

CUSTOMER :CRYOLOR ASIA PACIFIC PVT LTD					CERTIFICATE NO. :JSL-JRD/QA/2017-18/DM-0039896										
CITY :KANCHIPURAM - DIST					DATE :26.10.2017										
P.O.NO. :171178					VEHICLE NO. :CG04HR2914										
SALES ORDER NO :0558003855					NET WT(MG) :12,700										
SHIPMENT/DELIVERY NO :11063193					PO DATE:11.07.2017										
SO DATE:12.07.2017					DATE:25.10.2017										
Material Description/Product: HOT ROLLED ANNEALED POLISHED STAINLESS STEEL PLATES.					Material Specifications: SA-240M GR.304 OF ASME Section II, Part A Edition 2015										
Process-Route: EAF-AOD-LRF-CCS					Dimension Tolerance specification: As per QA/PO Agreement.										
PHYSICAL DESCRIPTION															
SR NO	BATCH NO	PARENT COIL NO./PLATE NO.	PKT/PALLET NO.	WEIGHT (MT)	NO OF PCS	HEAT NO	GRADE	THK (mm)	WIDTH (mm)	LENGTH (mm)	FINISH	EDGE	QUALITY		
1	DK13064401	0000331152	DK13064401	4.880	10	21701657	304	6.700	1,500.00	5,880	N1	TE	PRIME		
2	DK13064402	0000331152	DK13064402	4.885	10	21701657	304	6.700	1,500.00	5,880	N1	TE	PRIME		
3	DK13064403	0000331152	DK13064403	2.935	6	21701657	304	6.700	1,500.00	5,880	N1	TE	PRIME		
CHEMICAL ANALYSIS (LADUE)															
SR NO	HEAT NO	GRADE	C%	Mn%	S%	P%	Si%	Ni%	Cr%	N%	Mo%	Cu%	Ti%	Nb/Cb%	Al%
1	21701657	304	0.020	1.70	0.003	0.038	0.30	8.12	18.15	0.095					
2	21701657	304	0.020	1.70	0.003	0.038	0.30	8.12	18.15	0.095					
3	21701657	304	0.020	1.70	0.003	0.038	0.30	8.12	18.15	0.095					
MECHANICAL PROPERTIES: SAMPLE DIRECTION - TRANSVERSE										ADDITIONAL INFORMATION					
Batch No.	Thk mm	Rp 0.2 YS Mpa	Rp 1.0 Mpa	Rm TS Mpa	%EL A 50 mm	%EL 5.65-80x3L mm	Hardness HIRB	Bend Test 180°	1) MATERIAL SOLUTION ANNEALED IN ACCORDANCE WITH REQUIREMENT AS Laid IN ASTM A-480/A-480M-16 // ASME SA-480/SA-480M 2015 SEC II, PART A "TABLE A1.2 2) SURFACE FINISH AS PER ASTM A 480/A 480M-16 // ASME SA-480/SA-480M 2015 SEC II, PART A NO 1 ON BOTH SIDE 3) DIMENSION TOLERANCE AS PER ASTM A-480/A-480M & ASME SA-480/SA-480M CLAUSE 9 4) ZERO NEGATIVE TOLERANCE ON PLATE THICKNESS 5) MARKING:- COMPANY NAME, COIL NO, HEAT NO, GRADE, SIZE, FINISH 6) MATERIAL, DIMENSION & TOLERANCE COMPLY TO CRYOLOR SPEC SC000001 REVISION 06 DT. 21.12.2015 7) NO WELD REPAIR DONE ON PLATES 8) THE ABOVE MATERIAL, ALSO CONFIRM TO IS 6911 GRADE 304 SI 9) CHARPY IMPACT TEST CARRIED OUT IN TRANSVERSE DIRECTION AT -196 °C AS PER ASME SA370 & FOUND RESULTS AS RESPECTIVELY 10) FAT NO: THICKNESS(mm)/SAMPLE SIZE/IMPACT ENERGY(J)-AVERAGE VALUE LATERAL EXPANSION VALUE:- 21701657/6.7/5.0x10 6x55 0/101, 102, 103/102/1 08, 1 06, 1 01						
1	DK13064401	6.70	330	623	55		84 / 85								
2	DK13064402	6.70	330	623	55		84 / 85								
3	DK13064403	6.70	330	623	55		84 / 85								

Complies with the Code Compliance of ASME

II, Part A, Edition 2015

Found Satisfactory

Date: 07/11/2017

Name: A. SATHEESH

Signature: [Signature]

The material supplied under this Test Certificate is free from any radioactive contamination as checked by procedures established by Jindal Stainless Limited as per the recommendation of the IAEA.