0.003	0.018	0.197	0.019	0.007	0.010	0.017	0.004	0.026	0.001	0.044	0.0050	0.0010	0.0000	0.047	0.017	0.037	8.80	0.39	0.23		

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
Specified Requirement	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	A035072	0.159	1.348	0.003	0.018	0.192	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.044	0.0049	0.0010	0.0002	0.051	0.020	0.045	8.98	0.39	0.24
A035055	0.155	1.337	0.004	0.016	0.191	0.023	0.009	0.009	0.018	0.002	0.028	0.001	0.049	0.0039	0.0010	0.0000	0.048	0.018	0.042	12.56	0.38	0.23	
B035076	0.162	1.346	0.003	0.015	0.192	0.020	0.010	0.011	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0000	0.051	0.021	0.042	10.00	0.39	0.24	
B035292	0.151	1.358	0.003	0.018	0.193	0.019	0.007	0.010	0.017	0.004	0.026	0.001	0.043	0.0049	0.0010	0.0001	0.047	0.017	0.037	8.78	0.38	0.23	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY





Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717494635
DATE : 03.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)	Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks									
							1				2					Longitudinal				1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA	1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		1	2	3	Avg														
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		NA	---	---	27	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---						
1	24LP0439B1	A035308	13.60	2981	11639	3.704	423	552	27	---	412	539	29	---	OK	360	337	372	356	---	---	---	---	---	---	---	---						
2	24LP0179B1	B035379	15.60	2982	13436	4.907	398	550	27	---	405	542	29	---	OK	184	167	171	174	---	---	---	---	---	---	---	---						
3	24LP0473A1	A034696	28.30	2980	14051	9.302	424	545	29	---	434	567	29	---	---	252	230	219	234	---	---	---	---	---	---	---	---						
4	24LP0466A1	B035082	33.00	2980	14051	10.847	433	561	30	---	426	556	31	---	---	359	380	409	383	---	---	---	---	---	---	---	---						
5	24LP0467A1	B035370	33.00	2980	14051	10.847	430	535	27	---	422	531	28	---	---	281	266	243	263	---	---	---	---	---	---	---	---						

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035308	0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23
	B035379	0.140	1.350	0.004	0.018	0.195	0.022	0.008	0.010	0.017	0.002	0.025	0.001	0.047	0.0050	0.0010	0.0000	0.044	0.018	0.041	9.40	0.37	0.22
	A034696	0.155	1.360	0.001	0.013	0.203	0.029	0.010	0.008	0.021	0.004	0.027	0.003	0.043	0.0040	0.0010	0.0000	0.052	0.018	0.050	10.75	0.39	0.23
	B035082	0.162	1.350	0.003	0.016	0.194	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.043	0.0060	0.0010	0.0000	0.048	0.023	0.047	7.17	0.39	0.24
	B035370	0.135	1.430	0.003	0.015	0.208	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.055	0.0050	0.0020	0.0000	0.063	0.022	0.045	11.00	0.38	0.22

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	A035308	0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23
	B035379	0.143	1.357	0.004	0.018	0.199	0.022	0.008	0.010	0.017	0.002	0.026	0.001	0.048	0.0051	0.0010	0.0000	0.045	0.018	0.041	9.41	0.38	0.22
	A034696	0.159	1.367	0.001	0.013	0.208	0.030	0.010	0.008	0.021	0.004	0.028	0.003	0.044	0.0041	0.0010	0.0001	0.053	0.018	0.051	10.73	0.40	0.24
	B035082	0.159	1.337	0.003	0.016	0.191	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.042	0.0059	0.0010	0.0000	0.048	0.023	0.047	7.12	0.39	0.23
	B035370	0.134	1.416	0.003	0.015	0.206	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.054	0.0049	0.0020	0.0000	0.063	0.022	0.045	11.02	0.38	0.21

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY





Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717515242
DATE : 05.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1				2					Longitudinal						1													
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)																					
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP0136B1	A035211	31.50	1699	14151	5.945	426	550	29	---	432	580	23	---	---	366	306	371	348	---	---	---	---	---	---	---	---	---	---						
2	24LP0138B1	B035212	31.50	1699	14151	5.945	440	566	26	---	436	558	27	---	---	345	358	338	347	---	---	---	---	---	---	---	---	---	---						
3	24LP0448A1	A035304	28.70	1697	14151	5.410	420	545	28	---	436	552	28	---	---	339	345	314	333	---	---	---	---	---	---	---	---	---	---						
4	24LP0448B1	A035304	28.70	1697	14151	5.410	420	545	28	---	436	552	28	---	---	339	345	314	333	---	---	---	---	---	---	---	---	---	---						
5	24LP0449A1	B035394	28.70	1697	14151	5.410	430	542	24	---	424	540	27	---	---	398	372	349	373	---	---	---	---	---	---	---	---	---	---						
6	24LP0705A1	A035272	31.50	1699	14151	5.945	401	538	23	---	413	554	28	---	---	393	353	365	370	---	---	---	---	---	---	---	---	---	---						
7	24LP0706B1	A034689	31.50	1699	14151	5.945	422	545	28	---	429	549	27	---	---	248	270	256	258	---	---	---	---	---	---	---	---	---	---						
Chemical Composition (%)																																			
HEAT ANALYSIS			C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm											
Specified Requirement	Heat No.		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---						
A035211			0.154	1.360	0.003	0.015	0.191	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.048	0.0060	0.0010	0.0000	0.050	0.015	0.035	8.00	0.39	0.23											
B035212			0.150	1.360	0.001	0.016	0.201	0.019	0.007	0.008	0.019	0.004	0.025	0.001	0.049	0.0060	0.0020	0.0000	0.048	0.015	0.035	8.17	0.38	0.23											
A035304			0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23											
A035304			0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23											
B035394			0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23											
A035272			0.150	1.370	0.004	0.017	0.204	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.020	0.039	6.17	0.38	0.23											
A034689			0.163	1.360	0.001	0.012	0.215	0.022	0.007	0.009	0.022	0.004	0.026	0.001	0.040	0.0050	0.0010	0.0000	0.052	0.016	0.039	8.00	0.40	0.24											
PRODUCT ANALYSIS			C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm											
Specified Requirement	Heat No.		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---						
A035211			0.152	1.346	0.003	0.015	0.189	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.047	0.0059	0.0010	0.0000	0.050	0.015	0.035	7.97	0.38	0.23											
B035212			0.148	1.346	0.001	0.016	0.199	0.019	0.007	0.008	0.019	0.004	0.025	0.001	0.048	0.0059	0.0020	0.0000	0.048	0.015	0.035	8.14	0.38	0.22											
A035304			0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23											
A035304			0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23											
B035394			0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23											
A035272			0.147	1.356	0.004	0.017	0.200	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.020	0.039	6.10	0.38	0.22											
A034689			0.160	1.348	0.001	0.012	0.211	0.022	0.007	0.009	0.022	0.004	0.026	0.001	0.039	0.0049	0.0010	0.0001	0.052	0.016	0.039	7.96	0.39	0.24											

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

- PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
- Note :
- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
 - 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
 - 3) Supply Condition : Normalized rolled
 - 4) Mechanical Properties are certified at Room Temperature unless specified.
 - 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
 - 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
 - 7) Surface condition as per EN10163-2 Class B,Subclass-3,
 - 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<t≤63=335,63<t≤80=325, CE**= 0.47 for t>30 mm



(Quality Assurance & Control Dept)
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717515125- 1
DATE : 04.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks													
							1				2					Longitudinal						1																		
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1																			
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		2																			
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-				---				27				---												
							Max	---	630	---	---	---	630	---	---	NA				---				---				---												
1	24LP0412A1	B035298	18.00	2542	11539	4.145	418	560	25	---	406	543	26	---	OK	104	102	71	92	---	---	---	---	---	---	---	---	---	---	---										
2	24LP0434A2	B035305	15.20	2980	11772	4.186	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---	---	---	---	---										
3	24LP0492B1	A035268	14.40	2982	11539	3.890	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---	---	---	---										
4	24LP0500B1	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	349	245	333	309	---	---	---	---	---	---	---	---	---	---	---										
5	24LP0505A2	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---	---	---	---										
6	24LP0652A1	B035305	15.20	2980	11772	4.186	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---	---	---	---	---										
7	24LP0653A1	A035277	14.40	2982	11539	3.890	440	553	26	---	433	548	28	---	OK	347	340	336	341	---	---	---	---	---	---	---	---	---	---	---										
8	24LP0653A2	A035277	14.40	2982	11539	3.890	440	553	26	---	433	548	28	---	OK	347	340	336	341	---	---	---	---	---	---	---	---	---	---	---										
Chemical Composition (%)																																								
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm															
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---									
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---	---										
B035298			0.161	1.354	0.002	0.017	0.208	0.024	0.008	0.013	0.022	0.004	0.028	0.001	0.050	0.0070	0.0010	0.0000	0.054	0.021	0.046	7.14	0.39	0.24																
B035305			0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23																
A035268			0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23																
A035274			0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23																
A035268			0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23																
B035305			0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23																
A035277			0.152	1.370	0.001	0.018	0.217	0.016	0.007	0.011	0.022	0.004	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.018	0.035	10.00	0.39	0.23																
A035277			0.152	1.370	0.001	0.018	0.217	0.016	0.007	0.011	0.022	0.004	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.018	0.035	10.00	0.39	0.23																
A035277			0.155	1.377	0.001	0.018	0.222	0.016	0.007	0.011	0.022	0.004	0.027	0.001	0.051	0.0051	0.0010	0.0002	0.053	0.018	0.035	10.00	0.39	0.23																
A035277			0.155	1.377	0.001	0.018	0.222	0.016	0.007	0.011	0.022	0.004	0.027	0.001	0.051	0.0051	0.0010	0.0002	0.053	0.018	0.035	10.00	0.39	0.23																
IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011. CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO. PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.																																								
Note : 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling. 3) Supply Condition : Normalized rolled 4) Mechanical Properties are certified at Room Temperature unless specified. 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3 7) Surface condition as per EN10163-2 Class B,Subclass-3, 8) Weight calculation for plates is as per Theoretical Calculation																																								
Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm																																								
(Quality Assurance & Control Dept) DEEPCO India Private Limited QA/QC STEEL UNLIMITED AUTHORIZED SIGNATORY																																								



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717515125- 2
DATE : 04.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks					
							1				2					Longitudinal						1 2 3 AVG										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1 2 3 AVG											
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			S25-T, >25- NA	---	27	---		1 2 3 AVG											
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25- NA				---	---	---	---	---	---	---	---					
9	24LP0910A1	A036347	24.00	2040	11556	4.441	418	554	25	---	416	546	25	---	OK	219	229	205	218	---	---	---	---	---	---	---	---					
10	24LP0911A1	A036658	24.00	2040	11556	4.441	424	537	31	---	412	537	32	---	OK	286	343	352	327	---	---	---	---	---	---	---	---					
Chemical Composition (%)																																
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---						
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---							
A036347		0.162	1.380	0.003	0.018	0.216	0.014	0.007	0.010	0.020	0.005	0.025	0.001	0.044	0.0060	0.0020	0.0000	0.050	0.017	0.032	7.33	0.40	0.24									
A036658		0.158	1.360	0.002	0.013	0.191	0.016	0.008	0.013	0.021	0.005	0.027	0.001	0.041	0.0050	0.0010	0.0000	0.053	0.021	0.038	8.20	0.39	0.23									
PRODUCT ANALYSIS																																
Specified Requirement		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---							
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---								
A036347		0.159	1.368	0.003	0.018	0.212	0.014	0.007	0.010	0.020	0.005	0.025	0.001	0.043	0.0059	0.0020	0.0002	0.050	0.017	0.032	7.29	0.39	0.24									
A036658		0.161	1.367	0.002	0.013	0.195	0.016	0.008	0.013	0.021	0.005	0.028	0.001	0.042	0.0051	0.0010	0.0002	0.054	0.021	0.038	8.24	0.39	0.24									

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717513801- 1
DATE : 04.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3														
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0														
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1		2		1			Longitudinal					1		2		3								
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG									
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-2T, >25-		---	27	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---						
1	24LP0432A1	A035310	15.20	2982	12011	4.274	397	538	26	---	396	553	28	---	OK	332	347	304	328	---	---	---	---	---	---						
2	24LP0432A2	A035310	15.20	2982	12011	4.274	397	538	26	---	396	553	28	---	OK	332	347	304	328	---	---	---	---	---	---						
3	24LP0433A2	B035305	15.20	2982	12011	4.274	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---						
4	24LP0438A1	B035305	13.60	2981	11639	3.704	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---						
5	24LP0438A2	B035305	13.60	2981	11639	3.704	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---						
6	24LP0440A2	B035095	13.10	2981	11539	3.537	441	559	26	---	432	569	26	---	OK	179	214	188	194	---	---	---	---	---	---						
7	24LP0441A2	A035092	13.10	2981	11539	3.537	433	568	27	---	455	554	30	---	OK	152	148	139	146	---	---	---	---	---	---						
8	24LP0505A1	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---						
Chemical Composition (%)																				CE**			Pcm								
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**							
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	0.250	---	---	---	---	0.45	---								
A035310 0.160 1.350 0.002 0.015 0.204 0.016 0.007 0.010 0.019 0.002 0.025 0.001 0.049 0.0050 0.0010 0.0000 0.046 0.017 0.034 9.80 0.39 0.24																				CE**			Pcm								
A035310 0.160 1.350 0.002 0.015 0.204 0.016 0.007 0.010 0.019 0.002 0.025 0.001 0.049 0.0050 0.0010 0.0000 0.046 0.017 0.034 9.80 0.39 0.24																				CE**			Pcm								
B035305 0.153 1.350 0.004 0.015 0.207 0.021 0.008 0.015 0.022 0.004 0.028 0.001 0.050 0.0060 0.0020 0.0000 0.054 0.023 0.045 8.33 0.38 0.23																				CE**			Pcm								
B035305 0.153 1.350 0.004 0.015 0.207 0.021 0.008 0.015 0.022 0.004 0.028 0.001 0.050 0.0060 0.0020 0.0000 0.054 0.023 0.045 8.33 0.38 0.23																				CE**			Pcm								
B035305 0.153 1.350 0.004 0.015 0.207 0.021 0.008 0.015 0.022 0.004 0.028 0.001 0.050 0.0060 0.0020 0.0000 0.054 0.023 0.045 8.33 0.38 0.23																				CE**			Pcm								
B035095 0.162 1.380 0.003 0.017 0.208 0.023 0.009 0.009 0.018 0.002 0.025 0.001 0.050 0.0060 0.0010 0.0000 0.045 0.018 0.042 8.33 0.40 0.24																				CE**			Pcm								
A035092 0.157 1.370 0.004 0.016 0.217 0.017 0.009 0.009 0.022 0.003 0.030 0.001 0.043 0.0060 0.0010 0.0000 0.055 0.018 0.036 7.17 0.39 0.23																				CE**			Pcm								
A035268 0.153 1.360 0.002 0.018 0.213 0.024 0.008 0.014 0.022 0.002 0.026 0.001 0.036 0.0060 0.0010 0.0000 0.050 0.022 0.047 6.00 0.39 0.23																				CE**			Pcm								
PRODUCT ANALYSIS																				CE**			Pcm								
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	0.250	---	---	---	---	---	0.45	---							
A035310 0.157 1.337 0.002 0.015 0.200 0.016 0.007 0.010 0.019 0.002 0.025 0.001 0.048 0.0049 0.0010 0.0000 0.046 0.017 0.034 9.80 0.38 0.23																				CE**			Pcm								
A035310 0.157 1.337 0.002 0.015 0.200 0.016 0.007 0.010 0.019 0.002 0.025 0.001 0.048 0.0049 0.0010 0.0000 0.046 0.017 0.034 9.80 0.38 0.23																				CE**			Pcm								
B035305 0.157 1.357 0.004 0.015 0.212 0.021 0.008 0.015 0.023 0.004 0.029 0.001 0.051 0.0061 0.0020 0.0001 0.056 0.023 0.045 8.36 0.39 0.23																				CE**			Pcm								
B035305 0.157 1.357 0.004 0.015 0.212 0.021 0.008 0.015 0.023 0.004 0.029 0.001 0.051 0.0061 0.0020 0.0001 0.056 0.023 0.045 8.36 0.39 0.23																				CE**			Pcm								
B035095 0.159 1.366 0.003 0.017 0.204 0.023 0.009 0.009 0.018 0.002 0.025 0.001 0.049 0.0059 0.0010 0.0000 0.045 0.018 0.042 8.31 0.39 0.24																				CE**			Pcm								
A035092 0.154 1.356 0.004 0.016 0.213 0.017 0.009 0.009 0.022 0.003 0.029 0.001 0.042 0.0059 0.0010 0.0000 0.054 0.018 0.036 7.12 0.39 0.23																				CE**			Pcm								
A035268 0.150 1.346 0.002 0.018 0.209 0.024 0.008 0.014 0.022 0.002 0.026 0.001 0.035 0.0059 0.0010 0.0001 0.050 0.022 0.047 5.93 0.38 0.23																				CE**			Pcm								

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Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

CM/L- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717513801- 2
DATE : 04.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024

SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0

Impact Temp. (°C) : 0

Chemical Composition (

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	0.45	---		
A036345	0.155	1.370	0.003	0.012	0.202	0.012	0.007	0.011	0.018	0.005	0.025	0.001	0.037	0.0050	0.0010	0.0000	0.048	0.018	0.031	7.40	0.39	0.23	
A036658	0.158	1.360	0.002	0.013	0.191	0.016	0.008	0.013	0.021	0.005	0.027	0.001	0.041	0.0050	0.0010	0.0000	0.053	0.021	0.038	8.20	0.39	0.23	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	
	Max	0.200	1.600	0.030	0.030	0.550			0.550				0.0120		0.250						0.45		
A23245	0.150	1.277	0.022	0.012	0.207	0.012	0.007	0.011	0.010	0.005	0.006	0.001	0.020	0.0051	0.0010	0.0001	0.040	0.018	0.021	7.45	0.20	0.34	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH SPECIFICATION.

PLEASE REFER TO EN 10025-2:2018 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note

- Note :

 - 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
 - 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(AI&Si Killed))-Hot Rolling
 - 3) Supply Condition : Normalized rolled
 - 4) Mechanical Properties are certified at Room Temperature unless specified.
 - 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
 - 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
 - 7) Surface condition as per EN10163-2 Class B,Subclass-3,
 - 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA: Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63-335,63< t≤80-325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS-2062
CM/L- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717512515- 1
DATE : 04.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1		2		1			Longitudinal					1		2		3									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg	1	2	3	Avg										
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-2T, >25-		---	27	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---						
1	24LP0431A2	B035311	15.20	2982	12011	4.274	430	574	29	---	433	544	28	---	OK	91	115	80	95	---	---	---	---	---	---	---						
2	24LP0501A1	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	349	245	333	309	---	---	---	---	---	---	---						
3	24LP0501A2	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	349	245	333	309	---	---	---	---	---	---	---						
4	24LP0504A2	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	349	245	333	309	---	---	---	---	---	---	---						
5	24LP0505B1	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---						
6	24LP0506A2	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---						
7	24LP0654A1	A035270	14.40	2982	11539	3.890	417	558	28	---	423	559	27	---	OK	172	121	175	156	---	---	---	---	---	---	---						
8	24LP0654A2	A035270	14.40	2982	11539	3.890	417	558	28	---	423	559	27	---	OK	172	121	175	156	---	---	---	---	---	---	---						
Chemical Composition (%)																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm						
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm								
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---								
B035311		0.154	1.350	0.002	0.017	0.184	0.025	0.007	0.010	0.018	0.003	0.028	0.001	0.040	0.0050	0.0010	0.0000	0.049	0.017	0.043	8.00	0.39	0.23									
A035274		0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23									
A035274		0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23									
A035274		0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23									
A035268		0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23									
A035268		0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23									
A035270		0.170	1.355	0.002	0.018	0.204	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.017	0.039	10.00	0.40	0.25									
A035270		0.170	1.355	0.002	0.018	0.204	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0000	0.051	0.017	0.039	10.00	0.40	0.25									
PRODUCT ANALYSIS																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm						
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---								
B035311		0.158	1.357	0.002	0.017	0.188	0.026	0.007	0.010	0.018	0.003	0.029	0.001	0.041	0.0051	0.0010	0.0001	0.050	0.017	0.044	8.04	0.39	0.23									
A035274		0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24									
A035274		0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24									
A035274		0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24									
A035268		0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23									
A035268		0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23									
A035270		0.167	1.343	0.002	0.018	0.200	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0002	0.051	0.017	0.039	10.00	0.40	0.24									
A035270		0.167	1.343	0.002	0.018	0.200	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0002	0.051	0.017	0.039	10.00	0.40	0.24									

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm



(Quality Assurance & Control Dept)
AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717512515- 2
DATE : 04.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3									
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0									
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks	
							1		2		1			Longitudinal												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG				
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		S25-T, >25	NA	---	27	---	---	---	---				
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25		---	27	---	---	---	---	---	---	---
9	24LP0655A2	B035305	13.60	2981	11639	3.704	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	
10	24LP0656A2	A035092	13.10	2981	11539	3.537	433	568	27	---	455	554	30	---	OK	152	148	139	146	---	---	---	---	---	---	
11	24LP0660A2	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	
Chemical Composition (%)																										
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm		
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---		
B035305		0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23			
A035092		0.157	1.370	0.004	0.016	0.217	0.017	0.009	0.009	0.022	0.003	0.030	0.001	0.043	0.0060	0.0010	0.0000	0.055	0.018	0.036	7.17	0.39	0.23			
A035268		0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23			
PRODUCT ANALYSIS																										
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---		
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---		
B035305		0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23			
A035092		0.154	1.356	0.004	0.016	0.213	0.017	0.009	0.009	0.022	0.003	0.029	0.001	0.042	0.0059	0.0010	0.0000	0.054	0.018	0.036	7.12	0.39	0.23			
A035268		0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23			

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717507767- 1
 DATE : 04.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
 P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024

SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
 GRADE : S355J0+N / E350B0

UT STD. : EN10160 S2 E3
 Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2			Longitudinal				1					1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	5.65Va	1	2	3	Avg									
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-		NA	27				---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---				---	---	---	---	---	---	---				
1	24LP0138A1	B035212	31.50	1699	14151	5.945	440	566	26	---	436	558	27	---	---	345	358	338	347	---	---	---	---	---	---	---	---						
2	24LP0446A1	A035308	22.30	1659	14051	4.081	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---						
3	24LP0447B1	A035310	22.30	1659	14051	4.081	396	553	28	---	416	565	26	---	OK	258	313	338	303	---	---	---	---	---	---	---	---						
4	24LP0447C1	A035310	22.30	1659	14051	4.081	396	553	28	---	416	565	26	---	OK	258	313	338	303	---	---	---	---	---	---	---	---						
5	24LP0708A1	A035275	24.00	1659	14051	4.392	443	555	28	---	427	541	30	---	OK	271	318	295	295	---	---	---	---	---	---	---	---						
6	24LP0710A1	A035272	24.00	1659	14051	4.392	401	538	23	---	413	554	28	---	OK	393	353	365	370	---	---	---	---	---	---	---	---						
7	24LP0710B1	A035272	24.00	1659	14051	4.392	401	538	23	---	413	554	28	---	OK	393	353	365	370	---	---	---	---	---	---	---	---						
8	24LP0914A1	A036652	24.00	1659	14051	4.392	420	553	28	---	411	547	29	---	OK	313	318	290	307	---	---	---	---	---	---	---	---						
Chemical Composition (%)																																	
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---									
B035212		0.150	1.360	0.001	0.016	0.201	0.019	0.007	0.008	0.019	0.004	0.025	0.001	0.049	0.0060	0.0020	0.0000	0.048	0.015	0.035	8.17	0.38	0.23										
A035308		0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23										
A035310		0.160	1.350	0.002	0.015	0.204	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.049	0.0050	0.0010	0.0000	0.046	0.017	0.034	9.80	0.39	0.24										
A035310		0.160	1.350	0.002	0.015	0.204	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.049	0.0050	0.0010	0.0000	0.046	0.017	0.034	9.80	0.39	0.24										
A035275		0.161	1.365	0.002	0.018	0.204	0.015	0.007	0.011	0.021	0.004	0.026	0.001	0.048	0.0060	0.0020	0.0000	0.051	0.018	0.034	8.00	0.39	0.24										
A035272		0.150	1.370	0.004	0.017	0.204	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.020	0.039	6.17	0.38	0.23										
A035272		0.150	1.370	0.004	0.017	0.204	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.020	0.039	6.17	0.38	0.23										
A036652		0.156	1.360	0.002	0.018	0.209	0.028	0.010	0.014	0.020	0.005	0.030	0.001	0.042	0.0060	0.0010	0.0000	0.055	0.024	0.053	7.00	0.39	0.23										
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---									
B035212		0.148	1.346	0.001	0.016	0.199	0.019	0.007	0.008	0.019	0.004	0.025	0.001	0.048	0.0059	0.0020	0.0000	0.048	0.015	0.035	8.14	0.38	0.22										
A035308		0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23										
A035310		0.157	1.337	0.002	0.015	0.200	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.048	0.0049	0.0010	0.0000	0.046	0.017	0.034	9.80	0.38	0.23										
A035310		0.157	1.337	0.002	0.015	0.200	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.048	0.0049	0.0010	0.0000	0.046	0.017	0.034	9.80	0.38	0.23										
A035275		0.158	1.351	0.002	0.018	0.200	0.015	0.007	0.011	0.021	0.004	0.026	0.001	0.047	0.0059	0.0020	0.0000	0.051	0.018	0.034	7.97	0.39	0.23										
A035272		0.147	1.356	0.004	0.017	0.200	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.020	0.039	6.10	0.38	0.22										
A035272		0.147	1.356	0.004	0.017	0.200	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.020	0.039	6.10	0.38	0.22										
A036652		0.154	1.345	0.002	0.018	0.206	0.028	0.010	0.014	0.020	0.005	0.030	0.001	0.041	0.0059	0.0010	0.0000	0.055	0.024	0.053	6.95	0.39	0.23										

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717507767- 2
 DATE : 04.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED						SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011						UT STD. : EN10160 S2 E3																			
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024						GRADE : S355J0+N / E350B0						Impact Temp.(°C) : 0																			
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1 2 3 AVG											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg	1	2	3	Avg									
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-			27	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA			---	---	---	---	---	---	---	---	---					
9	24LP0915B1	A036658	22.30	1659	14051	4.081	424	537	31	---	412	537	32	---	OK	286	343	352	327	---	---	---	---	---	---	---					
Chemical Composition (%)																															
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm							
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---				
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---					
A036658		0.158	1.360	0.002	0.013	0.191	0.016	0.008	0.013	0.021	0.005	0.027	0.001	0.041	0.0050	0.0010	0.0000	0.053	0.021	0.038	8.20	0.39	0.23								
PRODUCT ANALYSIS																															
Specified Requirement		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm							
		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---					
A036658		0.161	1.367	0.002	0.013	0.195	0.016	0.008	0.013	0.021	0.005	0.028	0.001	0.042	0.0051	0.0010	0.0002	0.054	0.021	0.038	8.24	0.39	0.24								

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA: Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717507766
DATE : 04.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2			Longitudinal				1					2											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1	2	3	Avg									
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	
Specified Requirement						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
1	24LP0179A1	B035379	15.60	2982	13436	4.907	398	550	27	---	405	542	29	---	OK	184	167	171	174	---	---	---	---	---	---	---	---	---	---	---			
2	24LP0354A1	F985256	20.20	2980	14051	6.640	421	564	26	---	414	549	27	---	OK	276	272	308	285	---	---	---	---	---	---	---	---	---	---	---			
3	24LP0354B1	F985256	20.20	2980	14051	6.640	421	564	26	---	414	549	27	---	OK	276	272	308	285	---	---	---	---	---	---	---	---	---	---	---			
4	24LP0411A1	B035394	18.00	2542	11539	4.145	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---	---	---	---	---	---			
5	24LP0426B1	A035070	15.90	2980	13670	5.085	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---	---	---			
6	24LP0437A1	A035092	15.20	2980	12486	4.440	433	568	27	---	455	554	30	---	OK	152	148	139	146	---	---	---	---	---	---	---	---	---	---	---			
7	24LP0437A2	A035092	15.20	2980	12486	4.440	433	568	27	---	455	554	30	---	OK	152	148	139	146	---	---	---	---	---	---	---	---	---	---	---			
8	24LP0442A2	A035272	12.80	2981	11539	3.456	432	556	30	---	428	544	27	---	OK	97	173	144	138	---	---	---	---	---	---	---	---	---	---	---			
Chemical Composition (%)																																	
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm								
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---	---	---		
B035379 F985256 F985256 B035394 A035070 A035092 A035092 A035272																																	
PRODUCT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm								
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---	---	---		
B035379 F985256 F985256 B035394 A035070 A035092 A035092 A035272																																	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

STEEL LIMITED
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717506500
DATE : 04.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2			Longitudinal				1					1													
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1														
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	NA	NA	NA	NA		1	2	3	Avg											
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP0417A1	A035308	17.70	2980	14051	5.818	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---	---							
2	24LP0418A1	B034423	17.50	2980	14051	5.752	420	535	31	---	441	541	31	---	OK	378	394	372	381	---	---	---	---	---	---	---	---	---							
3	24LP0426A1	A035070	15.90	2980	13670	5.085	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---							
4	24LP0436A2	B035095	15.20	2980	12486	4.440	441	559	26	---	432	569	26	---	OK	179	214	188	194	---	---	---	---	---	---	---	---	---							
5	24LP0514A1	A035066	15.20	2980	13061	4.644	412	564	27	---	428	581	27	---	OK	220	243	211	225	---	---	---	---	---	---	---	---	---							
6	24LP0514B1	A035066	15.20	2980	13061	4.644	412	564	27	---	428	581	27	---	OK	220	243	211	225	---	---	---	---	---	---	---	---	---							
7	24LP0767B1	A036347	15.20	2980	13061	4.644	459	564	26	---	416	546	25	---	OK	366	221	377	321	---	---	---	---	---	---	---	---	---							
8	24LP0768A1	A036345	15.20	2980	13061	4.644	409	559	25	---	434	550	26	---	OK	48	71	69	63	---	---	---	---	---	---	---	---	---							
Chemical Composition (%)																																			
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm										
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---								
A035308 0.158 1.360 0.004 0.010 0.184 0.016 0.007 0.010 0.016 0.004 0.028 0.001 0.049 0.0050 0.0010 0.0000 0.048 0.017 0.034 9.80 0.39 0.23																																			
B034423 0.135 1.370 0.003 0.015 0.192 0.020 0.007 0.011 0.020 0.005 0.026 0.001 0.045 0.0050 0.0010 0.0000 0.051 0.018 0.039 9.00 0.37 0.21																																			
A035070 0.164 1.360 0.003 0.018 0.196 0.020 0.009 0.001 0.022 0.002 0.026 0.002 0.043 0.0050 0.0020 0.0000 0.050 0.010 0.032 8.60 0.40 0.24																																			
B035095 0.162 1.380 0.003 0.017 0.208 0.023 0.009 0.009 0.018 0.002 0.025 0.001 0.050 0.0060 0.0010 0.0000 0.045 0.018 0.042 8.33 0.40 0.24																																			
A035066 0.169 1.361 0.003 0.015 0.200 0.015 0.008 0.008 0.018 0.002 0.026 0.001 0.041 0.0060 0.0010 0.0000 0.046 0.016 0.032 6.83 0.40 0.25																																			
A035066 0.169 1.361 0.003 0.015 0.200 0.015 0.008 0.008 0.018 0.002 0.026 0.001 0.041 0.0060 0.0010 0.0000 0.046 0.016 0.032 6.83 0.40 0.25																																			
A036347 0.162 1.380 0.003 0.018 0.216 0.014 0.007 0.010 0.020 0.005 0.025 0.001 0.044 0.0060 0.0020 0.0000 0.050 0.017 0.032 7.33 0.40 0.24																																			
A036345 0.155 1.370 0.003 0.012 0.202 0.012 0.007 0.011 0.018 0.005 0.025 0.001 0.037 0.0050 0.0010 0.0000 0.048 0.018 0.031 7.40 0.39 0.24																																			
PRODUCT ANALYSIS																																			
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---							
A035308 0.155 1.348 0.004 0.010 0.181 0.016 0.007 0.010 0.016 0.004 0.027 0.001 0.048 0.0049 0.0010 0.0001 0.047 0.017 0.034 9.80 0.39 0.23																																			
B034423 0.138 1.377 0.003 0.015 0.196 0.020 0.007 0.011 0.020 0.005 0.027 0.001 0.046 0.0051 0.0010 0.0001 0.052 0.018 0.039 9.02 0.37 0.22																																			
A035070 0.161 1.348 0.003 0.018 0.192 0.020 0.009 0.001 0.022 0.002 0.026 0.002 0.042 0.0049 0.0020 0.0001 0.050 0.010 0.032 8.57 0.39 0.24																																			
B035095 0.159 1.366 0.003 0.017 0.204 0.023 0.009 0.009 0.018 0.002 0.025 0.001 0.049 0.0059 0.0010 0.0000 0.045 0.018 0.042 8.31 0.39 0.24																																			
A035066 0.166 1.347 0.003 0.015 0.196 0.015 0.008 0.008 0.018 0.002 0.026 0.001 0.040 0.0059 0.0010 0.0001 0.046 0.016 0.032 6.78 0.40 0.24																																			
A035066 0.166 1.347 0.003 0.015 0.196 0.015 0.008 0.008 0.018 0.002 0.026 0.001 0.040 0.0059 0.0010 0.0001 0.046 0.016 0.032 6.78 0.40 0.24																																			
A036347 0.159 1.368 0.003 0.018 0.212 0.014 0.007 0.010 0.020 0.005 0.025 0.001 0.043 0.0059 0.0020 0.0002 0.050																																			



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717504445
DATE : 04.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2			Longitudinal				1					1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1													
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	NA	NA	NA	NA		1	2	3	Avg										
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---						
1	24LP0351A1	E985282	20.90	2980	14051	6.870	428	560	28	---	425	557	29	---	OK	270	260	266	265	---	---	---	---	---	---	---	---							
2	24LP0490B1	A035205	15.20	2982	12250	4.359	420	560	25	---	407	550	27	---	OK	303	296	284	294	---	---	---	---	---	---	---	---							
3	24LP0515A1	B035084	15.20	2980	12486	4.440	441	553	29	---	446	579	28	---	OK	405	374	394	391	---	---	---	---	---	---	---	---							
4	24LP0515A2	B035084	15.20	2980	12486	4.440	441	553	29	---	446	579	28	---	OK	405	374	394	391	---	---	---	---	---	---	---	---							
5	24LP0516A1	B035084	15.20	2980	12486	4.440	441	553	29	---	446	579	28	---	OK	405	374	394	391	---	---	---	---	---	---	---	---							
6	24LP0524B1	A034704	15.20	2982	12250	4.359	415	539	25	---	417	553	23	---	OK	333	279	329	314	---	---	---	---	---	---	---	---							
7	24LP0527B1	A035270	15.20	2982	12725	4.528	417	558	28	---	423	559	27	---	OK	172	121	175	156	---	---	---	---	---	---	---	---							
8	24LP0608B1	A034698	19.60	2980	14051	6.442	435	546	31	---	432	555	29	---	OK	277	307	315	300	---	---	---	---	---	---	---	---							
Chemical Composition (%)																																		
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---							
E985282			0.189	1.390	0.003	0.012	0.182	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.036	0.0040	0.0025	0.0002	0.043	0.017	0.037	9.00	0.43	0.27										
A035205			0.153	1.350	0.002	0.017	0.200	0.024	0.010	0.010	0.022	0.004	0.028	0.002	0.039	0.0050	0.0010	0.0000	0.054	0.020	0.046	7.80	0.39	0.23										
B035084			0.163	1.350	0.003	0.015	0.220	0.031	0.013	0.013	0.018	0.002	0.027	0.002	0.048	0.0050	0.0010	0.0000	0.047	0.026	0.059	9.60	0.40	0.24										
B035084			0.163	1.350	0.003	0.015	0.220	0.031	0.013	0.013	0.018	0.002	0.027	0.002	0.048	0.0050	0.0010	0.0000	0.047	0.026	0.059	9.60	0.40	0.24										
B035084			0.163	1.350	0.003	0.015	0.220	0.031	0.013	0.013	0.018	0.002	0.027	0.002	0.048	0.0050	0.0010	0.0000	0.047	0.026	0.059	9.60	0.40	0.24										
A034704			0.150	1.355	0.004	0.014	0.202	0.019	0.007	0.009	0.022	0.004	0.025	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.016	0.036	8.33	0.38	0.23										
A035270			0.170	1.355	0.002	0.018	0.204	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.017	0.039	10.00	0.40	0.25										
A034698			0.155	1.350	0.001	0.012	0.224	0.026	0.008	0.006	0.022	0.004	0.026	0.002	0.049	0.0050	0.0010	0.0000	0.052	0.014	0.042	9.80	0.39	0.23										
PRODUCT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---								
E985282			0.186	1.377	0.003	0.012	0.179	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.035	0.0039	0.0025	0.0002	0.043	0.017	0.037	8.97	0.42	0.26										
A035205			0.151	1.335	0.002	0.017	0.197	0.024	0.010	0.010	0.022	0.004	0.028	0.002	0.038	0.0049	0.0010	0.0000	0.054	0.020	0.046	7.76	0.38	0.23										
B035084			0.160	1.337	0.003	0.015	0.216	0.030	0.013	0.013	0.018	0.002	0.027	0.002	0.047	0.0049	0.0010	0.0000	0.047	0.026	0.058	9.59	0.39	0.24										
B035084			0.160	1.337	0.003	0.015	0.216	0.030	0.013	0.013	0.018	0.002	0.027	0.002	0.047	0.0049	0.0010	0.0000	0.047	0.026	0.058	9.59	0.39	0.24										
B035084			0.160	1.337	0.003	0.015	0.216	0.030	0.013	0.013	0.018	0.002	0.027	0.002	0.047	0.0049	0.0010	0.0000	0.047	0.026	0.058	9.59	0.39	0.24										
A034704			0.153	1.362	0.004	0.014	0.206	0.019	0.007	0.009	0.022	0.004	0.026	0.001	0.051	0.0061	0.0010	0.0000	0.052	0.016	0.036	8.36	0.39	0.23										
A035270			0.167	1.343	0.002	0.018	0.200	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0002	0.051	0.017	0.039	10.00	0.40	0.24										
A034698			0.152	1.337	0.001	0.012	0.220	0.026	0.008	0.006	0.022	0.004	0.026	0.002	0.048	0.0049	0.0010	0.0000	0.052	0.014	0.042	9.80	0.38	0.23										

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717520938
DATE : 05.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	25-T, >25-	---	27	---	---	---	---	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-		---	27	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	NA		---	---	---	---	---	---	---	---	---	---					
1	24LP0447A1	A035310	22.30	1659	14051	4.081	396	553	28	---	416	565	26	---	OK	258	313	338	303	---	---	---	---	---	---	---	---					
2	24LP0596A1	D983649	33.60	2980	14051	11.044	410	543	30	---	409	548	26	---	---	340	313	359	337	---	---	---	---	---	---	---	---					
3	24LP0700C1	B035285	16.30	2418	13860	4.288	437	551	30	---	431	547	31	---	OK	360	374	385	373	---	---	---	---	---	---	---	---					
4	24LP0726A1	A035070	26.30	2980	14051	8.645	437	563	27	---	458	568	29	---	---	234	224	245	234	---	---	---	---	---	---	---	---					
5	24LP0915A1	A036658	22.30	1659	14051	4.081	424	537	31	---	412	537	32	---	OK	286	343	352	327	---	---	---	---	---	---	---	---					
6	24LP2136A1	A032856	24.50	2980	14051	8.053	477	578	27	---	468	566	24	---	OK	385	396	399	393	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035310	0.160	1.350	0.002	0.015	0.204	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.049	0.0050	0.0010	0.0000	0.046	0.017	0.034	9.80	0.39	0.24
	D983649	0.168	1.390	0.003	0.013	0.186	0.019	0.008	0.006	0.017	0.002	0.025	0.001	0.035	0.0044	0.0022	0.0003	0.044	0.014	0.034	7.95	0.41	0.25
	B035285	0.154	1.370	0.002	0.012	0.209	0.022	0.011	0.011	0.016	0.004	0.026	0.003	0.046	0.0060	0.0010	0.0000	0.046	0.022	0.047	7.67	0.39	0.23
	A035070	0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24
	A036658	0.158	1.360	0.002	0.013	0.191	0.016	0.008	0.013	0.021	0.005	0.027	0.001	0.041	0.0050	0.0010	0.0000	0.053	0.021	0.038	8.20	0.39	0.23
	A032856	0.136	1.550	0.004	0.015	0.141	0.136	0.008	0.009	0.029	0.000	0.042	0.000	0.035	0.0060	0.0020	0.0000	0.071	0.017	0.153	5.83	0.42	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035310	0.157	1.337	0.002	0.015	0.200	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.048	0.0049	0.0010	0.0000	0.046	0.017	0.034	9.80	0.38	0.23
	D983649	0.165	1.375	0.003	0.013	0.183	0.019	0.008	0.006	0.017	0.002	0.025	0.001	0.034	0.0043	0.0022	0.0003	0.044	0.014	0.034	7.91	0.40	0.24
	B035285	0.157	1.377	0.002	0.012	0.213	0.022	0.011	0.011	0.016	0.004	0.027	0.003	0.047	0.0061	0.0010	0.0001	0.047	0.022	0.047	7.70	0.39	0.24
	A035070	0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24
	A036658	0.161	1.367	0.002	0.013	0.195	0.016	0.008	0.013	0.021	0.005	0.028	0.001	0.042	0.0051	0.0010	0.0002	0.054	0.021	0.038	8.24	0.39	0.24
	A032856	0.135	1.535	0.004	0.015	0.139	0.135	0.008	0.009	0.029	0.000	0.042	0.000	0.035	0.0059	0.0020	0.0000	0.071	0.017	0.152	5.93	0.42	0.22

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS-2062
CM/L- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717519851- 1
DATE : 05.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2				Longitudinal						1														
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1														
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-		NA	---	27				---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---	---	---	---	---	---	---	---	---	---						
1	24LP0410A1	A035304	18.00	2542	11539	4.145	420	545	28	---	436	552	28	---	OK	339	345	314	333	---	---	---	---	---	---	---	---							
2	24LP0410A2	A035304	18.00	2542	11539	4.145	420	545	28	---	436	552	28	---	OK	339	345	314	333	---	---	---	---	---	---	---	---							
3	24LP0431B1	B035311	15.20	2982	12011	4.274	430	574	29	---	433	544	28	---	OK	91	115	80	95	---	---	---	---	---	---	---	---							
4	24LP0432B1	A035310	15.20	2982	12011	4.274	397	538	26	---	396	553	28	---	OK	332	347	304	328	---	---	---	---	---	---	---	---							
5	24LP0433B1	B035305	15.20	2982	12011	4.274	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---	---							
6	24LP0435B1	A035308	15.20	2980	11772	4.186	423	552	27	---	412	539	29	---	OK	360	337	372	356	---	---	---	---	---	---	---	---							
7	24LP0441B1	A035092	13.10	2981	11539	3.537	433	568	27	---	455	554	30	---	OK	152	148	139	146	---	---	---	---	---	---	---	---							
8	24LP0652B1	B035305	15.20	2980	11772	4.186	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---	---							
Chemical Composition (%)																																		
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm										
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---							
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---							
A035304		0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23											
A035304		0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23											
B035311		0.154	1.350	0.002	0.017	0.184	0.025	0.007	0.010	0.018	0.003	0.028	0.001	0.040	0.0050	0.0010	0.0000	0.049	0.017	0.043	8.00	0.39	0.23											
A035310		0.160	1.350	0.002	0.015	0.204	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.049	0.0050	0.0010	0.0000	0.046	0.017	0.034	9.80	0.39	0.24											
B035305		0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23											
A035308		0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23											
A035092		0.157	1.370	0.004	0.016	0.217	0.017	0.009	0.022	0.003	0.030	0.001	0.043	0.0060	0.0010	0.0000	0.055	0.018	0.036	7.17	0.39	0.23												
B035305		0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23											
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm										
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---							
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---							
A035304		0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23											
A035304		0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23											
B035311		0.158	1.357	0.002	0.017	0.188	0.026	0.007	0.010	0.018	0.003	0.029	0.001	0.041	0.0051	0.0010	0.0001	0.050	0.017	0.044	8.04	0.39	0.23											
A035310		0.157	1.337	0.002	0.015	0.200	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.048	0.0049	0.0010	0.0000	0.046	0.017	0.034	9.80	0.38	0.23											
B035305		0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23											
A035308		0.155	1.348	0.004	0.016	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23											
A035092		0.154	1.356	0.004	0.016	0.213	0.017	0.009	0.022	0.003	0.029	0.001	0.042	0.0059	0.0010	0.0000	0.054	0.018	0.036	7.12	0.39	0.23												
B035305		0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23											

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm

(Quality Assurance & Control Dept)
AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717519851- 2
DATE : 05.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks					
							1				2					Longitudinal						1 2 3 AVG										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1 2 3 AVG											
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			S25-T, >25- NA	---	27	---		1 2 3 AVG											
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25- NA	---	27	---	---	---	---	---	---	---	---						
9	24LP0661A1	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	249	245	233	242	---	---	---	---	---	---							
10	24LP0661A2	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	249	245	233	242	---	---	---	---	---	---							
Chemical Composition (%)																																
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---						
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---							
A035274		0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23									
A035274		0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23									
PRODUCT ANALYSIS																																
Specified Requirement		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---							
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---								
		A035274	0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24								
A035274		0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24									

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717519696
DATE : 05.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks												
							1				2					Longitudinal						1																	
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg															
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		1	2	3	Avg															
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-				NA				---				27											
							Max	---	630	---	---	---	630	---	---	NA				---				---				---											
1	24LP0137B1	A035211	31.50	1699	14151	5.945	426	550	29	---	432	580	23	---	---	286	306	291	294	---	---	---	---	---	---	---	---	---	---	---									
2	24LP0420A1	A034418	17.50	2980	14051	5.752	393	522	31	---	402	525	28	---	OK	136	152	148	145	---	---	---	---	---	---	---	---	---	---	---									
3	24LP0648B1	A034387	17.50	2980	14051	5.752	377	516	31	---	416	523	30	---	OK	172	159	160	160	---	---	---	---	---	---	---	---	---	---	---									
4	24LP0650A1	B035105	15.20	2982	12725	4.528	434	569	27	---	423	562	23	---	OK	208	233	257	233	---	---	---	---	---	---	---	---	---	---	---									
5	24LP0706A1	A034689	31.50	1699	14151	5.945	422	545	28	---	429	549	27	---	---	248	270	256	258	---	---	---	---	---	---	---	---	---	---	---									
6	24LP0736A1	A036345	26.30	2980	14051	8.645	434	550	26	---	429	542	28	---	---	216	217	208	214	---	---	---	---	---	---	---	---	---	---	---									
7	24LP1536A1	B035298	12.80	2981	11539	3.456	443	564	29	---	418	560	25	---	OK	187	109	177	158	---	---	---	---	---	---	---	---	---	---	---									
Chemical Composition (%)																																							
HEAT ANALYSIS			C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm															
Specified Requirement	Heat No.		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---									
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---										
A035211			0.154	1.360	0.003	0.015	0.191	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.048	0.0060	0.0010	0.0000	0.050	0.015	0.035	8.00	0.39	0.23															
A034418			0.140	1.370	0.002	0.013	0.197	0.013	0.006	0.008	0.020	0.004	0.026	0.001	0.048	0.0050	0.0010	0.0000	0.050	0.014	0.028	9.60	0.37	0.22															
A034387			0.140	1.370	0.004	0.013	0.189	0.016	0.006	0.007	0.016	0.004	0.025	0.001	0.040	0.0060	0.0010	0.0000	0.045	0.013	0.030	6.67	0.37	0.22															
B035105			0.157	1.350	0.003	0.018	0.201	0.030	0.009	0.010	0.018	0.005	0.030	0.004	0.050	0.0060	0.0010	0.0000	0.053	0.019	0.053	8.33	0.39	0.23															
A034689			0.163	1.360	0.001	0.012	0.215	0.022	0.007	0.009	0.022	0.004	0.026	0.001	0.040	0.0050	0.0010	0.0000	0.052	0.016	0.039	8.00	0.40	0.24															
A036345			0.155	1.370	0.003	0.012	0.202	0.012	0.007	0.011	0.018	0.005	0.025	0.001	0.037	0.0050	0.0010	0.0000	0.048	0.018	0.031	7.40	0.39	0.23															
B035298			0.161	1.354	0.002	0.017	0.208	0.024	0.008	0.013	0.022	0.004	0.028	0.001	0.050	0.0070	0.0010	0.0000	0.054	0.021	0.046	7.14	0.39	0.24															
PRODUCT ANALYSIS																																							
Specified Requirement	Heat No.		C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm															
	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---									
A035211			0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---										
A034418			0.152	1.346	0.003	0.015	0.189	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.047	0.0059	0.0010	0.0000	0.050	0.015	0.035	7.97	0.38	0.23															
A034387			0.137	1.358	0.002	0.013	0.193	0.013	0.006	0.008	0.020	0.004	0.026	0.001	0.047	0.0049	0.0010	0.0002	0.050	0.014	0.028	9.59	0.37	0.21															
B035105			0.154	1.337	0.003	0.018	0.197	0.029	0.009	0.010	0.018	0.005	0.029	0.004	0.049	0.0059	0.0010	0.0001	0.045	0.013	0.030	6.61	0.37	0.21															
A034689			0.160	1.348	0.001	0.012	0.211	0.022	0.007	0.009	0.022	0.004	0.026	0.001	0.039	0.0049	0.0010	0.0001	0.052	0.016	0.039	7.96	0.39	0.24															
A036345			0.159	1.377	0.003	0.012	0.207	0.012	0.007	0.011	0.018	0.005	0.026	0.001	0.038	0.0051	0.0010	0.0001	0.049	0.018	0.031	7.45	0.39	0.24															
B035298			0.158	1.342	0.002	0.017	0.204	0.024	0.008	0.013	0.022	0.004	0.027	0.001	0.049	0.0069	0.0010	0.0002	0.053	0.021	0.046	7.10	0.39	0.24															

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

- PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
- Note :
- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
 - 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
 - 3) Supply Condition : Normalized rolled
 - 4) Mechanical Properties are certified at Room Temperature unless specified.
 - 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
 - 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
 - 7) Surface condition as per EN10163-2 Class B,Subclass-3,
 - 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<t≤63=335,63<t≤80=325, CE**= 0.47 for t>30 mm

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(Quality Assurance & Control Dept)

AUTHORISED SIGNATORY





Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717517376
DATE : 06.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1													
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		NA	2																	
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	1	2	3	Avg	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---					
1	24LP0516A2	B035084	15.20	2980	12486	4.440	441	553	29	---	446	579	28	---	OK	405	374	394	391	---	---	---	---	---	---	---	---	---						
2	24LP0538A1	A036588	24.90	2980	14051	8.185	434	537	31	---	428	531	32	---	OK	224	194	199	206	---	---	---	---	---	---	---	---	---						
3	24LP0649B1	A035066	15.60	2982	13436	4.907	412	564	27	---	428	581	27	---	OK	220	243	211	225	---	---	---	---	---	---	---	---	---						
4	24LP0651A1	A035277	15.20	2982	12725	4.528	440	553	26	---	433	548	28	---	OK	347	340	336	341	---	---	---	---	---	---	---	---	---						
5	24LP0651B1	A035277	15.20	2982	12725	4.528	440	553	26	---	433	548	28	---	OK	347	340	336	341	---	---	---	---	---	---	---	---	---						
6	24LP0743A1	A036646	24.90	2980	14051	8.185	425	550	29	---	416	542	30	---	OK	224	216	200	213	---	---	---	---	---	---	---	---	---						
7	24LP0911A2	A036658	24.00	2040	11556	4.441	424	537	31	---	412	537	32	---	OK	286	343	352	327	---	---	---	---	---	---	---	---	---						
Chemical Composition (%)																																		
HEAT ANALYSIS			C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm										
Specified Requirement	Heat No.	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---						
B035084			0.163	1.350	0.003	0.015	0.220	0.031	0.013	0.013	0.018	0.002	0.027	0.002	0.048	0.0050	0.0010	0.0000	0.047	0.026	0.059	9.60	0.40	0.24										
A036588			0.156	1.370	0.004	0.018	0.183	0.014	0.005	0.010	0.017	0.005	0.027	0.001	0.045	0.0070	0.0020	0.0000	0.049	0.015	0.030	6.43	0.39	0.23										
A035066			0.169	1.361	0.003	0.015	0.200	0.015	0.008	0.008	0.018	0.002	0.026	0.001	0.041	0.0060	0.0010	0.0000	0.046	0.016	0.032	6.83	0.40	0.25										
A035277			0.152	1.370	0.001	0.018	0.217	0.016	0.007	0.011	0.022	0.004	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.018	0.035	10.00	0.39	0.23										
A035277			0.152	1.370	0.001	0.018	0.217	0.016	0.007	0.011	0.022	0.004	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.018	0.035	10.00	0.39	0.23										
A036646			0.164	1.370	0.001	0.015	0.195	0.028	0.007	0.014	0.018	0.005	0.025	0.001	0.050	0.0060	0.0010	0.0000	0.048	0.021	0.050	8.33	0.40	0.24										
A036658			0.158	1.360	0.002	0.013	0.191	0.016	0.008	0.013	0.021	0.005	0.028	0.001	0.041	0.0050	0.0010	0.0000	0.053	0.021	0.038	8.20	0.39	0.23										
PRODUCT ANALYSIS			C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm										
Specified Requirement	Heat No.	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---						
B035084			0.160	1.337	0.003	0.015	0.216	0.030	0.013	0.013	0.018	0.002	0.027	0.002	0.047	0.0049	0.0010	0.0000	0.047	0.026	0.058	9.59	0.39	0.24										
A036588			0.159	1.377	0.004	0.018	0.187	0.014	0.005	0.010	0.017	0.005	0.028	0.001	0.046	0.0071	0.0020	0.0002	0.050	0.015	0.030	6.48	0.39	0.24										
A035066			0.166	1.347	0.003	0.015	0.196	0.015	0.008	0.008	0.018	0.002	0.026	0.001	0.040	0.0059	0.0010	0.0001	0.046	0.016	0.032	6.78	0.40	0.24										
A035277			0.155	1.377	0.001	0.018	0.222	0.016	0.007	0.011	0.022	0.004	0.027	0.001	0.051	0.0051	0.0010	0.0002	0.053	0.018	0.035	10.00	0.39	0.23										
A035277			0.155	1.377	0.001	0.018	0.222	0.016	0.007	0.011	0.022	0.004	0.027	0.001	0.051	0.0051	0.0010	0.0002	0.053	0.018	0.035	10.00	0.39	0.23										
A036646			0.162	1.355	0.001	0.015	0.192	0.028	0.007	0.014	0.018	0.005	0.025	0.001	0.049	0.0059	0.0010	0.0000	0.048	0.021	0.050	8.31	0.40	0.24										
A036658			0.161	1.367	0.002	0.013	0.195	0.016	0.008	0.013	0.021	0.005	0.028	0.001	0.042	0.0051	0.0010	0.0002	0.054	0.021	0.038	8.24	0.39	0.24										

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717515447
DATE : 06.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	25-2T, >25-	---	27	---	---	---	---	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-2T, >25-		---	27	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	NA		---	---	---	---	---	---	---	---	---	---					
1	24LP0657B1	A034650	12.80	2981	11539	3.456	420	569	27	---	416	547	23	---	OK	70	66	62	66	---	---	---	---	---	---	---	---					
2	24LP0660A1	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---					
3	24LP0734A1	A035274	25.60	2980	14051	8.415	402	556	27	---	423	551	26	---	---	219	185	206	203	---	---	---	---	---	---	---	---					
4	24LP0741A1	A036648	24.90	2980	14051	8.185	439	560	27	---	410	562	26	---	OK	164	125	139	143	---	---	---	---	---	---	---	---					
5	24LP0742A1	A036648	24.90	2980	14051	8.185	439	560	27	---	410	562	26	---	OK	164	125	139	143	---	---	---	---	---	---	---	---					
6	24LP1903A1	A034693	24.50	2980	14151	8.110	421	545	27	---	410	535	26	---	OK	216	197	230	214	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A034650	0.156	1.430	0.001	0.015	0.216	0.026	0.009	0.015	0.022	0.005	0.030	0.001	0.045	0.0050	0.0010	0.0000	0.057	0.024	0.051	9.00	0.40	0.24
	A035268	0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23
	A035274	0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23
	A036648	0.161	1.450	0.002	0.018	0.194	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.048	0.021	0.044	10.00	0.41	0.24
	A036648	0.161	1.450	0.002	0.018	0.194	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.048	0.021	0.044	10.00	0.41	0.24
	A034693	0.152	1.370	0.003	0.010	0.213	0.016	0.008	0.008	0.021	0.004	0.027	0.001	0.047	0.0050	0.0020	0.0000	0.052	0.016	0.033	9.40	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A034650	0.160	1.437	0.001	0.015	0.221	0.027	0.009	0.015	0.023	0.005	0.031	0.001	0.046	0.0051	0.0010	0.0001	0.059	0.024	0.052	9.02	0.41	0.24
	A035268	0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23
	A035274	0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24
	A036648	0.158	1.436	0.002	0.018	0.191	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.049	0.0049	0.0010	0.0001	0.048	0.021	0.044	10.00	0.40	0.24
	A036648	0.158	1.436	0.002	0.018	0.191	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.049	0.0049	0.0010	0.0001	0.048	0.021	0.044	10.00	0.40	0.24
	A034693	0.150	1.355	0.003	0.010	0.210	0.016	0.008	0.008	0.021	0.004	0.027	0.001	0.046	0.0049	0.0020	0.0000	0.052	0.016	0.033	9.39	0.38	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717515133
DATE : 05.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks									
							1			2				Longitudinal																					
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg																	
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	1	2	3	Avg																	
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---								
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---								
1	24LP0137A1	A035211	31.50	1699	14151	5.945	426	550	29	---	432	580	23	---	---	366	306	371	348	---	---	---	---	---	---	---	---								
2	24LP0201A1	A036586	15.60	2982	13436	4.907	395	553	26	---	419	540	26	---	OK	162	134	148	148	---	---	---	---	---	---	---	---								
3	24LP0201B1	A036586	15.60	2982	13436	4.907	395	553	26	---	419	540	26	---	OK	162	134	148	148	---	---	---	---	---	---	---	---								
4	24LP0385A1	A035310	32.50	2980	14051	10.683	396	553	28	---	416	565	26	---	---	258	313	338	303	---	---	---	---	---	---	---	---								
5	24LP0649A1	A035066	15.60	2982	13436	4.907	412	564	27	---	428	581	27	---	OK	220	243	211	225	---	---	---	---	---	---	---	---								
6	24LP0690A1	A036343	24.50	2980	14151	8.110	418	532	28	---	415	545	29	---	OK	338	325	336	333	---	---	---	---	---	---	---	---								

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035211	0.154	1.360	0.003	0.015	0.191	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.048	0.0060	0.0010	0.0000	0.050	0.015	0.035	8.00	0.39	0.23
	A036586	0.160	1.360	0.002	0.016	0.188	0.018	0.006	0.010	0.019	0.005	0.029	0.001	0.038	0.0050	0.0010	0.0000	0.053	0.016	0.035	7.60	0.39	0.24
	A036586	0.160	1.360	0.002	0.016	0.188	0.018	0.006	0.010	0.019	0.005	0.029	0.001	0.038	0.0050	0.0010	0.0000	0.053	0.016	0.035	7.60	0.39	0.24
	A035310	0.160	1.350	0.002	0.015	0.204	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.049	0.0050	0.0010	0.0000	0.046	0.017	0.034	9.80	0.39	0.24
	A035066	0.169	1.361	0.003	0.015	0.200	0.015	0.008	0.008	0.018	0.002	0.026	0.001	0.041	0.0060	0.0010	0.0000	0.046	0.016	0.032	6.83	0.40	0.25
	A036343	0.159	1.380	0.003	0.013	0.196	0.014	0.006	0.010	0.020	0.005	0.026	0.001	0.046	0.0060	0.0010	0.0000	0.051	0.016	0.031	7.67	0.39	0.24

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035211	0.152	1.346	0.003	0.015	0.189	0.019	0.007	0.008	0.020	0.004	0.026	0.001	0.047	0.0059	0.0010	0.0000	0.050	0.015	0.035	7.97	0.38	0.23
	A036586	0.157	1.346	0.002	0.016	0.185	0.018	0.006	0.010	0.019	0.005	0.028	0.001	0.037	0.0049	0.0010	0.0001	0.052	0.016	0.035	7.55	0.39	0.23
	A036586	0.157	1.346	0.002	0.016	0.185	0.018	0.006	0.010	0.019	0.005	0.028	0.001	0.037	0.0049	0.0010	0.0001	0.052	0.016	0.035	7.55	0.39	0.23
	A035310	0.157	1.337	0.002	0.015	0.200	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.048	0.0049	0.0010	0.0000	0.046	0.017	0.034	9.80	0.38	0.23
	A035066	0.166	1.347	0.003	0.015	0.196	0.015	0.008	0.008	0.018	0.002	0.026	0.001	0.040	0.0059	0.0010	0.0001	0.046	0.016	0.032	6.78	0.40	0.24
	A036343	0.156	1.368	0.003	0.013	0.192	0.014	0.006	0.010	0.020	0.005	0.026	0.001	0.045	0.0059	0.0010	0.0002	0.051	0.016	0.031	7.63	0.39	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm



AUTORISED SIGNATORY

(Quality Assurance & Control Dept)



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717514521
DATE : 05.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024

SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0

UT STD. : EN10160 S2 E3
Impact Temp. (°C) : 0

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CML-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESA REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
 - 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling
 - 3) Supply Condition : Normalized rolled
 - 4) Mechanical Properties are certified at Room Temperature unless specified.
 - 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
 - 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
 - 7) Surface condition as per EN10163-2 Class B, Subclass-3,
 - 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA: Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS= $t \leq 16-355$, $16 < t \leq 40$ 345, $40 < t \leq 63 = 335-63 < t \leq 80 = 325$, CE**= 0.47 for $t > 30$ mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717511534- 1
DATE : 05.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2			Longitudinal				1	2	3	Avg	1	2	3	Avg								
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	(MPa)	(MPa)	(MPa)	(MPa)	5.65Va	5.65Va	1	2	3	Avg								
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-		NA	---	27	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---	---	---	---	---	---	---	---	---	---				
1	24JB0412X1	B034423	14.90	2872	11539	3.876	455	550	30	---	430	533	26	---	OK	278	235	252	255	---	---	---	---	---	---	---	---					
2	24LP0442A1	A035272	12.80	2981	11539	3.456	432	556	30	---	428	544	27	---	OK	97	173	144	138	---	---	---	---	---	---	---	---	---				
3	24LP0443A1	A035277	12.80	2981	11539	3.456	440	553	26	---	433	548	28	---	OK	347	340	336	341	---	---	---	---	---	---	---	---	---				
4	24LP0502A1	A035217	12.80	2981	11539	3.456	385	559	26	---	408	540	28	---	OK	71	127	84	94	---	---	---	---	---	---	---	---	---				
5	24LP0502A2	A035217	12.80	2981	11539	3.456	385	559	26	---	408	540	28	---	OK	71	127	84	94	---	---	---	---	---	---	---	---	---				
6	24LP0503A1	A035217	12.80	2981	11539	3.456	385	559	26	---	408	540	28	---	OK	71	127	84	94	---	---	---	---	---	---	---	---	---				
7	24LP0506A1	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---	---				
8	24LP0652A2	B035305	15.20	2980	11772	4.186	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---	---	---				
Chemical Composition (%)																																
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---							
B034423 0.135 1.370 0.003 0.015 0.192 0.020 0.007 0.011 0.020 0.005 0.026 0.001 0.045 0.0050 0.0010 0.0000 0.051 0.018 0.039 9.00 0.37 0.21																																
A035272 0.150 1.370 0.004 0.017 0.204 0.018 0.008 0.012 0.019 0.002 0.025 0.001 0.037 0.0060 0.0010 0.0000 0.046 0.020 0.039 6.17 0.38 0.23																																
A035277 0.152 1.370 0.001 0.018 0.217 0.016 0.007 0.011 0.022 0.004 0.026 0.001 0.050 0.0050 0.0010 0.0000 0.052 0.018 0.035 10.00 0.39 0.23																																
A035217 0.150 1.360 0.003 0.018 0.196 0.018 0.007 0.008 0.015 0.004 0.027 0.001 0.037 0.0060 0.0010 0.0000 0.046 0.015 0.034 6.17 0.38 0.23																																
A035217 0.150 1.360 0.003 0.018 0.196 0.018 0.007 0.008 0.015 0.004 0.027 0.001 0.037 0.0060 0.0010 0.0000 0.046 0.015 0.034 6.17 0.38 0.23																																
A035217 0.150 1.360 0.003 0.018 0.196 0.018 0.007 0.008 0.015 0.004 0.027 0.001 0.037 0.0060 0.0010 0.0000 0.046 0.015 0.034 6.17 0.38 0.23																																
A035268 0.153 1.360 0.002 0.018 0.213 0.024 0.008 0.014 0.022 0.002 0.026 0.001 0.036 0.0060 0.0010 0.0000 0.050 0.022 0.047 6.00 0.39 0.23																																
B035305 0.153 1.350 0.004 0.015 0.207 0.021 0.008 0.015 0.022 0.004 0.028 0.001 0.050 0.0060 0.0020 0.0000 0.054 0.023 0.045 8.33 0.38 0.23																																
PRODUCT ANALYSIS																																
Specified Requirement		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm								
		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---					
B034423 0.138 1.377 0.003 0.015 0.196 0.020 0.007 0.011 0.020 0.005 0.027 0.001 0.046 0.0051 0.0010 0.0001 0.052 0.018 0.039 9.02 0.37 0.22																																
A035272 0.147 1.356 0.004 0.017 0.200 0.018 0.008 0.012 0.019 0.002 0.025 0.001 0.036 0.0059 0.0010 0.0000 0.046 0.020 0.039 6.10 0.38 0.22																																
A035277 0.155 1.377 0.001 0.018 0.222 0.016 0.007 0.011 0.022 0.004 0.027 0.001 0.051 0.0051 0.0010 0.0002 0.053 0.018 0.035 10.00 0.39 0.23																																
A035217 0.147 1.346 0.003 0.018 0.192 0.018 0.007 0.008 0.015 0.004 0.027 0.001 0.036 0.0059 0.0010 0.0000 0.046 0.015 0.034 6.10 0.38 0.22																																
A035217 0.147 1.346 0.003 0.018 0.192 0.018 0.007 0.008 0.015 0.004 0.027 0.001 0.036 0.0059 0.0010 0.0000 0.046 0.015 0.034 6.10 0.38 0.22																																
A035268 0.150 1.346 0.003 0.018 0.209 0.024 0.008 0.014 0.022 0.002 0.026 0.001 0.035 0.0059 0.0010 0.0001 0.050 0.022 0.047 5.93 0.38 0.23																																
B035305 0.157 1.357 0.004 0.015 0.212 0.021 0.008 0.015 0.023 0.004 0.029 0.001 0.051 0.0061 0.0020 0.0001 0.056 0.023 0.045 8.36 0.39 0.23																																

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717511534- 2
DATE : 05.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3									
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0									
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks	
							1		2		1			Longitudinal												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG				
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		S25-T, >25	NA	---	27	---	---	---	---				
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25		---	27	---	---	---	---	---	---	---
9	24LP0655A1	B035305	13.60	2981	11639	3.704	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---
10	24LP0786A2	B034676	12.80	2981	11539	3.456	421	556	27	---	426	553	26	---	OK	305	299	287	297	---	---	---	---	---	---	---
11	24LP0985A1	B036575	13.60	2981	11639	3.704	440	564	28	---	436	547	29	---	OK	344	336	341	340	---	---	---	---	---	---	---
Chemical Composition (%)																										
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm		
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---		
B035305		0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23			
B034676		0.164	1.370	0.004	0.017	0.192	0.025	0.009	0.009	0.020	0.004	0.027	0.002	0.046	0.0060	0.0010	0.0000	0.051	0.018	0.045	7.67	0.40	0.24			
B036575		0.155	1.380	0.002	0.011	0.190	0.015	0.006	0.013	0.022	0.005	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.054	0.019	0.035	10.00	0.39	0.23			
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm		
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---		
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---		
B035305		0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23			
B034676		0.161	1.356	0.004	0.017	0.189	0.025	0.009	0.009	0.020	0.004	0.027	0.002	0.045	0.0059	0.0010	0.0001	0.051	0.018	0.045	7.63	0.39	0.24			
B036575		0.153	1.365	0.002	0.011	0.187	0.015	0.006	0.013	0.022	0.005	0.027	0.001	0.049	0.0049	0.0010	0.0000	0.054	0.019	0.035	10.00	0.39	0.23			

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717517982
DATE : 06.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3												
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0												
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks				
							1		2		%RA	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	1	2	3	AVG					
							Min		Max																				
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25-		NA	25-T, >25-		---	27	---	---	---	---	---	---	---
1	24LP0439A2	A035308	13.60	2981	11639	3.704	423	552	27	---	412	539	29	---	OK	360	337	372	356	---	---	---	---	---	---	---	---	---	
2	24LP0490A2	A035205	15.20	2982	12250	4.359	420	560	25	---	407	550	27	---	OK	303	296	284	294	---	---	---	---	---	---	---	---	---	
3	24LP1228A2	A033843	15.20	2982	12725	4.528	456	574	25	---	457	564	30	---	OK	231	228	215	225	---	---	---	---	---	---	---	---	---	
4	24LP0412A2	B035298	18.00	2542	11539	4.145	418	560	25	---	406	543	26	---	OK	104	102	71	92	---	---	---	---	---	---	---	---	---	
5	24LP1810A1	A036660	22.00	2980	14051	7.231	424	530	26	---	429	532	25	---	OK	236	219	224	226	---	---	---	---	---	---	---	---	---	
6	24LP0136A1	A035211	31.50	1699	14151	5.945	426	550	29	---	432	580	23	---	---	286	306	291	294	---	---	---	---	---	---	---	---	---	
7	24LP0319A1	B035294	34.80	2692	14151	10.407	420	560	26	---	426	553	27	---	---	163	144	102	136	---	---	---	---	---	---	---	---	---	
Chemical Composition (%)																				Chemical Composition (%)				Chemical Composition (%)					
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm						
Specified Requirement	Heat No.	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---		
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---		
A035308 0.158 1.360 0.004 0.010 0.184 0.016 0.007 0.010 0.016 0.004 0.028 0.001 0.049 0.0050 0.0010 0.0000 0.048 0.017 0.034 9.80 0.39 0.23																				A035308 0.158 1.360 0.004 0.010 0.184 0.016 0.007 0.010 0.016 0.004 0.028 0.001 0.049 0.0050 0.0010 0.0000 0.048 0.017 0.034 9.80 0.39 0.23				A035205 0.153 1.350 0.002 0.017 0.200 0.024 0.010 0.010 0.022 0.004 0.028 0.002 0.039 0.0050 0.0010 0.0000 0.054 0.020 0.046 7.80 0.39 0.23					
A033843 0.136 1.440 0.003 0.015 0.211 0.017 0.005 0.007 0.024 0.006 0.033 0.001 0.040 0.0060 0.0020 0.0000 0.063 0.012 0.030 6.67 0.38 0.22																				A033843 0.136 1.440 0.003 0.015 0.211 0.017 0.005 0.007 0.024 0.006 0.033 0.001 0.040 0.0060 0.0020 0.0000 0.063 0.012 0.030 6.67 0.38 0.22				B035298 0.161 1.354 0.002 0.017 0.208 0.024 0.008 0.013 0.022 0.004 0.028 0.001 0.050 0.0070 0.0010 0.0000 0.054 0.021 0.046 7.14 0.39 0.24					
B035298 0.161 1.354 0.002 0.017 0.208 0.024 0.008 0.013 0.022 0.004 0.028 0.001 0.050 0.0070 0.0010 0.0000 0.054 0.021 0.046 7.14 0.39 0.24																				A036660 0.155 1.360 0.001 0.016 0.197 0.019 0.008 0.013 0.020 0.005 0.027 0.001 0.048 0.0060 0.0010 0.0000 0.052 0.021 0.041 8.00 0.39 0.23				A035211 0.154 1.360 0.003 0.015 0.191 0.019 0.007 0.008 0.020 0.004 0.026 0.001 0.048 0.0060 0.0010 0.0000 0.050 0.015 0.035 8.00 0.39 0.23					
B035294 0.168 1.370 0.003 0.016 0.187 0.018 0.007 0.011 0.021 0.004 0.028 0.001 0.045 0.0060 0.0010 0.0000 0.053 0.018 0.037 7.50 0.40 0.24																				B035294 0.168 1.370 0.003 0.016 0.187 0.018 0.007 0.011 0.021 0.004 0.028 0.001 0.045 0.0060 0.0010 0.0000 0.053 0.018 0.037 7.50 0.40 0.24				B035294 0.168 1.370 0.003 0.016 0.187 0.018 0.007 0.011 0.021 0.004 0.028 0.001 0.045 0.0060 0.0010 0.0000 0.053 0.018 0.037 7.50 0.40 0.24					
PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm						
Specified Requirement	Heat No.	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---		
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---		
A035308 0.155 1.348 0.004 0.010 0.181 0.016 0.007 0.010 0.016 0.004 0.027 0.001 0.048 0.0049 0.0010 0.0001 0.047 0.017 0.034 9.80 0.39 0.23																				A035308 0.155 1.348 0.004 0.010 0.181 0.016 0.007 0.010 0.016 0.004 0.027 0.001 0.048 0.0049 0.0010 0.0001 0.047 0.017 0.034 9.80 0.39 0.23				A035205 0.151 1.335 0.002 0.017 0.197 0.024 0.010 0.010 0.022 0.004 0.028 0.002 0.038 0.0049 0.0010 0.0000 0.054 0.020 0.046 7.76 0.38 0.23					
A033843 0.139 1.447 0.003 0.015 0.215 0.017 0.005 0.007 0.025 0.006 0.034 0.001 0.041 0.0061 0.0020 0.0000 0.065 0.012 0.030 6.72 0.39 0.22																				A033843 0.139 1.447 0.003 0.015 0.215 0.017 0.005 0.007 0.025 0.006 0.034 0.001 0.041 0.0061 0.0020 0.0000 0.065 0.012 0.030 6.72 0.39 0.22				B035298 0.158 1.342 0.002 0.017 0.204 0.024 0.008 0.013 0.022 0.004 0.027 0.001 0.049 0.0069 0.0010 0.0002 0.053 0.021 0.046 7.10 0.39 0.24					
B035298 0.158 1.342 0.002 0.017 0.204 0.024 0.008 0.013 0.022 0.004 0.027 0.001 0.049 0.0069 0.0010 0.0002 0.053 0.021 0.046 7.10 0.39 0.24																				A036660 0.152 1.346 0.001 0.016 0.193 0.019 0.008 0.013 0.020 0.005 0.027 0.001 0.047 0.0059 0.0010 0.0002 0.052 0.021 0.041 7.97 0.38 0.23				A035211 0.152 1.346 0.003 0.015 0.189 0.019 0.007 0.008 0.020 0.004 0.026 0.001 0.047 0.0059 0.0010 0.0000 0.050 0.015 0.035 7.97 0.38 0.23					
B035294 0.165 1.356 0.003 0.016 0.184 0.018 0.007 0.011 0.021 0.004 0.027 0.001 0.044 0.0059 0.0010 0.0000 0.052 0.018 0.037 7.46 0.40 0.24																				B035294 0.165 1.356 0.003 0.016 0.184 0.018 0.007 0.011 0.021 0.004 0.027 0.001 0.044 0.0059 0.0010 0.0000 0.052 0.018 0.037 7.46 0.40 0.24				B035294 0.165 1.356 0.003 0.016 0.184 0.018 0.007 0.011 0.021 0.004 0.027 0.001 0.044 0.0059 0.0010 0.0000 0.052 0.018 0.037 7.46 0.40 0.24					

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717516193
DATE : 06.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1		2		%RA	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	Longitudinal											
							Min	355	490	22		355	490	22	Min	355	490	22	Max	630	NA	1	2	3	Avg							
Specified Requirement							Min	355	490	22	---	355	490	22	---	355	490	22	Max	630	NA	---	---	27	---	---	---	---	---	---	---	---
1	24LP0489B1	A035207	15.20	2982	12250	4.359	469	575	26	---	425	559	29	---	OK	234	256	270	253	---	---	---	---	---	---	---	---	---	---	---		
2	24LP0952A1	B036315	21.50	2980	14151	7.117	403	541	30	---	396	517	28	---	OK	371	340	336	349	---	---	---	---	---	---	---	---	---	---	---	---	
3	24LP0951A1	A036660	22.00	2980	14051	7.231	424	530	26	---	429	532	25	---	OK	236	219	224	226	---	---	---	---	---	---	---	---	---	---	---	---	
4	24LP0912A1	A036345	24.00	2040	11556	4.441	434	550	26	---	429	542	28	---	OK	216	217	208	214	---	---	---	---	---	---	---	---	---	---	---	---	
5	24LP0738A1	A036658	24.90	2980	14051	8.185	424	537	31	---	412	537	32	---	OK	286	343	352	327	---	---	---	---	---	---	---	---	---	---	---	---	
6	24LP0396A1	B035082	26.30	2980	14051	8.645	433	561	30	---	426	556	31	---	---	359	380	409	383	---	---	---	---	---	---	---	---	---	---	---	---	
Chemical Composition (%)																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm						
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---			
A035207		0.165	1.371	0.003	0.015	0.188	0.022	0.007	0.008	0.019	0.004	0.027	0.001	0.044	0.0060	0.0010	0.0000	0.050	0.015	0.038	7.33	0.40	0.24									
B036315		0.164	1.350	0.001	0.015	0.186	0.022	0.007	0.010	0.017	0.005	0.026	0.001	0.045	0.0050	0.0010	0.0000	0.048	0.017	0.040	9.00	0.40	0.24									
A036660		0.155	1.360	0.001	0.016	0.197	0.019	0.008	0.013	0.020	0.005	0.027	0.001	0.048	0.0060	0.0010	0.0000	0.052	0.021	0.041	8.00	0.39	0.23									
A036345		0.155	1.370	0.003	0.012	0.202	0.012	0.007	0.011	0.018	0.005	0.025	0.001	0.037	0.0050	0.0010	0.0000	0.048	0.018	0.031	7.40	0.39	0.23									
A036658		0.158	1.360	0.002	0.013	0.191	0.016	0.008	0.013	0.021	0.005	0.027	0.001	0.041	0.0050	0.0010	0.0000	0.053	0.021	0.038	8.20	0.39	0.23									
B035082		0.162	1.350	0.003	0.016	0.194	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.043	0.0060	0.0010	0.0000	0.048	0.023	0.047	7.17	0.39	0.24									
PRODUCT ANALYSIS																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm						
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---			
A035207		0.162	1.357	0.003	0.015	0.185	0.022	0.007	0.008	0.019	0.004	0.027	0.001	0.043	0.0059	0.0010	0.0000	0.050	0.015	0.038	7.29	0.39	0.24									
B036315		0.161	1.338	0.001	0.015	0.183	0.022	0.007	0.010	0.017	0.005	0.026	0.001	0.044	0.0049	0.0010	0.0002	0.048	0.017	0.040	8.98	0.39	0.24									
A036660		0.152	1.346	0.001	0.016	0.193	0.019	0.008	0.013	0.020	0.005	0.027	0.001	0.047	0.0059	0.0010	0.0002	0.052	0.021	0.041	7.97	0.38	0.23									
A036345		0.159	1.377	0.003	0.012	0.207	0.012	0.007	0.011	0.018	0.005	0.026	0.001	0.038	0.0051	0.0010	0.0001	0.049	0.018	0.031	7.45	0.39	0.24									
A036658		0.161	1.367	0.002	0.013	0.195	0.016	0.008	0.013	0.021	0.005	0.028	0.001	0.042	0.0051	0.0010	0.0002	0.054	0.021	0.038	8.24	0.39	0.24									
B035082		0.159	1.337	0.003	0.016	0.191	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.042	0.0059	0.0010	0.0000	0.048	0.023	0.047	7.12	0.39	0.23									

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY





Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717514667- 2
DATE : 06.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011							UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0							Impact Temp.(°C) : 0															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks				
							1			2				Longitudinal															
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg	1	2	3	Avg							
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		S25-T, >25-	NA	---	27	---	---	---	---							
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25-				NA				---					
9	24LP0330A1	B035074	28.70	1697	14151	5.410	482	588	26	---	461	578	27	---	---	193	196	197	195	---	---	---	---	---	---	---	---		
Chemical Composition (%)																													
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm						
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---	
B035074																													
PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm						
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---	
B035074																													

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717529692
DATE : 07.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1													
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		2													
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	1	2	3	Avg	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
1	24LP0433A1	B035305	15.20	2982	12011	4.274	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---	---	---						
2	24LP0434A1	B035305	15.20	2980	11772	4.186	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---	---	---						
3	24LP0436A1	B035095	15.20	2980	12486	4.440	441	559	26	---	432	569	26	---	OK	179	214	188	194	---	---	---	---	---	---	---	---	---						
4	24LP0609A1	A034387	19.00	2980	14051	6.245	377	516	31	---	416	523	30	---	OK	172	148	159	160	---	---	---	---	---	---	---	---	---						
5	24LP0609B1	A034387	19.00	2980	14051	6.245	377	516	31	---	416	523	30	---	OK	172	148	159	160	---	---	---	---	---	---	---	---	---						
6	24LP0544A1	B036583	21.50	2980	14151	7.117	429	543	27	---	423	538	28	---	OK	363	361	364	363	---	---	---	---	---	---	---	---	---						
7	24LP0547A1	B036311	22.00	2980	14051	7.231	409	536	24	---	426	552	28	---	OK	342	327	348	339	---	---	---	---	---	---	---	---	---						
Chemical Composition (%)																																		
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---							
B035305			0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23										
B035305			0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23										
B035095			0.162	1.380	0.003	0.017	0.208	0.023	0.009	0.009	0.018	0.002	0.025	0.001	0.050	0.0060	0.0010	0.0000	0.045	0.018	0.042	8.33	0.40	0.24										
A034387			0.140	1.370	0.004	0.013	0.189	0.016	0.006	0.007	0.016	0.004	0.025	0.001	0.040	0.0060	0.0010	0.0000	0.045	0.013	0.030	6.67	0.37	0.22										
A034387			0.140	1.370	0.004	0.013	0.189	0.016	0.006	0.007	0.016	0.004	0.025	0.001	0.040	0.0060	0.0010	0.0000	0.045	0.013	0.030	6.67	0.37	0.22										
B036583			0.153	1.370	0.003	0.013	0.193	0.013	0.006	0.011	0.018	0.005	0.026	0.001	0.046	0.0050	0.0010	0.0000	0.049	0.017	0.031	9.20	0.39	0.23										
B036311			0.162	1.370	0.001	0.017	0.197	0.028	0.011	0.020	0.021	0.005	0.026	0.001	0.050	0.0060	0.0010	0.0000	0.052	0.031	0.060	8.33	0.40	0.24										
PRODUCT ANALYSIS																																		
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---							
B035305			0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23										
B035305			0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23										
B035095			0.159	1.366	0.003	0.017	0.204	0.023	0.009	0.009	0.018	0.002	0.025	0.001	0.049	0.0059	0.0010	0.0000	0.045	0.018	0.042	8.31	0.39	0.24										
A034387			0.137	1.358	0.004	0.013	0.186	0.016	0.006	0.007	0.016	0.004	0.025	0.001	0.039	0.0059	0.0010	0.0001	0.045	0.013	0.030	6.61	0.37	0.21										
A034387			0.137	1.358	0.004	0.013	0.186	0.016	0.006	0.007	0.016	0.004	0.025	0.001	0.039	0.0059	0.0010	0.0001	0.045	0.013	0.030	6.61	0.37	0.21										
B036583			0.151	1.355	0.003	0.013	0.190	0.013	0.006	0.011	0.018	0.005	0.026	0.001	0.045	0.0049	0.0010	0.0000	0.049	0.017	0.031	9.18	0.38	0.23										
B036311			0.159	1.358	0.001	0.017	0.193	0.027	0.011	0.020	0.021	0.005	0.026	0.001	0.049	0.0059	0.0010	0.0001	0.052	0.031	0.059	8.31	0.39	0.24										

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm

(Quality Assurance & Control Dept)

STEEL LIMITED
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717524254
DATE : 07.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3												
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0												
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks				
							1		2		%RA	YS*	UTS	%EL	YS*	UTS	%EL	YS*	UTS	%EL	1	2	3	AVG					
							(MPa)	(MPa)	(MPa)	(MPa)		(MPa)	(MPa)	(MPa)	(MPa)	(MPa)	(MPa)	(MPa)	(MPa)	(MPa)	1	2	3	AVG					
							Specified Requirement	Min	355	490	22	---	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---
							Max	---	630	---	---	---	---	630	---	---	---	---	---	NA	---	---	---	---	---	---	---	---	
1	24LP0528B1	A035055	15.20	2982	12011	4.274	438	542	30	---	446	578	28	---	OK	194	162	188	181	---	---	---	---	---	---	---	---	---	
2	24LP0701A1	B035285	16.30	2418	13860	4.288	437	551	30	---	431	547	31	---	OK	360	374	385	373	---	---	---	---	---	---	---	---	---	
3	24LP0752A1	B036313	22.00	2980	14051	7.231	403	534	29	---	400	543	23	---	OK	388	413	364	388	---	---	---	---	---	---	---	---	---	
4	24LP0694A1	A036650	24.50	2980	14151	8.110	414	553	26	---	419	557	25	---	OK	152	184	162	166	---	---	---	---	---	---	---	---	---	
5	24LP0907A1	A036652	24.50	2980	14051	8.053	420	553	28	---	411	547	29	---	OK	313	318	290	307	---	---	---	---	---	---	---	---	---	
6	24LP0908A1	A036652	24.50	2980	14051	8.053	420	553	28	---	411	547	29	---	OK	313	318	290	307	---	---	---	---	---	---	---	---	---	
Chemical Composition (%)																													
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm					
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---		
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---		
A035055		0.158	1.350	0.004	0.016	0.195	0.023	0.009	0.009	0.018	0.002	0.029	0.001	0.050	0.0040	0.0010	0.0000	0.049	0.018	0.042	12.50	0.39	0.23						
B035285		0.154	1.370	0.002	0.012	0.209	0.022	0.011	0.011	0.016	0.004	0.026	0.003	0.046	0.0060	0.0010	0.0000	0.046	0.022	0.047	7.67	0.39	0.23						
B036313		0.157	1.370	0.001	0.015	0.204	0.019	0.008	0.012	0.021	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.020	0.040	10.00	0.39	0.23						
A036650		0.164	1.410	0.001	0.018	0.193	0.019	0.007	0.013	0.022	0.005	0.029	0.001	0.041	0.0050	0.0010	0.0000	0.056	0.020	0.040	8.20	0.41	0.24						
A036652		0.156	1.360	0.002	0.018	0.209	0.028	0.010	0.014	0.020	0.005	0.030	0.001	0.042	0.0060	0.0010	0.0000	0.055	0.024	0.053	7.00	0.39	0.23						
A036652		0.156	1.360	0.002	0.018	0.209	0.028	0.010	0.014	0.020	0.005	0.030	0.001	0.042	0.0060	0.0010	0.0000	0.055	0.024	0.053	7.00	0.39	0.23						
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm					
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---		
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---		
A035055		0.155	1.337	0.004	0.016	0.191	0.023	0.009	0.009	0.018	0.002	0.028	0.001	0.049	0.0039	0.0010	0.0000	0.048	0.018	0.042	12.56	0.38	0.23						
B035285		0.157	1.377	0.002	0.012	0.213	0.022	0.011	0.011	0.016	0.004	0.027	0.003	0.047	0.0061	0.0010	0.0001	0.047	0.022	0.047	7.70	0.39	0.24						
B036313		0.160	1.377	0.001	0.015	0.208	0.019	0.008	0.012	0.021	0.005	0.027	0.001	0.051	0.0051	0.0010	0.0001	0.053	0.020	0.040	10.00	0.40	0.24						
A036650		0.161	1.397	0.001	0.018	0.190	0.019	0.007	0.013	0.022	0.005	0.028	0.001	0.040	0.0049	0.0010	0.0001	0.055	0.020	0.040	8.16	0.40	0.24						
A036652		0.154	1.345	0.002	0.018	0.206	0.028	0.010	0.014	0.020	0.005	0.030	0.001	0.041	0.0059	0.0010	0.0000	0.055	0.024	0.053	6.95	0.39	0.23						
A036652		0.154	1.345	0.002	0.018	0.206	0.028	0.010	0.014	0.020	0.005	0.030	0.001	0.041	0.0059	0.0010	0.0000	0.055	0.024	0.053	6.95	0.39	0.23						

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717507536- 1
DATE : 07.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1		2		1			Longitudinal					1		2		3									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg	1	2	3	Avg										
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---						
1	24LP0442B1	A035272	12.80	2981	11539	3.456	432	556	30	---	428	544	27	---	OK	97	103	144	115	---	---	---	---	---	---	---						
2	24LP0443A2	A035277	12.80	2981	11539	3.456	440	553	26	---	433	548	28	---	OK	347	340	336	341	---	---	---	---	---	---	---						
3	24LP0443B1	A035277	12.80	2981	11539	3.456	440	553	26	---	433	548	28	---	OK	347	340	336	341	---	---	---	---	---	---	---						
4	24LP0441A1	A035092	13.10	2981	11539	3.537	433	568	27	---	455	554	30	---	OK	152	148	139	146	---	---	---	---	---	---	---						
5	24LP0656B1	A035092	13.10	2981	11539	3.537	433	568	27	---	455	554	30	---	OK	152	148	139	146	---	---	---	---	---	---	---						
6	24LP0662B1	B035036	13.10	2981	11539	3.537	411	536	28	---	424	542	31	---	OK	304	268	297	290	---	---	---	---	---	---	---						
7	24LP0655B1	B035305	13.60	2981	11639	3.704	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---						
8	24LP0435A1	A035308	15.20	2980	11772	4.186	423	552	27	---	412	539	29	---	OK	360	337	372	356	---	---	---	---	---	---	---						
Chemical Composition (%)																				CE**			Pcm									
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm							
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---								
A035272 0.150 1.370 0.004 0.017 0.204 0.018 0.008 0.012 0.019 0.002 0.025 0.001 0.037 0.0060 0.0010 0.0000 0.046 0.020 0.039 6.17 0.38 0.23																				A035277 0.152 1.370 0.001 0.018 0.217 0.016 0.007 0.011 0.022 0.004 0.026 0.001 0.050 0.0050 0.0010 0.0000 0.052 0.018 0.035 10.00 0.39 0.23												
A035277 0.152 1.370 0.001 0.018 0.217 0.016 0.007 0.011 0.022 0.004 0.026 0.001 0.050 0.0050 0.0010 0.0000 0.052 0.018 0.035 10.00 0.39 0.23																				A035092 0.157 1.370 0.004 0.016 0.217 0.017 0.009 0.009 0.022 0.003 0.030 0.001 0.043 0.0060 0.0010 0.0000 0.055 0.018 0.036 7.17 0.39 0.23												
A035092 0.157 1.370 0.004 0.016 0.217 0.017 0.009 0.009 0.022 0.003 0.030 0.001 0.043 0.0060 0.0010 0.0000 0.055 0.018 0.036 7.17 0.39 0.23																				B035036 0.156 1.350 0.002 0.013 0.192 0.020 0.006 0.008 0.022 0.004 0.028 0.001 0.046 0.0060 0.0010 0.0000 0.054 0.014 0.035 7.67 0.39 0.23												
B035036 0.156 1.350 0.002 0.013 0.192 0.020 0.006 0.008 0.022 0.004 0.028 0.001 0.046 0.0060 0.0010 0.0000 0.054 0.014 0.035 7.67 0.39 0.23																				B035305 0.153 1.350 0.004 0.015 0.207 0.021 0.008 0.015 0.022 0.004 0.028 0.001 0.050 0.0060 0.0020 0.0000 0.054 0.023 0.045 8.33 0.38 0.23												
B035305 0.153 1.350 0.004 0.015 0.207 0.021 0.008 0.015 0.023 0.004 0.029 0.001 0.051 0.0061 0.0020 0.0001 0.056 0.023 0.045 8.36 0.39 0.23																				A035308 0.155 1.348 0.004 0.010 0.181 0.016 0.007 0.010 0.016 0.004 0.027 0.001 0.048 0.0049 0.0010 0.0001 0.047 0.017 0.034 9.80 0.39 0.23												

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CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY





Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717507536- 2
 DATE : 07.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks					
							1				2					Longitudinal																
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	AVG													
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			Min	355	490	22	---	S25-T, >25-	---	27	---	---	---	---					
Specified Requirement							Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---						
9	24LP0435A2	A035308	15.20	2980	11772	4.186	423	552	27	---	412	539	29	---	OK	360	337	372	356	---	---	---	---	---	---							
10	24LP0411B1	B035394	18.00	2542	11539	4.145	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---							
11	24LP0412B1	B035298	18.00	2542	11539	4.145	418	560	25	---	406	543	26	---	OK	104	102	71	92	---	---	---	---	---	---							
Chemical Composition (%)																																
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---							
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---								
A035308		0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23									
B035394		0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23									
B035298		0.161	1.354	0.002	0.017	0.208	0.024	0.008	0.013	0.022	0.004	0.028	0.001	0.050	0.0070	0.0010	0.0000	0.054	0.021	0.046	7.14	0.39	0.24									
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---								
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---								
A035308		0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23									
B035394		0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23									
B035298		0.158	1.342	0.002	0.017	0.204	0.024	0.008	0.013	0.022	0.004	0.027	0.001	0.049	0.0069	0.0010	0.0002	0.053	0.021	0.046	7.10	0.39	0.24									

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717543228
DATE : 09.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks												
							1				2					Longitudinal						1																	
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg															
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	NA	NA	NA	NA		1	2	3	Avg															
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-				27				---				---											
							Max	---	630	---	---	---	630	---	---	NA				---				---				---											
1	24LP0513A1	A035068	15.20	2980	13061	4.644	424	552	29	---	439	598	25	---	OK	186	127	166	160	---	---	---	---	---	---	---	---	---	---	---									
2	24LP0513B1	A035068	15.20	2980	13061	4.644	424	552	29	---	439	598	25	---	OK	186	127	166	160	---	---	---	---	---	---	---	---	---	---	---									
3	24LP0428A1	A035364	15.40	2982	13200	4.759	450	565	27	---	438	552	29	---	OK	245	282	273	267	---	---	---	---	---	---	---	---	---	---	---									
4	24LP0430B1	A035364	15.40	2982	13200	4.759	450	565	27	---	438	552	29	---	OK	245	282	273	267	---	---	---	---	---	---	---	---	---	---	---									
5	24LP1412A1	A036318	15.40	2982	13200	4.759	402	564	28	---	425	556	26	---	OK	150	161	129	147	---	---	---	---	---	---	---	---	---	---	---									
6	24KA0208X1	B035295	15.90	2980	13670	5.085	431	581	29	---	419	574	28	---	OK	34	39	30	34	---	---	---	---	---	---	---	---	---	---	---									
7	24LP0425B1	A035383	15.90	2980	13670	5.085	451	562	27	---	410	570	23	---	OK	272	257	221	250	---	---	---	---	---	---	---	---	---	---	---									
8	24LP0405A1	A035308	18.40	2980	14151	6.091	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---	---	---	---									
Chemical Composition (%)																																							
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm														
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---								
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	0.250	---	---	---	---	---	---	0.45	---	---	---	---	---	---									
A035068			0.162	1.360	0.003	0.017	0.180	0.022	0.010	0.007	0.020	0.002	0.025	0.003	0.047	0.0050	0.0010	0.0000	0.047	0.017	0.042	9.40	0.40	0.24															
A035068			0.162	1.360	0.003	0.017	0.180	0.022	0.010	0.007	0.020	0.002	0.025	0.003	0.047	0.0050	0.0010	0.0000	0.047	0.017	0.042	9.40	0.40	0.24															
A035364			0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21															
A035364			0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21															
A036318			0.167	1.350	0.002	0.015	0.189	0.019	0.007	0.009	0.020	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.016	0.036	10.00	0.40	0.24															
B035295			0.152	1.410	0.003	0.017	0.192	0.015	0.007	0.011	0.021	0.004	0.026	0.000	0.049	0.0060	0.0010	0.0000	0.051	0.018	0.033	8.17	0.39	0.23															
A035383			0.159	1.380	0.002	0.018	0.207	0.028	0.008	0.012	0.020	0.003	0.026	0.001	0.035	0.0050	0.0010	0.0000	0.049	0.020	0.049	7.00	0.40	0.24															
A035308			0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23															
PRODUCT ANALYSIS																																							
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---								
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	0.250	---	---	---	---	---	---	0.45	---	---	---	---	---	---	---	---							
A035068			0.159	1.348	0.003	0.017	0.177	0.022	0.010	0.007	0.020	0.002	0.025	0.003	0.046	0.0049	0.0010	0.0002	0.047	0.017	0.042	9.39	0.39	0.24															
A035068			0.159	1.348	0.003	0.017	0.177	0.022	0.010	0.007	0.020	0.002	0.025	0.003	0.046	0.0049	0.0010	0.0002	0.047	0.017	0.042	9.39	0.39	0.24															
A035364			0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22															
A035364			0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22															
A036318			0.164	1.335	0.002	0.015	0.186	0.019	0.007	0.009	0.020	0.005	0.026	0.001	0.049	0.0049	0.0010	0.0000	0.051	0.016	0.036	10.00	0.39	0.24															
B035295			0.149	1.396	0.003	0.017	0.189	0.015	0.007	0.011	0.021	0.004	0.026	0.000	0.048	0.0059	0.0010	0.0000	0.051	0.018	0.033	8.14	0.39	0.23															
A035383			0.157	1.365	0.002	0.018	0.204	0.028	0.008	0.012	0.020	0.003	0.026	0.001	0.034	0.0049	0.0010	0.0000	0.049	0.020	0.049	6.94	0.39	0.23															
A035308			0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23															

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717539145- 1
DATE : 08.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks					
							1			2				Longitudinal						1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1											
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---	---	---	---	---	---	---	---					
1	24LP0659B1	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---					
2	24LP0660B1	A035268	12.80	2981	11539	3.456	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---					
3	24LP0653B1	A035277	14.40	2982	11539	3.890	440	553	26	---	433	548	28	---	OK	347	340	336	341	---	---	---	---	---	---	---					
4	24LP0654B1	A035270	14.40	2982	11539	3.890	417	558	28	---	423	559	27	---	OK	172	121	175	156	---	---	---	---	---	---	---					
5	24LP0767A1	A036347	15.20	2980	13061	4.644	459	564	26	---	416	546	25	---	OK	266	221	277	255	---	---	---	---	---	---	---					
6	24LP0768B1	A036345	15.20	2980	13061	4.644	409	559	25	---	434	550	26	---	OK	48	71	69	63	---	---	---	---	---	---	---					
7	24LP0696A1	B035065	17.00	2421	14048	4.539	422	549	25	---	407	551	26	---	OK	217	220	168	202	---	---	---	---	---	---	---					
8	24LP0410B1	A035304	18.00	2542	11539	4.145	420	545	28	---	436	552	28	---	OK	339	345	314	333	---	---	---	---	---	---	---					
Chemical Composition (%)																															
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm							
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---				
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---					
A035268		0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23								
A035268		0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23								
A035277		0.152	1.370	0.001	0.018	0.217	0.016	0.007	0.011	0.022	0.004	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.018	0.035	10.00	0.39	0.23								
A035270		0.170	1.355	0.002	0.018	0.204	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.017	0.039	10.00	0.40	0.25								
A036347		0.162	1.380	0.003	0.018	0.216	0.014	0.007	0.010	0.020	0.005	0.025	0.001	0.044	0.0060	0.0020	0.0000	0.050	0.017	0.032	7.33	0.40	0.24								
A036345		0.155	1.370	0.003	0.012	0.202	0.012	0.007	0.011	0.018	0.005	0.025	0.001	0.037	0.0050	0.0010	0.0000	0.048	0.018	0.031	7.40	0.39	0.23								
B035065		0.150	1.370	0.004	0.018	0.189	0.029	0.014	0.009	0.022	0.002	0.028	0.006	0.050	0.0060	0.0010	0.0000	0.052	0.023	0.058	8.33	0.39	0.23								
A035304		0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23								
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm							
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---						
A035268		0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23								
A035268		0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23								
A035277		0.155	1.377	0.001	0.018	0.222	0.016	0.007	0.011	0.022	0.004	0.027	0.001	0.051	0.0051	0.0010	0.0002	0.053	0.018	0.035	10.00	0.39	0.23								
A035270		0.167	1.343	0.002	0.018	0.200	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0002	0.051	0.017	0.039	10.00	0.40	0.24								
A036347		0.159	1.368	0.003	0.018	0.212	0.014	0.007	0.010	0.020	0.005	0.025	0.001	0.043	0.0059	0.0020	0.0002	0.050	0.017	0.032	7.29	0.39	0.24								
A036345		0.159	1.377	0.003	0.012	0.207	0.012	0.007	0.011	0.018	0.005	0.026	0.001	0.038	0.0051	0.0010	0.0001	0.049	0.018	0.031	7.45	0.39	0.24								
B035065		0.147	1.358	0.004	0.018	0.186	0.028	0.014	0.009	0.022	0.002	0.027	0.006	0.049	0.0059	0.0010	0.0001	0.051	0.023	0.057	8.31	0.38	0.22								
A035304		0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23								

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm



(Quality Assurance & Control Dept)
AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717539145- 2
 DATE : 08.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011							UT STD. : EN10160 S2 E3																						
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0							Impact Temp.(°C) : 0																						
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks											
							1			2				Longitudinal						1 2 3 AVG																
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG														
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25-		NA		---				27	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---		---				---	---	---	---	---	---	---						
9	24LP0733A1	A035275	25.60	2980	14051	8.415	443	555	28	---	427	541	30	---	---	271	318	295	295	---	---	---	---	---	---	---	---	---	---							
Chemical Composition (%)																																				
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm												
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---							
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---							
A035275		0.161	1.365	0.002	0.018	0.204	0.015	0.007	0.011	0.021	0.004	0.026	0.001	0.048	0.0060	0.0020	0.0000	0.051	0.018	0.034	8.00	0.39	0.24													
PRODUCT ANALYSIS																																				
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---							
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---							
A035275		0.158	1.351	0.002	0.018	0.200	0.015	0.007	0.011	0.021	0.004	0.026	0.001	0.047	0.0059	0.0020	0.0000	0.051	0.018	0.034	7.97	0.39	0.23													

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



STEEL LIMITED
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717538807
DATE : 08.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	25-2T, >25-	---	27	---	---	---	---	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-2T, >25-		---	27	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	NA		---	---	---	---	---	---	---	---	---	---	---				
1	24LP0504A1	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	249	245	233	242	---	---	---	---	---	---	---	---	---				
2	24LP0439A1	A035308	13.60	2981	11639	3.704	423	552	27	---	412	539	29	---	OK	360	337	372	356	---	---	---	---	---	---	---	---	---				
3	24LP0766A1	A036345	15.60	2982	13436	4.907	409	559	25	---	434	550	26	---	OK	48	71	69	63	---	---	---	---	---	---	---	---	---				
4	24LP0732A1	A035217	25.60	2980	14051	8.415	410	544	27	---	404	538	28	---	---	388	359	357	368	---	---	---	---	---	---	---	---	---				
5	24LP0475A1	B035097	27.70	2980	14051	9.105	395	511	30	---	401	519	29	---	---	268	294	266	276	---	---	---	---	---	---	---	---	---				
6	24LP0382A1	B035311	32.50	2980	14051	10.683	418	539	28	---	433	544	28	---	---	344	357	338	346	---	---	---	---	---	---	---	---	---				

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035274	0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23
	A035308	0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23
	A036345	0.155	1.370	0.003	0.012	0.202	0.012	0.007	0.011	0.018	0.005	0.025	0.001	0.037	0.0050	0.0010	0.0000	0.048	0.018	0.031	7.40	0.39	0.23
	A035217	0.150	1.360	0.003	0.018	0.196	0.018	0.007	0.008	0.015	0.004	0.027	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.015	0.034	6.17	0.38	0.23
	B035097	0.156	1.372	0.003	0.018	0.208	0.029	0.011	0.015	0.017	0.003	0.027	0.001	0.049	0.0060	0.0010	0.0000	0.047	0.026	0.056	8.17	0.39	0.23
	B035311	0.154	1.350	0.002	0.017	0.184	0.025	0.007	0.010	0.018	0.003	0.028	0.001	0.040	0.0050	0.0010	0.0000	0.049	0.017	0.043	8.00	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035274	0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24
	A035308	0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23
	A036345	0.159	1.377	0.003	0.012	0.207	0.012	0.007	0.011	0.018	0.005	0.026	0.001	0.038	0.0051	0.0010	0.0001	0.049	0.018	0.031	7.45	0.39	0.24
	A035217	0.147	1.346	0.003	0.018	0.192	0.018	0.007	0.008	0.015	0.004	0.027	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.015	0.034	6.10	0.38	0.22
	B035097	0.154	1.358	0.003	0.018	0.206	0.029	0.011	0.015	0.017	0.003	0.027	0.001	0.048	0.0059	0.0010	0.0000	0.047	0.026	0.056	8.14	0.39	0.23
	B035311	0.158	1.357	0.002	0.017	0.188	0.026	0.007	0.010	0.018	0.003	0.029	0.001	0.041	0.0051	0.0010	0.0001	0.050	0.017	0.044	8.04	0.39	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)
AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717538572
DATE : 08.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks													
							1				2					Longitudinal						1																		
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1																			
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		2																			
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-				27				---				---		---										
							Max	---	630	---	---	---	630	---	---	NA				---				---				---		---										
1	24LP0428B1	A035364	15.40	2982	13200	4.759	450	565	27	---	438	552	29	---	OK	245	282	273	267	---	---	---	---	---	---	---	---	---	---	---										
2	24LP0429A1	A035364	15.40	2982	13200	4.759	450	565	27	---	438	552	29	---	OK	245	282	273	267	---	---	---	---	---	---	---	---	---	---	---										
3	24LP0429B1	A035364	15.40	2982	13200	4.759	450	565	27	---	438	552	29	---	OK	245	282	273	267	---	---	---	---	---	---	---	---	---	---	---										
4	24LP0430A1	A035364	15.40	2982	13200	4.759	450	565	27	---	438	552	29	---	OK	245	282	273	267	---	---	---	---	---	---	---	---	---	---	---										
5	24LP0427A1	A035070	15.90	2980	13670	5.085	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---	---	---										
6	24LP0427B1	A035070	15.90	2980	13670	5.085	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---	---	---										
7	24LP0413B1	A035308	17.70	2980	14051	5.818	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---	---	---	---										
8	24LP0910A2	A036347	24.00	2040	11556	4.441	418	554	25	---	416	546	25	---	OK	219	229	205	218	---	---	---	---	---	---	---	---	---	---	---										
Chemical Composition (%)																																								
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm															
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---									
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---										
A035364			0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21																
A035364			0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21																
A035364			0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21																
A035364			0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21																
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24																
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24																
A035308			0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23																
A036347			0.162	1.380	0.003	0.018	0.216	0.014	0.007	0.010	0.020	0.005	0.025	0.001	0.044	0.0060	0.0020	0.0000	0.050	0.017	0.032	7.33	0.40	0.24																
PRODUCT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm															
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---									
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	---										
A035364			0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22																
A035364			0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22																
A035364			0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22																
A035364			0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22																
A035070			0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24																
A035070			0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24																
A035308			0.158	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23																
A036347			0.159	1.368	0.003	0.018	0.212	0.014	0.007	0.010	0.020	0.005	0.025	0.001	0.043	0.0059	0.0020	0.0002	0.050	0.017	0.032	7.29	0.39	0.24																

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717532086
DATE : 08.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)	Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks											
							1				2					Longitudinal				1	2	3	Avg												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg													
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	(MPa)	(MPa)	1	2	3	Avg													
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25- NA	---				27				---										
							Max	---	630	---	---	---	630	---	---		---				---				---										
1	24LP0393A1	A035072	27.70	2980	14051	9.105	421	555	29	---	425	550	29	---	---	292	277	267	279	---	---	---	---	---	---	---	---								
2	24LP0381A1	B035305	32.50	2980	14051	10.683	415	546	27	---	431	550	28	---	---	219	248	252	240	---	---	---	---	---	---	---	---								
3	24LP0465A1	A035072	33.60	2980	14051	11.044	421	555	29	---	425	550	29	---	---	292	277	267	279	---	---	---	---	---	---	---	---								
4	24LP0318A1	B035082	34.80	2692	14151	10.407	433	561	30	---	426	556	31	---	---	359	380	374	371	---	---	---	---	---	---	---	---								

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
A035072	0.162	1.360	0.003	0.018	0.196	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.020	0.045	9.00	0.40	0.24	
B035305	0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23	
A035072	0.162	1.360	0.003	0.018	0.196	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.020	0.045	9.00	0.40	0.24	
B035082	0.162	1.350	0.003	0.016	0.194	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.043	0.0060	0.0010	0.0000	0.048	0.023	0.047	7.17	0.39	0.24	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
A035072	0.159	1.348	0.003	0.018	0.192	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.044	0.0049	0.0010	0.0002	0.051	0.020	0.045	8.98	0.39	0.24	
B035305	0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23	
A035072	0.159	1.348	0.003	0.018	0.192	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.044	0.0049	0.0010	0.0002	0.051	0.020	0.045	8.98	0.39	0.24	
B035082	0.159	1.337	0.003	0.016	0.191	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.042	0.0059	0.0010	0.0000	0.048	0.023	0.047	7.12	0.39	0.23	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717549733- 1
DATE : 09.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2			Longitudinal				1	2	3	Avg	1	2	3	Avg								
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	(MPa)	(MPa)	(MPa)	(MPa)	5.65Va	5.65Va	1	2	3	Avg								
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-		NA	---	27	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---	---	---	---	---	---	---	---	---					
1	24KA0496X1	B036338	24.50	2980	14051	8.053	422	549	28	---	418	541	25	---	OK	256	270	240	255	---	---	---	---	---	---	---	---					
2	24LP0423A1	A035070	16.30	2418	13860	4.288	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---				
3	24LP0500A1	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	249	245	233	242	---	---	---	---	---	---	---	---	---				
4	24LP0500A2	A035274	12.80	2981	11539	3.456	423	556	25	---	417	544	24	---	OK	249	245	233	242	---	---	---	---	---	---	---	---	---				
5	24LP0503A2	A035217	12.80	2981	11539	3.456	385	559	26	---	408	540	28	---	OK	71	127	84	94	---	---	---	---	---	---	---	---	---				
6	24LP0657A1	A034650	12.80	2981	11539	3.456	420	569	27	---	416	547	23	---	OK	70	66	62	66	---	---	---	---	---	---	---	---	---				
7	24LP0695B1	B035052	17.00	2421	14048	4.539	431	539	30	---	446	548	29	---	OK	350	315	339	335	---	---	---	---	---	---	---	---	---				
8	24LP0700A1	B035285	16.30	2418	13860	4.288	437	551	30	---	431	547	31	---	OK	360	374	385	373	---	---	---	---	---	---	---	---	---				
Chemical Composition (%)																																
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm								
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---					
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---					
B036338 0.166 1.350 0.002 0.016 0.197 0.016 0.007 0.010 0.020 0.005 0.027 0.001 0.044 0.0060 0.0010 0.0000 0.052 0.017 0.034 7.33 0.40 0.24																																
A035070 0.164 1.360 0.003 0.018 0.196 0.020 0.009 0.001 0.022 0.002 0.026 0.002 0.043 0.0050 0.0020 0.0000 0.050 0.010 0.032 8.60 0.40 0.24																																
A035274 0.155 1.375 0.004 0.018 0.220 0.016 0.007 0.011 0.022 0.002 0.027 0.001 0.050 0.0050 0.0010 0.0000 0.051 0.018 0.035 10.00 0.39 0.23																																
A035274 0.155 1.375 0.004 0.018 0.220 0.016 0.007 0.011 0.022 0.002 0.027 0.001 0.050 0.0050 0.0010 0.0000 0.051 0.018 0.035 10.00 0.39 0.23																																
A035217 0.150 1.360 0.003 0.018 0.196 0.018 0.007 0.008 0.015 0.004 0.027 0.001 0.037 0.0060 0.0010 0.0000 0.046 0.015 0.034 6.17 0.38 0.23																																
A034650 0.156 1.430 0.001 0.015 0.216 0.026 0.009 0.015 0.022 0.005 0.030 0.001 0.045 0.0050 0.0010 0.0000 0.057 0.024 0.051 9.00 0.40 0.24																																
B035052 0.158 1.350 0.004 0.016 0.195 0.028 0.043 0.015 0.016 0.002 0.026 0.001 0.050 0.0050 0.0010 0.0000 0.044 0.058 0.087 10.00 0.39 0.24																																
B035285 0.154 1.370 0.002 0.012 0.209 0.022 0.011 0.011 0.016 0.004 0.026 0.003 0.046 0.0060 0.0010 0.0000 0.046 0.022 0.047 0.047 0.022 0.047 7.67 0.39 0.24																																
PRODUCT ANALYSIS																																
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---					
B036338 0.164 1.335 0.002 0.016 0.194 0.016 0.007 0.010 0.020 0.005 0.027 0.001 0.043 0.0059 0.0010 0.0000 0.052 0.017 0.034 7.29 0.39 0.24																																
A035070 0.161 1.348 0.003 0.018 0.192 0.020 0.009 0.001 0.022 0.002 0.026 0.002 0.042 0.0049 0.0020 0.0001 0.050 0.010 0.032 8.57 0.39 0.24																																
A035274 0.158 1.382 0.004 0.018 0.225 0.016 0.007 0.011 0.022 0.002 0.028 0.001 0.051 0.0051 0.0010 0.0002 0.052 0.018 0.035 10.00 0.39 0.24																																
A035274 0.158 1.382 0.004 0.018 0.225 0.016 0.007 0.011 0.022 0.002 0.028 0.001 0.051 0.0051 0.0010 0.0002 0.052 0.018 0.035 10.00 0.39 0.24																																
A035217 0.147 1.346 0.003 0.018 0.192 0.027 0.009 0.015 0.023 0.005 0.031 0.001 0.046 0.0051 0.0010 0.0001 0.046 0.015 0.034 6.10 0.38 0.22																																
A034650 0.160 1.437 0.001 0.015 0.221 0.027 0.009 0.015 0.023 0.005 0.031 0.001 0.046 0.0051 0.0010 0.0001 0.059 0.024 0.052 9.02 0.41 0.24																																
B035052 0.156 1.335 0.004 0.016 0.192 0.028 0.042 0.015 0.016 0.002 0.026 0.001 0.049 0.0049 0.0010 0.0000 0.044 0.057 0.086 10.00 0.39 0.23																																
B035285 0.157 1.377 0.002 0.012 0.213 0.022 0.011 0.011 0.016 0.004 0.027 0.003 0.047 0.0061 0.0010 0.0001 0.047 0.022 0.047 0.047 0.022 0.047 7.70 0.39 0.24																																



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717549733- 2
 DATE : 09.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011							UT STD. : EN10160 S2 E3																			
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0							Impact Temp.(°C) : 0																			
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2				Longitudinal						1 2 3 AVG													
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg	1	2	3	Avg											
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---						
9	24LP0913A2	A036658	24.00	2040	11556	4.441	424	537	31	---	412	537	32	---	OK	286	343	352	327	---	---	---	---	---	---	---	---						
Chemical Composition (%)																																	
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	0.45	---					
A036658		0.158	1.360	0.002	0.013	0.191	0.016	0.008	0.013	0.021	0.005	0.027	0.001	0.041	0.0050	0.0010	0.0000	0.053	0.021	0.038	8.20	0.39	0.23										
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	0.45	---					
A036658		0.161	1.367	0.002	0.013	0.195	0.016	0.008	0.013	0.021	0.005	0.028	0.001	0.042	0.0051	0.0010	0.0002	0.054	0.021	0.038	8.24	0.39	0.24										

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm



(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CM/L- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717545386- 1
 DATE : 10.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3									
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0									
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks	
							1		2		1			Longitudinal												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG				
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		S25-T, >25	NA	---	27	---	---	---	---				
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25		---	27	---	---	---	---	---	---	---
1	24JA0412X1	B034423	14.90	2872	11539	3.876	455	550	30	---	430	533	26	---	OK	278	235	252	255	---	---	---	---	---	---	
2	24LP0438B1	B035305	13.60	2981	11639	3.704	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	
3	24LP0497A2	A035272	12.80	2981	11539	3.456	432	556	30	---	428	544	27	---	OK	97	173	144	138	---	---	---	---	---	---	
Chemical Composition (%)																										
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm		
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---		
B034423		0.135	1.370	0.003	0.015	0.192	0.020	0.007	0.011	0.020	0.005	0.026	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.018	0.039	9.00	0.37	0.21			
B035305		0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23			
A035272		0.150	1.370	0.004	0.017	0.204	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.020	0.039	6.17	0.38	0.23			
PRODUCT ANALYSIS																										
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---		
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---		
B034423		0.138	1.377	0.003	0.015	0.196	0.020	0.007	0.011	0.020	0.005	0.027	0.001	0.046	0.0051	0.0010	0.0001	0.052	0.018	0.039	9.02	0.37	0.22			
B035305		0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23			
A035272		0.147	1.356	0.004	0.017	0.200	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.020	0.039	6.10	0.38	0.22			

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



STEEL LIMITED
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717569058- 1
 DATE : 12.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
 P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024

SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
 GRADE : S355J0+N / E350B0

UT STD. : EN10160 S2 E3
 Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal								1	2	3	Avg							
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA															
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		NA																		
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LP0703A1	A035092	24.00	2040	11556	4.441	433	568	27	---	455	554	30	---	OK	149	162	185	165	---	---	---	---	---	---	---	---	---	---					
2	24LP0904B1	A035055	17.00	2421	14048	4.539	431	551	32	---	446	578	28	---	OK	388	333	335	352	---	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
A035092	0.157	1.370	0.004	0.016	0.217	0.017	0.009	0.009	0.022	0.003	0.030	0.001	0.043	0.0060	0.0010	0.0000	0.055	0.018	0.036	7.17	0.39	0.23	
A035055	0.158	1.350	0.004	0.016	0.195	0.023	0.009	0.009	0.018	0.002	0.029	0.001	0.050	0.0040	0.0010	0.0000	0.049	0.018	0.042	12.50	0.39	0.23	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
A035092	0.154	1.356	0.004	0.016	0.213	0.017	0.009	0.009	0.022	0.003	0.029	0.001	0.042	0.0059	0.0010	0.0000	0.054	0.018	0.036	7.12	0.39	0.23	
A035055	0.155	1.337	0.004	0.016	0.191	0.023	0.009	0.009	0.018	0.002	0.028	0.001	0.049	0.0039	0.0010	0.0000	0.048	0.018	0.042	12.56	0.38	0.23	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm



(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717562273- 1
 DATE : 12.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED				SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011												UT STD. : EN10160 S2 E3																
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024				GRADE : S355J0+N / E350B0												Impact Temp.(°C) : 0																
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2				Longitudinal						1 2 3 AVG												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG										
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	NA		---	---	---	---	---	---	---	---	---	---					
1	24GA0518X1	A032111	14.90	2872	11539	3.876	443	564	28	---	429	531	28	---	OK	347	294	332	324	---	---	---	---	---	---	---	---					
2	24GA0518X2	A032111	14.90	2872	11539	3.876	443	564	28	---	429	531	28	---	OK	347	294	332	324	---	---	---	---	---	---	---	---					
3	24JA0503X1	A034656	14.90	2872	11539	3.876	447	575	26	---	433	541	32	---	OK	110	90	125	108	---	---	---	---	---	---	---	---					
Chemical Composition (%)																																
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---				
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---					
A032111		0.136	1.438	0.002	0.014	0.190	0.021	0.005	0.011	0.019	0.006	0.034	0.001	0.026	0.0050	0.0020	0.0000	0.059	0.016	0.038	5.20	0.38	0.22									
A032111		0.136	1.438	0.002	0.014	0.190	0.021	0.005	0.011	0.019	0.006	0.034	0.001	0.026	0.0050	0.0020	0.0000	0.059	0.016	0.038	5.20	0.38	0.22									
A034656		0.156	1.400	0.002	0.018	0.180	0.030	0.009	0.008	0.019	0.005	0.029	0.002	0.038	0.0050	0.0010	0.0000	0.053	0.017	0.049	7.60	0.40	0.23									
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---						
A032111		0.134	1.422	0.002	0.014	0.187	0.021	0.005	0.011	0.019	0.006	0.033	0.001	0.026	0.0049	0.0020	0.0000	0.058	0.016	0.038	5.31	0.38	0.21									
A032111		0.134	1.422	0.002	0.014	0.187	0.021	0.005	0.011	0.019	0.006	0.033	0.001	0.026	0.0049	0.0020	0.0000	0.058	0.016	0.038	5.31	0.38	0.21									
A034656		0.154	1.385	0.002	0.018	0.177	0.030	0.009	0.008	0.019	0.005	0.029	0.002	0.037	0.0049	0.0010	0.0000	0.053	0.017	0.049	7.55	0.39	0.23									

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS-2062
CM/L- 7945703TEST CERTIFICATE NO. : JSW/PCMD/7717804482- 1
DATE : 12.02.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3								
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0								
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks
							1		2		1			Longitudinal											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG			
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	S25-T, >25-	---	27	---	---	---	---	---	---	---	---
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25- NA		---	---	---	---	---	---	---	---
1	25AP0048A1	A036322	26.30	2980	14051	8.645	426	546	23	---	423	528	24	---	320	298	317	312	---	---	---	---	---		
2	25AP0054A1	B036328	25.60	2980	14051	8.415	438	543	28	---	440	542	29	---	---	356	361	337	351	---	---	---	---	---	
3	25AP0297A1	M016098B	24.50	2980	14051	8.053	429	529	27	---	478	558	23	---	OK	260	284	312	285	---	---	---	---	---	
Chemical Composition (%)																									
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm	
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---
A036322		0.151	1.380	0.001	0.017	0.189	0.022	0.010	0.017	0.022	0.005	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.054	0.027	0.050	10.00	0.39	0.23		
B036328		0.155	1.360	0.001	0.011	0.194	0.023	0.009	0.014	0.020	0.005	0.026	0.002	0.043	0.0050	0.0010	0.0000	0.051	0.023	0.048	8.60	0.39	0.23		
M016098B		0.170	1.350	0.004	0.015	0.220	0.019	0.008	0.006	0.020	0.005	0.025	0.002	0.027	0.0077	0.0017	0.0004	0.050	0.014	0.035	3.51	0.40	0.25		
PRODUCT ANALYSIS																									
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---
A036322		0.156	1.362	0.001	0.014	0.189	0.030	0.014	0.013	0.018	0.001	0.029	0.003	0.049	0.0048	0.0013	0.0004	0.048	0.027	0.060	10.23	0.39	0.23		
B036328		0.151	1.405	0.002	0.013	0.197	0.034	0.013	0.013	0.019	0.002	0.032	0.004	0.040	0.0038	0.0016	0.0004	0.053	0.026	0.064	10.58	0.39	0.23		
M016098B		0.159	1.389	0.003	0.013	0.220	0.021	0.010	0.008	0.018	0.002	0.028	0.004	0.025	0.0027	0.0015	0.0002	0.048	0.018	0.043	9.09	0.40	0.24		

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717831674
DATE : 15.02.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		1	2	3	Avg		1	2	3	Avg									
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---				
1	25AP0055A1	B036328	24.90	2980	14051	8.185	438	543	28	---	440	542	29	---	OK	356	361	337	351	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm	
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---

B036328 0.155 1.360 0.001 0.011 0.194 0.023 0.009 0.014 0.020 0.005 0.026 0.002 0.043 0.0050 0.0010 0.0000 0.051 0.023 0.048 8.60 0.39 0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---

B036328 0.151 1.405 0.002 0.013 0.197 0.034 0.013 0.013 0.019 0.002 0.032 0.004 0.040 0.0038 0.0016 0.0004 0.053 0.026 0.064 10.58 0.39 0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
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- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717830461
DATE : 15.02.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2					Longitudinal						1	2	3	Avg									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		1	2	3	Avg		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LA1933X1	A036652	15.20	2982	12011	4.274	422	550	25	---	411	547	29	---	OK	313	318	290	307	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm	
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---

A036652 0.156 1.360 0.002 0.018 0.209 0.028 0.010 0.014 0.020 0.005 0.030 0.001 0.042 0.0060 0.0010 0.0000 0.055 0.024 0.053 7.00 0.39 0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---

A036652 0.154 1.345 0.002 0.018 0.206 0.028 0.010 0.014 0.020 0.005 0.030 0.001 0.041 0.0059 0.0010 0.0000 0.055 0.024 0.053 6.95 0.39 0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CML-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm



(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717606739- 1
 DATE : 17.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks					
							1				2					Longitudinal						1 2 3 AVG										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1 2 3 AVG											
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			S25-T, >25- NA	---	27	---		1 2 3 AVG											
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25- NA				---	---				---	---	---					
1	24LP0792B1	A035055	15.20	2982	12250	4.359	438	542	30	---	446	578	28	---	OK	194	162	188	181	---	---	---	---	---	---	---	---					
2	24LP1228A1	A033843	15.20	2982	12725	4.528	456	574	25	---	457	564	30	---	OK	231	228	215	225	---	---	---	---	---	---	---	---					
Chemical Composition (%)																																
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	0.45	---					
A035055		0.158	1.350	0.004	0.016	0.195	0.023	0.009	0.009	0.018	0.002	0.029	0.001	0.050	0.0040	0.0010	0.0000	0.049	0.018	0.042	12.50	0.39	0.23									
A033843		0.136	1.440	0.003	0.015	0.211	0.017	0.005	0.007	0.024	0.006	0.033	0.001	0.040	0.0060	0.0020	0.0000	0.063	0.012	0.030	6.67	0.38	0.22									
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm								
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	0.45	---					
A035055		0.155	1.337	0.004	0.016	0.191	0.023	0.009	0.009	0.018	0.002	0.028	0.001	0.049	0.0039	0.0010	0.0000	0.048	0.018	0.042	12.56	0.38	0.23									
A033843		0.139	1.447	0.003	0.015	0.215	0.017	0.005	0.007	0.025	0.006	0.034	0.001	0.041	0.0061	0.0020	0.0000	0.065	0.012	0.030	6.72	0.39	0.22									

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY

 JSW STEEL LIMITED



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717887502
DATE : 22.02.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		1	2	3	Avg		1	2	3	Avg									
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---				
1	25AP0237A1	B036574	20.90	2980	14051	6.870	391	520	26	---	403	550	24	---	OK	323	307	310	313	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm	
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---

B036574 0.155 1.380 0.002 0.016 0.180 0.016 0.005 0.011 0.018 0.005 0.027 0.001 0.045 0.0050 0.0010 0.0000 0.050 0.016 0.033 9.00 0.39 0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---

B036574 0.156 1.349 0.002 0.015 0.174 0.032 0.009 0.011 0.016 0.002 0.029 0.003 0.037 0.0039 0.0012 0.0004 0.047 0.020 0.054 9.57 0.39 0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717444318
DATE : 26.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	25-T, >25-	---	27	---	---	---	---	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-		---	27	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	NA		---	---	---	---	---	---	---	---	---	---					
1	24LP0347B1	E985286	20.90	2980	14051	6.870	401	555	26	---	409	560	25	---	OK	138	191	182	170	---	---	---	---	---	---	---	---					
2	24LP0348A1	E985286	20.90	2980	14051	6.870	401	555	26	---	409	560	25	---	OK	138	191	182	170	---	---	---	---	---	---	---	---					
3	24LP0349B1	E985282	20.90	2980	14051	6.870	428	560	28	---	425	557	29	---	OK	270	260	266	265	---	---	---	---	---	---	---	---					
4	24LP0353B1	F985256	20.20	2980	14051	6.640	421	564	26	---	414	549	27	---	OK	276	272	308	285	---	---	---	---	---	---	---	---					
5	24LP1407A1	D985173	20.20	2980	14051	6.640	418	568	28	---	427	572	26	---	OK	162	184	171	172	---	---	---	---	---	---	---	---					
6	24LP1407B1	D985173	20.20	2980	14051	6.640	418	568	28	---	427	572	26	---	OK	162	184	171	172	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	E985286	0.186	1.400	0.003	0.015	0.178	0.016	0.008	0.007	0.016	0.002	0.027	0.001	0.033	0.0052	0.0018	0.0003	0.045	0.015	0.032	6.35	0.42	0.26
	E985286	0.186	1.400	0.003	0.015	0.178	0.016	0.008	0.007	0.016	0.002	0.027	0.001	0.033	0.0052	0.0018	0.0003	0.045	0.015	0.032	6.35	0.42	0.26
	E985282	0.189	1.390	0.003	0.012	0.182	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.036	0.0040	0.0025	0.0002	0.043	0.017	0.037	9.00	0.43	0.27
	F985256	0.186	1.380	0.003	0.014	0.181	0.024	0.009	0.007	0.016	0.001	0.025	0.001	0.036	0.0046	0.0019	0.0003	0.042	0.016	0.041	7.83	0.42	0.26
	D985173	0.188	1.380	0.003	0.015	0.179	0.027	0.007	0.006	0.012	0.002	0.027	0.001	0.031	0.0042	0.0024	0.0004	0.041	0.013	0.041	7.38	0.42	0.27
	D985173	0.188	1.380	0.003	0.015	0.179	0.027	0.007	0.006	0.012	0.002	0.027	0.001	0.031	0.0042	0.0024	0.0004	0.041	0.013	0.041	7.38	0.42	0.27

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	E985286	0.183	1.386	0.003	0.015	0.175	0.016	0.008	0.007	0.016	0.002	0.027	0.001	0.032	0.0051	0.0018	0.0003	0.045	0.015	0.032	6.27	0.42	0.26
	E985286	0.183	1.386	0.003	0.015	0.175	0.016	0.008	0.007	0.016	0.002	0.027	0.001	0.032	0.0051	0.0018	0.0003	0.045	0.015	0.032	6.27	0.42	0.26
	E985282	0.186	1.377	0.003	0.012	0.179	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.035	0.0039	0.0025	0.0002	0.043	0.017	0.037	8.97	0.42	0.26
	F985256	0.183	1.368	0.003	0.014	0.178	0.024	0.009	0.007	0.016	0.001	0.025	0.001	0.035	0.0045	0.0019	0.0003	0.042	0.016	0.041	7.78	0.42	0.26
	D985173	0.185	1.368	0.003	0.015	0.176	0.027	0.007	0.006	0.012	0.002	0.027	0.001	0.030	0.0041	0.0024	0.0004	0.041	0.013	0.041	7.32	0.42	0.26
	D985173	0.185	1.368	0.003	0.015	0.176	0.027	0.007	0.006	0.012	0.002	0.027	0.001	0.030	0.0041	0.0024	0.0004	0.041	0.013	0.041	7.32	0.42	0.26

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011. CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO. PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
Note :
1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
3) Supply Condition : Normalized rolled
4) Mechanical Properties are certified at Room Temperature unless specified.
5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
7) Surface condition as per EN10163-2 Class B,Subclass-3,
8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)
DEEPCO INDIA PRIVATE LIMITED
STEEL LIMITED
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717444228
DATE : 26.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks										
							1				2					Longitudinal																					
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA																		
							(MPa)	(MPa)	5.65va		(MPa)	(MPa)	5.65va			(MPa)	(MPa)	5.65va																			
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25	---	27	---	---	---	---	---	---	---	---	---	---	---									
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---								
1	24LP0377A1	A035072	33.00	2980	14051	10.847	421	555	29	---	425	550	29	---	---	292	320	267	293	---	---	---	---	---	---	---	---	---									
2	24LP0378A1	B035082	33.00	2980	14051	10.847	433	561	30	---	426	556	31	---	---	359	380	409	383	---	---	---	---	---	---	---	---	---									
3	24LP0379A1	B035082	33.00	2980	14051	10.847	433	561	30	---	426	556	31	---	---	359	380	409	383	---	---	---	---	---	---	---	---	---									
4	24LP0395A1	A035072	26.30	2980	14051	8.645	421	555	29	---	425	550	29	---	---	292	320	267	293	---	---	---	---	---	---	---	---	---									
Chemical Composition (%)																																					
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm													
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---								
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---	---								
A035072		0.162	1.360	0.003	0.018	0.196	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.020	0.045	9.00	0.40	0.24														
B035082		0.162	1.350	0.003	0.016	0.194	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.043	0.0060	0.0010	0.0000	0.048	0.023	0.047	7.17	0.39	0.24														
B035082		0.162	1.350	0.003	0.016	0.194	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.043	0.0060	0.0010	0.0000	0.048	0.023	0.047	7.17	0.39	0.24														
A035072		0.162	1.360	0.003	0.018	0.196	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.020	0.045	9.00	0.40	0.24														
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm													
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---								
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---	---	---	---	---	---								
A035072		0.159	1.348	0.003	0.018	0.192	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.044	0.0049	0.0010	0.0002	0.051	0.020	0.045	8.98	0.39	0.24														
B035082		0.159	1.337	0.003	0.016	0.191	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.042	0.0059	0.0010	0.0000	0.048	0.023	0.047	7.12	0.39	0.23														
B035082		0.159	1.337	0.003	0.016	0.191	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.042	0.0059	0.0010	0.0000	0.048	0.023	0.047	7.12	0.39	0.23														
A035072		0.159	1.348	0.003	0.018	0.192	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.044	0.0049	0.0010	0.0002	0.051	0.020	0.045	8.98	0.39	0.24														

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test, Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<t≤63=335,63<t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY





Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS-2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717440513
DATE : 25.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)	Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test				NDTT	Remarks		
							1	2	1																				
							Min	355	490	22	---	355	490	22	---	S25-2T, >25-	NA	1	2	3	Avg	1	2	3	Avg				
							Max	---	630	---	---	---	630	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
1	24LP0362A1	A035373	33.00	2980	14051	10.847	443	551	25	---	427	542	27	---	---	373	267	312	317	---	---	---	---	---	---	---	---	---	---
2	24LP0363A1	A035373	33.00	2980	14051	10.847	443	551	25	---	427	542	27	---	---	373	267	312	317	---	---	---	---	---	---	---	---	---	---
3	24LP0597A1	F983642	33.60	2980	14051	11.044	404	540	29	---	409	543	27	---	---	348	356	347	350	---	---	---	---	---	---	---	---	---	---
4	24LP0785A2	B035093	12.80	2981	11539	3.456	420	546	27	---	392	515	31	---	OK	376	354	398	376	---	---	---	---	---	---	---	---	---	---
5	24LP0859A2	B035280	15.20	2980	12486	4.440	418	552	28	---	419	547	29	---	OK	169	183	174	175	---	---	---	---	---	---	---	---	---	---

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
	A035373	0.142	1.430	0.003	0.015	0.196	0.026	0.009	0.013	0.024	0.003	0.034	0.002	0.047	0.0050	0.0020	0.0000	0.061	0.022	0.050	9.40	0.39	0.22
	A035373	0.142	1.430	0.003	0.015	0.196	0.026	0.009	0.013	0.024	0.003	0.034	0.002	0.047	0.0050	0.0020	0.0000	0.061	0.022	0.050	9.40	0.39	0.22
	F983642	0.160	1.390	0.003	0.012	0.204	0.020	0.008	0.005	0.014	0.002	0.024	0.001	0.035	0.0048	0.0023	0.0003	0.040	0.013	0.034	7.29	0.40	0.24
	B035093	0.150	1.352	0.004	0.016	0.180	0.023	0.012	0.010	0.022	0.003	0.027	0.002	0.050	0.0060	0.0010	0.0000	0.052	0.022	0.047	8.33	0.38	0.23
	B035280	0.153	1.360	0.002	0.012	0.197	0.021	0.006	0.008	0.017	0.005	0.028	0.001	0.041	0.0070	0.0010	0.0000	0.050	0.014	0.036	5.86	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
	A035373	0.140	1.416	0.003	0.015	0.194	0.026	0.009	0.013	0.024	0.003	0.034	0.002	0.046	0.0049	0.0020	0.0000	0.061	0.022	0.050	9.39	0.38	0.22
	A035373	0.140	1.416	0.003	0.015	0.194	0.026	0.009	0.013	0.024	0.003	0.034	0.002	0.046	0.0049	0.0020	0.0000	0.061	0.022	0.050	9.39	0.38	0.22
	F983642	0.158	1.376	0.003	0.012	0.202	0.020	0.008	0.005	0.014	0.002	0.024	0.001	0.035	0.0047	0.0023	0.0003	0.040	0.013	0.034	7.45	0.39	0.24
	B035093	0.147	1.338	0.004	0.016	0.177	0.023	0.012	0.010	0.022	0.003	0.027	0.002	0.049	0.0059	0.0010	0.0000	0.052	0.022	0.047	8.31	0.38	0.22
	B035280	0.150	1.346	0.002	0.012	0.193	0.021	0.006	0.008	0.017	0.005	0.027	0.001	0.040	0.0069	0.0010	0.0000	0.049	0.014	0.036	5.80	0.38	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011. CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- Test Certificate confirms to EN 10204 : 2004 Type 3.1
- Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- Supply Condition : Normalized rolled
- Mechanical Properties are certified at Room Temperature unless specified.
- Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- Surface condition as per EN10163-2 Class B,Subclass-3,
- Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test, Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<t≤63=335, 63<t≤80=325, CE== 0.47 for t>30 mm

(Quality Assurance & Control Dept)



STEEL LINES
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717438067
DATE : 25.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			(MPa)	(MPa)	5.65Va			NA	NA	NA	NA										
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LP0595A1	E983636	33.60	2980	14051	11.044	394	533	29	---	422	551	26	---	---	315	302	283	300	---	---	---	---	---	---	---	---	---	---					
2	24LP0598A1	F983646	33.60	2980	14051	11.044	408	539	28	---	432	547	30	---	---	351	351	403	368	---	---	---	---	---	---	---	---	---	---					
3	24LP0599A1	A034698	28.30	2980	14051	9.302	435	546	31	---	432	555	29	---	---	277	307	315	300	---	---	---	---	---	---	---	---	---	---					
4	24LP0859A1	B035280	15.20	2980	12486	4.440	418	552	28	---	419	547	29	---	OK	169	183	174	175	---	---	---	---	---	---	---	---	---	---					
5	24LP0904A1	A035055	17.00	2421	14048	4.539	431	551	32	---	446	578	28	---	OK	388	333	335	352	---	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
E983636	0.160	1.400	0.003	0.015	0.204	0.030	0.009	0.006	0.014	0.002	0.025	0.001	0.031	0.0042	0.0024	0.0004	0.041	0.015	0.046	7.38	0.40	0.24	
F983646	0.160	1.380	0.003	0.015	0.211	0.021	0.009	0.010	0.014	0.002	0.026	0.001	0.035	0.0045	0.0023	0.0003	0.042	0.019	0.041	7.78	0.40	0.24	
A034698	0.155	1.350	0.001	0.012	0.224	0.026	0.008	0.006	0.022	0.004	0.026	0.002	0.049	0.0050	0.0010	0.0000	0.052	0.014	0.042	9.80	0.39	0.23	
B035280	0.153	1.360	0.002	0.012	0.197	0.021	0.006	0.008	0.017	0.005	0.028	0.001	0.041	0.0070	0.0010	0.0000	0.050	0.014	0.036	5.86	0.39	0.23	
A035055	0.158	1.350	0.004	0.016	0.195	0.023	0.009	0.009	0.018	0.002	0.029	0.001	0.050	0.0040	0.0010	0.0000	0.049	0.018	0.042	12.50	0.39	0.23	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
E983636	0.158	1.386	0.003	0.015	0.202	0.030	0.009	0.006	0.014	0.002	0.025	0.001	0.031	0.0042	0.0024	0.0004	0.041	0.015	0.046	7.38	0.40	0.24	
F983646	0.158	1.366	0.003	0.015	0.209	0.021	0.009	0.010	0.014	0.002	0.026	0.001	0.035	0.0045	0.0023	0.0003	0.042	0.019	0.041	7.78	0.39	0.24	
A034698	0.152	1.337	0.001	0.012	0.220	0.026	0.008	0.006	0.022	0.004	0.026	0.002	0.048	0.0049	0.0010	0.0000	0.052	0.014	0.042	9.80	0.38	0.23	
B035280	0.150	1.346	0.002	0.012	0.193	0.021	0.006	0.008	0.017	0.005	0.027	0.001	0.040	0.0069	0.0010	0.0000	0.049	0.014	0.036	5.80	0.38	0.23	
A035055	0.155	1.337	0.004	0.016	0.191	0.023	0.009	0.009	0.018	0.002	0.028	0.001	0.049	0.0039	0.0010	0.0000	0.048	0.018	0.042	12.56	0.38	0.23	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335,63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY





Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS-2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717433875
DATE : 25.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal							1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		(MPa)	(MPa)	(MPa)	(MPa)		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---					
1	24LP0360A1	A035366	33.00	2980	14051	10.847	443	569	27	---	422	549	28	---	---	235	259	242	245	---	---	---	---	---	---	---	---	---						
2	24LP0365A1	B035370	33.00	2980	14051	10.847	430	535	27	---	422	531	28	---	---	281	266	243	263	---	---	---	---	---	---	---	---	---						
3	24LP0380A1	B035084	33.00	2980	14051	10.847	453	550	28	---	427	549	29	---	---	357	333	365	352	---	---	---	---	---	---	---	---	---						
4	24LP0786B1	B034676	12.80	2981	11539	3.456	421	556	27	---	426	553	26	---	OK	305	299	287	297	---	---	---	---	---	---	---	---	---						
5	24LP0860B1	A036345	15.20	2980	13061	4.644	409	559	25	---	434	550	26	---	OK	48	71	69	63	---	---	---	---	---	---	---	---	---						

Chemical Composition (%)																							
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
A035366	0.143	1.420	0.003	0.016	0.243	0.018	0.007	0.010	0.024	0.002	0.033	0.001	0.046	0.0050	0.0010	0.0000	0.059	0.017	0.036	9.20	0.39	0.22	
B035370	0.135	1.430	0.003	0.015	0.208	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.055	0.0050	0.0020	0.0000	0.063	0.022	0.045	11.00	0.38	0.22	
B035084	0.163	1.350	0.003	0.015	0.220	0.031	0.013	0.013	0.018	0.002	0.027	0.002	0.048	0.0050	0.0010	0.0000	0.047	0.026	0.059	9.60	0.40	0.24	
B034676	0.164	1.370	0.004	0.017	0.192	0.025	0.009	0.009	0.020	0.004	0.027	0.002	0.046	0.0060	0.0010	0.0000	0.051	0.018	0.045	7.67	0.40	0.24	
A036345	0.155	1.370	0.003	0.012	0.202	0.012	0.007	0.011	0.018	0.005	0.025	0.001	0.037	0.0050	0.0010	0.0000	0.048	0.018	0.031	7.40	0.39	0.23	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
A035366	0.141	1.406	0.003	0.016	0.240	0.018	0.007	0.010	0.024	0.002	0.033	0.001	0.045	0.0049	0.0010	0.0000	0.059	0.017	0.036	9.18	0.38	0.22	
B035370	0.134	1.416	0.003	0.015	0.206	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.054	0.0049	0.0020	0.0000	0.063	0.022	0.045	11.02	0.38	0.21	
B035084	0.160	1.337	0.003	0.015	0.216	0.030	0.013	0.013	0.018	0.002	0.027	0.002	0.047	0.0049	0.0010	0.0000	0.047	0.026	0.058	9.59	0.39	0.24	
B034676	0.161	1.356	0.004	0.017	0.189	0.025	0.009	0.009	0.020	0.004	0.027	0.002	0.045	0.0059	0.0010	0.0001	0.051	0.018	0.045	7.63	0.39	0.24	
A036345	0.159	1.377	0.003	0.012	0.207	0.012	0.007	0.011	0.018	0.005	0.026	0.001	0.038	0.0051	0.0010	0.0001	0.049	0.018	0.031	7.45	0.39	0.24	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLEASE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- Test Certificate confirms to EN 10204 : 2004 Type 3.1
- Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- Supply Condition : Normalized rolled
- Mechanical Properties are certified at Room Temperature unless specified.
- Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- Surface condition as per EN10163-2 Class B,Subclass-3,
- Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test, Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<≤63=335,63<≤80=325, CE== 0.47 for t>30 mm

(Quality Assurance & Control Dept)
AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717422487
DATE : 25.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)	Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test				NDTT	Remarks								
							1				2					Longitudinal				1	2	3	Avg	1	2	3	Avg								
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA	1	2	3	Avg	1	2	3	Avg								
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			(MPa)	(MPa)	5.65Va		1	2	3	Avg	1	2	3	Avg								
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP0368A1	A034418	32.50	2980	14051	10.683	393	522	31	---	402	525	28	---	---	136	152	148	145	---	---	---	---	---	---	---	---	---							
2	24LP0592A1	B035065	33.00	2980	14051	10.847	422	549	25	---	407	551	26	---	---	217	220	168	202	---	---	---	---	---	---	---	---	---							
3	24LP0603A1	B035285	27.00	2980	14051	8.875	437	551	30	---	431	547	31	---	---	360	374	385	373	---	---	---	---	---	---	---	---	---							
4	24LP0419B1	A034420	17.50	2980	14051	5.752	429	522	30	---	394	508	31	---	OK	417	386	406	403	---	---	---	---	---	---	---	---	---							
5	24LP0657A2	A034650	12.80	2981	11539	3.456	420	569	27	---	416	547	22	---	OK	70	66	62	66	---	---	---	---	---	---	---	---	---							

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
A034418	0.140	1.370	0.002	0.013	0.197	0.013	0.006	0.008	0.020	0.004	0.026	0.001	0.048	0.0050	0.0010	0.0000	0.050	0.014	0.028	9.60	0.37	0.22	
B035065	0.150	1.370	0.004	0.018	0.189	0.029	0.014	0.009	0.022	0.002	0.028	0.006	0.050	0.0060	0.0010	0.0000	0.052	0.023	0.058	8.33	0.39	0.23	
B035285	0.154	1.370	0.002	0.012	0.209	0.022	0.011	0.011	0.016	0.004	0.026	0.003	0.046	0.0060	0.0010	0.0000	0.046	0.022	0.047	7.67	0.39	0.23	
A034420	0.130	1.360	0.002	0.014	0.192	0.013	0.005	0.009	0.020	0.004	0.026	0.001	0.044	0.0060	0.0010	0.0000	0.050	0.014	0.028	7.33	0.36	0.21	
A034650	0.156	1.430	0.001	0.015	0.216	0.026	0.009	0.015	0.022	0.005	0.030	0.001	0.045	0.0050	0.0010	0.0000	0.057	0.024	0.051	9.00	0.40	0.24	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
A034418	0.137	1.358	0.002	0.013	0.193	0.013	0.006	0.008	0.020	0.004	0.026	0.001	0.047	0.0049	0.0010	0.0002	0.050	0.014	0.028	9.59	0.37	0.21	
B035065	0.147	1.358	0.004	0.018	0.186	0.028	0.014	0.009	0.022	0.002	0.027	0.006	0.049	0.0059	0.0010	0.0001	0.051	0.023	0.057	8.31	0.38	0.22	
B035285	0.157	1.377	0.002	0.012	0.213	0.022	0.011	0.011	0.016	0.004	0.027	0.003	0.047	0.0061	0.0010	0.0001	0.047	0.022	0.047	7.70	0.39	0.24	
A034420	0.129	1.346	0.002	0.014	0.190	0.013	0.005	0.009	0.020	0.004	0.026	0.001	0.044	0.0059	0.0010	0.0000	0.050	0.014	0.028	7.46	0.36	0.20	
A034650	0.160	1.437	0.001	0.015	0.221	0.027	0.009	0.015	0.023	0.005	0.031	0.001	0.046	0.0051	0.0010	0.0001	0.059	0.024	0.052	9.02	0.41	0.24	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<t≤63=335,63<t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY





Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/7717450184
DATE : 26.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2					Longitudinal						1	2	3	Avg									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	---	---	27	---	---	---	---	---	---	---	---							
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---						
1	24LP1334A1	D985173	20.20	2980	14051	6.640	418	568	28	---	427	572	26	---	OK	162	184	171	172	---	---	---	---	---	---	---	---						
2	24LP1334B1	D985173	20.20	2980	14051	6.640	418	568	28	---	427	572	26	---	OK	162	184	171	172	---	---	---	---	---	---	---	---						
3	24LP0348B1	E985286	20.90	2980	14051	6.870	401	555	26	---	409	560	25	---	OK	138	191	182	170	---	---	---	---	---	---	---	---						
4	24LP0350A1	E985282	20.90	2980	14051	6.870	428	560	28	---	425	557	29	---	OK	270	260	266	265	---	---	---	---	---	---	---	---						
5	24LP0350B1	E985282	20.90	2980	14051	6.870	428	560	28	---	425	557	29	---	OK	270	260	266	265	---	---	---	---	---	---	---	---						
6	24LP0351B1	E985282	20.90	2980	14051	6.870	428	560	28	---	425	557	29	---	OK	270	260	266	265	---	---	---	---	---	---	---	---						

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	D985173	0.188	1.380	0.003	0.015	0.179	0.027	0.007	0.006	0.012	0.002	0.027	0.001	0.031	0.0042	0.0024	0.0004	0.041	0.013	0.041	7.38	0.42	0.27
	D985173	0.188	1.380	0.003	0.015	0.179	0.027	0.007	0.006	0.012	0.002	0.027	0.001	0.031	0.0042	0.0024	0.0004	0.041	0.013	0.041	7.38	0.42	0.27
	E985286	0.186	1.400	0.003	0.015	0.178	0.016	0.008	0.007	0.016	0.002	0.027	0.001	0.033	0.0052	0.0018	0.0003	0.045	0.015	0.032	6.35	0.42	0.26
	E985282	0.189	1.390	0.003	0.012	0.182	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.036	0.0040	0.0025	0.0002	0.043	0.017	0.037	9.00	0.43	0.27
	E985282	0.189	1.390	0.003	0.012	0.182	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.036	0.0040	0.0025	0.0002	0.043	0.017	0.037	9.00	0.43	0.27

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	D985173	0.185	1.368	0.003	0.015	0.176	0.027	0.007	0.006	0.012	0.002	0.027	0.001	0.030	0.0041	0.0024	0.0004	0.041	0.013	0.041	7.32	0.42	0.26
	D985173	0.185	1.368	0.003	0.015	0.176	0.027	0.007	0.006	0.012	0.002	0.027	0.001	0.030	0.0041	0.0024	0.0004	0.041	0.013	0.041	7.32	0.42	0.26
	E985286	0.183	1.386	0.003	0.015	0.175	0.016	0.008	0.007	0.016	0.002	0.027	0.001	0.032	0.0051	0.0018	0.0003	0.045	0.015	0.032	6.27	0.42	0.26
	E985282	0.186	1.377	0.003	0.012	0.179	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.035	0.0039	0.0025	0.0002	0.043	0.017	0.037	8.97	0.42	0.26
	E985282	0.186	1.377	0.003	0.012	0.179	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.035	0.0039	0.0025	0.0002	0.043	0.017	0.037	8.97	0.42	0.26

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAES REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717449710
DATE : 26.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	NA	NA	NA	NA		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LP1452A1	B036313	21.50	2980	14151	7.117	403	534	29	---	400	543	23	---	OK	388	413	364	388	---	---	---	---	---	---	---	---	---	---					
2	24LP1453A1	B036313	22.00	2980	14051	7.231	403	534	29	---	400	543	23	---	OK	388	413	364	388	---	---	---	---	---	---	---	---	---	---					
3	24LP1481A1	B036309	22.00	2980	14051	7.231	457	560	29	---	457	571	28	---	OK	222	221	303	249	---	---	---	---	---	---	---	---	---	---					
4	24LP0945A1	B036326	24.50	2980	14151	8.110	422	537	28	---	412	552	28	---	OK	419	389	373	394	---	---	---	---	---	---	---	---	---	---					
5	24LP0370A1	B034423	32.50	2980	14051	10.683	420	535	31	---	441	541	31	---	---	378	394	372	381	---	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B036313	0.157	1.370	0.001	0.015	0.204	0.019	0.008	0.012	0.021	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.020	0.040	10.00	0.39	0.23
	B036313	0.157	1.370	0.001	0.015	0.204	0.019	0.008	0.012	0.021	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.020	0.040	10.00	0.39	0.23
	B036309	0.168	1.360	0.001	0.018	0.214	0.028	0.007	0.010	0.020	0.005	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.052	0.017	0.046	8.33	0.40	0.25
	B036326	0.155	1.370	0.002	0.012	0.188	0.020	0.008	0.011	0.019	0.005	0.026	0.001	0.047	0.0050	0.0010	0.0000	0.050	0.019	0.040	9.40	0.39	0.23
	B034423	0.135	1.370	0.003	0.015	0.192	0.020	0.007	0.011	0.020	0.005	0.026	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.018	0.039	9.00	0.37	0.21

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	B036313	0.160	1.377	0.001	0.015	0.208	0.019	0.008	0.012	0.021	0.005	0.027	0.001	0.051	0.0051	0.0010	0.0001	0.053	0.020	0.040	10.00	0.40	0.24
	B036313	0.160	1.377	0.001	0.015	0.208	0.019	0.008	0.012	0.021	0.005	0.027	0.001	0.051	0.0051	0.0010	0.0001	0.053	0.020	0.040	10.00	0.40	0.24
	B036309	0.166	1.346	0.001	0.018	0.212	0.028	0.007	0.010	0.020	0.005	0.027	0.001	0.049	0.0059	0.0010	0.0000	0.052	0.017	0.046	8.31	0.40	0.24
	B036326	0.158	1.377	0.002	0.012	0.192	0.020	0.008	0.011	0.019	0.005	0.027	0.001	0.048	0.0051	0.0010	0.0002	0.051	0.019	0.040	9.41	0.39	0.24
	B034423	0.138	1.377	0.003	0.015	0.196	0.020	0.007	0.011	0.020	0.005	0.027	0.001	0.046	0.0051	0.0010	0.0001	0.052	0.018	0.039	9.02	0.37	0.22

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

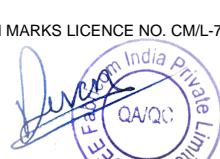
PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717449453
DATE : 26.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	25-T, >25-	---	27	---	---	---	---	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-		---	27	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	NA		---	---	---	---	---	---	---	---	---	---					
1	24LP0785A1	B035093	12.80	2981	11539	3.456	420	546	27	---	392	515	31	---	OK	376	354	398	376	---	---	---	---	---	---	---	---					
2	24LP0792A1	A035055	15.20	2982	12250	4.359	438	542	30	---	446	578	28	---	OK	194	162	188	181	---	---	---	---	---	---	---	---	---				
3	24LP1520A1	A036660	21.50	2980	14151	7.117	424	530	26	---	429	532	25	---	OK	236	219	224	226	---	---	---	---	---	---	---	---	---				
4	24LP1522A1	A036584	21.50	2980	14151	7.117	423	547	26	---	415	536	27	---	OK	278	259	281	273	---	---	---	---	---	---	---	---	---				
5	24LP2040A1	A032856	24.50	2980	14151	8.110	477	578	27	---	468	566	24	---	OK	385	396	399	393	---	---	---	---	---	---	---	---	---				
6	24LP0369A1	A034420	32.50	2980	14051	10.683	429	522	30	---	394	508	31	---	---	417	386	406	403	---	---	---	---	---	---	---	---	---				

Chemical Composition (%)																							
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035093	0.150	1.352	0.004	0.016	0.180	0.023	0.012	0.010	0.022	0.003	0.027	0.002	0.050	0.0060	0.0010	0.0000	0.052	0.022	0.047	8.33	0.38	0.23
	A035055	0.158	1.350	0.004	0.016	0.195	0.023	0.009	0.009	0.018	0.002	0.029	0.001	0.050	0.0040	0.0010	0.0000	0.049	0.018	0.042	12.50	0.39	0.23
	A036660	0.155	1.360	0.001	0.016	0.197	0.019	0.008	0.013	0.020	0.005	0.027	0.001	0.048	0.0060	0.0010	0.0000	0.052	0.021	0.041	8.00	0.39	0.23
	A036584	0.166	1.360	0.003	0.018	0.207	0.018	0.006	0.010	0.018	0.005	0.029	0.001	0.039	0.0060	0.0010	0.0000	0.052	0.016	0.035	6.50	0.40	0.24
	A032856	0.136	1.550	0.004	0.015	0.141	0.136	0.008	0.009	0.029	0.000	0.042	0.000	0.035	0.0060	0.0020	0.0000	0.071	0.017	0.152	5.83	0.42	0.23
	A034420	0.130	1.360	0.002	0.014	0.192	0.013	0.005	0.009	0.020	0.004	0.026	0.001	0.044	0.0060	0.0010	0.0000	0.050	0.014	0.028	7.33	0.36	0.21

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	B035093	0.147	1.338	0.004	0.016	0.177	0.023	0.012	0.010	0.022	0.003	0.027	0.002	0.049	0.0059	0.0010	0.0000	0.052	0.022	0.047	8.31	0.38	0.22
	A035055	0.155	1.337	0.004	0.016	0.191	0.023	0.009	0.009	0.018	0.002	0.028	0.001	0.049	0.0039	0.0010	0.0000	0.048	0.018	0.042	12.56	0.38	0.23
	A036660	0.152	1.346	0.001	0.016	0.193	0.019	0.008	0.013	0.020	0.005	0.027	0.001	0.047	0.0059	0.0010	0.0002	0.052	0.021	0.041	7.97	0.38	0.23
	A036584	0.164	1.346	0.003	0.018	0.205	0.018	0.006	0.010	0.018	0.005	0.029	0.001	0.039	0.0059	0.0010	0.0000	0.052	0.016	0.035	6.61	0.39	0.24
	A032856	0.135	1.535	0.004	0.015	0.139	0.135	0.008	0.009	0.029	0.000	0.042	0.000	0.035	0.0059	0.0020	0.0000	0.071	0.017	0.152	5.93	0.42	0.22
	A034420	0.129	1.346	0.002	0.014	0.190	0.013	0.005	0.009	0.020	0.004	0.026	0.001	0.044	0.0059	0.0010	0.0000	0.050	0.014	0.028	7.46	0.36	0.20

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011. CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO. PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
Note :
1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
3) Supply Condition : Normalized rolled
4) Mechanical Properties are certified at Room Temperature unless specified.
5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
7) Surface condition as per EN10163-2 Class B,Subclass-3,
8) Weight calculation for plates is as per Theoretical Calculation
Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<t≤63=335,63<t≤80=325, CE**= 0.47 for t>30 mm



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717448855
DATE : 26.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	NA	NA	NA	NA		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LP0792A2	A035055	15.20	2982	12250	4.359	438	542	30	---	446	578	28	---	OK	194	162	188	181	---	---	---	---	---	---	---	---	---	---					
2	24LP1521A1	A036660	21.50	2980	14151	7.117	424	530	26	---	429	532	25	---	OK	236	219	224	226	---	---	---	---	---	---	---	---	---	---					
3	24LP1514A1	A036660	24.90	2980	14051	8.185	424	530	26	---	429	532	25	---	OK	236	219	224	226	---	---	---	---	---	---	---	---	---	---					
4	24LP0719A1	A035072	28.30	2980	14051	9.302	421	555	29	---	425	550	29	---	---	292	320	267	293	---	---	---	---	---	---	---	---	---	---					
5	24LP0361A1	A035366	33.00	2980	14051	10.847	443	569	27	---	422	549	28	---	---	235	259	242	245	---	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	A035055	0.158	1.350	0.004	0.016	0.195	0.023	0.009	0.009	0.018	0.002	0.029	0.001	0.050	0.0040	0.0010	0.0000	0.049	0.018	0.042	12.50	0.39	0.23
	A036660	0.155	1.360	0.001	0.016	0.197	0.019	0.008	0.013	0.020	0.005	0.027	0.001	0.048	0.0060	0.0010	0.0000	0.052	0.021	0.041	8.00	0.39	0.23
	A036660	0.155	1.360	0.001	0.016	0.197	0.019	0.008	0.013	0.020	0.005	0.027	0.001	0.048	0.0060	0.0010	0.0000	0.052	0.021	0.041	8.00	0.39	0.23
	A035072	0.162	1.360	0.003	0.018	0.196	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.020	0.045	9.00	0.40	0.24
	A035366	0.143	1.420	0.003	0.016	0.243	0.018	0.007	0.010	0.024	0.002	0.033	0.001	0.046	0.0050	0.0010	0.0000	0.059	0.017	0.036	9.20	0.39	0.22

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	A035055	0.155	1.337	0.004	0.016	0.191	0.023	0.009	0.009	0.018	0.002	0.028	0.001	0.049	0.0039	0.0010	0.0000	0.048	0.018	0.042	12.56	0.38	0.23
	A036660	0.152	1.346	0.001	0.016	0.193	0.019	0.008	0.013	0.020	0.005	0.027	0.001	0.047	0.0059	0.0010	0.0002	0.052	0.021	0.041	7.97	0.38	0.23
	A036660	0.152	1.346	0.001	0.016	0.193	0.019	0.008	0.013	0.020	0.005	0.027	0.001	0.047	0.0059	0.0010	0.0002	0.052	0.021	0.041	7.97	0.38	0.23
	A035072	0.159	1.348	0.003	0.018	0.192	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.044	0.0049	0.0010	0.0002	0.051	0.020	0.045	8.98	0.39	0.24
	A035366	0.141	1.406	0.003	0.016	0.240	0.018	0.007	0.010	0.024	0.002	0.033	0.001	0.045	0.0049	0.0010	0.0000	0.059	0.017	0.036	9.18	0.38	0.22

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717459149
DATE : 27.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2			Longitudinal				1					1													
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1	2	3	Avg											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va			1	2	3	Avg		1	2	3	Avg											
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP0414A1	A035304	17.70	2980	14051	5.818	420	545	28	---	436	552	28	---	OK	339	345	314	333	---	---	---	---	---	---	---	---	---							
2	24LP0414B1	A035304	17.70	2980	14051	5.818	420	545	28	---	436	552	28	---	OK	339	345	314	333	---	---	---	---	---	---	---	---	---							
3	24LP0415A1	A035308	17.70	2980	14051	5.818	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---	---							
4	24LP0415B1	A035308	17.70	2980	14051	5.818	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---	---							
5	24LP0416A1	A035310	17.70	2980	14051	5.818	396	553	28	---	416	565	26	---	OK	258	313	338	303	---	---	---	---	---	---	---	---	---							
6	24LP0416B1	A035310	17.70	2980	14051	5.818	396	553	28	---	416	565	26	---	OK	258	313	338	303	---	---	---	---	---	---	---	---	---							
7	24LP0418B1	B034423	17.50	2980	14051	5.752	420	535	31	---	441	541	31	---	OK	378	394	372	381	---	---	---	---	---	---	---	---	---							
Chemical Composition (%)																																			
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm										
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---							
A035304			0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23											
A035304			0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23											
A035308			0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23											
A035308			0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23											
A035310			0.160	1.350	0.002	0.015	0.204	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.049	0.0050	0.0010	0.0000	0.046	0.017	0.034	9.80	0.39	0.24											
A035310			0.160	1.350	0.002	0.015	0.204	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.049	0.0050	0.0010	0.0000	0.046	0.017	0.034	9.80	0.39	0.24											
B034423			0.135	1.370	0.003	0.015	0.192	0.020	0.007	0.011	0.020	0.005	0.026	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.018	0.039	9.00	0.37	0.21											
PRODUCT ANALYSIS																																			
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---						
A035304			0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23											
A035304			0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23											
A035308			0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23											
A035308			0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23											
A035310			0.157	1.337	0.002	0.015	0.200	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.048	0.0049	0.0010	0.0000	0.046	0.017	0.034	9.80	0.38	0.23											
A035310			0.157	1.337	0.002	0.015	0.200	0.016	0.007	0.010	0.019	0.002	0.025	0.001	0.048	0.0049	0.0010	0.0000	0.046	0.017	0.034	9.80	0.38	0.23											
B034423			0.138	1.377	0.003	0.015	0.196	0.020	0.007	0.011	0.020	0.005	0.027	0.001	0.046	0.0051	0.0010	0.0001	0.052	0.018	0.039	9.02	0.37	0.22											

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm

(Quality Assurance & Control Dept)
DEEPCO INDIA PRIVATE LIMITED
STEEL LIMITED
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717456026
DATE : 27.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2					Longitudinal						1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	(MPa)	(MPa)		1	2	3	Avg											
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25-		---	27	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---						
1	24LP0384A1	B035276	32.50	2980	14051	10.683	399	554	27	---	405	572	26	---	---	236	241	259	245	---	---	---	---	---	---	---	---	---						
2	24LP0406A1	A035304	18.40	2980	14151	6.091	420	545	28	---	436	552	28	---	OK	339	345	314	333	---	---	---	---	---	---	---	---	---						
3	24LP0406B1	A035304	18.40	2980	14151	6.091	420	545	28	---	436	552	28	---	OK	339	345	314	333	---	---	---	---	---	---	---	---	---						
4	24LP0409A1	B035294	18.40	2980	14151	6.091	420	560	26	---	426	553	27	---	OK	163	144	102	136	---	---	---	---	---	---	---	---	---						
5	24LP0409B1	B035294	18.40	2980	14151	6.091	420	560	26	---	426	553	27	---	OK	163	144	102	136	---	---	---	---	---	---	---	---	---						
6	24LP0413A1	A035308	17.70	2980	14051	5.818	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---	---						

Chemical Composition (%)																							
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035276	0.155	1.410	0.002	0.017	0.230	0.019	0.008	0.016	0.019	0.005	0.025	0.001	0.049	0.0060	0.0010	0.0000	0.049	0.024	0.044	8.17	0.40	0.24
	A035304	0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23
	A035304	0.153	1.360	0.003	0.016	0.208	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.050	0.0060	0.0020	0.0000	0.050	0.019	0.043	8.33	0.39	0.23
	B035294	0.168	1.370	0.003	0.016	0.187	0.018	0.007	0.011	0.021	0.004	0.028	0.001	0.045	0.0060	0.0010	0.0000	0.053	0.018	0.037	7.50	0.40	0.24
	B035294	0.168	1.370	0.003	0.016	0.187	0.018	0.007	0.011	0.021	0.004	0.028	0.001	0.045	0.0060	0.0010	0.0000	0.053	0.018	0.037	7.50	0.40	0.24
	A035308	0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035276	0.152	1.397	0.002	0.017	0.226	0.019	0.008	0.016	0.019	0.005	0.025	0.001	0.048	0.0059	0.0010	0.0001	0.049	0.024	0.044	8.14	0.39	0.23
	A035304	0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23
	A035304	0.150	1.348	0.003	0.016	0.204	0.023	0.007	0.012	0.018	0.005	0.027	0.001	0.049	0.0059	0.0020	0.0001	0.050	0.019	0.043	8.31	0.38	0.23
	B035294	0.165	1.356	0.003	0.016	0.184	0.018	0.007	0.011	0.021	0.004	0.027	0.001	0.044	0.0059	0.0010	0.0000	0.052	0.018	0.037	7.46	0.40	0.24
	B035294	0.165	1.356	0.003	0.016	0.184	0.018	0.007	0.011	0.021	0.004	0.027	0.001	0.044	0.0059	0.0010	0.0000	0.052	0.018	0.037	7.46	0.40	0.24
	A035308	0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011. CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO. PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.	Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm	(Quality Assurance & Control Dept)
Printed on: : 27.12.2024		AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717455215
DATE : 27.12.2024

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3										
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0										
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks		
							1		2		%RA	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	Longitudinal						
							Min	355	490	22		355	490	22	---	355	490	22	---	S25-T, >25-	1	2	3	Avg			
Specified Requirement							Min	355	490	22	---	355	490	22	---	355	490	22	---	NA	---	---	---	---	---	---	---
1	24LP0407A1	B035292	18.40	2980	14151	6.091	424	541	29	---	425	559	23	---	OK	367	419	278	355	---	---	---	---	---	---	---	---
2	24LP0407B1	B035292	18.40	2980	14151	6.091	424	541	29	---	425	559	23	---	OK	367	419	278	355	---	---	---	---	---	---	---	---
3	24LP0408A1	B035295	18.40	2980	14151	6.091	429	574	29	---	408	556	27	---	OK	47	42	62	50	---	---	---	---	---	---	---	---
4	24LP0408B1	B035295	18.40	2980	14151	6.091	429	574	29	---	408	556	27	---	OK	47	42	62	50	---	---	---	---	---	---	---	---
5	24LP0417B1	A035308	17.70	2980	14051	5.818	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---
6	24LP0420B1	A034418	17.50	2980	14051	5.752	393	522	31	---	402	525	28	---	OK	136	152	148	145	---	---	---	---	---	---	---	---
7	24LP0489A1	A035207	15.20	2982	12250	4.359	469	575	26	---	425	559	29	---	OK	234	296	370	300	---	---	---	---	---	---	---	---
Chemical Composition (%)																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm	
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm			
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	
		Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	
B035292 0.154 1.370 0.003 0.018 0.197 0.019 0.007 0.010 0.017 0.004 0.026 0.001 0.044 0.0050 0.0010 0.0000 0.047 0.017 0.037 8.80 0.39 0.23																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm	
B035292 0.154 1.370 0.003 0.018 0.197 0.019 0.007 0.010 0.017 0.004 0.026 0.001 0.044 0.0050 0.0010 0.0000 0.047 0.017 0.037 8.80 0.39 0.23																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm	
B035295 0.152 1.410 0.003 0.017 0.192 0.015 0.007 0.011 0.021 0.004 0.026 0.000 0.049 0.0060 0.0010 0.0000 0.051 0.018 0.033 8.17 0.39 0.23																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm	
B035295 0.152 1.410 0.003 0.017 0.192 0.015 0.007 0.011 0.021 0.004 0.026 0.000 0.049 0.0060 0.0010 0.0000 0.051 0.018 0.033 8.17 0.39 0.23																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm	
A035308 0.158 1.360 0.004 0.010 0.184 0.016 0.007 0.010 0.016 0.004 0.028 0.001 0.049 0.0050 0.0010 0.0000 0.048 0.017 0.034 9.80 0.39 0.23																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm	
A034418 0.140 1.370 0.002 0.013 0.197 0.013 0.006 0.008 0.020 0.004 0.026 0.001 0.048 0.0050 0.0010 0.0000 0.050 0.014 0.028 9.60 0.37 0.22																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm	
A035207 0.165 1.371 0.003 0.015 0.188 0.022 0.007 0.008 0.019 0.004 0.027 0.001 0.044 0.0060 0.0010 0.0000 0.050 0.015 0.038 7.33 0.40 0.24																				Cr+Mo+Cu+Ni				AI/N	CE**	Pcm	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717449422- 1
DATE : 27.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks					
							1			2				Longitudinal						1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	S25-T, >25-	---	27	---		1	2	3	Avg								
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---		1	2	3	Avg								
						Max	---	630	---	---	---	630	---	---	NA	---	---	---		1	2	3	Avg								
1	24LP0411A2	B035394	18.00	2542	11539	4.145	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---	---					
2	24LP0421A1	A035274	17.00	2421	14048	4.539	402	556	27	---	423	551	26	---	OK	219	185	206	203	---	---	---	---	---	---	---					
3	24LP0421B1	A035274	17.00	2421	14048	4.539	402	556	27	---	423	551	26	---	OK	219	185	206	203	---	---	---	---	---	---	---					
4	24LP0422A1	A035270	17.00	2421	14048	4.539	429	553	27	---	433	556	31	---	OK	218	210	293	240	---	---	---	---	---	---	---					
5	24LP0422B1	A035270	17.00	2421	14048	4.539	429	553	27	---	433	556	31	---	OK	218	210	293	240	---	---	---	---	---	---	---					
6	24LP0423B1	A035070	16.30	2418	13860	4.288	425	563	26	---	416	559	27	---	OK	229	208	310	249	---	---	---	---	---	---	---					
7	24LP0424A1	A035070	16.30	2418	13860	4.288	425	563	26	---	416	559	27	---	OK	229	208	310	249	---	---	---	---	---	---	---					
8	24LP0424B1	A035070	16.30	2418	13860	4.288	425	563	26	---	416	559	27	---	OK	229	208	310	249	---	---	---	---	---	---	---					
Chemical Composition (%)																															
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm						
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---					
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---						
B035394			0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23							
A035274			0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23							
A035274			0.155	1.375	0.004	0.018	0.220	0.016	0.007	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.018	0.035	10.00	0.39	0.23							
A035270			0.170	1.355	0.002	0.018	0.204	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.017	0.039	10.00	0.40	0.25							
A035270			0.170	1.355	0.002	0.018	0.204	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.017	0.039	10.00	0.40	0.25							
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24							
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24							
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24							
PRODUCT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm						
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---						
B035394			0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23							
A035274			0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24							
A035274			0.158	1.382	0.004	0.018	0.225	0.016	0.007	0.011	0.022	0.002	0.028	0.001	0.051	0.0051	0.0010	0.0002	0.052	0.018	0.035	10.00	0.39	0.24							
A035270			0.167	1.343	0.002	0.018	0.200	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0002	0.051	0.017	0.039	10.00	0.40	0.24							
A035270			0.167	1.343	0.002	0.018	0.200	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0002	0.051	0.017	0.039	10.00	0.40	0.24							
A035070			0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24							
A035070			0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24							
A035070			0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24							

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm

(Quality Assurance & Control Dept)
DEEPMALA PRIVATE LIMITED
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717449422- 2
DATE : 27.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1				2					Longitudinal						1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1												
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			(MPa)	(MPa)	5.65Va			2												
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---				
9	24LP0695A1	B035052	17.00	2421	14048	4.539	431	539	30	---	446	548	29	---	OK	350	315	339	335	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm	
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---

B035052 0.158 1.350 0.004 0.016 0.195 0.028 0.043 0.015 0.016 0.002 0.026 0.001 0.050 0.0050 0.0010 0.0000 0.044 0.058 0.087 10.00 0.39 0.24

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---

B035052 0.156 1.335 0.004 0.016 0.192 0.028 0.042 0.015 0.016 0.002 0.026 0.001 0.049 0.0049 0.0010 0.0000 0.044 0.057 0.086 10.00 0.39 0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm



(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717465157
DATE : 29.12.2024

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3										
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0										
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks		
							1		2		%RA	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	Longitudinal						
							Min	355	490	22		5.65V _a	Max	630	---	355	490	22	---	NA	1	2	3	Avg			
Specified Requirement							Min	355	490	22	---	---	Max	630	---	---	---	---	S25-T, >25-	---	27	---	---	---	---	---	---
1	24LP0486A1	A034379	19.00	2980	14051	6.245	396	511	29	---	397	514	31	---	OK	194	228	221	214	---	---	---	---	---	---	---	---
2	24LP0486B1	A034379	19.00	2980	14051	6.245	396	511	29	---	397	514	31	---	OK	194	228	221	214	---	---	---	---	---	---	---	---
3	24LP0487A1	A035068	15.40	2982	13200	4.759	424	552	29	---	439	598	25	---	OK	186	127	166	160	---	---	---	---	---	---	---	---
4	24LP0487B1	A035068	15.40	2982	13200	4.759	424	552	29	---	439	598	25	---	OK	186	127	166	160	---	---	---	---	---	---	---	---
5	24LP0522B1	A034379	17.50	2980	14051	5.752	396	511	29	---	397	514	31	---	OK	194	228	221	214	---	---	---	---	---	---	---	---
6	24LP0527A1	A035270	15.20	2982	12725	4.528	417	558	28	---	423	559	27	---	OK	172	121	175	156	---	---	---	---	---	---	---	---
Chemical Composition (%)																				Chemical Composition (%)				Chemical Composition (%)			
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm			
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---		
A034379		0.147	1.360	0.004	0.011	0.182	0.016	0.005	0.009	0.017	0.004	0.026	0.001	0.042	0.0050	0.0020	0.0000	0.047	0.014	0.031	8.40	0.38	0.22				
A034379		0.147	1.360	0.004	0.011	0.182	0.016	0.005	0.009	0.017	0.004	0.026	0.001	0.042	0.0050	0.0020	0.0000	0.047	0.014	0.031	8.40	0.38	0.22				
A035068		0.162	1.360	0.003	0.017	0.180	0.022	0.010	0.007	0.020	0.002	0.025	0.003	0.047	0.0050	0.0010	0.0000	0.047	0.017	0.042	9.40	0.40	0.24				
A035068		0.162	1.360	0.003	0.017	0.180	0.022	0.010	0.007	0.020	0.002	0.025	0.003	0.047	0.0050	0.0010	0.0000	0.047	0.017	0.042	9.40	0.40	0.24				
A034379		0.147	1.360	0.004	0.011	0.182	0.016	0.005	0.009	0.017	0.004	0.026	0.001	0.042	0.0050	0.0020	0.0000	0.047	0.014	0.031	8.40	0.38	0.22				
A035270		0.170	1.355	0.002	0.018	0.204	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.017	0.039	10.00	0.40	0.25				
PRODUCT ANALYSIS																				Product Analysis				Product Analysis			
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	
		Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---		
A034379		0.150	1.367	0.004	0.011	0.186	0.016	0.005	0.009	0.017	0.004	0.027	0.001	0.043	0.0051	0.0020	0.0000	0.048	0.014	0.031	8.43	0.38	0.23				
A034379		0.150	1.367	0.004	0.011	0.186	0.016	0.005	0.009	0.017	0.004	0.027	0.001	0.043	0.0051	0.0020	0.0000	0.048	0.014	0.031	8.43	0.38	0.23				
A035068		0.159	1.348	0.003	0.017	0.177	0.022	0.010	0.007	0.020	0.002	0.025	0.003	0.046	0.0049	0.0010	0.0002	0.047	0.017	0.042	9.39	0.39	0.24				
A035068		0.159	1.348	0.003	0.017	0.177	0.022	0.010	0.007	0.020	0.002	0.025	0.003	0.046	0.0049	0.0010	0.0002	0.047	0.017	0.042	9.39	0.39	0.24				
A034379		0.150	1.367	0.004	0.011	0.186	0.016	0.005	0.009	0.017	0.004	0.027	0.001	0.043	0.0051	0.0020	0.0000	0.048	0.014	0.031	8.43	0.38	0.23				
A035270		0.167	1.343	0.002	0.018	0.200	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0002	0.051	0.017	0.039	10.00	0.40	0.24				

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CM/L- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717455275
DATE : 29.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal								1	2	3	Avg							
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			1	2	3	Avg		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---					
1	24LP0364A1	B035370	33.00	2980	14051	10.847	430	535	27	---	422	531	28	---	281	266	243	263	---	---	---	---	---	---	---	---	---	---						
2	24LP0371A1	B035291	32.50	2980	14051	10.683	417	546	24	---	418	557	24	---	224	228	209	220	---	---	---	---	---	---	---	---	---	---						
3	24LP0388A1	B035082	27.70	2980	14051	9.105	433	561	30	---	426	556	31	---	359	380	409	383	---	---	---	---	---	---	---	---	---	---						
4	24LP0392A1	B035082	27.70	2980	14051	9.105	433	561	30	---	426	556	31	---	359	380	409	383	---	---	---	---	---	---	---	---	---	---						

Chemical Composition (%)																							
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035370	0.135	1.430	0.003	0.015	0.208	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.055	0.0050	0.0020	0.0000	0.063	0.022	0.045	11.00	0.38	0.22
	B035291	0.159	1.360	0.003	0.014	0.191	0.018	0.008	0.012	0.017	0.004	0.028	0.001	0.047	0.0050	0.0010	0.0000	0.049	0.020	0.039	9.40	0.39	0.24
	B035082	0.162	1.350	0.003	0.016	0.194	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.043	0.0060	0.0010	0.0000	0.048	0.023	0.047	7.17	0.39	0.24
	B035082	0.162	1.350	0.003	0.016	0.194	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.043	0.0060	0.0010	0.0000	0.048	0.023	0.047	7.17	0.39	0.24

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
		B035370	0.134	1.416	0.003	0.015	0.206	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.054	0.0049	0.0020	0.0000	0.063	0.022	0.045	11.02	0.38
	B035291	0.155	1.372	0.002	0.013	0.200	0.016	0.007	0.013	0.015	0.005	0.029	0.002	0.045	0.0048	0.0012	0.0001	0.049	0.020	0.038	9.38	0.39	0.23
	B035082	0.159	1.337	0.003	0.016	0.191	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.042	0.0059	0.0010	0.0000	0.048	0.023	0.047	7.12	0.39	0.23
	B035082	0.159	1.337	0.003	0.016	0.191	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.042	0.0059	0.0010	0.0000	0.048	0.023	0.047	7.12	0.39	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
Note :
1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
3) Supply Condition : Normalized rolled
4) Mechanical Properties are certified at Room Temperature unless specified.
5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
7) Surface condition as per EN10163-2 Class B,Subclass-3,
8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717474188
DATE : 29.12.2024

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED						SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3												
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024						GRADE : S355J0+N / E350B0										Impact Temp.(°C) : 0												
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks			
							1		2		%RA	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	1	2	3	AVG				
							Min	355	490	22		355	490	22	---	355	490	22	---	NA	25-2T, >25-	---	27	---	---	---	---	---
Specified Requirement						Max	---	630	---	---	---	630	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1	24LP0172B1	F985256	20.20	2980	14051	6.640	421	564	26	---	414	549	27	---	OK	276	272	308	285	---	---	---	---	---	---	---	---	---
2	24LP0173A1	F985256	20.20	2980	14051	6.640	421	564	26	---	414	549	27	---	OK	276	272	308	285	---	---	---	---	---	---	---	---	---
3	24LP0180B1	B035380	15.60	2982	13436	4.907	411	547	26	---	420	547	30	---	OK	356	379	373	369	---	---	---	---	---	---	---	---	---
4	24LP0403A1	B035394	19.00	2980	14051	6.245	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---	---	---	---
5	24LP0404A1	B035394	19.00	2980	14051	6.245	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---	---	---	---
6	24LP0404B1	B035394	19.00	2980	14051	6.245	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---	---	---	---
7	24LP0440B1	B035095	13.10	2981	11539	3.537	441	559	26	---	432	569	26	---	OK	179	214	188	194	---	---	---	---	---	---	---	---	---
Chemical Composition (%)																												
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm					
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---		
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---		
F985256	0.186	1.380	0.003	0.014	0.181	0.024	0.009	0.007	0.016	0.001	0.025	0.001	0.036	0.0046	0.0019	0.0003	0.042	0.016	0.041	7.83	0.42	0.26						
F985256	0.186	1.380	0.003	0.014	0.181	0.024	0.009	0.007	0.016	0.001	0.025	0.001	0.036	0.0046	0.0019	0.0003	0.042	0.016	0.041	7.83	0.42	0.26						
B035380	0.151	1.390	0.003	0.013	0.200	0.018	0.008	0.010	0.019	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.048	0.018	0.037	10.00	0.39	0.23						
B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23						
B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23						
B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23						
B035095	0.162	1.380	0.003	0.017	0.208	0.023	0.009	0.009	0.018	0.002	0.025	0.001	0.050	0.0060	0.0010	0.0000	0.045	0.018	0.042	8.33	0.40	0.24						
PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm					
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---	
F985256	0.183	1.368	0.003	0.014	0.178	0.024	0.009	0.007	0.016	0.001	0.025	0.001	0.035	0.0045	0.0019	0.0003	0.042	0.016	0.041	7.78	0.42	0.26						
F985256	0.183	1.368	0.003	0.014	0.178	0.024	0.009	0.007	0.016	0.001	0.025	0.001	0.035	0.0045	0.0019	0.0003	0.042	0.016	0.041	7.78	0.42	0.26						
B035380	0.149	1.375	0.003	0.013	0.197	0.018	0.008	0.010	0.019	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0000	0.048	0.018	0.037	10.00	0.38	0.23						
B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23						
B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23						
B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23						
B035095	0.159	1.366	0.003	0.017	0.204	0.023	0.009	0.009	0.018	0.002	0.025	0.001	0.049	0.0059	0.0010	0.0000	0.045	0.018	0.042	8.31	0.39	0.24						

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717472719
DATE : 29.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2					Longitudinal						1	2	3	Avg									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	1	2	3	Avg		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---	---	---	---	---	---	---	---	---	---					
1	24LP0366A1	B035370	33.00	2980	14051	10.847	430	535	27	---	422	531	28	---	---	281	266	243	263	---	---	---	---	---	---	---	---	---					
2	24LP0522A1	A034379	17.50	2980	14051	5.752	396	511	29	---	397	514	31	---	OK	194	228	221	214	---	---	---	---	---	---	---	---	---					
3	24LP0543A1	B036311	21.50	2980	14151	7.117	409	536	24	---	426	552	28	---	OK	342	327	348	339	---	---	---	---	---	---	---	---	---					
4	24LP0685A1	A036351	24.50	2980	14051	8.053	413	548	24	---	423	548	27	---	OK	247	223	265	245	---	---	---	---	---	---	---	---	---					
5	24LP0693A1	A036588	24.50	2980	14151	8.110	434	537	31	---	428	531	32	---	OK	224	194	199	206	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035370	0.135	1.430	0.003	0.015	0.208	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.055	0.0050	0.0020	0.0000	0.063	0.022	0.045	11.00	0.38	0.22
	A034379	0.147	1.360	0.004	0.011	0.182	0.016	0.005	0.009	0.017	0.004	0.026	0.001	0.042	0.0050	0.0020	0.0000	0.047	0.014	0.031	8.40	0.38	0.22
	B036311	0.162	1.370	0.001	0.017	0.197	0.028	0.011	0.020	0.021	0.005	0.026	0.001	0.050	0.0060	0.0010	0.0000	0.052	0.031	0.060	8.33	0.40	0.24
	A036351	0.160	1.360	0.003	0.012	0.194	0.020	0.007	0.010	0.020	0.005	0.025	0.001	0.044	0.0050	0.0010	0.0000	0.050	0.017	0.038	8.80	0.39	0.24
	A036588	0.156	1.370	0.004	0.018	0.183	0.014	0.005	0.010	0.017	0.005	0.027	0.001	0.045	0.0070	0.0020	0.0000	0.049	0.015	0.030	6.43	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035370	0.134	1.416	0.003	0.015	0.206	0.022	0.011	0.011	0.026	0.003	0.034	0.001	0.054	0.0049	0.0020	0.0000	0.063	0.022	0.045	11.02	0.38	0.21
	A034379	0.150	1.367	0.004	0.011	0.186	0.016	0.005	0.009	0.017	0.004	0.027	0.001	0.043	0.0051	0.0020	0.0000	0.048	0.014	0.031	8.43	0.38	0.23
	B036311	0.159	1.358	0.001	0.017	0.193	0.027	0.011	0.020	0.021	0.005	0.026	0.001	0.049	0.0059	0.0010	0.0001	0.052	0.031	0.059	8.31	0.39	0.24
	A036351	0.157	1.348	0.003	0.012	0.191	0.020	0.007	0.010	0.020	0.005	0.025	0.001	0.043	0.0049	0.0010	0.0001	0.050	0.017	0.038	8.78	0.39	0.23
	A036588	0.159	1.377	0.004	0.018	0.187	0.014	0.005	0.010	0.017	0.005	0.028	0.001	0.046	0.0071	0.0020	0.0002	0.050	0.015	0.030	6.48	0.39	0.24

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

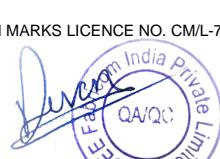
PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717470789
DATE : 29.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1													
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		2													
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	1	2	3	Avg	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
1	24LP0593A1	B035052	33.00	2980	14051	10.847	431	539	30	---	446	548	29	---	---	350	315	339	335	---	---	---	---	---	---	---	---	---						
2	24LP0923A1	A036646	25.60	2980	14051	8.415	425	550	29	---	416	542	30	---	---	224	216	200	213	---	---	---	---	---	---	---	---	---						
3	24LP0944A1	B036326	24.50	2980	14151	8.110	422	537	28	---	412	552	28	---	OK	419	389	373	394	---	---	---	---	---	---	---	---	---						
4	24LP0996A1	A036646	24.90	2980	14051	8.185	425	550	29	---	416	542	30	---	OK	224	216	200	213	---	---	---	---	---	---	---	---	---						
5	24LP1294B1	A035275	17.50	2980	14051	5.752	443	555	28	---	427	541	30	---	OK	271	318	295	295	---	---	---	---	---	---	---	---	---						

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035052	0.158	1.350	0.004	0.016	0.195	0.028	0.043	0.015	0.016	0.002	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.044	0.058	0.087	10.00	0.39	0.24
	A036646	0.164	1.370	0.001	0.015	0.195	0.028	0.007	0.014	0.018	0.005	0.025	0.001	0.050	0.0060	0.0010	0.0000	0.048	0.021	0.050	8.33	0.40	0.24
	B036326	0.155	1.370	0.002	0.012	0.188	0.020	0.008	0.011	0.019	0.005	0.026	0.001	0.047	0.0050	0.0010	0.0000	0.050	0.019	0.040	9.40	0.39	0.23
	A036646	0.164	1.370	0.001	0.015	0.195	0.028	0.007	0.014	0.018	0.005	0.025	0.001	0.050	0.0060	0.0010	0.0000	0.048	0.021	0.050	8.33	0.40	0.24
	A035275	0.161	1.365	0.002	0.018	0.204	0.015	0.007	0.011	0.021	0.004	0.026	0.001	0.048	0.0060	0.0020	0.0000	0.051	0.018	0.034	8.00	0.39	0.24

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	B035052	0.156	1.335	0.004	0.016	0.192	0.028	0.042	0.015	0.016	0.002	0.026	0.001	0.049	0.0049	0.0010	0.0000	0.044	0.057	0.086	10.00	0.39	0.23
	A036646	0.162	1.355	0.001	0.015	0.192	0.028	0.007	0.014	0.018	0.005	0.025	0.001	0.049	0.0059	0.0010	0.0000	0.048	0.021	0.050	8.31	0.40	0.24
	B036326	0.158	1.377	0.002	0.012	0.192	0.020	0.008	0.011	0.019	0.005	0.027	0.001	0.048	0.0051	0.0010	0.0002	0.051	0.019	0.040	9.41	0.39	0.24
	A036646	0.162	1.355	0.001	0.015	0.192	0.028	0.007	0.014	0.018	0.005	0.025	0.001	0.049	0.0059	0.0010	0.0000	0.048	0.021	0.050	8.31	0.40	0.24
	A035275	0.158	1.351	0.002	0.018	0.200	0.015	0.007	0.011	0.021	0.004	0.026	0.001	0.047	0.0059	0.0020	0.0000	0.051	0.018	0.034	7.97	0.39	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717470502
DATE : 29.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks									
							1				2					Longitudinal								1	2	3	Avg									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1	2	3	Avg												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		1	2	3	Avg		1	2	3	Avg												
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP0349A1	E985282	20.90	2980	14051	6.870	428	560	28	---	425	557	29	---	OK	270	260	266	265	---	---	---	---	---	---	---	---	---	---							
2	24LP0749A1	A036648	25.60	2980	14051	8.415	439	560	27	---	410	562	26	---	---	164	125	139	143	---	---	---	---	---	---	---	---	---	---							
3	24LP0750A1	A036648	25.60	2980	14051	8.415	439	560	27	---	410	562	26	---	---	164	125	139	143	---	---	---	---	---	---	---	---	---	---							
4	24LP0943A1	B036313	24.90	2980	14051	8.185	403	534	29	---	400	543	23	---	OK	388	413	364	388	---	---	---	---	---	---	---	---	---	---							
5	24LP0946A1	B036326	24.50	2980	14051	8.053	422	537	28	---	412	552	28	---	OK	419	389	373	394	---	---	---	---	---	---	---	---	---	---							

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	E985282	0.189	1.390	0.003	0.012	0.182	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.036	0.0040	0.0025	0.0002	0.043	0.017	0.037	9.00	0.43	0.27
	A036648	0.161	1.450	0.002	0.018	0.194	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.048	0.021	0.044	10.00	0.41	0.24
	A036648	0.161	1.450	0.002	0.018	0.194	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.048	0.021	0.044	10.00	0.41	0.24
	B036313	0.157	1.370	0.001	0.015	0.204	0.019	0.008	0.012	0.021	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.020	0.040	10.00	0.39	0.23
	B036326	0.155	1.370	0.002	0.012	0.188	0.020	0.008	0.011	0.019	0.005	0.026	0.001	0.047	0.0050	0.0010	0.0000	0.050	0.019	0.040	9.40	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	E985282	0.186	1.377	0.003	0.012	0.179	0.019	0.010	0.007	0.017	0.002	0.024	0.001	0.035	0.0039	0.0025	0.0002	0.043	0.017	0.037	8.97	0.42	0.26
	A036648	0.158	1.436	0.002	0.018	0.191	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.049	0.0049	0.0010	0.0001	0.048	0.021	0.044	10.00	0.40	0.24
	A036648	0.158	1.436	0.002	0.018	0.191	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.049	0.0049	0.0010	0.0001	0.048	0.021	0.044	10.00	0.40	0.24
	B036313	0.160	1.377	0.001	0.015	0.208	0.019	0.008	0.012	0.021	0.005	0.027	0.001	0.051	0.0051	0.0010	0.0001	0.053	0.020	0.040	10.00	0.40	0.24
	B036326	0.158	1.377	0.002	0.012	0.192	0.020	0.008	0.011	0.019	0.005	0.027	0.001	0.048	0.0051	0.0010	0.0002	0.051	0.019	0.040	9.41	0.39	0.24

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717467235
DATE : 29.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2					Longitudinal						1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1	2	3	Avg											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	---	---	27		---	---	---	---											
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---	---						
1	24LP0400A1	A035364	19.60	2980	14051	6.442	441	542	25	---	435	538	27	---	OK	340	348	359	349	---	---	---	---	---	---	---	---	---						
2	24LP0400B1	A035364	19.60	2980	14051	6.442	441	542	25	---	435	538	27	---	OK	340	348	359	349	---	---	---	---	---	---	---	---	---						
3	24LP0401A1	A035364	19.60	2980	14051	6.442	441	542	25	---	435	538	27	---	OK	340	348	359	349	---	---	---	---	---	---	---	---	---						
4	24LP0402A1	B035394	19.00	2980	14051	6.245	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---	---	---	---						
5	24LP0402B1	B035394	19.00	2980	14051	6.245	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---	---	---	---						
6	24LP1288A1	A036343	25.60	2980	14051	8.415	418	532	28	---	415	545	29	---	---	338	325	336	333	---	---	---	---	---	---	---	---	---						

Chemical Composition (%)																							
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
A035364	0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21	
A035364	0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21	
A035364	0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21	
B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23	
B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23	
A036343	0.159	1.380	0.003	0.013	0.196	0.014	0.006	0.010	0.020	0.005	0.026	0.001	0.046	0.0060	0.0010	0.0000	0.051	0.016	0.031	7.67	0.39	0.24	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
A035364	0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22	
A035364	0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22	
A035364	0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22	
B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23	
B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23	
A036343	0.156	1.368	0.003	0.013	0.192	0.014	0.006	0.010	0.020	0.005	0.026	0.001	0.045	0.0059	0.0010	0.0002	0.051	0.016	0.031	7.63	0.39	0.23	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011. CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO. PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
Note :
1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
3) Supply Condition : Normalized rolled
4) Mechanical Properties are certified at Room Temperature unless specified.
5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
7) Surface condition as per EN10163-2 Class B,Subclass-3,
8) Weight calculation for plates is as per Theoretical Calculation
Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717465844
DATE : 29.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	25-2T, >25-	---	27	---	---	---	---	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-2T, >25-		---	27	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	NA		---	---	---	---	---	---	---	---	---	---	---				
1	24LP0399A1	A035364	19.60	2980	14051	6.442	441	542	25	---	435	538	27	---	OK	340	348	359	349	---	---	---	---	---	---	---	---	---				
2	24LP0399B1	A035364	19.60	2980	14051	6.442	441	542	25	---	435	538	27	---	OK	340	348	359	349	---	---	---	---	---	---	---	---	---				
3	24LP0401B1	A035364	19.60	2980	14051	6.442	441	542	25	---	435	538	27	---	OK	340	348	359	349	---	---	---	---	---	---	---	---	---				
4	24LP0485A1	A034696	19.60	2980	14051	6.442	424	545	29	---	434	567	29	---	OK	252	230	219	234	---	---	---	---	---	---	---	---	---				
5	24LP0485B1	A034696	19.60	2980	14051	6.442	424	545	29	---	434	567	29	---	OK	252	230	219	234	---	---	---	---	---	---	---	---	---				
6	24LP1289A1	A036343	25.60	2980	14051	8.415	418	532	28	---	415	545	29	---	---	338	325	336	333	---	---	---	---	---	---	---	---	---				

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
A035364	0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21	
A035364	0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21	
A035364	0.134	1.420	0.002	0.015	0.196	0.023	0.008	0.011	0.024	0.003	0.032	0.001	0.045	0.0060	0.0020	0.0000	0.059	0.019	0.043	7.50	0.38	0.21	
A034696	0.155	1.360	0.001	0.013	0.203	0.029	0.010	0.008	0.021	0.004	0.027	0.003	0.043	0.0040	0.0010	0.0000	0.052	0.018	0.050	10.75	0.39	0.23	
A034696	0.155	1.360	0.001	0.013	0.203	0.029	0.010	0.008	0.021	0.004	0.027	0.003	0.043	0.0040	0.0010	0.0000	0.052	0.018	0.050	10.75	0.39	0.23	
A036343	0.159	1.380	0.003	0.013	0.196	0.014	0.006	0.010	0.020	0.005	0.026	0.001	0.046	0.0060	0.0010	0.0000	0.051	0.016	0.031	7.67	0.39	0.24	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
A035364	0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22	
A035364	0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22	
A035364	0.137	1.427	0.002	0.015	0.201	0.024	0.008	0.011	0.025	0.003	0.033	0.001	0.046	0.0061	0.0020	0.0002	0.061	0.019	0.044	7.54	0.38	0.22	
A034696	0.159	1.367	0.001	0.013	0.208	0.030	0.010	0.008	0.021	0.004	0.028	0.003	0.044	0.0041	0.0010	0.0001	0.053	0.018	0.051	10.73	0.40	0.24	
A034696	0.159	1.367	0.001	0.013	0.208	0.030	0.010	0.008	0.021	0.004	0.028	0.003	0.044	0.0041	0.0010	0.0001	0.053	0.018	0.051	10.73	0.40	0.24	
A036343	0.156	1.368	0.003	0.013	0.192	0.014	0.006	0.010	0.020	0.005	0.026	0.001	0.045	0.0059	0.0010	0.0002	0.051	0.016	0.031	7.63	0.39	0.23	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)
AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717433433
DATE : 29.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks									
							1				2					Longitudinal								1	2	3	Avg									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		1	2	3	Avg												
Specified Requirement							Min	355	490	22	---	355	490	22	---	\$25-T, >25-				---				27	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA				---				---	---	---	---	---	---	---						
1	24LP0373A1	B035298	34.80	2692	14151	10.407	418	560	25	---	406	543	26	---	---	104	102	71	92	---	---	---	---	---	---	---	---	---	---							
2	24LP0391A1	B035076	27.70	2980	14051	9.105	425	536	32	---	428	582	28	---	---	162	184	192	179	---	---	---	---	---	---	---	---	---	---	---						
3	24LP0523B1	A034689	14.40	2982	11539	3.890	459	566	27	---	460	568	29	---	OK	194	171	132	166	---	---	---	---	---	---	---	---	---	---	---						
4	24LP0604A1	B035285	27.00	2980	14051	8.875	437	551	30	---	431	547	31	---	---	360	374	385	373	---	---	---	---	---	---	---	---	---	---	---						

Chemical Composition (%)																													
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm						
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---		
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---	---		
	B035298	0.161	1.354	0.002	0.017	0.208	0.024	0.008	0.013	0.022	0.004	0.028	0.001	0.050	0.0070	0.0010	0.0000	0.054	0.021	0.046	7.14	0.39	0.24						
	B035076	0.165	1.360	0.003	0.015	0.196	0.020	0.010	0.011	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.021	0.042	10.00	0.40	0.24						
	A034689	0.163	1.360	0.001	0.012	0.215	0.022	0.007	0.009	0.022	0.004	0.026	0.001	0.040	0.0050	0.0010	0.0000	0.052	0.016	0.039	8.00	0.40	0.24						
	B035285	0.154	1.370	0.002	0.012	0.209	0.022	0.011	0.011	0.016	0.004	0.026	0.003	0.046	0.0060	0.0010	0.0000	0.046	0.022	0.047	7.67	0.39	0.23						

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
	B035298	0.158	1.342	0.002	0.017	0.204	0.024	0.008	0.013	0.022	0.004	0.027	0.001	0.049	0.0069	0.0010	0.0002	0.053	0.021	0.046	7.10	0.39	0.24
	B035076	0.162	1.346	0.003	0.015	0.192	0.020	0.010	0.011	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0000	0.051	0.021	0.042	10.00	0.39	0.24
	A034689	0.160	1.348	0.001	0.012	0.211	0.022	0.007	0.009	0.022	0.004	0.026	0.001	0.039	0.0049	0.0010	0.0001	0.052	0.016	0.039	7.96	0.39	0.24
	B035285	0.157	1.377	0.002	0.012	0.213	0.022	0.011	0.011	0.016	0.004	0.027	0.003	0.047	0.0061	0.0010	0.0001	0.047	0.022	0.047	7.70	0.39	0.24

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
Note :
1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
3) Supply Condition : Normalized rolled
4) Mechanical Properties are certified at Room Temperature unless specified.
5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
7) Surface condition as per EN10163-2 Class B,Subclass-3,
8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717485008
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2					Longitudinal						1	2	3	Avg									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	(MPa)	(MPa)		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---	---	---	---	---	---	---	---	---	---					
1	24LP0383A1	B035276	32.50	2980	14051	10.683	399	554	27	---	405	572	26	---	---	236	241	259	245	---	---	---	---	---	---	---	---	---					
2	24LP0631A1	A036588	21.50	2980	14151	7.117	434	537	31	---	428	531	32	---	OK	224	194	199	206	---	---	---	---	---	---	---	---	---					
3	24LP0650B1	B035105	15.20	2982	12725	4.528	434	569	27	---	423	562	22	---	OK	208	233	257	233	---	---	---	---	---	---	---	---	---					
4	24LP0696B1	B035065	17.00	2421	14048	4.539	422	549	25	---	407	551	26	---	OK	217	220	168	202	---	---	---	---	---	---	---	---	---					
5	24LP0737A1	A036646	25.60	2980	14051	8.415	425	550	29	---	416	542	30	---	---	224	216	200	213	---	---	---	---	---	---	---	---	---					
6	24LP0817B1	A035215	15.60	2982	13436	4.907	451	569	28	---	436	567	27	---	OK	156	142	129	142	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)																							
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035276	0.155	1.410	0.002	0.017	0.230	0.019	0.008	0.016	0.019	0.005	0.025	0.001	0.049	0.0060	0.0010	0.0000	0.049	0.024	0.044	8.17	0.40	0.24
	A036588	0.156	1.370	0.004	0.018	0.183	0.014	0.005	0.010	0.017	0.005	0.027	0.001	0.045	0.0070	0.0020	0.0000	0.049	0.015	0.030	6.43	0.39	0.23
	B035105	0.157	1.350	0.003	0.018	0.201	0.030	0.009	0.010	0.018	0.005	0.030	0.004	0.050	0.0060	0.0010	0.0000	0.053	0.019	0.053	8.33	0.39	0.23
	B035065	0.150	1.370	0.004	0.018	0.189	0.029	0.014	0.009	0.022	0.002	0.028	0.006	0.050	0.0060	0.0010	0.0000	0.052	0.023	0.058	8.33	0.39	0.23
	A036646	0.164	1.370	0.001	0.015	0.195	0.028	0.007	0.014	0.018	0.005	0.025	0.001	0.050	0.0060	0.0010	0.0000	0.048	0.021	0.050	8.33	0.40	0.24
	A035215	0.156	1.366	0.002	0.018	0.203	0.018	0.007	0.008	0.020	0.004	0.026	0.001	0.045	0.0060	0.0010	0.0000	0.050	0.015	0.034	7.50	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	B035276	0.152	1.397	0.002	0.017	0.226	0.019	0.008	0.016	0.019	0.005	0.025	0.001	0.048	0.0059	0.0010	0.0001	0.049	0.024	0.044	8.14	0.39	0.23
	A036588	0.159	1.377	0.004	0.018	0.187	0.014	0.005	0.010	0.017	0.005	0.028	0.001	0.046	0.0071	0.0020	0.0002	0.050	0.015	0.030	6.48	0.39	0.24
	B035105	0.154	1.337	0.003	0.018	0.197	0.029	0.009	0.010	0.018	0.005	0.029	0.004	0.049	0.0059	0.0010	0.0000	0.052	0.019	0.052	8.31	0.39	0.23
	B035065	0.147	1.358	0.004	0.018	0.186	0.028	0.014	0.009	0.022	0.002	0.027	0.006	0.049	0.0059	0.0010	0.0001	0.051	0.023	0.057	8.31	0.38	0.22
	A036646	0.162	1.355	0.001	0.015	0.192	0.028	0.007	0.014	0.018	0.005	0.025	0.001	0.049	0.0059	0.0010	0.0000	0.048	0.021	0.050	8.31	0.40	0.24
	A035215	0.160	1.373	0.002	0.018	0.208	0.018	0.007	0.008	0.020	0.004	0.027	0.001	0.046	0.0061	0.0010	0.0002	0.051	0.015	0.034	7.54	0.39	0.24

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011. CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO. PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
Note :
1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
3) Supply Condition : Normalized rolled
4) Mechanical Properties are certified at Room Temperature unless specified.
5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
7) Surface condition as per EN10163-2 Class B,Subclass-3,
8) Weight calculation for plates is as per Theoretical Calculation
Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-345, 40<t≤63=335,63<t≤80=325, CE**= 0.47 for t>30 mm



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717483811
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1													
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		NA	2																	
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	1	2	3	Avg	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LP0476A1	B035105	27.70	2980	14051	9.105	415	549	30	---	416	533	29	---	---	234	229	221	228	---	---	---	---	---	---	---	---	---	---					
2	24LP0477A1	B035105	27.70	2980	14051	9.105	415	549	30	---	416	533	29	---	---	234	229	221	228	---	---	---	---	---	---	---	---	---	---					
3	24LP0479A1	B035082	26.30	2980	14051	8.645	433	561	30	---	426	556	31	---	---	359	380	409	383	---	---	---	---	---	---	---	---	---	---					
4	24LP0701C1	B035285	16.30	2418	13860	4.288	437	551	30	---	431	547	31	---	OK	360	374	385	373	---	---	---	---	---	---	---	---	---	---					
5	24LP0836A1	B035056	27.00	2980	14051	8.875	413	545	28	---	414	545	23	---	---	277	305	259	280	---	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
	B035105	0.157	1.350	0.003	0.018	0.201	0.030	0.009	0.010	0.018	0.005	0.030	0.004	0.050	0.0060	0.0010	0.0000	0.053	0.019	0.053	8.33	0.39	0.23
	B035105	0.157	1.350	0.003	0.018	0.201	0.030	0.009	0.010	0.018	0.005	0.030	0.004	0.050	0.0060	0.0010	0.0000	0.053	0.019	0.053	8.33	0.39	0.23
	B035082	0.162	1.350	0.003	0.016	0.194	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.043	0.0060	0.0010	0.0000	0.048	0.023	0.047	7.17	0.39	0.24
	B035285	0.154	1.370	0.002	0.012	0.209	0.022	0.011	0.011	0.016	0.004	0.026	0.003	0.046	0.0060	0.0010	0.0000	0.046	0.022	0.047	7.67	0.39	0.23
	B035056	0.151	1.380	0.002	0.018	0.188	0.026	0.013	0.010	0.017	0.002	0.030	0.001	0.045	0.0050	0.0010	0.0000	0.049	0.023	0.050	9.00	0.39	0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
	B035105	0.154	1.337	0.003	0.018	0.197	0.029	0.009	0.010	0.018	0.005	0.029	0.004	0.049	0.0059	0.0010	0.0000	0.052	0.019	0.052	8.31	0.39	0.23
	B035105	0.154	1.337	0.003	0.018	0.197	0.029	0.009	0.010	0.018	0.005	0.029	0.004	0.049	0.0059	0.0010	0.0000	0.052	0.019	0.052	8.31	0.39	0.23
	B035082	0.159	1.337	0.003	0.016	0.191	0.023	0.009	0.014	0.020	0.002	0.026	0.001	0.042	0.0059	0.0010	0.0000	0.048	0.023	0.047	7.12	0.39	0.23
	B035285	0.157	1.377	0.002	0.012	0.213	0.022	0.011	0.011	0.016	0.004	0.027	0.003	0.047	0.0061	0.0010	0.0001	0.047	0.022	0.047	7.70	0.39	0.24
	B035056	0.149	1.365	0.002	0.018	0.185	0.026	0.013	0.010	0.017	0.002	0.030	0.001	0.044	0.0049	0.0010	0.0000	0.049	0.023	0.050	8.98	0.38	0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717483580
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2			Longitudinal				1	2	3	Avg	1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	(MPa)	(MPa)	(MPa)	(MPa)	5.65Va	1	2	3	Avg											
							(MPa)	(MPa)			(MPa)	(MPa)																						
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---	---	---	---	---	---	---	---	---	---	---					
1	24LP0374A1	B035295	34.80	2692	14151	10.407	429	574	29	---	408	556	27	---	---	47	42	62	50	---	---	---	---	---	---	---	---	---	---					
2	24LP0375A1	A035072	34.80	2692	14151	10.407	421	555	29	---	425	550	29	---	---	292	320	267	293	---	---	---	---	---	---	---	---	---	---					
3	24LP0492A1	A035268	14.40	2982	11539	3.890	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---	---	---					
4	24LP0492A2	A035268	14.40	2982	11539	3.890	416	560	27	---	423	563	26	---	OK	207	211	210	209	---	---	---	---	---	---	---	---	---	---					
5	24LP0885A2	A035270	12.80	2981	11539	3.456	417	558	28	---	423	559	27	---	OK	172	121	175	156	---	---	---	---	---	---	---	---	---	---					
6	24LP0892A1	B035276	15.20	2982	12725	4.528	405	572	26	---	411	574	25	---	OK	166	176	121	154	---	---	---	---	---	---	---	---	---	---					
7	24LP0892A2	B035276	15.20	2982	12725	4.528	405	572	26	---	411	574	25	---	OK	166	176	121	154	---	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)																												
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm					
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---	---	
B035295	0.152	1.410	0.003	0.017	0.192	0.015	0.007	0.011	0.021	0.004	0.026	0.000	0.049	0.0060	0.0010	0.0000	0.051	0.018	0.033	8.17	0.39	0.23						
A035072	0.162	1.360	0.003	0.018	0.196	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.020	0.045	9.00	0.40	0.24						
A035268	0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23						
A035268	0.153	1.360	0.002	0.018	0.213	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.036	0.0060	0.0010	0.0000	0.050	0.022	0.047	6.00	0.39	0.23						
A035270	0.170	1.355	0.002	0.018	0.204	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.050	0.0050	0.0010	0.0000	0.051	0.017	0.039	10.00	0.40	0.25						
B035276	0.155	1.410	0.002	0.017	0.230	0.019	0.008	0.016	0.019	0.005	0.025	0.001	0.049	0.0060	0.0010	0.0000	0.049	0.024	0.044	8.17	0.40	0.24						
B035276	0.155	1.410	0.002	0.017	0.230	0.019	0.008	0.016	0.019	0.005	0.025	0.001	0.049	0.0060	0.0010	0.0000	0.049	0.024	0.044	8.17	0.40	0.24						

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm					
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---				
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---				
B035295	0.149	1.396	0.003	0.017	0.189	0.015	0.007	0.011	0.021	0.004	0.026	0.000	0.048	0.0059	0.0010	0.0000	0.051	0.018	0.033	8.14	0.39	0.23						
A035072	0.159	1.348	0.003	0.018	0.192	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.044	0.0049	0.0010	0.0002	0.051	0.020	0.045	8.98	0.39	0.24						
A035268	0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23						
A035268	0.150	1.346	0.002	0.018	0.209	0.024	0.008	0.014	0.022	0.002	0.026	0.001	0.035	0.0059	0.0010	0.0001	0.050	0.022	0.047	5.93	0.38	0.23						
A035270	0.167	1.343	0.002	0.018	0.200	0.021	0.007	0.010	0.022	0.002	0.027	0.001	0.049	0.0049	0.0010	0.0002	0.051	0.017	0.039	10.00	0.40	0.24						
B035276	0.152	1.397	0.002	0.017	0.226	0.019	0.008	0.016	0.019	0.005	0.025	0.001	0.048	0.0059	0.0010	0.0001	0.049	0.024	0.044	8.14	0.39	0.23						
B035276	0.152	1.397	0.002	0.017	0.226	0.019	0.008	0.016	0.019	0.005	0.025	0.001	0.048	0.0059	0.0010	0.0001	0.049	0.024	0.044	8.14	0.39	0.23						

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLEASE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717481527
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1				2					Longitudinal						1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg									
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	25-2T, >25-	---	---	27		---	---	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-2T, >25-	---	292	320	267	293	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LP0389A1	A035072	27.70	2980	14051	9.105	421	555	29	---	425	550	29	---	---	292	320	267	293	---	---	---	---	---	---	---	---	---					
2	24LP0630A1	B036581	21.50	2980	14151	7.117	423	545	28	---	419	539	29	---	OK	346	321	322	330	---	---	---	---	---	---	---	---	---					
3	24LP0682A1	B036315	24.50	2980	14051	8.053	403	541	30	---	396	517	28	---	OK	371	340	336	349	---	---	---	---	---	---	---	---	---					
4	24LP0687A1	A036343	24.50	2980	14151	8.110	418	532	28	---	415	545	29	---	OK	338	325	336	333	---	---	---	---	---	---	---	---	---					
5	24LP0739A1	A036648	24.90	2980	14051	8.185	439	560	27	---	410	562	26	---	OK	164	125	139	143	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
A035072	0.162	1.360	0.003	0.018	0.196	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.045	0.0050	0.0010	0.0000	0.051	0.020	0.045	9.00	0.40	0.24	
B036581	0.158	1.375	0.001	0.012	0.193	0.014	0.006	0.012	0.018	0.005	0.030	0.001	0.035	0.0050	0.0010	0.0000	0.053	0.018	0.033	7.00	0.39	0.24	
B036315	0.164	1.350	0.001	0.015	0.186	0.022	0.007	0.010	0.017	0.005	0.026	0.001	0.045	0.0050	0.0010	0.0000	0.048	0.017	0.040	9.00	0.40	0.24	
A036343	0.159	1.380	0.003	0.013	0.196	0.014	0.006	0.010	0.020	0.005	0.026	0.001	0.046	0.0060	0.0010	0.0000	0.051	0.016	0.031	7.67	0.39	0.24	
A036648	0.161	1.450	0.002	0.018	0.194	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.048	0.021	0.044	10.00	0.41	0.24	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
A035072	0.159	1.348	0.003	0.018	0.192	0.024	0.009	0.011	0.022	0.002	0.027	0.001	0.044	0.0049	0.0010	0.0002	0.051	0.020	0.045	8.98	0.39	0.24	
B036581	0.155	1.361	0.001	0.012	0.190	0.014	0.006	0.012	0.018	0.005	0.029	0.001	0.034	0.0049	0.0010	0.0001	0.052	0.018	0.033	6.94	0.39	0.23	
B036315	0.161	1.338	0.001	0.015	0.183	0.022	0.007	0.010	0.017	0.005	0.026	0.001	0.044	0.0049	0.0010	0.0002	0.048	0.017	0.040	8.98	0.39	0.24	
A036343	0.156	1.368	0.003	0.013	0.192	0.014	0.006	0.010	0.020	0.005	0.026	0.001	0.045	0.0059	0.0010	0.0002	0.051	0.016	0.031	7.63	0.39	0.23	
A036648	0.158	1.436	0.002	0.018	0.191	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.049	0.0049	0.0010	0.0001	0.048	0.021	0.044	10.00	0.40	0.24	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717480915
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2			Longitudinal				1					1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		25-2T, >25-	---	27	---		---	---	---	---										
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-2T, >25-	---	27	---		---	---	---	---				---						
							Max	---	630	---	---	---	630	---	---	NA	---	---	---		---	---	---	---				---						
1	24LP0390A1	B035074	27.70	2980	14051	9.105	482	588	26	---	461	578	27	---	---	193	196	197	195	---	---	---	---	---	---	---	---							
2	24LP0608A1	A034698	19.60	2980	14051	6.442	435	546	31	---	432	555	29	---	OK	277	307	315	300	---	---	---	---	---	---	---	---							
3	24LP0700B1	B035285	16.30	2418	13860	4.288	437	551	30	---	431	547	31	---	OK	360	374	385	373	---	---	---	---	---	---	---	---							
4	24LP0701B1	B035285	16.30	2418	13860	4.288	437	551	30	---	431	547	31	---	OK	360	374	385	373	---	---	---	---	---	---	---	---							
5	24LP0703A2	A035092	24.00	2040	11556	4.441	433	568	27	---	455	554	30	---	OK	149	162	185	165	---	---	---	---	---	---	---	---							
6	24LP0786A1	B034676	12.80	2981	11539	3.456	421	556	27	---	426	553	26	---	OK	305	299	287	297	---	---	---	---	---	---	---	---							
7	24LP0859B1	B035280	15.20	2980	11772	4.186	418	552	28	---	419	547	29	---	OK	169	183	174	175	---	---	---	---	---	---	---	---							
8	24LP0860A1	A036345	15.20	2980	13061	4.644	409	559	25	---	434	550	26	---	OK	48	71	69	63	---	---	---	---	---	---	---	---							
Chemical Composition (%)																																		
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---							
B035074			0.170	1.370	0.003	0.015	0.201	0.014	0.008	0.010	0.022	0.000	0.027	0.000	0.043	0.0050	0.0010	0.0000	0.049	0.018	0.032	8.60	0.40	0.25										
A034698			0.155	1.350	0.001	0.012	0.224	0.026	0.008	0.006	0.022	0.004	0.026	0.002	0.049	0.0050	0.0010	0.0000	0.052	0.014	0.042	9.80	0.39	0.23										
B035285			0.154	1.370	0.002	0.012	0.209	0.022	0.011	0.011	0.016	0.004	0.026	0.003	0.046	0.0060	0.0010	0.0000	0.046	0.022	0.047	7.67	0.39	0.23										
B035285			0.154	1.370	0.002	0.012	0.209	0.022	0.011	0.011	0.016	0.004	0.026	0.003	0.046	0.0060	0.0010	0.0000	0.046	0.022	0.047	7.67	0.39	0.23										
A035092			0.157	1.370	0.004	0.016	0.217	0.017	0.009	0.009	0.022	0.003	0.030	0.001	0.043	0.0060	0.0010	0.0000	0.055	0.018	0.036	7.17	0.39	0.23										
B034676			0.164	1.370	0.004	0.017	0.192	0.025	0.009	0.009	0.020	0.004	0.027	0.002	0.046	0.0060	0.0010	0.0000	0.051	0.018	0.045	7.67	0.40	0.24										
B035280			0.153	1.360	0.002	0.012	0.197	0.021	0.006	0.008	0.017	0.005	0.028	0.001	0.041	0.0070	0.0010	0.0000	0.050	0.014	0.036	5.86	0.39	0.23										
A036345			0.155	1.370	0.003	0.012	0.202	0.012	0.007	0.011	0.018	0.005	0.025	0.001	0.037	0.0050	0.0010	0.0000	0.048	0.018	0.031	7.40	0.39	0.23										
PRODUCT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm									
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---							
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---							
B035074			0.167	1.356	0.003	0.015	0.197	0.014	0.008	0.010	0.022	0.000	0.027	0.000	0.042	0.0049	0.0010	0.0000	0.049	0.018	0.032	8.57	0.40	0.24										
A034698			0.152	1.337	0.001	0.012	0.220	0.026	0.008	0.006	0.022	0.004	0.026	0.002	0.048	0.0049	0.0010	0.0000	0.052	0.014	0.042	9.80	0.38	0.23										
B035285			0.157	1.377	0.002	0.012	0.213	0.022	0.011	0.011	0.016	0.004	0.027	0.003	0.047	0.0061	0.0010	0.0001	0.047	0.022	0.047	7.70	0.39	0.24										
B035285			0.157	1.377	0.002	0.012	0.213	0.022	0.011	0.011	0.016	0.004	0.027	0.003	0.047	0.0061	0.0010	0.0001	0.047	0.022	0.047	7.70	0.39	0.24										
A035092			0.154	1.356	0.004	0.016	0.213	0.017	0.009	0.009	0.022	0.003	0.029	0.001	0.042	0.0059	0.0010	0.0000	0.054	0.018	0.036	7.12	0.39	0.23										
B034676			0.161	1.356	0.004	0.017	0.189	0.025	0.009	0.009	0.020	0.004	0.027	0.002	0.045	0.0059	0.0010	0.0001	0.051	0.018	0.045	7.63	0.39	0.24										
B035280			0.150	1.346	0.002	0.012	0.193	0.021	0.006	0.008	0.017	0.005	0.027	0.001	0.040	0.0069	0.0010	0.0000	0.049	0.014	0.036	5.80	0.38	0.23										
A036345			0.159	1.377	0.003	0.012	0.207	0.012	0.007	0.011	0.018	0.005	0.026	0.001	0.038	0.0051	0.0010	0.0001	0.049	0.018	0.031	7.45	0.39	0.24										

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN1029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE** = 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717480914
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	NA	25-2T, >25-	---	27	---	---	---	---	---	---	---	---	---						
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-2T, >25-		---	27	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	NA		---	---	---	---	---	---	---	---	---	---	---				
1	24LP0172A1	F985256	20.20	2980	14051	6.640	421	564	26	---	414	549	27	---	OK	276	272	308	285	---	---	---	---	---	---	---	---	---				
2	24LP0403B1	B035394	19.00	2980	14051	6.245	430	542	24	---	424	540	27	---	OK	398	372	349	373	---	---	---	---	---	---	---	---	---				
3	24LP0434B1	B035305	15.20	2980	11772	4.186	419	557	25	---	415	546	27	---	OK	217	185	208	203	---	---	---	---	---	---	---	---	---				
4	24LP0683A1	A036656	24.50	2980	14051	8.053	379	546	25	---	421	548	26	---	OK	184	136	198	173	---	---	---	---	---	---	---	---	---				
5	24LP0692A1	A036650	24.50	2980	14151	8.110	414	553	26	---	419	557	25	---	OK	152	184	162	166	---	---	---	---	---	---	---	---	---				
6	24LP1731A1	A036648	22.00	2980	14051	7.231	439	560	27	---	410	562	26	---	OK	164	125	139	143	---	---	---	---	---	---	---	---	---				

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
	F985256	0.186	1.380	0.003	0.014	0.181	0.024	0.009	0.007	0.016	0.001	0.025	0.001	0.036	0.0046	0.0019	0.0003	0.042	0.016	0.041	7.83	0.42	0.26
	B035394	0.150	1.368	0.003	0.013	0.202	0.018	0.008	0.010	0.022	0.002	0.027	0.001	0.050	0.0060	0.0010	0.0000	0.051	0.018	0.037	8.33	0.38	0.23
	B035305	0.153	1.350	0.004	0.015	0.207	0.021	0.008	0.015	0.022	0.004	0.028	0.001	0.050	0.0060	0.0020	0.0000	0.054	0.023	0.045	8.33	0.38	0.23
	A036656	0.167	1.350	0.003	0.018	0.187	0.023	0.007	0.012	0.019	0.005	0.026	0.001	0.040	0.0060	0.0010	0.0000	0.050	0.019	0.043	6.67	0.40	0.24
	A036650	0.164	1.410	0.001	0.018	0.193	0.019	0.007	0.013	0.022	0.005	0.029	0.001	0.041	0.0050	0.0010	0.0000	0.056	0.020	0.040	8.20	0.41	0.24
	A036648	0.161	1.450	0.002	0.018	0.194	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.048	0.021	0.044	10.00	0.41	0.24

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	---
	F985256	0.183	1.368	0.003	0.014	0.178	0.024	0.009	0.007	0.016	0.001	0.025	0.001	0.035	0.0045	0.0019	0.0003	0.042	0.016	0.041	7.78	0.42	0.26
	B035394	0.153	1.375	0.003	0.013	0.207	0.018	0.008	0.010	0.023	0.002	0.028	0.001	0.051	0.0061	0.0010	0.0001	0.053	0.018	0.037	8.36	0.39	0.23
	B035305	0.157	1.357	0.004	0.015	0.212	0.021	0.008	0.015	0.023	0.004	0.029	0.001	0.051	0.0061	0.0020	0.0001	0.056	0.023	0.045	8.36	0.39	0.23
	A036656	0.164	1.335	0.003	0.018	0.184	0.023	0.007	0.012	0.019	0.005	0.026	0.001	0.039	0.0059	0.0010	0.0000	0.050	0.019	0.043	6.61	0.39	0.24
	A036650	0.161	1.397	0.001	0.018	0.190	0.019	0.007	0.013	0.022	0.005	0.028	0.001	0.040	0.0049	0.0010	0.0001	0.055	0.020	0.040	8.16	0.40	0.24
	A036648	0.158	1.436	0.002	0.018	0.191	0.022	0.008	0.013	0.017	0.005	0.026	0.001	0.049	0.0049	0.0010	0.0001	0.048	0.021	0.044	10.00	0.40	0.24

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

 AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717479971
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	NA	NA	NA	NA		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	24LP0594A1	E983636	33.60	2980	14051	11.044	394	533	29	---	422	551	26	---	---	315	302	283	300	---	---	---	---	---	---	---	---	---	---					
2	24LP0632A1	A036588	21.50	2980	14151	7.117	434	537	31	---	428	531	32	---	OK	224	194	199	206	---	---	---	---	---	---	---	---	---	---					
3	24LP0753A1	B036315	22.00	2980	14051	7.231	403	541	30	---	396	517	28	---	OK	371	340	336	349	---	---	---	---	---	---	---	---	---	---					
4	24LP0754A1	B036315	22.00	2980	14051	7.231	403	541	30	---	396	517	28	---	OK	371	340	336	349	---	---	---	---	---	---	---	---	---	---					
5	24LP1459A1	B036313	24.50	2980	14151	8.110	403	534	29	---	400	543	23	---	OK	388	413	364	388	---	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
E983636	0.160	1.400	0.003	0.015	0.204	0.030	0.009	0.006	0.014	0.002	0.025	0.001	0.031	0.0042	0.0024	0.0004	0.041	0.015	0.046	7.38	0.40	0.24	
A036588	0.156	1.370	0.004	0.018	0.183	0.014	0.005	0.010	0.017	0.005	0.027	0.001	0.045	0.0070	0.0020	0.0000	0.049	0.015	0.030	6.43	0.39	0.23	
B036315	0.164	1.350	0.001	0.015	0.186	0.022	0.007	0.010	0.017	0.005	0.026	0.001	0.045	0.0050	0.0010	0.0000	0.048	0.017	0.040	9.00	0.40	0.24	
B036315	0.164	1.350	0.001	0.015	0.186	0.022	0.007	0.010	0.017	0.005	0.026	0.001	0.045	0.0050	0.0010	0.0000	0.048	0.017	0.040	9.00	0.40	0.24	
B036313	0.157	1.370	0.001	0.015	0.204	0.019	0.008	0.012	0.021	0.005	0.026	0.001	0.050	0.0050	0.0010	0.0000	0.052	0.020	0.040	10.00	0.39	0.23	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	0.45	---	
E983636	0.158	1.386	0.003	0.015	0.202	0.030	0.009	0.006	0.014	0.002	0.025	0.001	0.031	0.0042	0.0024	0.0004	0.041	0.015	0.046	7.38	0.40	0.24	
A036588	0.159	1.377	0.004	0.018	0.187	0.014	0.005	0.010	0.017	0.005	0.028	0.001	0.046	0.0071	0.0020	0.0002	0.050	0.015	0.030	6.48	0.39	0.24	
B036315	0.161	1.338	0.001	0.015	0.183	0.022	0.007	0.010	0.017	0.005	0.026	0.001	0.044	0.0049	0.0010	0.0002	0.048	0.017	0.040	8.98	0.39	0.24	
B036315	0.161	1.338	0.001	0.015	0.183	0.022	0.007	0.010	0.017	0.005	0.026	0.001	0.044	0.0049	0.0010	0.0002	0.048	0.017	0.040	8.98	0.39	0.24	
B036313	0.160	1.377	0.001	0.015	0.208	0.019	0.008	0.012	0.021	0.005	0.027	0.001	0.051	0.0051	0.0010	0.0001	0.053	0.020	0.040	10.00	0.40	0.24	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
 PLAEE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- Test Certificate confirms to EN 10204 : 2004 Type 3.1
- Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- Supply Condition : Normalized rolled
- Mechanical Properties are certified at Room Temperature unless specified.
- Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- Surface condition as per EN10163-2 Class B,Subclass-3,
- Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717477655
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2			Longitudinal					1	2	3	Avg	1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg	1	2	3	Avg												
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	S25-T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---								
Specified Requirement							Min	355	490	22	---	355	490	22	---	NA	---				NA	---				---	---	---	---						
							Max	---	630	---	---	---	630	---	---		---					---													
1	24LP0372A1	B035291	32.50	2980	14051	10.683	417	546	24	---	418	557	24	---	---	224	228	209	220	---	---	---	---	---	---	---	---	---							
2	24LP0419A1	A034420	17.50	2980	14051	5.752	429	522	30	---	394	508	31	---	OK	417	386	406	403	---	---	---	---	---	---	---	---	---							
3	24LP0488B1	A035066	15.40	2982	13200	4.759	412	564	27	---	428	581	27	---	OK	220	243	211	225	---	---	---	---	---	---	---	---	---							
4	24LP0489A2	A035207	15.20	2982	12250	4.359	469	575	26	---	425	559	29	---	OK	234	256	270	253	---	---	---	---	---	---	---	---	---							
5	24LP0490A1	A035205	15.20	2982	12250	4.359	420	560	25	---	407	550	27	---	OK	303	296	284	294	---	---	---	---	---	---	---	---	---							
6	24LP0497A1	A035272	12.80	2981	11539	3.456	432	556	30	---	428	544	27	---	OK	97	173	144	138	---	---	---	---	---	---	---	---	---							
7	24LP0545A1	B036581	22.00	2980	14051	7.231	423	545	28	---	419	539	29	---	OK	346	321	322	330	---	---	---	---	---	---	---	---	---							

Chemical Composition (%)																										
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm			
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---
	B035291	0.159	1.360	0.003	0.014	0.191	0.018	0.008	0.012	0.017	0.004	0.028	0.001	0.047	0.0050	0.0010	0.0000	0.049	0.020	0.039	9.40	0.39	0.24			
	A034420	0.130	1.360	0.002	0.014	0.192	0.013	0.005	0.009	0.020	0.004	0.026	0.001	0.044	0.0060	0.0010	0.0000	0.050	0.014	0.028	7.33	0.36	0.21			
	A035066	0.169	1.361	0.003	0.015	0.200	0.015	0.008	0.008	0.018	0.002	0.026	0.001	0.041	0.0060	0.0010	0.0000	0.046	0.016	0.032	6.83	0.40	0.25			
	A035207	0.165	1.371	0.003	0.015	0.188	0.022	0.007	0.008	0.019	0.004	0.027	0.001	0.044	0.0060	0.0010	0.0000	0.050	0.015	0.038	7.33	0.40	0.24			
	A035205	0.153	1.350	0.002	0.017	0.200	0.024	0.010	0.010	0.022	0.004	0.028	0.002	0.039	0.0050	0.0010	0.0000	0.054	0.020	0.046	7.80	0.39	0.23			
	A035272	0.150	1.370	0.004	0.017	0.204	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.037	0.0060	0.0010	0.0000	0.046	0.020	0.039	6.17	0.38	0.23			
	B036581	0.158	1.375	0.001	0.012	0.193	0.014	0.006	0.012	0.018	0.005	0.020	0.001	0.035	0.0050	0.0010	0.0000	0.053	0.018	0.033	7.00	0.39	0.24			

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm			
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---		
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---		
	B035291	0.155	1.372	0.002	0.013	0.200	0.016	0.007	0.013	0.015	0.005	0.029	0.002	0.045	0.0048	0.0012	0.0001	0.049	0.020	0.038	9.38	0.39	0.23			
	A034420	0.129	1.346	0.002	0.014	0.190	0.013	0.005	0.009	0.020	0.004	0.026	0.001	0.044	0.0059	0.0010	0.0000	0.050	0.014	0.028	7.46	0.36	0.20			
	A035066	0.166	1.347	0.003	0.015	0.196	0.015	0.008	0.008	0.018	0.002	0.026	0.001	0.040	0.0059	0.0010	0.0001	0.046	0.016	0.032	6.78	0.40	0.24			
	A035207	0.162	1.357	0.003	0.015	0.185	0.022	0.007	0.008	0.019	0.004	0.027	0.001	0.043	0.0059	0.0010	0.0000	0.050	0.015	0.038	7.29	0.39	0.24			
	A035205	0.151	1.335	0.002	0.017	0.197	0.024	0.010	0.010	0.022	0.004	0.028	0.002	0.038	0.0049	0.0010	0.0000	0.054	0.020	0.046	7.76	0.38	0.23			
	A035272	0.147	1.356	0.004	0.017	0.200	0.018	0.008	0.012	0.019	0.002	0.025	0.001	0.036	0.0059	0.0010	0.0000	0.046	0.020	0.039	6.10	0.38	0.22			
	B036581	0.155	1.361	0.001	0.012	0.190	0.014	0.006	0.012	0.018	0.005	0.029	0.001	0.034	0.0049	0.0010	0.0001	0.052	0.018	0.033	6.94	0.39	0.23			

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.
PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)
DEEPCO INDIA PRIVATE LIMITED
● QA/QC ●
STEEL LIMITED
AUTHORIZED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717474637
DATE : 30.12.2024CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J0+N / E350B0UT STD. : EN10160 S2 E3
Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1				2					Longitudinal						1													
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg											
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)	NA	25-2T, >25-	---	27	---	---	---	---	---	---	---	---	---	---							
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-2T, >25-	---	27	---	---	---	---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP0376A1	B035292	34.80	2692	14151	10.407	424	541	29	---	425	559	23	---	---	267	319	278	288	---	---	---	---	---	---	---	---	---							
2	24LP0405B1	A035308	18.40	2980	14151	6.091	426	546	27	---	412	539	29	---	OK	285	292	264	280	---	---	---	---	---	---	---	---	---							
3	24LP0520A1	A035070	15.90	2980	13670	5.085	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---							
4	24LP0520B1	A035070	15.90	2980	13670	5.085	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---							
5	24LP0521A1	A035070	15.90	2980	13670	5.085	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---							
6	24LP0521B1	A035070	15.90	2980	13670	5.085	425	563	26	---	416	559	27	---	OK	229	208	210	216	---	---	---	---	---	---	---	---	---							
7	24LP0785B1	B035093	12.80	2981	11539	3.456	420	546	27	---	392	515	31	---	OK	376	354	398	376	---	---	---	---	---	---	---	---	---							
Chemical Composition (%)																																			
HEAT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm										
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---							
B035292			0.154	1.370	0.003	0.018	0.197	0.019	0.007	0.010	0.017	0.004	0.026	0.001	0.044	0.0050	0.0010	0.0000	0.047	0.017	0.037	8.80	0.39	0.23											
A035308			0.158	1.360	0.004	0.010	0.184	0.016	0.007	0.010	0.016	0.004	0.028	0.001	0.049	0.0050	0.0010	0.0000	0.048	0.017	0.034	9.80	0.39	0.23											
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24											
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24											
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24											
A035070			0.164	1.360	0.003	0.018	0.196	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.043	0.0050	0.0020	0.0000	0.050	0.010	0.032	8.60	0.40	0.24											
B035093			0.150	1.352	0.004	0.016	0.180	0.023	0.012	0.010	0.022	0.003	0.027	0.002	0.049	0.0060	0.0010	0.0000	0.052	0.022	0.047	8.33	0.38	0.23											
PRODUCT ANALYSIS			Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm										
Specified Requirement	Min		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---						
	Max		0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	---	---							
B035292			0.151	1.358	0.003	0.018	0.193	0.019	0.007	0.010	0.017	0.004	0.026	0.001	0.043	0.0049	0.0010	0.0001	0.047	0.017	0.037	8.78	0.38	0.23											
A035308			0.155	1.348	0.004	0.010	0.181	0.016	0.007	0.010	0.016	0.004	0.027	0.001	0.048	0.0049	0.0010	0.0001	0.047	0.017	0.034	9.80	0.39	0.23											
A035070			0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24											
A035070			0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24											
A035070			0.161	1.348	0.003	0.018	0.192	0.020	0.009	0.001	0.022	0.002	0.026	0.002	0.042	0.0049	0.0020	0.0001	0.050	0.010	0.032	8.57	0.39	0.24											
B035093			0.147	1.338	0.004	0.016	0.177	0.023	0.012	0.010	0.022	0.003	0.027	0.002	0.049	0.0059	0.0010	0.0000	0.052	0.022	0.047	8.31	0.38	0.22											

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

- PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.
- Note :
- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
 - 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
 - 3) Supply Condition : Normalized rolled
 - 4) Mechanical Properties are certified at Room Temperature unless specified.
 - 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
 - 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
 - 7) Surface condition as per EN10163-2 Class B,Subclass-3,
 - 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm



(Quality Assurance & Control Dept)
AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717545386- 2
DATE : 10.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J2+N / E350CUT STD. : EN10160 S2 E3
Impact Temp.(°C) : -20

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal								1	2	3	AVG							
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	AVG										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA		1	2	3	AVG										
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	25	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
1	24LP1613A1	F985416	48.00	2777	14051	14.703	472	593	23	---	430	575	27	---	---	243	212	213	223	---	58	63	60	60	---	---	---	---	---					
2	24LP1614A1	F985421	48.00	2777	14051	14.703	406	566	27	---	413	572	26	---	---	233	202	196	210	---	54	57	56	56	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F985416	0.162	1.430	0.002	0.015	0.312	0.022	0.239	0.008	0.014	0.002	0.036	0.001	0.033	0.0038	0.0021	0.0003	0.052	0.247	0.270	8.68	0.42	0.25	
F985421	0.160	1.430	0.002	0.015	0.290	0.022	0.239	0.008	0.015	0.002	0.035	0.001	0.035	0.0048	0.0023	0.0002	0.052	0.247	0.270	7.29	0.42	0.25	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F985416	0.160	1.414	0.002	0.015	0.307	0.022	0.235	0.008	0.014	0.002	0.035	0.001	0.033	0.0037	0.0021	0.0003	0.051	0.243	0.266	8.92	0.42	0.25	
F985421	0.158	1.414	0.002	0.015	0.286	0.022	0.235	0.008	0.015	0.002	0.034	0.001	0.034	0.0047	0.0023	0.0002	0.051	0.243	0.266	7.23	0.41	0.24	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717569058- 2
DATE : 12.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3														
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J2+N / E350C										Impact Temp.(°C) : -20														
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks						
							1			2				Longitudinal																	
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	AVG	1	2	3	AVG									
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		S25-T, >25	NA	---	27	---	---	---	25									
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25		---	---	---	---	---	---	---	---						
							Max	---	630	---	---	---	630	---	---			---	---	---	---	---	---	---	---	---					
1	24LP1612A1	F985416	48.00	2777	14051	14.703	472	593	23	---	430	575	27	---	---	243	212	213	223	---	58	63	60	60	---	---					
2	24LP1620A1	F985416	48.00	2777	14151	14.807	472	593	23	---	430	575	27	---	---	243	212	213	223	---	58	63	60	60	---	---					
Chemical Composition (%)																															
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm							
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---						
F985416		0.162	1.430	0.002	0.015	0.312	0.022	0.239	0.008	0.014	0.002	0.036	0.001	0.033	0.0038	0.0021	0.0003	0.052	0.247	0.270	8.68	0.42	0.25								
F985416		0.162	1.430	0.002	0.015	0.312	0.022	0.239	0.008	0.014	0.002	0.036	0.001	0.033	0.0038	0.0021	0.0003	0.052	0.247	0.270	8.68	0.42	0.25								
PRODUCT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm							
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---						
		Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---							
F985416		0.160	1.414	0.002	0.015	0.307	0.022	0.235	0.008	0.014	0.002	0.035	0.001	0.033	0.0037	0.0021	0.0003	0.051	0.243	0.266	8.92	0.42	0.25								
F985416		0.160	1.414	0.002	0.015	0.307	0.022	0.235	0.008	0.014	0.002	0.035	0.001	0.033	0.0037	0.0021	0.0003	0.051	0.243	0.266	8.92	0.42	0.25								

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717562273- 2
DATE : 12.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3																		
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J2+N / E350C										Impact Temp.(°C) : -20																		
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1				2					Longitudinal						1 2 3 AVG													
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		1	2	3	Avg		1	2	3	Avg											
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			S25-T, >25-	---	27	---		---	---	---	25	---	---	---								
Specified Requirement							Min	355	490	22	---	355	490	22	---	NA	---						---	---	---	---	---	---							
							Max	---	630	---	---	---	630	---	---		---						---	---	---	---	---	---							
1	24LP1618A1	F985421	48.00	2777	14051	14.703	406	566	27	---	413	572	26	---	---	233	202	196	210	---	54	57	56	56	---	---	---								
2	24LP1619A1	F985427	48.00	2777	14051	14.703	427	565	27	---	390	565	27	---	---	300	318	331	316	---	55	51	58	55	---	---	---								
Chemical Composition (%)																																			
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm											
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---								
		Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	0.45	---								
F985421		0.160	1.430	0.002	0.015	0.290	0.022	0.239	0.008	0.015	0.002	0.035	0.001	0.035	0.0048	0.0023	0.0002	0.052	0.247	0.270	7.29	0.42	0.25												
F985427		0.156	1.460	0.002	0.014	0.296	0.023	0.237	0.008	0.014	0.002	0.035	0.001	0.035	0.0045	0.0021	0.0002	0.051	0.245	0.269	7.78	0.42	0.25												
PRODUCT ANALYSIS																																			
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---									
		Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---	0.45	---								
F985421		0.158	1.414	0.002	0.015	0.286	0.022	0.235	0.008	0.015	0.002	0.034	0.001	0.034	0.0047	0.0023	0.0002	0.051	0.243	0.266	7.23	0.41	0.24												
F985427		0.154	1.444	0.002	0.014	0.292	0.023	0.233	0.008	0.014	0.002	0.034	0.001	0.034	0.0044	0.0021	0.0002	0.050	0.241	0.265	7.73	0.42	0.24												

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm



(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717804482- 2
 DATE : 12.02.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED				SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011										UT STD. : EN10160 S2 E3															
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024				GRADE : S355J2+N / E350C										Impact Temp.(°C) : -20															
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks				
							1		2		%RA	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	YS* (MPa)	UTS (MPa)	%EL	1	2	3	AVG					
							Min	355	490	22		355	490	22		355	490	22			S25-T, >25- NA	---	27	---	---	25	---	---	---
Specified Requirement						Max	---	630	---	---	---	630	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1	24LP1611A1	F985421	48.00	2777	14151	14.807	406	566	27	---	413	572	26	---	---	233	202	196	210	---	54	57	56	56	---	---	---	---	---
Chemical Composition (%)																													
HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm						
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	0.45	---	---	
F985421	0.160	1.430	0.002	0.015	0.290	0.022	0.239	0.008	0.015	0.002	0.035	0.001	0.035	0.0048	0.0023	0.0002	0.052	0.247	0.270	7.29	0.42	0.25							
PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm						
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	0.45	---	---	
F985421	0.158	1.414	0.002	0.015	0.286	0.022	0.235	0.008	0.015	0.002	0.034	0.001	0.034	0.0047	0.0023	0.0002	0.051	0.243	0.266	7.23	0.41	0.24							

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717606739- 2
DATE : 17.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024

SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J2+N / E350C

UT STD. : EN10160 S2 E3
Impact Temp.(°C) : -20

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)	Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks									
							1				2					Longitudinal				1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA	1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		1	2	3	Avg														
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-T, >25- NA	---	27	---	---	---	---	---	25	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---						
1	24LP1615A1	F985421	48.00	2777	14151	14.807	406	566	27	---	413	572	26	---	---	233	202	196	210	---	54	57	56	56	---	---	---	---					
2	24LP1617A1	F985416	48.00	2777	14151	14.807	472	593	23	---	430	575	27	---	---	243	212	213	223	---	58	63	60	60	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	0.550	---	---	---	---	0.0120	---	0.250	---	---	---	---	0.45	---	0.45	---
F985421	0.160	1.430	0.002	0.015	0.290	0.022	0.239	0.008	0.015	0.002	0.035	0.001	0.035	0.0048	0.0023	0.0002	0.052	0.247	0.270	7.29	0.42	0.25	
F985416	0.162	1.430	0.002	0.015	0.312	0.022	0.239	0.008	0.014	0.002	0.036	0.001	0.033	0.0038	0.0021	0.0003	0.052	0.247	0.270	8.68	0.42	0.25	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	0.550	---	---	---	---	0.0120	---	0.250	---	---	---	---	0.45	---	0.45	---
F985421	0.158	1.414	0.002	0.015	0.286	0.022	0.235	0.008	0.015	0.002	0.034	0.001	0.034	0.0047	0.0023	0.0002	0.051	0.243	0.266	7.23	0.41	0.24	
F985416	0.160	1.414	0.002	0.015	0.307	0.022	0.235	0.008	0.014	0.002	0.035	0.001	0.033	0.0037	0.0021	0.0003	0.051	0.243	0.266	8.92	0.42	0.25	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717603408
DATE : 17.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J2+N / E350CUT STD. : EN10160 S2 E3
Impact Temp.(°C) : -20

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks				
							1				2					Longitudinal								1	2	3	Avg				
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg							
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			(MPa)	(MPa)	5.65Va			1	2	3	Avg							
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-2T, >25-				NA	---				27				---			
1	24LP1306A1	F985421	48.00	2777	14051	14.703	406	566	27	---	413	572	26	---	---	233	202	196	210	---	54	57	56	56	---	---	---	---	---	---	---
2	24LP1307A1	F985427	48.00	2777	14051	14.703	427	565	27	---	390	565	27	---	---	300	318	331	316	---	55	51	58	55	---	---	---	---	---	---	---

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F985421	0.160	1.430	0.002	0.015	0.290	0.022	0.239	0.008	0.015	0.002	0.035	0.001	0.035	0.0048	0.0023	0.0002	0.052	0.247	0.270	7.29	0.42	0.25	
F985427	0.156	1.460	0.002	0.014	0.296	0.023	0.237	0.008	0.014	0.002	0.035	0.001	0.035	0.0045	0.0021	0.0002	0.051	0.245	0.269	7.78	0.42	0.25	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F985421	0.158	1.414	0.002	0.015	0.286	0.022	0.235	0.008	0.015	0.002	0.034	0.001	0.034	0.0047	0.0023	0.0002	0.051	0.243	0.266	7.23	0.41	0.24	
F985427	0.154	1.444	0.002	0.014	0.292	0.023	0.233	0.008	0.014	0.002	0.034	0.001	0.034	0.0044	0.0021	0.0002	0.050	0.241	0.265	7.73	0.42	0.24	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717597815
DATE : 17.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J2+N / E350CUT STD. : EN10160 S2 E3
Impact Temp.(°C) : -20

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)	Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks									
							1				2					Longitudinal				1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA	1	2	3	Avg										
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		1	2	3	Avg														
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	25	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---					
1	24LP1304A1	F985421	48.00	2777	14151	14.807	406	566	27	---	413	572	26	---	---	233	202	196	210	---	54	57	56	56	---	---	---	---					
2	24LP1616A1	F985416	48.00	2777	14151	14.807	472	593	23	---	430	575	27	---	---	243	212	213	223	---	58	63	60	60	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F985421	0.160	1.430	0.002	0.015	0.290	0.022	0.239	0.008	0.015	0.002	0.035	0.001	0.035	0.0048	0.0023	0.0002	0.052	0.247	0.270	7.29	0.42	0.25	
F985416	0.162	1.430	0.002	0.015	0.312	0.022	0.239	0.008	0.014	0.002	0.036	0.001	0.033	0.0038	0.0021	0.0003	0.052	0.247	0.270	8.68	0.42	0.25	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F985421	0.158	1.414	0.002	0.015	0.286	0.022	0.235	0.008	0.015	0.002	0.034	0.001	0.034	0.0047	0.0023	0.0002	0.051	0.243	0.266	7.23	0.41	0.24	
F985416	0.160	1.414	0.002	0.015	0.307	0.022	0.235	0.008	0.014	0.002	0.035	0.001	0.033	0.0037	0.0021	0.0003	0.051	0.243	0.266	8.92	0.42	0.25	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717596237
DATE : 17.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J2+N / E350CUT STD. : EN10160 S2 E3
Impact Temp.(°C) : -20

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks										
							1				2					Longitudinal								1	2	3	Avg										
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg													
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			(MPa)	(MPa)	5.65Va			1	2	3	Avg													
Specified Requirement						Min	355	490	22	---	355	490	22	---	\$25-2T, >25-NA						---	27	---	---	---	25	---	---	---	---	---						
						Max	---	630	---	---	---	630	---	---	NA						---	---	---	---	---	---	---	---	---	---	---						
1	24LP1305A1	F985416	48.00	2777	14051	14.703	472	593	23	---	430	575	27	---	---	243	212	213	223	---	58	63	60	60	---	---	---	---	---	---							
2	24LP1621A1	F985416	48.00	2777	14051	14.703	472	593	23	---	430	575	27	---	---	243	212	213	223	---	58	63	60	60	---	---	---	---	---	---							

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F985416	0.162	1.430	0.002	0.015	0.312	0.022	0.239	0.008	0.014	0.002	0.036	0.001	0.033	0.0038	0.0021	0.0003	0.052	0.247	0.270	8.68	0.42	0.25	
F985416	0.162	1.430	0.002	0.015	0.312	0.022	0.239	0.008	0.014	0.002	0.036	0.001	0.033	0.0038	0.0021	0.0003	0.052	0.247	0.270	8.68	0.42	0.25	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F985416	0.160	1.414	0.002	0.015	0.307	0.022	0.235	0.008	0.014	0.002	0.035	0.001	0.033	0.0037	0.0021	0.0003	0.051	0.243	0.266	8.92	0.42	0.25	
F985416	0.160	1.414	0.002	0.015	0.307	0.022	0.235	0.008	0.014	0.002	0.035	0.001	0.033	0.0037	0.0021	0.0003	0.051	0.243	0.266	8.92	0.42	0.25	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)

AUTHORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

TEST CERTIFICATE NO. : JSW/PCMD/717891018
DATE : 22.01.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J2+N / E350CUT STD. : EN10160 S2 E3
Impact Temp.(°C) : -20

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal						1												
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1													
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			(MPa)	(MPa)	5.65Va			2													
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	1	2	3	Avg	25	---	---	---					
						Max	---	630	---	---	---	630	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
1	25BP0616A1	F992783	48.00	2777	14051	14.703	367	535	27	---	372	541	26	---	---	173	140	133	149	---	57	59	60	59	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm	
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	0.550	---	---	---	---	0.0120	---	0.250	---	---	---	---	---	0.45	---	0.45	---

F992783 0.161 1.440 0.003 0.013 0.314 0.019 0.246 0.008 0.012 0.002 0.035 0.001 0.029 0.0060 0.0025 0.0003 0.049 0.254 0.274 4.83 0.42 0.25

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	0.550	---	---	---	---	0.0120	---	0.250	---	---	---	---	---	0.45	---	0.45

F992783 0.160 1.421 0.002 0.015 0.303 0.017 0.234 0.009 0.013 0.001 0.033 0.002 0.027 0.0055 0.0023 0.0002 0.047 0.243 0.262 4.91 0.42 0.25

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



CML- 7945703

TEST CERTIFICATE NO. : JSW/PCMD/717907273
DATE : 25.02.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J2+N / E350CUT STD. : EN10160 S2 E3
Impact Temp.(°C) : -20

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks										
							1				2					Longitudinal																					
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA																		
							(MPa)	(MPa)	5.65Va	(MPa)	(MPa)	(MPa)	5.65Va	(MPa)		YS*	UTS	%EL	%RA																		
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	---	25	---	---	---	---									
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---									
1	25BP0677A1	F992791	48.00	2777	14151	14.807	428	533	26	---	428	563	25	---	---	152	139	187	159	---	58	63	60	60	---	---	---	---									
2	25BP0678A1	F992788	48.00	2777	14151	14.807	357	529	28	---	359	514	28	---	---	379	230	340	316	---	54	57	56	56	---	---	---	---									

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F992791	0.155	1.430	0.003	0.011	0.314	0.021	0.233	0.006	0.015	0.002	0.037	0.001	0.035	0.0043	0.0021	0.0003	0.054	0.239	0.261	8.14	0.41	0.24	
F992788	0.158	1.440	0.003	0.012	0.315	0.022	0.233	0.007	0.015	0.002	0.036	0.001	0.035	0.0054	0.0021	0.0003	0.053	0.240	0.263	6.48	0.42	0.25	

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---
F992791	0.140	1.458	0.002	0.009	0.317	0.025	0.227	0.008	0.013	0.000	0.038	0.002	0.034	0.0029	0.0021	0.0003	0.051	0.235	0.261	11.58	0.40	0.23	
F992788	0.138	1.456	0.001	0.008	0.317	0.019	0.222	0.008	0.013	0.000	0.035	0.001	0.032	0.003	0.002	0.000	0.048	0.229	0.249	11.13	0.40	0.23	

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

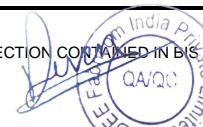
PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110

IS- 2062
CML- 7945703TEST CERTIFICATE NO. : JSW/PCMD/717904718
DATE : 24.02.2025CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
GRADE : S355J2+N / E350CUT STD. : EN10160 S2 E3
Impact Temp.(°C) : -20

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)								Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1				2					Longitudinal							1											
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA		YS*	UTS	%EL	%RA		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va			(MPa)	(MPa)	5.65Va			1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-	---	27	---	---	---	---	---	25	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1	25BP0679A1	F992788	48.00	2777	14151	14.807	357	529	28	---	359	514	28	---	---	379	230	340	316	---	54	57	56	56	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm	
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---	---

F992788 0.158 1.440 0.003 0.012 0.315 0.022 0.233 0.007 0.015 0.002 0.036 0.001 0.035 0.0054 0.0021 0.0003 0.053 0.240 0.263 6.48 0.42 0.25

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---
	Max	0.220	1.600	0.025	0.025	0.550	---	0.550	---	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	0.45	---

F992788 0.138 1.456 0.001 0.008 0.317 0.019 0.222 0.008 0.013 0.000 0.035 0.001 0.032 0.0029 0.0018 0.0004 0.048 0.229 0.249 11.13 0.40 0.23

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



AUTORISED SIGNATORY



Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717935863- 2
 DATE : 27.02.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED							SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011							UT STD. : EN10160 S2 E3																			
P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024							GRADE : S355J2+N / E350C							Impact Temp.(°C) : -20																			
Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)						Bend (Transverse)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks								
							1			2				Longitudinal																			
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg	1	2	3	Avg											
Specified Requirement							Min	355	490	22	---	355	490	22	---	S25-T, >25- NA		---	27	---	---	---	25	---	---	---	---						
							Max	---	630	---	---	---	630	---	---	NA		---	---	---	---	---	---	---	---	---	---						
1	25BP0740A1	F992791	48.00	2777	14151	14.807	428	533	26	---	428	563	25	---	---	152	139	187	159	---	58	63	60	60	---	---	---						
Chemical Composition (%)																																	
HEAT ANALYSIS		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
Specified Requirement		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---					
		Max	0.220	1.600	0.025	0.025	0.550	---	---	0.550	---	---	---	---	0.0120	---	---	0.250	---	---	---	---	---	0.45	---	---	---						
F992791		0.155	1.430	0.003	0.011	0.314	0.021	0.233	0.006	0.015	0.002	0.037	0.001	0.035	0.0043	0.0021	0.0003	0.054	0.239	0.261	8.14	0.41	0.24										
PRODUCT ANALYSIS																																	
Specified Requirement		Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm									
		Min	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---					
F992791		0.140	1.458	0.002	0.009	0.317	0.025	0.227	0.008	0.013	0.000	0.038	0.002	0.034	0.0029	0.0021	0.0003	0.051	0.235	0.261	11.58	0.40	0.23										



IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUIVALENT TO IS 2062:2011.
 CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Furnace Normalized
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
- 8) Weight calculation for plates is as per Theoretical Calculation

Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA: Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

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MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



TEST CERTIFICATE NO. : JSW/PCMD/717935863- 1
 DATE : 27.02.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED
 P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024

SPECIFICATION : EN 10025-2 : 2019 / IS 2062 : 2011
 GRADE : S355J0+N / E350B0

UT STD. : EN10160 S2 E3
 Impact Temp.(°C) : 0

Sr. No.	Plate / Coil No.	Heat No.	Thk (MM)	Width (MM)	Length (MM)	Weight (MT)	Mechanical Properties (Transverse Tensile)							Bend (Transver- se)	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain size (ASTM E112)	Z - Direction Test (Through Thickness)				Y Groove Crackability Test	NDTT	Remarks							
							1			2					Longitudinal						1	2	3	Avg									
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	1	2	3	Avg		1	2	3	Avg										
							(MPa)	(MPa)	5.65Va		(MPa)	(MPa)	5.65Va		1	2	3	Avg		1	2	3	Avg										
Specified Requirement						Min	355	490	22	---	355	490	22	---	S25-T, >25-		---	27	---	---	---	---	---	---	---	---	---	---					
						Max	---	630	---	---	---	630	---	---	---	NA		---	---	---	---	---	---	---	---	---	---	---	---				
1	25AP0239A1	A036322	28.30	2980	14051	9.302	426	546	23	---	423	528	24	---	---	320	298	317	312	---	---	---	---	---	---	---	---	---					

Chemical Composition (%)

HEAT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	0.0120	---	0.250	---	---	---	---	---	0.45	---	---

A036322 0.151 1.380 0.001 0.017 0.189 0.022 0.010 0.017 0.022 0.005 0.027 0.001 0.050 0.0050 0.0010 0.0000 0.054 0.027 0.050 10.00 0.39 0.23

PRODUCT ANALYSIS	Heat No.	C	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Mo	Al	N	Ca	B	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	Al/N	CE**	Pcm
Specified Requirement	Min	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---	---	---
	Max	0.200	1.600	0.030	0.030	0.550	---	0.550	---	---	---	---	0.0120	---	0.250	---	---	---	---	---	0.45	---	---

A036322 0.156 1.362 0.001 0.014 0.189 0.030 0.014 0.013 0.018 0.001 0.029 0.003 0.049 0.0048 0.0013 0.0004 0.048 0.027 0.060 10.23 0.39 0.23

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PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

Note :

- 1) Test Certificate confirms to EN 10204 : 2004 Type 3.1
- 2) Process Route : SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.
- 3) Supply Condition : Normalized rolled
- 4) Mechanical Properties are certified at Room Temperature unless specified.
- 5) Ultrasonic Test are satisfactory as per : EN10160 S2 E3
- 6) Dimensions are satisfactory as per EN10029:2010 Class B,Table - 1,2,3
- 7) Surface condition as per EN10163-2 Class B,Subclass-3,
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Legend : YS : Yield Strength, UTS :Ultimate Tensile Strength, EL : % Elongation, RA : Reduction in Area, Thk : Thickness, NDTT: Nil Ductility Transition Test, Min : Minimum, Max : Maximum, NA : Not Applicable, S: Simulated Post-weld Heat Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16< t≤40-345, 40< t≤63=335, 63< t≤80=325, CE**= 0.47 for t>30 mm

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