



Marine & Offshore

Certificate number: 56984/A0 BV

File number: MAT 109280-2019

Product code: 8999H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

CHANDAN STEEL LIMITED
UMBERGAON - INDIA

for the type of product

SEMI-FINISHED PRODUCTS

Continuous cast billets, ingots in stainless steel.

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 09 May 2024

For Bureau Veritas Marine & Offshore,

At BV MUMBAI (BOMBAY), on 09 May 2019,

Rajan VARDHAN



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Steel Melting Shop No.01 - Semi-finished products for forgings or rolled products in stainless steels:

Semi-finished product type	Casting method	Dimension/Weight range
Square Billet	CC	From 100mm×100mm to 200mm×200mm From 78kg/m to 315kg/m
Ingot	IC	From 280mm×330mm×1320mm to 355mm×432mm×1828mm From 1075kg/m to 2320kg/m

Steelmaking by induction furnace with Argon-Oxygen Decarburisation. Continuous casting (CC); Ingot casting (IC).

2. DOCUMENTS AND DRAWINGS :

As per document issued by Chandan Steel Limited:

- Document No.CSL_BV_SMS_001 dated 25/02/2019.

3. TEST REPORTS :

3.1- Typical grades tested: 304(1.4301)/304L(1.4307), 316 (1.4401)/316L(1.4404), 316Ti(1.4571), S31803(1.4462).

3.2 - As per inspection documents issued by Chandan Steel Limited:

- "Chemical analysis and sulphur print reports" dated 04/07/2017.

- "2.2 Semi finished products & selection of the test product" submitted on March 2019.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

Chemical composition, tensile properties, and Charpy-V notch test requirements are to be as per Bureau Veritas Rules NR216 and/or alternative specification mentioned on reviewed documents and drawings as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The semi-finished products are to be supplied by Chandan Steel Limited in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - Chandan Steel Limited has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, Chandan Steel Limited has declared to Bureau Veritas the following production site:

Chandan Steel Limited
Plot No. 35, 36 G.I.D.C.
Umbergaon. Dist. Valsad
396171 UMBERGAON
INDIA

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

Nil.

*** END OF CERTIFICATE ***