



CERTIFICATE NUMBER  
FOR-T1661456

ISSUING OFFICE  
Houston ESD - Offshore  
Equipment

# CERTIFICATE OF FORGING FACILITY AND PROCESS APPROVAL

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

**VIRAJ PROFILES LIMITED**

FORGING DIVISION, PALGHAR, MAHARASHTRA, India, 401506

attend its facilities as indicated in the ABS Mumbai Port office survey report number 3363889 dated 26 July 2017 in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

***Stainless Steel Forging components for marine applications***

in accordance with the ABS Approval letter (Reference T1661456), ABS Rules, designated standards and ABS approved drawings. The approval is valid till 25 July 2022 subject to adherence to relevant ABS Rules, Survey requirements and annual endorsement by an ABS representative.



**Marcus Cridland**  
Chief Metallurgist, ABS

ISSUE DATE: 26 July 2017  
EXPIRY DATE: 25 July 2022

FIRST ANNUAL  
ENDORSEMENT:

SECOND ANNUAL  
ENDORSEMENT:

THIRD ANNUAL  
ENDORSEMENT:

FOURTH ANNUAL  
ENDORSEMENT:

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 connection therewith shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



**VIRAJ PROFILES LIMITED (176132)**  
**FORGING DIVISION,SURVEY NO 140/1, SARAVALI & G-75,**  
**MIDC. TARAPUR INDL. AREA,BOISAR, DIST & TAL -**  
**PALGHAR,PALGHAR,MAHARASHTRA,BOISAR, DIST & TAL -**  
**PALGHAR , 401506**  
**India**

Reference: **ZZ/JO/VB**  
**T1661456**  
Project Number: **3938493**  
Certificate no: **FOR - T1661456**

**ATTN: Mr. Vijay Pillai / General Manager (Centralized QA)**

**Renewal of Steel Forging Facility and Process Approval**  
**ABS Approval of Viraj Profiles Limited, Palghar, India**

We have the ABS Mumbai plant survey report BY3363889 dated 26 July 2017, along with your submittals of 1 August 2017 together with enclosures relative to the subject. With regard thereto we advise that Viraj Profiles Limited is considered approved to produce forgings for machinery applications to the requirements of the *ABS Rules for Materials & Welding 2-3-7 (2017)* as outlined below, provided the Rules are adhered to in all respects and all production, testing and inspection are to the satisfaction of the attending ABS Surveyor.

<b>Grade</b>	<b>Non-ABS - Stainless Steel</b>
<b>Casting Practice</b>	<b>ABS Approved sources</b>
<b>Forging/Rolling Practice</b>	<b>Open Die &amp; Closed Die (Forgings) and Rolled Forging</b>
<b>Maximum Weight</b>	<b>1,200 kg</b>
<b>Maximum Thickness/Diameter</b>	<b>Flange: Maximum Dia 914mm; Round Bar: Maximum Dia 600mm; Rolled Products: Round Bars: up to 200mm dia; Flat Bar: up to 175mmx30mm; Angles: up to 152.4x152.4x15mm; &amp; Channels: up to 166x65x7.5x10.5.</b>
<b>Heat treatment facility</b>	<b>In-house</b>
<b>Product Examples</b>	<b>Flange &amp; Round Bar (Forgings); Angle bars, Flat bars, Channel &amp; Round bars (Rolling)</b>

Weld repair is generally not permitted on forgings, unless specially approved by the ABS Engineering Office.

The approval is subject to annual endorsement survey and will expire on 25 July 2022. Please note it is the responsibility of the facility to inform ABS of any changes to the manufacturing parameters and request annual



endorsement survey or renewal of approval prior to the five year expiry date. Enclosed, please find our invoice to cover the costs of the technical review.

A copy of the documentation appropriately stamped to indicate our review is available for downloading through the ABS Eagle Construct Engineering Manager (O2E) web portal. If you need to contact ABS regarding this review please email Ziyan Zhang at [ZiZhang@eagle.org](mailto:ZiZhang@eagle.org)

Very truly yours

Roy H. Bleiberg  
Vice President of Engineering,  
ABS Americas

A handwritten signature in blue ink, appearing to read 'Roy H. Bleiberg', is written over a horizontal line.

V. Balasubramaniam  
Managing Principal Engineer,  
ABS Materials Houston

CC: ABS Mumbai (Pitambar Kumar Manohar & Amit Tiwari)