



CERTIFICATE NUMBER  
14-MMPS-CF&PAC-610

PORT OFFICE  
ABS MATERIALS HOUSTON

# CERTIFICATE OF CASTING FACILITY AND PROCESS APPROVAL

This is to certify that a representative of ABS did, at the request of

**Chandan Steel Ltd., Valsad, Gujarat, India**

attend its facilities as indicated in the ABS Mumbai port office survey report number BY2666514 dated 15 July 2014, in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

**Stainless Steel Castings for Marine Applications**

in accordance with the ABS Approval letter, ABS Rules, designated standards and ABS approved drawings. The approval is valid subject to adherence to relevant ABS Rules and survey requirements and annual facility endorsement by an ABS representative.

ISSUE DATE 15 Jul 14      EXPIRATION DATE 14 Jul 19

SIGNATURE

**V. BALASUBRAMANIAM  
PRINCIPAL ENGINEER,  
ABS MATERIALS, HOUSTON**



FIRST ANNUAL  
ENDORSEMENT

SECOND ANNUAL  
ENDORSEMENT

THIRD ANNUAL  
ENDORSEMENT

FOURTH ANNUAL  
ENDORSEMENT

Project #: 3262645; Task #: T1227929; Office Ref #: MMPS: 8106

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, Guides, standards or other criteria of ABS as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a full description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of ABS who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



FROM: ABS Materials, Houston

TO: ABS Mumbai

ATTN: Anandamoy Das

ENGINEER: V. K. Mantravadi

MMPS: 8106

DATE: July 21, 2014

PAGE: 1

FAX: 91-22-22-65-8953

O2E TASK: 1227929

OID: 3262645

**SUBJECT: Chandan Steel Ltd., Valsad, Gujarat, India**  
Initial Foundry Facility and Process Approval to Produce Stainless Steel Castings for Marine Applications.

We have your Electronic Submittals and Plant Survey Audit Report BY2657147 dated 15 July 2014 on the subject, together with enclosures, relative to the subject, and with regard thereto, we advise that Chandan Steel Ltd., Valsad, Gujarat, India is considered facility and process approved to produce steel castings as outlined below. The relevant ABS Rules (Part 2: Materials & Welding 2-A4-1 (2014)) are to be adhered to in all respects, and production, inspection, and testing of the castings is to be to the satisfaction of the attending ABS Surveyor.


<b>Products</b>	:	<b>Stainless Steel Castings<sup>(1)(2)</sup> (Billets, Ingots)<sup>(3)(4)</sup></b>
<b>Alloy Types</b>	:	<b>Non-ABS Grades</b>
		<b>Grades 304/304L/304H, 316/316L/316H, 321/321H, 347/347H, 317, 310S/310H, UNS S32205, UNS31803, UNS S32750 with chemical composition in accordance with ASTM A479 Specification.</b>
<b>Manufacturing Processes</b>	:	<b>Ingot Casting/Continuous Casting</b>
<b>Supply Condition</b>	:	<b>As-Cast</b>
<b>Maximum Weight</b>	:	<b>2,320kg</b>

Notes:

1. Stainless Steel Castings are to be design approved when used on ABS Classed Vessels.
2. It is the responsibility of the facility to inform and obtain ABS Approval, if any changes are made in the Manufacturing Procedure Specification(s), and/or, to the processing parameters as compared to initially approved technical document(s)
3. Weld repair of listed and approved products is to be to the satisfaction of the attending ABS Surveyor.
4. Castings produced for ABS Classed Applications are to have an ABS Surveyor in attendance at the facility for unit certification.

Very truly yours,

Daniel Cronin  
Vice President of Engineering  
ABS Americas

By:   
V. Balasubramaniam  
Principal Engineer,  
ABS Materials, Houston

**AMERICAS DIVISION**

ABS PLAZA, 16855 NORTHCHASE DRIVE, HOUSTON, TX 77060 USA  
TEL: 1-281-877-6476 Email: vmantravadi@eagle.org WEBSITE: www.eagle.org