Certificate no.:
TAS00004KR

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Portable Tank

with type designation(s)
20ft CSC/ISO portable tank F2220AN
20ft CSC/ISO portable tank F2220AN/1

issued to

Inox India Limited

Kalol, Gujarat, **India**

is found to comply with

International Convention for Safe Containers, 1972 (CSC)
ISO 1496, Part 3: Tank Containers for Liquids, Gases and Pressurized Dry Bulk
International Maritime Dangerous Goods Code (IMDG)
European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)
Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID)
Code of Federal Regulations 49
Transport Canada: 4g Impact Test Requirement for Tank Containers

Application:

UN Portable Tank, Tank Instructions T50

Type	Max. gross mass (kg)	Max. payload (kg)	Tank cap. (L)	MAWP/test pressure (bar)	Eq. shell thk. (shell / ends) (mm)
20ft CSC/ISO portable tank F2220AN	**36000**	**26020**	**22500**	**19.69 / 26.2**	**23.06 / 23.06**
20ft CSC/ISO portable tank F2220AN/1	**36000**	**26020**	**22500**	**19.69 / 26.2**	**23.06 / 23.06**

Issued at **Høvik** on **2025-04-30**

This Certificate is valid until **2030-04-29**.

for **DNV**

DNV local unit: **VCA India**

Approval Engineer: **Igor Antonijevic**

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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.

Product description

20ft CSC/ISO portable tank container

Max. external dimensions (L x W x H)	6058 x 2438 x 2591 mm
Tare Mass[1)]	9980 kg
Nominal thickness (shell/heads)	18.0 / 18.0 mm
Tank internal diameter	2305 mm
ISO Freight container designation	1CC
Size code	22
Type code	K8
Tank material	SA-240 gr. 304
Pressure Vessel Code	ASME VIII Div. 1

[1)]Tare mass is to be confirmed by weighing. The sum of the tare mass and the payload shall never exceed the Max. gross mass as stated on the front page of this certificate.

Application/Limitation

Approved according to IMDG/ADR/RID Ch. 6.7 and US DOT 49 CFR requirements.

CSC/IMDG/ADR/RID/ design approval reference number	N-NV/676/01/25
US DOT Approval reference number	SI/0200-25/USA[2)]
Setting of relief valve	19.69 bar
Design temperature range	-40°C to + 50°C
Design pressure	20 bar
Allowable stacking load for 1,8g	213360 kg
Racking test load value	150 kN
Products accepted for carriage (Propper shipping name PSN)	UN 1005 AMMONIA, ANHYDROUS

[2)] issued by Silver/Cims

DNV surveyor has to witness important production and test events and issue Form no. CTT101 “Tank Container Certificate” for each container. In addition to this freight container certificate has to be issued (form no. CTF301 Type Certificate for Container).
Each tank should be subjected to a hydraulic pressure test to test pressure.

Type Approval documentation

Tests carried out

Prototype tested according to the requirements.

Marking of product

Each container to be marked with:

- Data plate for UN tanks according to Ch. 6.7.4.15 requirements in IMDG Code, ADR and RID. Design approval number according to Application/Limitation above.
- Data plate according to DOT and CSC requirements including Allowable stacking load of 213360 kg.
- External marking according to CSC, IMDG/ADR/RID and DOT requirements
- DNV decal for freight containers
- NV mark to be hard stamped on frame.
- Marking in accordance with other applicable codes
- “TC IMPACT APPROVED” to be marked on the data plate

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNV-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonized with other surveys and audits carried out. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

END OF CERTIFICATE