



American Quality Standards Registrars LLC

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ANNEXURE TO PED CERTIFICATE NO.15070

Date: 23/11/2019

Company Name : Skyland Metal & Alloys Inc.

Office Address : Black Stone Bldg, 185, Off No7, 4th Flr, Dr. M M Marg, Mumbai - 400004, Maharashtra, India

Certificate No : 15070 (Valid until 22/11/2022)

SEAMLESS & WELDED PIPES & TUBES:

Sr	Name Of Product	Material Specifications	Grade	Thickness (MM)	Size-Dia(mm)
1	Carbon steel seamless pipes & Tubes	ASTM A 106 /ASTM A 53 / ASTM 179	Gr A / B / C	SCH XXS	12 "NB
2	Carbon Steel Welded Pipes	ASTM A 53 /ASTM A 671 /ASTM A 672 all Class	Gr B / GR CA 55 ,CB 60 ,CB 65 , CC 70 ,CD 70 ,CD 80 ,CF 65 , CF 70 , CF 66 ,CF 71 , CG 100 ,CH 100 , A 45 , A 50 , A 55 ,B 60 , B 65 , B 70 ,C 55 , C 60 , C 65 , C 70 , D 70 ,D 80	Upto 50 MM THK	UPTO 52 " NB
3	Seamless Steel / Ferritic Steel	ASTM A 312 /ASTM A 269 / ASTM A 268 / ASTM A 213	TP 304 , 304L ,410S ,430 ,446 ,430 ,446 ,409 ,316 ,316L , 321 , 347 ,321H ,304H ,347	SCH XXS	UPTO 12" NB



	Welded Pipes & Tubes		,347H ,316 ,316H ,316Ti ,317 ,317L		
4	Stainless Steel / Ferritic Steel Welded Pipes & Tubes	ASTM A 358/ ASTM A 268 / ASTM A 249	TP 304 ,304L ,410 ,410S ,446 ,430 ,316 ,316L ,321 ,347 ,347H , 316 ,316H ,316Ti ,317 ,317L ,8904	Upto 50 MM THK	8 “ NB-52” NB
5	Duplex Steel Seamless Pipes & Tubes	ASTM A 790 / ASTM A 789	S 31803 / S32205 /S32750 /S 32760	SCH XXS	UPTO 12 “ NB
6	Duplex Steel Welded Pipes & Tubes	ASTM A 789 / ASTM A 790	S 31803 / S 32205 / S 32750 / S 32760	Upto 40 MM THK	UPTO 24 “ NB
7	Alloy Steels Seamless Pipes	ASTM A 335	P1 ,P2 ,P5 ,P9 ,P11 ,P12,P22,P91	SCH XXS	UPTO 12 “ NB
8	Alloy Steel Welded Pipes & Tubes	ASTM A 691	1-1/4 CR ,2-1 1/4CR ,5 CR , 9 CR 91	Upto 30 MM THK	UPTO 24 “NB
9	Nickel & Nickel alloy Seamless	ASTM B 161 / B 165 / ASTM B 622 / B 163 , ASTM B 167,ASTM B	UNS NO 2200, UNS NO 2201, UNS NO 4400 ,	SCH XXS	UPTO 8”NB



	Pipes & tubes (Inconel , Monel etc .)	444 ,ASTM B 729 ,ASTM B 404 ,ASTM B 423	UNS NO 6022 , UNS NO 6600, UNS NO 6625, UNS NO 8020, UNS NO N 10276		
10	Nickel & Nickel alloy Welded Pipes & tubes (Inconel , Monel etc .)	ASTM B 619 , ASTM B 626 ,ASTM B 515 ,ASTM B 516 ASTM B 517 ,ASTM B 704 ,ASTM B 705	UNS NO 2200, UNS NO 2201, UNS NO 4400 , UNS NO 6022 , UNS NO 8020	Upto 30 MM THK	UPTO 36" NB
11	Copper & Copper alloys & Seamless Pipes & tubes	ASTM B 42 /B 75 /B 111 /B 466	C12200 ,C44300 ,C 70600 ,C70620	10 MM THK	UPTO 8" NB
12	Copper & Copper alloys & Welded Pipes & tubes	ASTM B 467 ,ASTM B 453	C44300 , C 70600 , C 70620	10 MM THK	UPTO 12"NB

Product	Size	Product Standard	Material Standard & Grade
Welded Wrought Butt Weld Fitting	NPS 1/2 to NPS 64 DN 15 to DN 1600	ASME B16.9, ASME B16.28, MSS SP43, MSS SP75, AS PER DRAWING	<ol style="list-style-type: none"> ASTM / ASME B/ SB 363 WP T1, T2, T3, T7, T9, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T23, T24, T25, T26, T27, T28, T33, T34, T35, T36, T37, T38. ASTM / ASME A / SA 403 WP 304/ WP 304H/ WP 304L/ WP 316 / WP 316L/WP 347/WP 347H/WP 321/ WP 321H/WP 310 / WP S31254 ASTM / ASME A / SA 860 WPHY 42/ WPHY 46 / WPHY 52/ WPHY 60/ WPHY 65 / WPHY 70 ASTM / ASME A / SA 420 WPL3 / WPL6 ASTM / ASME A / SA 815 UNS No. S31803/ S32205 / S32750 / S32760 ASTM / ASME B / SB 366 UNS No.N02200/N04400/N06022/N06600/N06625/N08800/
Seamless Wrought Butt Weld Fitting	NPS 1/2 to NPS 24 DN 15 to DN 600		



			<p>N08020/N08825/N08810/N08811/N08904/N08925/N10276</p> <p>7. ASTM / ASME B / SB 466 UNS NO. C70600 / C71500/ EE MUA 146</p>
<p>Forged Fitting - Socket weld & Screwed</p>	<p>NPS 1/2 to NPS 4</p> <p>DN 15 to DN 100</p>	<p>ASME B16.11, MSS SP-83, MSS SP-95, MSS SP-97, BS 3799, AS PER DRAWING</p>	<ol style="list-style-type: none"> 1. ASTM / ASME B/ SB381Gr(F1/2/3/7/9/11/12/13/14/15/16/17/18/19/20/21/23/24/25/26/27/28/33/34/35/36/37/38) 2. EN 10222-2 P245GH / P280GH / P305GH / 16Mo3 / 13CrMo4-5 / 11CrMo9-10 / X10CrMoVNb9-1 3. EN 10222-4 P285NH/QH / P355NH/QH / P420NH/QH 4. ASTM/ ASME A / SA 182 F304 / F304H / F304L / F316 / F316L / F321 / F321H / F347 / F347H / F310 / F1 / F5 / F9 / F11 / F12 / F22 / F91 / F44 / F51 / F53 / F55 / F60 5. ASTM / ASME A / SA 694 F42 / F46 / F48 / F50 / F52 / F56 / F60 / F65 / F70 6. ASTM / ASME A / SA 350 LF2 / LF3 7. ASTM / ASME B / SB 564 UNS N02200/N04400/N06022/N06600/N06625/N08800/N08020/N08825/N08810/N08811/N08904/N08925/N10276 8. ASTM / ASME B / SB 151 UNS NO. C70600 / C71500
<p>Flange</p>	<p>NPS 1/2 to NPS 72</p> <p>DN 15 to DN 1800</p>	<p>ASME B16.5, ASME B16.36, ASME B16.47, ASME B16.48, DIN EN 1092-1, MSS SP-44, BS-10, JIS B2220, AWWA CLASS API SA B, BX AS PER DRAWING</p>	<ol style="list-style-type: none"> 1. ASTM / ASME B/SB 381 Gr(F1/2/3/7/9/11/12/13/14/15/16/17/18/19/20/21/23/24/25/26/27/28/33/34/35/36/37/38) 2. EN 10222-2 P245GH / P280GH / P305GH / 16Mo3 / 13CrMo4-5 / 11CrMo9-10 / X10CrMoVNb9-1 3. EN 10222-4 P285NH/QH / P355NH/QH / P420NH/QH 4. ASTM/ ASME A / SA 182 F304 / F304H / F304L / F316 / F316L / F321 / F321H / F347 / F347H / F310 / F1 / F5 / F9 / F11 / F12 / F22 / F91 / F44 / F51 / F53 / F55 / F60 5. ASTM / ASME A / SA 694 F42 / F46 / F48 / F50 / F52 / F56 / F60 / F65 / F70 6. ASTM / ASME A / SA 350 LF2 / LF3 7. ASTM / ASME B / SB 564 UNS N02200/N04400/N06022/N06600/N06625/N08800/N08020/N08825/N08810/N08811/N08904/N08925/N10276



			8. ASTM / ASME B / SB 151 UNS NO. C70600 / C71500/ EE MUA 145
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Round Bars :

Specifications –

Grade	DIN	UNS	SUS
17-4PH	1.4542	S17400	630
15-5PH	1.4545	S15500	XM-12
13-8PH	1.4534	S13800	
Alloy A286	1.4980	S66286	
Alloy 660	S66286		SUH 660
Nitronic 50	1.3964	S20910	XM-19
Nitronic 60	1.4534	UNS S21800	Alloy 218



Specifications:

SizeRange	3 mm up to 100 mm 1/8" up to 4"
Supply Condition	Cold Drawn & Polished Cold Drawn, Center less Ground & Polished Peeled, Center less Ground & Polished Peeled (Rough Turned) Buffed (Mirror Finish) Chamfered(30/45/60 Degree) Solution Annealed, Grit 240-320 Polish
Grades (AISI)	201, 202, 303, 304, 304 L, 310S, 316, 316 L
Size Tolerance	h8, h9 (DIN 671), h10, h11,ASTM A484, DIN 1013
Length	1 to 6 Mtrs.

FLANGE & FITTINGS:

Product	Size	Product Standard	Material Standard & Grade
Flange	NPS 1/2 to NPS 72 DN 15 to DN 1800	ASMEB16.5, ASME B16.36, ASMEB16.47, ASME B16.48, DIN EN 1092-1, MSS SP-44,	9. ASTM / ASME B/SB 381 Gr(F1/2/3/7/9/11/12/13/14/15/16/17/18/19/20/21/23/ 24/25/26/27/28/33/34/35/36/37/38) 10. EN 10222-2 P245GH / P280GH / P305GH / 16Mo3 / 13CrMo4-5 / 11CrMo9-10 / X10CrMoVNb9-1 11. EN 10222-4 P285NH/QH / P355NH/QH / P420NH/QH



		BS-10, JIS B2220, AWWA CLASS API SA B, BX AS PER DRAWING	<p>12. ASTM/ ASME A / SA 182 F304 / F304H / F304L / F316 / F316L / F321 / F321H / F347 / F347H / F310 / F1 / F5 / F9 / F11 / F12 / F22 / F91 / F44 / F51 / F53 / F55 / F60</p> <p>13. ASTM / ASME A / SA 694 F42 / F46 / F48 / F50 / F52 / F56 / F60 / F65 / F70</p> <p>14. ASTM / ASME A / SA 350 LF2 / LF3</p> <p>15. ASTM / ASME B / SB 564 UNS N02200/N04400/N06022/N06600/N06625/N08800/N08020/N08825/N08810/N08811/N08904/N08925/N10276</p> <p>16. ASTM / ASME B / SB 151 UNS NO. C70600 / C71500/ EE MUA 145</p>
Welded Wrought Butt Weld Fitting	NPS 1/2 to NPS 64 DN 15 to DN 1600	ASME B16.9, ASME B16.28, MSS SP43, MSS SP75, AS PER DRAWING	<p>8. ASTM / ASME B/ SB 363 WP T1, T2, T3, T7, T9, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T23, T24, T25, T26, T27, T28, T33, T34, T35, T36, T37, T38.</p> <p>9. ASTM / ASME A / SA 403 WP 304/ WP 304H/ WP 304L/ WP 316 / WP 316L/WP 347/WP 347H/WP 321/ WP 321H/WP 310 / WP S31254</p> <p>10. ASTM / ASME A / SA 860 WPHY 42/ WPHY 46 / WPHY 52/ WPHY 60/ WPHY 65 / WPHY 70</p> <p>11. ASTM / ASME A / SA 420 WPL3 / WPL6</p> <p>12. ASTM / ASME A / SA 815 UNS No. S31803/ S32205 / S32750 / S32760</p> <p>13. ASTM / ASME B / SB 366 UNS No.N02200/N04400/N06022/N06600/N06625/N08800/ N08020/N08825/N08810/N08811/N08904/N08925/N10276</p> <p>14. ASTM / ASME B / SB 466 UNS NO. C70600 / C71500/ EE MUA 146</p>
Seamless Wrought Butt Weld Fitting	NPS 1/2 to NPS 24 DN 15 to DN 600		
Forged Fitting - Socket weld & Screwed	NPS 1/2 to NPS 4 DN 15 to DN 100	ASME B16.11, MSS SP-83, MSS SP-95, MSS SP-97, BS 3799, AS PER DRAWING	<p>9. ASTM / ASME B/ SB381Gr(F1/2/3/7/9/11/12/13/14/15/16/17/18/19/20/ 21/23/24/25/26/27/28/33/34/35/36/37/38)</p> <p>10. EN 10222-2 P245GH / P280GH / P305GH / 16Mo3 / 13CrMo4-5 / 11CrMo9-10 / X10CrMoVNb9-1</p> <p>11. EN 10222-4 P285NH/QH / P355NH/QH / P420NH/QH</p>



			<p>12. ASTM/ ASME A / SA 182 F304 / F304H / F304L / F316 / F316L / F321 / F321H / F347 / F347H / F310 / F1 / F5 / F9 / F11 / F12 / F22 / F91 / F44 / F51 / F53 / F55 / F60</p> <p>13. ASTM / ASME A / SA 694 F42 / F46 / F48 / F50 / F52 / F56 / F60 / F65 / F70</p> <p>14. ASTM / ASME A / SA 350 LF2 / LF3</p> <p>15. ASTM / ASME B / SB 564 UNS N02200/N04400/N06022/N06600/N06625/N08800/N08020/N08825/N08810/N08811/N08904/N08925/N10276</p> <p>16. ASTM / ASME B / SB 151 UNS NO. C70600 / C71500</p>
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Fastners :

Nuts

Material	Standards	Grades
Nickel Alloy Nut	ASTM / ASME SB 160 / 164 / 425 / 166 / 446 / 574 / 472	UNS 2200 (NICKEL 200) / UNS 2201 (NICKEL 201), UNS 4400 (MONEL 400), UNS 8825 (INCONEL 825), UNS 6600 (INCONEL 600) / UNS 6601 (INCONEL 601), UNS 6625 (INCONEL 625), UNS 10276 (HASTELLOY C 276), UNS 8020 (ALLOY 20 / 20 CB 3)
Stainless Steel Nut	ASTM / ASME A/SA 193 / 194	B 8 (304), B 8C (SS 347), B 8M (SS 316), B 8 T (SS 321), A 2, A 4
Alloy Steel Nut	ASTM / ASME A/SA 193 / 194 GR	B 6, B 7/ B 7M, B 16, 2, 2HM, 2H, GR 6, B 7, B 7M
Duplex Steel Nut	UNS NO. S 31803, S 32205	Range: M10 TO M100, LENGTH UPTO 5 METERS
Nonmetallic Materials:	Acrylic, Kel-F, Lexan, Polypropylene, Poly Vinyl Chloride, Teflon, Zytel 31, 101, 105	

Bolts

Material	Standards	Grades
Nickel Alloy Bolts	ASTM / ASME SB 160 / 164 / 425 / 166 / 446 / 574 / 472	UNS 2200 (NICKEL 200) / UNS 2201 (NICKEL 201), UNS 4400 (MONEL 400), UNS 8825 (INCONEL 825), UNS 6600 (INCONEL 600) / UNS 6601 (INCONEL 601), UNS 6625 (INCONEL 625),



		UNS 10276 (HASTELLOY C 276), UNS 8020 (ALLOY 20 / 20 CB 3)
Stainless Steel Bolts	ASTM / ASME A/SA 193 / 194	B 8 (304), B 8C (SS 347), B 8M (SS 316), B 8 T (SS 321), A 2, A 4
Alloy Steel Bolts	ASTM / ASME A/SA 193 / 194 GR	B 6, B 7/ B 7M, B 16, 2, 2HM, 2H, GR 6, B 7, B 7M
Duplex Steel Bolts	UNS NO. S 31803, S 32205	Range: M10 TO M100, LENGTH UPTO 5 METERS
Nonmetallic Materials:	Acrylic, Kel-F, Lexan, Polypropylene, Poly Vinyl Chloride, Teflon, Zytel 31, 101, 105	
High-Temp Alloys	Discaloy, 19-9 DL, 16-25-6, A286, Titanium, Nimonic 80, Multimet, Haynes 25, Greek Ascalloy, Unitemp 252, Udimet 500, Rene 41, Inco 700, Inco 901, Hastelloy X, 235, Waspaloy, RA 330	
Copper Base Alloys	Copper, Brasses: Yellow, Free-cut, Red, Naval, Bronze: Commercial, Phosphor, Silicon A & B, Aluminum, Silicon-Aluminum, Manganese, Ampco Alloys, Munitz Metal, Cupro-Nicles	
Aluminum Alloys:	1100, 2011, 2014, 2017, 2024, 3003, 5052, 6053, 6061, 7075	
Trademarks:	Carpenter, Armco, INCO, Cabot, DuPont.	
Finish:	Black Oxide, Zinc Plating, Hot Dip Galvanized	

Washers :

Seel Washers Note:-				
Stainless Steel Washers in Grade:	<ul style="list-style-type: none"> • SS 304 • SS 304L • <u>SS 316</u> • <u>SS 316L</u> 	<ul style="list-style-type: none"> • SS 309 • SS 310 • SS 317L • SS 321 	<ul style="list-style-type: none"> • SS 347 • SS 409 • SS 410 • SS 420 	<ul style="list-style-type: none"> • SS 430 • SS 446 • SS 202 • 18-8, 316, 400 series Etc.
Nickel Alloy in:	<ul style="list-style-type: none"> • Hastelloy Steel Washers • Cupro Nickel Steel Washers • Nickel Steel Washers • Monel Steel Washers • Inconel Steel Washers • Alloy 20 Steel Washers Etc. 			
Type of Washers:	<ul style="list-style-type: none"> • <u>Belleville Washer</u> • <u>Bond Sealing Washer</u> • <u>Counter Sunk Finishing Washer</u> • <u>Dock Washer</u> • <u>Fender Washer</u> 			



	<ul style="list-style-type: none"> • <u>Flat Washer</u> • <u>Lock Washer</u> • <u>Neoprene Washer</u> • <u>Square Bevel Washer</u> • <u>Star Washer</u>
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Screws :

Material	Standards	Grades
Nickel Alloy screws	ASTM / ASME SB 160 / 164 / 425 / 166 / 446 / 574 / 472	UNS 2200 (NICKEL 200) / UNS 2201 (NICKEL 201), UNS 4400 (MONEL 400), UNS 8825 (INCONEL 825), UNS 6600 (INCONEL 600) / UNS 6601 (INCONEL 601), UNS 6625 (INCONEL 625), UNS 10276 (HASTELLOY C 276), UNS 8020 (ALLOY 20 / 20 CB 3)
Stainless Steel screws	ASTM / ASME A/SA 193 / 194	B 8 (304), B 8C (SS 347), B 8M (SS 316), B 8 T (SS 321), A 2, A 4
Alloy Steel screws	ASTM / ASME A/SA 193 / 194 GR	B 6, B 7/ B 7M, B 16, 2, 2HM, 2H, GR 6, B 7, B 7M
Duplex Steel screws	UNS NO. S 31803, S 32205	Range: M10 TO M100, LENGTH UPTO 5 METERS
Nonmetallic Materials:	Acrylic, Kel-F, Lexan, Polypropylene, Poly Vinyl Chloride, Teflon, Zytel 31, 101, 105	
High-Temp Alloys	Discaloy, 19-9 DL, 16-25-6, A286, Titanium, Nimonic 80, Mulitmet, Haynes 25, Greek Ascalloy, Unitemp 252, Udimet 500, Rene 41, Inco 700, Inco 901, Hastelloy X, 235, Waspaloy, RA 330	
Copper Base Alloys	Copper, Brasses: Yellow, Free-cut, Red, Naval, Bronze: Commercial, Phosphor, Silicon A & B, Aluminum, Silicon-Aluminum, Manganese, Ampco Alloys, Munitz Metal, Cupro-Nicles	
Aluminum Alloys:	1100, 2011, 2014, 2017, 2024, 3003, 5052, 6053, 6061, 7075	



Conditions :

1. The system approval is valid only for the types listed above
2. Periodic Audits and unexpected visits will be held, in order to verify that the Manufacturer duly fulfils the obligations arising out of the approved quality systems.
3. The Manufacturer must give information of any intended adjustment of the Quality Systems to AQSR, who will assess the changes and decide if the Statement remains valid.
4. Manufacturer shall give affirmation of compliance with the technical order specification.
5. Manufacturer shall fulfill the documentation requirement of WPG Guidelines 7/19.
6. Permanent joining operating procedures and personnel shall be approved by Notified Body or third-party organization recognized by a Member State as provided for in Article 13 of Pressure Equipment Directive.

