



Marine &amp; Offshore

Certificate number: 38371/B0 BV

File number: MAT 96620-2014

Product code: 8154I

*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*

**Hi-CON Technocast Pvt. Ltd.**  
RAJKOT - INDIA

*for the type of product*

**STEEL CASTINGS**

Carbon, carbon-manganese, austenitic and austenitic-ferritic stainless steel castings of maximum weight 60kg

### 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: 05 Sep 2024**

**For Bureau Veritas Marine & Offshore,**  
At BV MUMBAI (BOMBAY), on 05 Sep 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](http://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 :**

Carbon, carbon-manganese, austenitic and austenitic-ferritic stainless steel castings with maximum weight 60kg.

Melting by Induction furnace. Investment castings by lost wax process. Heat treatment as applicable.

### **2. DOCUMENTS AND DRAWINGS :**

2.1-Documents issued by Hi-CON Technocast Pvt. Ltd.:

- "General information about the manufacturing process"; "Specific information about the manufacturing process" submitted on April 2014.

- "BV Marine Renewal Documents" dated 06/06/2019.

- Ref.P-QA-03 Rev.04 dated 27/06/2019, Ref.P-QA-01 Rev.04 dated 08/02/2019, Ref.P-QA-02 Rev.05 dated 08/02/2019.

### **3. TEST REPORTS :**

3.1-Approval test reports for castings grades LCB, CF8M and CE3MN issued by Hi-CON Technocast Pvt. Ltd dated March 2014.

3.2-Typical tested grades are :

- LCB according to ASTM A352 for carbon steels;

- CF8M according to ASTM A351 for austenetic stainless steels.

- CE3MN according to ASTM A890 for austenetic-ferritic stainless steels.

### **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 Materials Rules for Classification of Steel Ships and/or alternative specification mentioned on reviewed documents & drawings, as applicable.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The castings are to be supplied by Hi-CON Technocast Pvt., Ltd. 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 :**

This certificate replaces approval No.38371/A0 BV.

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