



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00002Z2**

This is to certify:

That  
**Hindalco Industries Limited**  
**- Hirakud FRP Plant -**  
**Hirakud, Sambalpur, Odisha,**  
**India**

is an approved manufacturer of  
**Wrought Aluminium and Aluminium Alloys**

in accordance with  
**DNV rules for classification – Ships**

and the following particulars:

<b>Application area</b>	<b>Wrought Aluminium Alloys</b>
<b>Products</b>	<b>Coils, Plates and Sheets,</b> <b>See page 2</b>
<b>Manufacturing method</b>	<b>Hot rolled</b>
<b>Thickness</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2022-06-23**

for **DNV**

This Certificate is valid until **2025-06-22**.

DNV local station: **India CMC & NB**

Approval Engineer: **Christian Wildhagen**

\_\_\_\_\_  
**Thorsten Lohmann**  
**Head of Section**

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: AM 311

Revision: 2021-03

www.dnv.com

Page 1 of 2

## Particulars of the approval

---

### Wrought aluminium alloys

Grade <sup>1)</sup>	Product	Manufacturing process	Thickness [mm]	Heat treatment condition
NV 5083	Coils, plates and sheets	Hot rolled	$2 < t \leq 8$	H321

Remarks:

- <sup>1)</sup> Incl. equivalent grades in acc. to other standards

Special remarks:

- Plates and sheets from coil manufactured by Hindalco Industries Ltd, Belur R&D, 39, Grand Trunk Road, Belur Math, Howrah, West Bengal, India
- Max. width of plates and sheets is 1200 mm