



Indian Register of Shipping

Certificate No.: 2025WAQC078

WORKS APPROVAL CERTIFICATE

This is to certify that based on the existing manufacturing facilities and satisfactory assessment of manufacturing and quality control procedures by our Surveyors, the name of

Ellwood Crankshaft & Machine

Ellwood Crankshaft and Machine Co., Unit 1: 2727 Freeland Road, Hermitage, PA 16148, USA

Ellwood National Crankshaft, Unit 2: 1 Front street, Irvine, PA 16329, USA

Ellwood Crankshaft and Machine Co., Unit 3: 1161 N Sharpsville Ave, Sharon, PA 16146, USA

is retained in the list of approved works in accordance with the relevant requirements of rule(s)/ standard(s)/ code described below.

WORKS TYPE : FORGE SHOP
PRODUCT TYPE : Forge shop – Crankshaft (Forging and Finish Machining)
APPLICABLE RULE(S)/ STANDARD(S)/ CODE : Part 2 Chapter 5 of IRS Rules and Regulations for the Construction and Classification of Steel Ship
SCHEDULE OF APPROVAL : See ANNEXURE I

This Certificate Is Valid until : 27/09/2030

PLACE OF ISSUE: MUMBAI

DATE OF ISSUE: 30/12/2025

LOCAL SURVEY OFFICE: HOUSTON



FOR, INDIAN REGISTER OF SHIPPING

Initial Certificate No:2023WAQC006 Date:08/02/2023

Karthik S
Principal Surveyor

This Certificate is issued upon the following terms and conditions as laid down in the Society's Regulations:-

Whilst Indian Register of Shipping, a Classification Society, along with its subsidiaries and associates (hereinafter referred to as the Society) and its Board/Committees use their best endeavors to ensure that the functions of the Society are properly carried out, in providing services, information or advice neither the Society nor any of its servants or agents warrants the accuracy of any information or advice supplied. Except as set out herein neither the Society nor any of its servants or agents (on behalf of each of whom the Society has agreed this clause) shall be liable for any loss damage or expense whatever sustained by any person due to any act or omission or error of whatsoever nature and however caused of the Society, its servants or agents or due to any inaccuracy of whatsoever nature and howsoever caused in any information or advice given in any way whatsoever by or on behalf of the Society, even if held to amount to a breach of warranty. Nevertheless, if any person uses services of the Society, or relies on any information or advice given by or on behalf of the Society and suffers loss damage or expenses thereby which is proved to have been due to any negligent act omission or error of the Society, its servants or agents or any negligent inaccuracy in information or advice given by or on behalf of the Society then the Society will pay compensation to such person for his proved loss up to but not exceeding the amount of the fee charged by the Society for that particular service, information or advice. Any notice of claim for loss, damage or expense, as referred to above, shall be made in writing to the Society's Head Office within six months of the date when the service, information or advice was first provided, failing which all the rights to any such claim shall be forfeited and the Society shall be relieved and discharged from all liabilities.



ANNEXURE – I
SCHEDULE OF APPROVAL

PRODUCT DESCRIPTION/DETAIL:

Steel Forgings for Crankshafts – As-Forged, Rough Machined or Finish Machined
Material : Carbon, Carbon-Manganese and Alloy Steel

Scope :

[Unit 1] Ellwood Crankshaft and Machine Co. at Hermitage PA, USA: Machining Facility

[Unit 2] Ellwood National Crankshaft at Irvine, PA, USA: C, C-Mn & Alloy Steel Forgings up to 6 tonne

[Unit 3] Ellwood Crankshaft and Machine Co. at Sharon PA, USA: C, C-Mn & Alloy Steel Forgings up to 50 tonne

REMARKS:

NIL

DOCUMENTATION:

Surveyor's Report No. HOU25W005

RESTRICTIONS:

NIL

TEST REPORTS:

NIL

CONDITION OF APPROVAL

This approval is subject to:

1. Approval of works under this scheme will not eliminate normal inspection and testing.

2. Any alteration being made to manufacturing facilities and procedures would require re-assessment of the works for continued approval.

3. Testing being carried out only at approved test houses to surveyor's satisfaction when supplying forgings under IRS inspection.

4. Raw materials for forgings are to be procured from approved works and the relevant certificates are to be verified during the inspection.

5. Periodical Annual Surveillance audit by the surveyors of Indian Register of Shipping and endorsement in Annexure – II of the certificate.



ANNEXURE – II

Periodical Surveillance Audit Due On : 27 September, 2026
27 September, 2027
27 September, 2028
27 September, 2029

The validity of this certificate is renewed on satisfactory completion of periodical surveillance audit in accordance with above schedule.

Signature _____

Surveyor's Name _____

IRS Stamp

Outport _____

Date _____

Signature _____

Surveyor's Name _____

IRS Stamp

Outport _____

Date _____

Signature _____

Surveyor's Name _____

IRS Stamp

Outport _____

Date _____

Signature _____

Surveyor's Name _____

IRS Stamp

Outport _____

Date _____

