



Certificate no.:
TAD00001S0

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Mud and Cementing Equipment**

with type designation(s)

Skid, Ground Order Transmission Device, Dwg. No. B11-00-301, Rev. D

issued to

SJS Limited

Jingzhou, Hubei Province, China

is found to comply with

DNV-OS-E101 – Drilling facilities, Edition July 2024

DNV statutory interpretations DNV-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2021

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Houston** on **2025-07-15**

This Certificate is valid until **2030-07-14**.

for **DNV**

DNV local unit: **Wuhan NB & CMC**

Approval Engineer: **Xiangwen Maggie Wang**

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 USD 300 000.

Product description

Ground Instruction Transmission Device Skid, consisting of a frame, valves, actuators, and sensors.

Application/Limitation

Design Parameter	Value	Equivalent
Maximum Fluid Working Pressure (mud)	7,100 psi	500 bar
Hydrostatic Test Pressure (mud components)	10,650 psi	750 bar
Maximum Air Source Pressure	130psi @ 166gpm	8.96 bar
Temperature Range	-4°F to 122°F	-20°C to 50°C
Hazardous Zone Rating	Zone II	

Type Approval documentation

Tests carried out

PN# B11-00-301 Rev. A Type Test Report, testing witnessed by DNV on 12/20/2023.

Marking of product

For traceability the following marking is to be carried out on each product:

1. Serial No.
2. Manufacturer's Name or trademark
3. Additional marking at the manufacturer's discretion

Periodical assessment

For retention of the Type Approval, DNV's surveyor shall perform periodical assessment after 2 years (+/- 90 days) and after 3.5 years (+/- 90 days) in accordance with DNV's Class Programme DNV-CP-0338, Section 4.

Other Conditions/Comments

1. The skid frame (B11-01-251) is covered under TAS00004BU.
2. The 2" Plug Valve and 90° Elbow 2" are approved by existing type approval TAD00000KM Rev. 1.
3. DNV ref.: A1729261.

END OF CERTIFICATE