



Marine & Offshore

Certificate number: 56985/A0 BV

File number: MAT 110279-2019

Product code: 9013I

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

STAINLESS STEEL ROLLED PRODUCTS

Rolled profiles (Bars, Angles, Flats), and, Round corner square made in stainless steels.

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: 30 May 2024

For Bureau Veritas Marine & Offshore,

At BV MUMBAI (BOMBAY), on 30 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 :

Rolled semi-finished products in austenitic and austenitic-ferritic(duplex) stainless steels.

Product type (1)	Dimensions range
Round Corner Square (RCS)	From 40*40mm to 100*100mm

Steelmaking, continuous casting of billets, ingot casting made at Steel Melting Shop No.01 - Chandan steel, Ltd. (Umbergaon).
Semi-finished products are delivered in As Rolled condition.

Rolled products in austenitic and austenitic-ferritic(duplex) stainless steels.

Product type(1)	Dimension range
Bright bars - Round	Diameter up to 101.6mm

Steelmaking, continuous casting of billets, ingot casting made at Steel Melting Shop No.01 - Chandan steel, Ltd. (Umbergaon).
Heat treatment operations including solution annealed, with water quenching as cooling method.

Rolled products in austenitic stainless steels.

Product type (1)	Dimension range
Flat	Width up to 20mm Thickness up to 5mm
Angle	Leg from 19.05mm to 100mm Thickness from 3mm to 10mm

Steelmaking, continuous casting of billets, ingot casting made at Steel Melting Shop No.01 - Chandan steel, Ltd. (Umbergaon).
Heat treatment operations including solution annealed, with spray water quenching as cooling method.

(1) Rolling and heat treatment operations carried out at following mill unit, which depend on final product dimensions:

- Rolling mill unit No.2 (Umbergaon)
- Rolling mill unit No.6 (Umbergaon).

2. DOCUMENTS AND DRAWINGS :

Document issued by Chandan Steel Limited:

- Document No.CSL_BV_RM_002 dated 25/02/2019.
- "10.0 Rolled products made in stainless steel" submitted on March 2019.

3. TEST REPORTS :

3.1- Typical grades tested:

- For austenitic stainless steels: 304(1.4301)/304L(1.4307), 316 (1.4401)/316L(1.4404), 316Ti(1.4571).
- For austenitic-ferritic(duplex) stainless steels: S31803(1.4462).

3.2- Inspection documents issued by Chandan Steel Limited:

- "Rolling mill inspection reports" 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 rolled profiles are to be supplied by Chandan Steel Limited in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

Nil.

***** END OF CERTIFICATE *****