Marine & Offshore

Certificate number: 00188BBY21

The continuation sheet(s) form(s) part of the attestation.

www.veristar.com

CERTIFICATE
FOR
PUMP

Applicant : Roto Pumps Ltd. (GREATER NOIDA - IND)

Product description : **Horizontal Twin Screw Pump**
Quantity : 1 pc

Particulars of products as declared by the applicant :

Manufacturer	: Roto Pumps Ltd. (GREATER NOIDA - IND)
Supplier	: Roto Pumps Ltd. (GREATER NOIDA - IND)
Purchaser	: Desmi Singapore Pte. Ltd. (Shingapore - SGP)
Purchaser's ref. N°	: P005840
Type	: RSL126G06A2I2ZA1
Drawing number & revision	: DP-07-002-21-00
Discharge head	: 80.0m
Speed	: 1800rpm
Body material grade	: ASTM A 516 GRADE 70
Material certificate number	: Refer attached reports
Working pressure	: 8.0bar
Declared as intended for	: Cargo Oil Pump, PT Bandar Abadi,H367
Test pressure	: 20.0bar
Piece / Serial number(s)	: ND3328
Capacity	: 300m3/h
Relief Valve set pressure	: 10.0bar

Technical specifications : QAP No.ROTO/DESMI/DP/20/29001 Rev.01

Scope of intervention : See continuation sheet(s)

Enclosures / Remarks : Certificate issued using remote survey solution due to travel restrictions related to COVID-19 pandemic
Manufacturers test reports attached

This certificate attests that the products tests / checks described in the continuation sheet(s) were carried out under the attendance / by Bureau Veritas Marine & Offshore with no remark in view of the relevant part of the above referenced technical specifications as declared by the applicant.

Marking : 00188BBY21
Last attendance date : 24 May 2021
Surveyor : Rajan VARDHAN

Issuance date : 31 May 2021
Office : BV MUMBAI (BOMBAY)

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Indian Register of Shipping

Port : DELHI

Date : 31/05/2014

Report No. : DLH14X011

This is to certify that at the request of M/s. AMBUJA CEMENTS LIMITED, Panvel the undersigned Surveyor(s) to this society attended at the works of their vendor M/s. ROTO PUMPS LIMITED, Noida on 28-05-2014 for the purpose of inspection of Sewage Pumps Screw Type particulars of which are given below, manufactured against P.O. No. 2800444551/NE25/AMOL N JADHAV, Dated: 28-02-2014 of M/s. Ambuja Cements Limited, Panvel

Sr. No.	P.O. Sr. No.	Item Description	Quantity Accepted
1	00001	Sewage Pump Screw Type Sr. No. NH140132 & NH140133 Direction of Rotation: Counter Clock Wise Direction	2 Nos.

The above items stated to be manufactured in accordance with purchaser requirements, was examined & tested for its operation on completion in assembled condition as per M/s. Ambuja Cements Limited approved QAP No. QAP/QA/13/29004 REV. No. 01, Dated: 09-04-2014, Technical Data Sheet No. 2, Email, Dated: 28-05-2014 and Drawing No. 06-192-14-00, using calibrated measuring & test equipment for the following and found to be satisfactory.

1) Reviewed Raw Material Test Certificate of Pump Housing and End Cover (Physical).
2) Reviewed Raw Material Test Certificate of Rotor and Shaft (Chemical).
3) Reviewed internal dimension reports of Stator and Rotor (Major and Scroll Diameter).
4) Reviewed Test Certificates of Motors and Gear Parts.
5) Reviewed internal Hydro Test Report of End Covers.
6) Reviewed internal Performance Test Reports of each Pump.
7) Reviewed internal Dimension Reports of Pump assembly.
8) Witnessed Performance Test of Pump with Job Motor (Pump Sr. No. NH140133) after running for one hour selected randomly (One Per Type).
9) Witnessed Rise in Temperature of Gear Box and Noise & Vibration of Pumps during Performance Test.

For the identification Performance Test Witnessed Pump double hard stamped and remaining Pump single hard stamped on Flange O.D. near the Sr. No. Punching as: " IRS 213 ".

Cdr. K. K. Dhawan
For Self and Nishit Pathak
Surveyor(s) to Indian Register of Shipping

This Certificate is issued upon the following terms and conditions as laid down in the Societys Regulations:-Whilst Indian Register of Shipping (hereinafter referred to as IRS) and its Committees use their best endeavors to ensure that the functions of IRS are properly carried out, in providing services, information or advice neither IRS nor any of its servants or agents warrants the accuracy of any information or advice supplied. Except as set out herein neither IRS nor any of its servants or agents (on behalf of each of whom IRS 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 IRS 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 IRS, even if held to amount to a breach of warranty. Nevertheless, if any person uses services of IRS, or relies on any information or advice given by or on behalf of IRS and suffers loss damage or expenses thereby which is proved to have been due to any negligent act omission or error of IRS its servants or agents or any negligent inaccuracy in information or advice given by or on behalf of IRS then IRS will pay compensation to such person for his proved loss up to but not exceeding the amount of the fee charged by IRS 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 IRS 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 IRS shall be relieved and discharged from all liabilities.

DET NORSKE VERITAS

Certificate No
N1401XYK

PRODUCT CERTIFICATE

for Pump

Particulars of Vendor and Purchaser

Vendor:	**ROTO PUMPS LTD.**
Vendor reference:	**22286 dated 18/03/2014 for Hull no. 118 and 22510 dated 07/04/2014 for Hull no. 119**
Purchaser:	**Desmi Norge AS**
Purchaser reference:	**7463, dated 14.03.2014 for Hull no. 118 / 7471 dated 19/03/2014 for Hull no. 119**

Particulars of Product

The product is intended for

Yard:	**Havyard Ship Technology AS**
Yard No.:	**119**
Name of Vessel:	**"-"**
DNV Id. No.:	**33688**

THIS IS TO CERTIFY:

that the product:	**Positive Displacement Progressive Cavity Pump**
Type designation:	**RLCB57MR2CD1L Z15**
Intended Purpose:	**Bilge water**
Serial/Tag no:	**NH140330**

Has been found to comply with relevant requirements in:
DNV Rules for Classification of Ships (2013-01)

The product / material has been marked: on: Pump Serial No. marked on Name Plate

Issued at **Mumbai** on **2014-06-26**

for **Det Norske Veritas AS**

This document has been digitally signed and will therefore not have handwritten signatures.

Mondal, Sarajit kumar
Surveyor

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

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