



Approval No. ST357CF

Certificate No. TA21690E

APPROVAL OF MANUFACTURING PROCESS

This is to certify that

**Doosan Heavy Industries & Construction Co., Ltd.
Changwon-si, Gyeongsangnam-do
Korea**

has been approved for the manufacturing process of undermentioned materials by the NIPPON KAIJI KYOKAI in accordance with the requirements of 1.2, Part K of the Society's "Rules for the Survey and Construction of Steel Ships" and Chapter 3, Part 1 of the Society's "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use".

MATERIALS : Carbon Steels
Low-Alloy Steels

PROCESS : Casting / Forging / Heat treatment

REMARKS : Including Semi-built Crank Throws by Die and Bend Forging specified in 6.1.13-2, Part K of the Rules (only for Carbon Steels).

The products for the ships classed with the Society are to be manufactured, tested and inspected in compliance with the Rules.

This certificate is valid from 7 July 2021 until 6 July 2026.
Issued at Tokyo on 14 June 2021.



Y. Takao
General Manager
Material and Equipment Department