



Indian Register of Shipping

CERTIFICATE NO: 2021TAC043

TYPE APPROVAL CERTIFICATE

*This is to certify that the product is in accordance with the applicable rules/standards/codes as described below.
The product is considered to be suitable for use in marine applications and is included in the list of approved products.*

MANUFACTURER	NISAN Scientific Process Equipments Pvt. Ltd.
REGISTERED OFFICE & WORKS	R-587/1,,MIDC, Rabale, ,Navi Mumbai – 400 701,Navi Mumbai,Maharashtra,India
PRODUCT NAME	LEVEL GAUGE
MODEL NO. / TRADE NAME	Magnetic Level Gauge Reflex Level Gauge Transparent Level Gauge Tubular Level Gauge
PRODUCT DESCRIPTION	See Annexure - I
APPLICABLE RULES/STANDARDS/CODES	- IRS Rules and Regulations for construction of steel ships
CONDITIONS OF APPROVAL	See Annexure - I
VALIDITY	The Certificate is valid until 10/07/2026

ISSUE DATE: 10/07/2021

PLACE: MUMBAI

Premjit Panigrahi
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
(TO CERT. NO. 2021TAC043 DATED 10th July 2021)

PRODUCT DESCRIPTION

Level Gauges	Size	Max. Temp	Max. Working Pressure
Magnetic Level Gauge	300-5000mm	500 °C	150 kg/cm ²
Reflex Level Gauge	300-3000mm	250 °C	150 kg/cm ²
Transparent Level Gauge	300-3000mm	370 °C	150 kg/cm ²
Tubular Level Gauge	300-3000mm	150 °C	10 kg/cm ²

TERMS AND CONDITIONS

The approval is subject to the following conditions:

- 1) When using level gauges for tanks containing lubricating oil, oil fuel or other flammable liquid in place of sounding pipes, following to be ensured:
 - i. In passenger ships, tank penetration is acceptable for only top mounting of the level gauge.
 - ii. Flat glass level gauges are not to be used for oil fuel, lubricating oil and other flammable liquid tanks onboard passenger ships.
 - iii. Flat glass level gauges may be accepted on cargo ships provided they are fitted with self-closing valves between the gauges and the tanks.
 - iv. The use of cylindrical gauge glasses is not acceptable on oil fuel, lubricating oil and other flammable liquid tanks
- 2) The materials used for manufacture of the level gauges shall be suitable for the intended service application and are to be tested for chemical and physical properties in Government Approved Labs and record is to be maintained.
- 3) Prior to delivery of the level gauges to the customers, the satisfactory functional tests including hydro test up to 1.5 times the static head to which they are subjected to is to be carried out.
- 4) Any revision to the design or applicable rules / reference standard/code would necessitate testing and re-approval of the above products.

Premjit Panigrahi
Sr. Principal Surveyor