



**BUREAU  
VERITAS**

*Marine & Offshore  
Division*

**Certificate number:** 21639/B0 BV

**File number:** MAT 57514-2009

**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*

**Amsteel Castings Pvt Ltd.**

Hosur - INDIA

*for the type of product*

**STEEL CASTINGS**

Carbon steel, low alloy steel, austenitic and duplex stainless steel castings of maximum weight 2200kg.

**Requirements:**

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

*This certificate is issued to attest that BUREAU VERITAS 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: 08 May 2020**

For BUREAU VERITAS,

At BV MUMBAI (BOMBAY), on 08 May 2015,

Shailendra NATH

*Shailendra Nath*



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. 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 Division 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 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 steel, low alloy steel, austenitic and duplex stainless steel castings of maximum weight 2200kg.

Steelmaking by induction furnace.  
Sand casting, heat treatment as applicable.

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

- "Request for Foundry Approval" issued by Amsteel Castings Pvt Ltd and dated 16 February 2009.
- Visual examination procedure N° DP40 Rev.A issued by Amsteel Castings Pvt. Ltd. and dated 15 March 2004.
- Calibration equipments procedure N° DP29 Rev.I issued by Amsteel Castings Pvt. Ltd. and dated 02 April 2004.
- NDT procedures N° DP21 Rev.F; N° DP22 Rev.F; N° DP23 Rev.E and N° DP24 Rev.F issued by Amsteel Castings Pvt. Ltd. and dated 01 December 2010.
- Heat treatment procedure N° DP16 Rev.F issued by Amsteel Castings Pvt. Ltd. and dated 01 January 2013.
- List of NDT operators and their qualifications issued by Amsteel Castings Pvt. Ltd. and dated 14 January 2015.
- General information of the manufacturer : profile, type of products, manufacturing facilities, manufacturing process and quality control issued by Amsteel Castings Pvt. Ltd. and dated 2015.

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

Typical tested grades are:

- WCB according to ASTM A216 and LCC according to ASTM A352 for carbon steels
- C5 and C12 according to ASTM A217 for low alloy steels
- CF3M and CF8M according to ASTM A351 for austenitic stainless steels
- 4A and 5A according to ASTM A890 for duplex stainless steels.

- "Request for Foundry Approval" issued by Amsteel Castings Pvt Ltd and dated 16 February 2009.
- Test report of casting grade 4A, Heat 17095, pouring date 07 March 2014, issued by Amsteel Castings Pvt. Ltd.
- Test report of casting grade 5A, Heat 17184, pouring date 29 March 2014, issued by Amsteel Castings Pvt. Ltd.
- Test report of casting grade 5A, Heat 17104, pouring date 10 March 2014, issued by Amsteel Castings Pvt. Ltd.

### **4. APPLICATION / LIMITATION :**

As per Bureau Veritas Rules for Classification

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

The steel castings are to be supplied by Amsteel Castings Pvt. Ltd. in compliance with the type and the requirements described in this certificate.

This type of product is within the category IBV of Bureau Veritas Rule Note NR320.  
BV product certificate is required.

### **6. MARKING OF PRODUCT :**

As per Bureau Veritas Rules for Classification

### **7. OTHERS :**

This certificate replaces approval number 21639/A0 dated 03 April 2009.

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