



Indian Register of Shipping

Certificate No.: 2023WAQC028

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

JSW STEEL LTD,

Vijayanagar Works, Vidyanagar Post, Toranagallu, Bellary Dist - 583275, Karnataka, India

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

WORKS TYPE	: STEELMAKING
PRODUCT TYPE	: Shipbuilding Grade Steel Slabs and Hot Rolled Coils/Plates (For details, See Annex - I)
APPLICABLE RULE(S)/STANDARD(S)/CODE:	IRS Rules and Regulations for the Construction and Classification of Steel Ships
SCHEDULE OF APPROVAL	: SEE ANNEXURE I

This Certificate Is Valid until : 14/09/2028

PLACE OF ISSUE: MUMBAI

FOR, INDIAN REGISTER OF SHIPPING

DATE OF ISSUE: 15/09/2023

LOCAL SURVEY OFFICE: GOA



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Sr. 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/DETAILS:

Manufacture of Shipbuilding Grade Hot Rolled Steel Coils/Plates

Steel Making Process: Basic Oxygen Furnace - (BOF/LRF/VD/Concast)

Deoxidation Practice: Al-Si Killed

Casting Method: Continuous Casting (CC)

Product Type: Slabs (Semi finished product for further processing in Rolling Mill) & Hot Rolled Coils/Plates

Thickness of Slabs: 300mm

Details of Approval of Hot Rolled Coils and Plates cut to length from Coils

Sr. No.	IRS Grades	Maximum Thickness (mm)	Maximum Width (mm)	Delivery Condition	Fine Grain Treatment
1	AH32*, AH36*, DH32*, DH36*, EH32* and EH36 (High Strength Steel)	20	2000	TM+Acc (Thermo-Mechanical Rolling + Accelerated Cooling)	Al+Nb+V+Ti
2	A*, B*, D* and E (Normal Strength Steel)	20	2000	TM+Acc (Thermo-Mechanical Rolling + Accelerated Cooling)	Al+V+Ti

The approval of asterik (*) grade steel is based on qualification test data submitted for higher grade steel in same strength level.

REMARKS:

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RESTRICTIONS:

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DOCUMENTATION:

Production and Quality Control documents

TEST REPORTS:

Enclosures to Report no.MGO23W002

CONDITIONS OF APPROVAL:

This approval is subject to:

- 1 Annual audit being carried out by the surveyors of Indian Register of Shipping and Annexure II of the certificate being duly endorsed.
- 2 Any alteration being made to manufacturing facilities and procedures would require re-assessment of the works for continued approval.
- 3 Approval of works under this scheme does not eliminate normal inspection and testing.
- 4 Testing being carried out at approved test laboratories to surveyor's satisfaction when supplying steel slabs & coils/plates to clients under IRS inspection.
- 5 The steel plates being intended for welding with heat input in the range of 15 to 50 kJ/cm.



ANNEXURE – II

Periodical Surveillance Audit Due On : <14 September, 2024 >
<14 September, 2025 >
<14 September, 2026 >
<14 September, 2027 >

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 _____

