

CURRICULUM VITAE 2023 Mohamed EL BAHRY

Year of Birth: 1955

City and Country of Residence: Berlin, Germany

Date of CV Revision: 29/01/2023

Nationality: German

Competency Summary

Disciplines		Material Form		Materials Types		Pressure Equipment		Rotating Equipment	
Mechanical General	x	Plates	x	Carbon Steel		Pressure Vessels	x	Pumps	x
Electrical General	x	Pipe	x	High Chrome Steels		Boilers	x	Compressors	x
Instrumentation General	x	Flanges & Fittings	x	High Alloy Steel (Stainless)		Heat Exchangers/Heaters	x	Turbines	x
Painting / Coating Corrosion	x	Castings	x	Duplex/Super Duplex Steels		Process Control Valves	x	Gears	x
Welding	x	Forgings	x	Aluminium / Titanium Alloys		Safety Valves	x	Engines	x
NDT/E	x	Fabricated /Welded	x	Non Metallic Materials		Gas Cylinders		Mechanical Equipments & Components	x
						Line Pipes – Rigid			
Instrumentation Equipment		Electrical Equipment		Lifting Equipment		Subsea Equipment		Drilling & Wellhead Equipment	
Communication Systems		Generators	x	Cranes	x	Subsea Structures/Templates		OCTG Oil Country Tubular Goods	
Fire and Gas Detection		Motors	x	Hoists / Winches	x	Subsea Valves/ Pumps	x	Blow Out Preventers	
Gauges and Metering Equipment		Transformers		Lifts		Flexible Pipes and Risers		Xmas Trees	
Meter Skid, Prover Loop		Switchgear	x	Lifting Loose Gears		SPS Equipment		Other Wellhead Equipment	
Control Panels		Circuit Breaker		Lifting Cables	x	Umbilicals		Completion Equipment	
DCS / ESD System Equipment		Electrical Panel	x						
Service Profile		Inspector & Vendor Surveyor	x	Academic Degree	x	Shipbuilding Engineer	x		

EDUCATION

- 1975 ~ 1980: Institution: Suez-Canal University, Faculty of Engineering and Technology, Department of Ship Engineering, Port-Said, Egypt.
- Degree Certificate: Bachelor of Science (B. Sc.) Degree in Shipbuilding Engineering, with general appreciation „GOOD “and the Project appreciation „GOOD “. The Project was: „Design and Construction of an Excursion Boat, Items: Loa=36 m, Boa=7.25 m, T=1.63 m, D=3.1 m, V=13 Knots, for 120 Persons “.
- **Languages: German** fluently, **English** fluently, **Arabic** native language.

EXTERNAL – PROFESSIONAL QUALIFICATIONS

1. **Egypt: March - April 1986**
Alexandria University, Egypt.
Special course for: „Developing abilities of Management positions“.
2. **Germany: October 1992**
Government-Recognized Training and Testing Institute for Welding-Engineering, Duisburg, Germany.
Special course for: „Analysis and Evaluation of Radiograms of Welds“.
3. **Germany: January - May 1996**
Government-Recognized Training and Testing Institute for Welding-Engineering, Berlin-Brandenburg, Germany.
Special course for: “Welding Engineering and Quality Control,,.
4. **Germany: October 1997 - May 1998**
Institute for Computer Technology, Leer (East Friesland).
Course for: “CAD and Computer Science,,.
5. **Germany: July 1998**
Numeriek Centrum Groningen, Holland. A special course for Ship Design with the Program (NUPAS-CADMATIC-Hull). Only 3 Days.
6. **Germany: Nov.-Dec. 1998**
Assessment-Centre for Management Positions.
7. **Germany: January-May 1999**
Schloemer Shipyard, in Leer, Technical Practice in the Design Office.
8. **Germany: Sep 2001 – Feb 2002**
Courses (Microsoft Certified Professional), and become a **MCP**.
9. **Germany: January – June 2009**
attended several Courses and instructions for Marine Surveyors in the Germanischer Lloyd’s Academy
10. **England & USA: Nov. 2011 & Jan. 2012**
Training in the **ABS** Academies in London (UK) and Houston Texas (USA) for Surveyors.
11. **India: 2013**: Courses for Marine Surveyors
12. **Germany: February – June 2016**
Visiting courses for Computer Aided Design (CATIA & SIEMENS NX)
13. **Germany**: 1st Sep. – 25th October 2016: Yacht & Boat Inspection & Evaluation Course, and become Certified Professional Boat Inspector.

eLearning – PROFESSIONAL TRAINING / QUALIFICATIONS

- **eLearning (Intertek) 2018 ~ 2022, (SGS) 2019 ~ 2020, (Fluor University) 2022:**
 - Certificate Pressure Vessels
 - Certificate Technical Specialist Charter
 - Certificate Body of Knowledge Mechanical
 - Certificate HSE Charter
 - Certificate IS (Inspection Specialist) HSE Charter DVA
 - Certificate Safety Awareness Series-Stop Work Authority
 - Certificate TIS (Technical Inspection Specialist) Expediting DVA
 - Certificate TIS Preservations & Coatings DVA
 - Certificate Operation Systems for the TS
 - **eLearning (BV):** BV Inspection Handbook, Non-exclusive inspection Handbook
 - Think-Integrity (**SGS**), Be-Data-Safe, Roles 4 Life, COVID-19 release of March 12th 2020
 - Validation Pumps & Report writing (Fluor University) 2022
 - Validation Exams for: MECHANICAL GENERAL & EXPEDITING – FIELD (29/01/2023)

SPECIFIC WORK EXPERIENCE (Projects and activities)

General Scope of Inspections: Verification, inspection and Reporting of Industrial, Marine & Machine Components at manufacturer’s Works like:

- Engines, Turbines, Gear boxes, Welding,
- NDE, (Mechanical Tests) Tensile tests, bending tests, Welding, etc...
- Pumps, Castings (Gusstechnik / Casting technology),
- FAT (Functional & Factory acceptance tests for Gear Boxes, Turbines, Pumps etc.).

Brief Scope of Inspections

Date of visits: Dec. 2022
Supplier / Vendor / Manufacturer: GEA Refrigeration Germany GmbH
Client: Lotte E&C
Scope of Inspections: Test Run & Performance Test Inspection
Items: Screw Compressor

- **Date of visits:** Nov. 2022
- **Supplier / Vendor / Manufacturer:** Siemens Energy Global GmbH / Duisburg & Berlin
- **Client:** WOODFIBRE LNG Limited / USA & CANADA
- **Scope of Inspections:** Pre-Inspection-Meeting
- **Items:** LP & HP Compressor Drive/Synchronous Motors

- **Date of visits:** March, April, August & September 2022
- **Supplier / Vendor / Manufacturer:** ATB Schorch GmbH / Mönchengladbach (Test did at Siemens Test fields)
- **Client:** Ruhrpumpen GmbH / Witten
- **Scope of Inspections:** FAT (Type, Routine & Vibration Test) for E-motor 2,5 MW and 6,5 MW
- **Items:** Several E-Motors: SCHO_ E-motor Sch_2,5 MW and 6,5 MW

Date of Inspection: 09/02/2021
Supplier / Vendor / Manufacturer: Enderss+Hauser
Client: HME OVERSEAS DMCC China Oil HBP
Scope of Inspections: Following inspections were performed according to contract and above referred documents during the stage of: Visual inspection
Items: Pressure & Level Transmitters

- **Date of visits:** Long Project lasts period >> June 2022 ~ February 2023
- **Supplier / Vendor / Manufacturer:** STADLER GmbH
- **Client:** Deutsche Bahn (German Train)
- **Scope of Inspections:** Production Monitoring
- **Items:** New Trains of Berlin

- **Date of visits:** June 2022
- **Supplier / Vendor / Manufacturer:** RST Rail SystemTesting GmbH
- **Client:** RITZ Instrument Transformers GmbH
- **Scope of Inspections:** Testing the Outdoor & Indoor Busbar system Units in a Dust Chamber and after words in a Water schwer & water Jet stream.
- **Items:** Indoor and Outdoor busbar systems

- **Date of visits:** 03/2022
- **Supplier / Vendor / Manufacturer:** GEA Refrigeration Germany GmbH
- **Client:** HYUNDAI ENG & CONST CO.LTD
- **Scope of Inspections:** Test Run & Performance Test Inspection
- **Items:** Screw Compressor

- **Date of visits:** 03/2022
- **Supplier / Vendor / Manufacturer:** HSE Hennigsdorfer Steel Engineering GmbH
- **Client:** Talgo, 2 E-28290 Las Matas-Madrid, Spain
- **Scope of Inspections:** Welding inspection

- **Items:** Train Wagons Welded Walls

- **Date of visits:** 2019 ~ 2022
- **Supplier / Vendor / Manufacturer:** Sick Engineering GmbH (SICK AG)
- **Client:** Ontras Steinitz, RMG Deutschland, ALWAHA, IRAQ
- **Scope of Inspections:** Tightness Test
- **Items:** Ultrasonic Gas Flow Meter

- **Date of visits:** December 2021
- **Supplier / Vendor / Manufacturer:** Siemens Energy, Berlin
- **Client:** TRACTEBEL Engineering (GDF Suez) BELGIUM
- **Scope of Inspections:**
Verification of the final rotor alignment on the closed gas turbine analogously to Siemens specification.
Correction of prior measurements, which taken before our presence to the inspection.
- **Items:** Gas Turbine

- **Date of visits:** November & December 2021
- **Supplier / Vendor / Manufacturer:** MAN Energy Solutions SE, Berlin, GERMANY
- **Client:** Shanghai Electric Group
- **Scope of Inspections:** Speed and leakage test
- **Items:** 3 Gear Boxes

- **Date of visits:** October 2021
- **Supplier / Vendor / Manufacturer:** Tridelta Meidensha GmbH, Hermsdorf, Germany
- **Client/Project:** RABAI-KILIFI 132 KV POWER GENERATION EVACUATION LINES AND ASSOCIATED SUBSTATIONS
- **Scope of Inspections:** Tests are carried out according to the Routine Tests Procedure for Surge Arresters of Tridelta Meidensha GmbH.
- **Items:** Different types of surge arresters.

- **Date of visits:** September & October 2021
- **Supplier / Vendor / Manufacturer:** Kompressorenbau Bannewitz GmbH
- **Client:** Bouygues Energies & Services
- **Scope of Inspections:** Witnessed Non-destructive examination for parts, Hydrostatic Test for Bearing Housing, Running Test
- **Items:** 4 turbo compressors

- **Date of visits:** September 2021
- **Supplier / Sub-Vendor / Manufacturer:** FSM Frankenberger & WSM Walower Stahl & Maschinenbau GmbH
- **Client:** WTE / Essen (Project: TUBLI STP Expansion Phase 4, Wastewater and Incineration Project (Project-No. FSM: 2251))
- **Scope of Inspections:** Final Machine Assembly Inspection Tests.
- **Items:** 3 off SPF300, 1 off SF300, 2 off SF400, 2 off SPW 350

- **Date of visits:** August 2021
- **Supplier / Vendor / Manufacturer:** MAN Berlin
- **Client:** Thyssenkrupp Industrial Solutions AG, Business Unit Chemical & Process Technologies, Dortmund
- **Scope of Inspections:** Mechanical Running Test / Factory Acceptance Test
- **Items:** Air Compressor Unit, Type: RG 56-6

- **Date of visits:** 09~13/08/2021
- **Supplier / Vendor / Manufacturer:** Siemens Energy, Dresden, Germany
- **Client:** Ministry of Electricity of IRAQ
- **Scope of Inspections:** Factory Acceptance Test
- **Items:** 2 off Single Phase Power Transformer, Type NDPN 7956D

- **Date of visits:** 07/06/2021
- **Supplier / Vendor / Manufacturer:** Siemens Energy, Berlin, Germany
- **Client:** Bureau Veritas Turkey / TEIAS
- **Scope of Inspections:** Factory Acceptance Test according to IEC Publ. 62271-1, IEC Publ. 62271-100
- **Items:** Circuit Breaker type: 3AP2FI-1S, 420,0 kV

- **Date of visits:** 28 / 06 / 2021
- **Supplier / Vendor / Manufacturer:** Tridelta Meidensha GmbH, Hermsdorf, Germany
- **Client:** Power Grid Company of Bangladesh Ltd
- **Scope of Inspections:** Factory Acceptance Test.
- **Project:** Procurement of different types Silicon Composite Surge Arrester (400KV, 230KV, 132KV & 33KV) for different Grid Substations under Transmission-1 & 2, PGCB
- **Routine Test of Surge Arresters:**
 - SBKC 390/SH-II
 - SBKC 192/SM-II
 - SBKC 120/SM-II
 - SBKC 30/SM-II

- **Date of visits:** 2021
- **Supplier / Vendor / Manufacturer:** Büsch Armaturen Geyer GmbH
- **Client:** Dutco Tennant
- **Scope of Inspections:** Pressure and dimensional tests, as well Visual Inspection.
- **Items:** Penstock in deferent dimensions.

- **Date of visits:** 2021
- **Supplier / Vendor / Manufacturer:** MAN + AviComp, Leipzig
- **Client:** Shell Exploration and Production Company
- **Scope of Inspections:** FAT, wiring system, dimensional and visual check, etc.
- **Items:** Unit Cabinet Panel + Machine Monitoring System

- **Date of visits:** 2021
- **Supplier / Vendor / Manufacturer:** Tridelta Meidensha GmbH, Hermsdorf, Germany
- **Client:** different Clients
- **Scope of Inspections:** FAT for Arrestors
- **Items:** Surge Arrestors

- **Date of visits:** December 2020
- **Supplier / Vendor / Manufacturer:** Siemens Energy, Berlin, Germany
- **Client:** Ministry of Electricity (MoE), Iraq
- **Scope of Inspections:** **Factory** Acceptance Test according to IEC Publ. 62271-1, IEC Publ. 62271-100
- **Items:** Circuit Breaker type: 3AP1FG

- **Date of visits:** 2020 ~ 2021
- **Supplier / Vendor / Manufacturer/ Tester:** IPH, Berlin, Germany
- **Client:** Deltatek Offshore
- **Scope of Inspections:**
 - NON-ELECTRICAL TYPE TESTS: Mechanical characteristics/properties Tests of **XLPE** and **PE** before and after ageing.
 - ELECTRICAL TYPE TESTS: Heating cycle test 95 °C < Θ conductor < 100 °C.
 - Water penetration test
- **Items/Material:**
 - Test object for type test (Electrical):
CU 3x 95mm² 8.7/15 (17.5) kV XLPE power cable, Test samples: 1 main loop of at least 15 meter between the ends of the sheath, 1 reference loop of at least 5 meter between the ends of the sheath, Bending length: ca. 50 meter, Cable weight in air: 15.6 kg/m.
 - Test object for type test (NON-Electrical):
CU 3x 95mm² 8.7/15 (17.5) kV XLPE power cable, Test samples: 1 loop of at least 6 meter for non-electrical testing, 1 loop of at least 4 meter for water-penetration test.

- **Date of visits:** 2020 ~ 2021
- **Supplier / Vendor / Manufacturer:** GEBR Vibration Control, Berlin, Germany
- **Client:** Bouygues Energies & Services
- **Scope of Inspections:** Coating thickness, Welding works and NDE
- **Items:** Vibration Isolation System (VIS)

- **Date of visits:** September – 2020 ~ 2021
- **Supplier / Vendor / Manufacturer:** Siemens Gas and Power, Berlin
- **Client:** HARBIN Electric International Company Limited ~ and other Clients & Projects
- **Scope of Inspections:** Verification of the final rotor alignment on the closed gas turbine analogously to Siemens specification.
- **Items:** Gas Turbine

- **Date of visits:** September - 2020
- **Supplier / Vendor / Manufacturer:** Schraubenwerk Zerst, Germany
- **Client:** L&T Mumbai Metro Project
- **Scope of Inspections:** Witnessing Tests, which were done satisfactorily,

Final Inspection:
 - Visual examination & dimensional check.
 - Witnessed Dimensional and Mechanical-Material test,
 - Verification of materials to Drawings
- Verification of Calibration certificates of all equipment used for measurements.
- **Items:** Sleeper Screw Ss 35 and Washer Uls 7

- **Date of visits:** August - 2020
- **Supplier / Vendor / Manufacturer:** PHE Borsig, Berlin
- **Client:** BUREAU VERITAS VIETNAM LTD
- **Scope of Inspections:** Hydrostatic & Pneumatic pressure Tests (pressure test of outer and inner pipes), material stamp check, nameplates check.
- **Items:** Quench Exchangers

- **Date of visits:** July - 2020
- **Supplier / Vendor / Manufacturer:** Siemens, Berlin
- **Client:** KEC Abu Dhabi / ADNOC-ABU DHABI NATIONAL OIL CO. / AE
- **Scope of Inspections:**

Applied test specifications: Acceptance Test according to IEC 60099-4, edition 3.0 (2014).

❖ Tests performed:

- Reference voltage measurement
- Partial discharge test
- Residual voltage test
- Counting test of surge counter at minimum current
- Counting test of surge counter at maximum current
- Check of leakage current meter / operation test on surge counter
- Visual and dimensional check.
- Items: Arrester Type: 3EL1 049-1PH21-4XR1-Z and Surge Monitor / Counter Type: 3EX5 050-7

- **Date of visits:** 2020
- **Supplier / Vendor / Manufacturer:** J.D. Neuhaus GmbH &CO.KG, Witten, Germany
- **Client:** LLC LUKOIL-Nizhnevolzhskneft
- **Scope of Inspections:** FAT, weighing, Visual Inspection (Online-Remote Inspection).
- **Items:** 2x JDN Underslung Travelling Crane ELK 10 t

- **Date of visits:** 2019-2020
- **Supplier / Vendor / Manufacturer:** BorgWarner, Sweden AB, PowerDrive Systems
- **Client:** Zhejiang Huashuo Technology Co., Ltd., China
- **Scope of Inspections:** D7u, (Inspection of valve chamfers) and Micro-Measurement Inspection
- **Items:** Car Cover Housing

- **Date of visits:** 2019 ~ 2021
- **Supplier / Vendor / Manufacturer:** Siemens Berlin (Huttenstrasse)
- **Client:** SAMSUNG ENGINEERING CO., LTD. ~ and other Clients & Projects
- **Scope of Inspections:** Factory Acceptance Tests, Overspeed Test, Final Balancing and Rotor alignment Tests
- **Items:** 220kV Gas-Insulated, Switchgear

- **Date of visits:** 2019 ~ 2020 ~ 2021
- **Supplier / Vendor / Manufacturer:** Siemens Berlin
- **Client:** Haya Dubai, ~ and other Clients & Projects
- **Scope of Inspections:** Factory Acceptance Tests, Overspeed Test, Final Balancing and Rotor alignment Tests
- **Item:** Gas Turbines

- **Date of visits:** 2019
- **Supplier / Vendor / Manufacturer:** Energietechnik Essen GmbH
- **Client:** GE - General Electric
- **Scope of Inspections:** Pre-Forging, identification check, check of holding Time and forging Temperature
- **Items:** HINKLEY POINT C, RETAINING RING

- **Date of visits:** 2019
- **Supplier / Vendor / Manufacturer:** Siemens Turkey / 35KM shatra-Rifai 132 kV, IRAQ
- **Client:** Siemens Berlin
- **Scope of Inspections:** Factory Acceptance Tests
- **Items:** Circuit Breaker Type: 3AP1FG And Arrester Type: 3EP4 120-2PJ31-1DR1-Z

- **Date of visits:** 2019
- **Supplier / Vendor / Manufacturer:** KSB, Halle
- **Client:** CCC, Abu Dhabi, P1186 – EPIC for Hamad International Airport Jet Pumps
- **Scope of Inspections:** Factory Acceptance Tests

- **Items:** Jet Pumps KRTK 350-420/1006WNG1-S and KRTK 150-315/304WEG1-S IE3

- **Date of visits:** 2019
- **Supplier / Vendor / Manufacturer:** GEA Refrigeration GmbH
- **Client:** China Tianchen engineering corporation
- **Scope of Inspections:** Visual and tightness test
- **Items:** Screw Compressors

- **Date of visits:** 2019
- **Supplier / Vendor / Manufacturer:** ARROW VALUE RECOVERY GERMANY GMBH
- **Client:** Dell
- **Scope of Inspections:** Audit
- **Items:** Dell RSDS EDP Audit Protocol

- **Date of visits:** 2018 ~ 2021
- **Supplier / Vendor / Manufacturer:** BGH Edelstahl Freital GmbH
- **Client:** GE - General Electric/ / HINKLEY POINT C
- **Scope of Inspections:** VT Visual test, US ultrasonic test, Geometric & Dimensional Inspection, Identification Marking
- **Items:** 20 Forged Bar FL 154x102 / X22CrMOV12-1

- **Date of visits:** 2018 ~ 2019
- **Supplier / Vendor / Manufacturer:** Siemens, Berlin
- **Client:** Republique Algerienne / Ministry of Energy and Mines / Regulatory Authority of Hydrocarbons / (SINOHYDRO CORPORATION LIMITED)
- **Scope of Inspections:**
 - Reference Voltage** measurement Test at reference current 3 mA on the complete arrester.
Test Procedure: Increase of Voltage up to a Value (reference Voltage) that the reference current 3 mA (peak value) is flowing through the complete arrester. Min. / Max. limiting value of measurement of reference voltage: 63 kV / 69 kV.
 - Partial discharge** Test at the complete arrester at a test voltage of 50.4 kV (=1.05 U_c, complete arrester).
Test Procedure: Increase of Voltage up to the complete arrester rated voltage 60 kV and decrease within 10s to the test voltage 50.4 kV and measurement of partial discharge Limiting value of partial test <10pC.
 - Tightness Test:** Leakage test at the complete arrester using the Diaphragm camber method
 - Residual Voltage** at complete arrester: Measurement of lightning impulse residual voltage at 10 kA, 8/20 μs.
Max. Limiting value of residual voltage: 150 kV.
- **Items:** Arrester Type: 3EP5 060-2PJ31-1DB1-Z

- **Date of visits:** 2018
- **Supplier / Vendor / Manufacturer:** Siemens, Berlin
- **Client:** Ministry of Electricity (MOE) IRAK and other clients
 - **Scope of Inspections:**
 - Measurement of mechanical operating values
 - Undervoltage function
 - Auxiliary switch signal
 - Voltage drop of the main circuit
 - Control circuits (2kV test)
 - Recharging time
 - Specified limits check
 - High Voltage test
 - Rating plate check

- **Items:** Circuit Breakers type 3AP1FG

- **Date of visits:** 2018
- **Supplier / Vendor / Manufacturer:** Siemens, Berlin
- **Client:** Electricity Generating Authority of Thailand
- **Scope of Inspections:**
Mechanical Tests of the circuit breaker
Mechanical Tests of the disconnecter / earthing switch
High voltage test and PD-measurement
- **Items:** Switch Gear Type 8DN9 / 245kV

- **Date of visits:** 2018 ~ 2021
- **Supplier / Vendor / Manufacturer:** Siemens AG, Görlitz
- **Client:** YANCHANG
- **Scope of Inspections:** Steam turbines OUTER CASING Pressure test
- **Items:** Steam turbines

- **Date of visits:** 2018
- **Supplier / Vendor / Manufacturer:** NEA SEA NEUMAN & ESSER GmbH Maschinenfabrik Wurzen GmbH
- **Client:** HQSM / HRC Malaysia
- **Scope of Inspections:** Cylinder Leakage & Hydro Test of Bare Compressors
- **Items:** Bare Compressors

- **Date of visits:** 2017 ~ 2018
- **Supplier / Vendor / Manufacturer:** Pro Beam, Burg, Germany
- **Client:** Nucleare Energia Group Ansaldo/Mangiarotti/Walter tosto
- **Scope of Inspections:**
Electron Beam Welding in Vacuum Chamber
Grinding, TIG- remelting, VT Visual Inspection after Welding, Roughness Testing, PT Penetrate testing, Radiographic testing.
- **Items:** Welding Process Certification

- **Date of visits:** 2017 ~ 2021
- **Supplier / Vendor / Manufacturer:** SIEMENS Berlin
- **Client:** China Machinery Engineering Corp. ~ and other Clients & Projects
- **Scope of Inspections:** Balancing and over Speed tests
- **Items:** GAS TURBINE

- **Date of visits:** 2017 ~ 2019
- **Supplier / Vendor / Manufacturer:** Borsig Process Heat Exchanger GmbH, Berlin/
- **Client:** SP Olefins Chemicals
- **Scope of Inspections:**
Pressure tests (Hydro & pneumatic tests),
visual and dimensional checks
Check for Dryness after the hydro test.
- **Items:** Taixing-Ad/U, USX Quench Exchanger

- **Date of visits:** 2017
- **Supplier / Vendor / Manufacturer:** Sosta GMBH, Könnern, Germany
- **Client:** Petrofac

- **Scope of Inspections:**
Mechanical tests: 7 sets of specimens were tested; each set took 30 to 40 Minutes. Each set consists of: 1 corrosion specimen, 1 Chemical Analyze specimen, 1 Hardening specimen, 2 Bending specimens and 1 Tensile specimen. 6 of 7 tests are passing the test, one fails.
visual and dimensional checks
The Documents are reviewed and stamped.
Dimensions Checked, Markings Checked and additional Marking: Country of Origin "Germany", Color codes Green and Beige.
- **Items:** Welded Stainless Steel Pipes

- **Date of visits:** 2017-2018
- **Supplier / Vendor / Manufacturer:** VDL Delmas, Berlin
- **Client:** Siemens AG
- **Scope of Inspections:**
Pressure tests (Hydro & pneumatic tests),
Visual and dimensional checks
Check for Dryness after the hydro test.
Leakage Test: Shell & Tube Sides, Requirements fulfilled, and found acceptable.
Test medium: Water, Test duration: 1 Hour, Test temperature: 20°C.
Shell side test pressure: 0,7 bar,
Tube side test pressure: 71 bar.
Main skid and connection dimensions checked (spot check) according to drawing, measured values are noted in the attached drawing. Module visual inspected and KKS labeling, name and identification plates checked (spot check). Coating thickness measured (min. 80 µm, spot check). Documents according to the QST reviewed and found acceptable.
- **Items:** Gland steam condensers

- **Date of visits:** 2017 - 2018
- **Supplier / Vendor / Manufacturer:** KSB AG, 06110 Halle
- **Client:** Panorama Contracting & Engg Services
- **Scope of Inspections:**
Packing inspection
Photography, reviewing and signing documents.
- **Items:** Pumps

- **Date of visits:** 2017 - 2018
- **Supplier / Vendor / Manufacturer:** Siemens AG
- **Client:** PETROLEUM DEVELOPMENT OMAN
- **Scope of Inspections:**
The 2 run out tests were done successfully.
The Measurements were in the tolerance range.
Measuring Instruments are still properly calibrated.
Test Report/Certificates were issued and signed.
- **Items:** Stator Windings

- **Date of visits:** 2017
- **Supplier / Vendor / Manufacturer:** MSA Produktion Berlin
- **Client:** MSA Production Deutschland GmbH
- **Scope of Inspections:**
Inspection of 5% material scope of delivery / purchase order in accordance to QAP inspected with successful results.
Scope of delivery final complete manufactured and in workshop stored; for witness checks during inspection for every product 5% of material selected.
- **Items:** Materials, J3 Program Reliance India

- **Date of visits: 2017**
- **Supplier / Vendor / Manufacturer: Siemens** Leipzig
- **Client:** AMEC Foster Wheeler
- **Scope of Inspections:**
Visual check of (Numbering, Labeling, Cleanliness).
Oil system cleanliness test acc. API 5th Edition §7.3.3.9
Performance Test acc. ASME PTC 10 1997 type 2
Mechanical Test Run acc. API 617 7th Edition
Noise Level Measurement as reference
Vibration measurement during test
Temperature Measurement
Bearing Inspection
Gas Leakage Test
- **Items:** Nitrogen Compressor Unit

- **Date of visits: 2017**
- **Supplier / Vendor / Manufacturer: VELDE** Boilers + Plants, Köthen, Germany
- **Client:** Shell-Gabun
- **Scope of Inspections:**
Final Visual Inspection
Final Review and Check of Documentation
Drawing No.: A1001-00-68170-01, Rev. C
Conformity assessment procedure of the Manufacturer acc. to PED 2014/68/EU
Final check of insulation system.
Hydraulic Pressure Test to 21 bar
- **Items:** Boilers

- **Date of visits: 2017 - 2018**
- **Supplier / Vendor / Manufacturer:** (AMW) Ansaldo Mangiarotti Walter Tosto and Pro-Beam AG & Co. KGaA, Burg
- **Client:** (AMW) Ansaldo Mangiarotti Walter Tosto Ansaldo NUCLEARE Energy Group
- **Scope of Inspections:**
Verification of thickness misalignment and gap at the joint
Measuring Check of the 2 Plates (Coupons), Thickness,
Distances from Zero Point, Measuring the Gab, Misalignments,
Welding, Grinding, TIG remelting, Penetrant Testing, Roughness testing, and Radiographic Testing.
- **Items:** Electron Beam Welding Tests

- **Date of visits: 2017**
- **Supplier / Vendor / Manufacturer: Siemens** Leipzig
- **Client:** AMEC Group Ltd., BV Kuwait
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Dimensional Check
Mechanical testing
- **Items:** Compressor

- **Date of visits: 2013 + 2017**
- **Supplier / Vendor / Manufacturer: Schraubenwerk** Zerbst GmbH, Zerbst
- **Client:** Schwihag AG
- **Scope of Inspections:**
Visual examination and dimensional checks (Measuring Screws),
Witnessed Tensile and Bending tests,
Measured the Zinc Coating Layer thickness of the five test pieces.

- **Items:** Sleeper Screws Sets

- **Date of visits: 2017**
- **Supplier / Vendor / Manufacturer:** Siemens AG + Dresser-Rand
- **Client:** Siemens Pte Ltd., Singapore
- **Scope of Inspections:**
Combined Performance Tests of:
Transformer, item No.: 834-VTR-301,
Converter, item No.: 834-VFD-301,
RCU (Re-Cooling Unit), item No.: 834-RCU-301 and Motor, item No.: 834-KM-301
- **Items:** Taweelah Gas Compressor Station Project

- **Date of visits: 2017**
- **Supplier / Vendor / Manufacturer:** Meisterlaser/ Exklusiv Laser GmbH
- **Client:** Meisterlaser/ Exklusiv Laser GmbH
- **Scope of Inspections:** Function test
- **Items:** Laser engraving and cutting machine

- **Date of visits: 2011-2012**
- **Supplier / Vendor / Manufacturer:** Silbitz Guss GmbH
- **Client:** MAN Augsburg
- **Scope of Inspections:**
Mechanical-Material tests,
Documentation & Dimensional Check
Inspection of casting Parts
- **Items:** Different Marine & Offshore Components

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer:** MAN Diesel & Turbo/ Augsburg
- **Client:** Indian marine, Shipyards & others
- **Scope of Inspections:**
FAT (Functional & Factory acceptance tests for Gear Boxes, Turbines)
Mechanical-Material tests,
Verification, inspection and Reporting of Marine & Machine Components including casting Parts.
- **Items:** MAN Diesel & Turbo also designs & Manufactures gas turbines of up to 30 MW/ Gear Casings, Turbo Chargers & diff. Marine Components, Control Panels / Switchboards

- **Date of visits: 2011**
- **Supplier / Vendor / Manufacturer:** MAP Maschinen- & Apparatebau Produktions GmbH
- **Client:** Indian marine, Shipyards & others
- **Scope of Inspections:**
Final Inspection
Mechanical-Material tests,
Visual check of welding seams of pedestal adapter
Dimensional & documentation check
Inspection of casting Parts
- **Items:** Motor and generator housings for powerful electric drive systems

- **Date of visits: 2012 - 2015**
- **Supplier / Vendor / Manufacturer:** RENK, Augsburg, Germany
- **Client:** Indian Marine & Shipyards
- **Scope of Inspections:**
FAT (Factory acceptance tests), Functional / Performance Test

- NDT, Filter Check
- Mechanical-Material Tests,
- Documentation check
- Inspection of casting Parts (for example: Casings of Gear Boxes)
- **Items:** Gear Boxes (reduction gearing)

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer: RENK**, Rheine, Germany
- **Client:** Renk Augsburg
- **Scope of Inspections:**
Mechanical-Material tests,
Documentation & Dimensional Check
- **Items:** Gear Couplings

- **Date of visits: 2011 - 2015**
- **Supplier / Vendor / Manufacturer: Alfing Kessler**, Aalen, Germany
- **Client:** Voith Schneider & Shipyards
- **Scope of Inspections:**
Mechanical-Material tests,
Documentation & Dimensional Check
- **Items:** Propeller Blades and Crankshafts

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer: Pleissner Guss**, Herzberg am Harz, Germany
- **Client:** Renk Augsburg
- **Scope of Inspections:**
Mechanical-Material tests,
Documentation & Dimensional Check
Inspection of casting Parts (for example: Casings of Gear Boxes)
- **Items:** Driving Sleeve & thrust plates

- **Date of visits: 2013**
- **Supplier / Vendor / Manufacturer: Günther+Schramm**, Oberkochen, Germany
- **Client:** Renk Augsburg
- **Scope of Inspections:**
Mechanical-Material tests,
Documentation & Dimensional Check
- **Items:** Bevel Pinions

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: KRAL**, Lustenau, Austria
- **Client:** Shipyards
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Dimensional Check
- **Items:** Pumps & Flowmeters

- **Date of visits: 2013 - 2014**
- **Supplier / Vendor / Manufacturer: Karl Diederichs**, Remscheid, Germany
- **Client:** Renk & others
- **Scope of Inspections:**

Mechanical-Material tests,
Documentation & Dimensional Check
Inspection of casting Parts (for example: Casings of Gear Boxes)

- **Items:** Bevel Gears

- **Date of visits:** 2011 - 2012
- **Supplier / Vendor / Manufacturer:** Zollern / Herbertingen / Germany
- **Client:** Different Clients
- **Scope of Inspections:**
FAT (Factory acceptance tests) Functional / Performance Test
Mechanical-Material tests,
Documentation & Dimensional Check
- **Items:** Winch Gears

- **Date of visits:** 2011 - 2012
- **Supplier / Vendor / Manufacturer:** Teufelberger, Wels, Austria
- **Client:** Shipyards
- **Scope of Inspections:**
Mechanical-Material tests (Destructive testing is a tensile test performed on a test piece of a rope to determine its ultimate tensile strength)
Dimensional & documentation check
- **Items:** Winch Ropes

- **Date of visits:** 2011 - 2015
- **Supplier / Vendor / Manufacturer:** Leistritz Pumps, Nürnberg
- **Client:** Renk & others
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Dimensional Check
- **Items:** Screw spindle pumps

- **Date of visits:** 2011 - 2012
- **Supplier / Vendor / Manufacturer:** WILO, Hof
- **Client:** Shipyards
- **Scope of Inspections:**
Hydrostatic Pressure Tests
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Supsea Pumps

- **Date of visits:** 2011 - 2012
- **Supplier / Vendor / Manufacturer:** Silbitz Gus, Silbitz
- **Clients:** MAN & others
- **Scope of Inspections:**
Mechanical-Material tests,
Visual check of welding seams of pedestal adapter
Dimensional & documentation check
Inspection of casting Parts for Offshore Industry.
- **Items:** Castings, Forgings & Connecting rods

- **Date of visits:** 2011 - 2012
- **Supplier / Vendor / Manufacturer:** Zirro, Schrobenhausen, Germany

- **Clients:** Renk & MAN
- **Scope of Inspections:**
Mechanical-Material tests,
Visual check of welding seams of pedestal adapter
Dimensional & documentation check
Inspection of casting Parts (for example: Casings of Gear Boxes)
- **Items:** Gear Casings

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer:** HYDAC International, Sulzbach-Saar, Germany
- **Clients:** Renk & others
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Duplex filters

- **Date of visits: 2014 - 2015**
- **Supplier / Vendor / Manufacturer:** WILHELM SANDER FERTIGUNG GmbH, Bremen, Germany
- **Client:** Pipavav Defence and Offshore Engineering Company Ltd., India
- **Scope of Inspections:**
Visual and dimensional inspection.
Reviewed Valves test documentations
Functional Test including transfer between Valves and Cabinet by simulation, other tests and trials in accordance with Factory Acceptance Protocol,
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Remote controlled Valve System

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer:** Hoerbiger, Wien, Austria
- **Clients:** Renk & others
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Valves

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer:** Voestalpine, Linz, Austria
- **Client:** Different Clients
- **Scope of Inspections:**
Mechanical-Material tests,
Documentation & Dimensional Check
- **Items:** Steel plates

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer:** Geislinger, Hallwang, Austria
- **Client:** Different Clients
- **Scope of Inspections:**
Mechanical-Material tests,
Documentation & Dimensional Check
- **Items:** Couplings & Flywheels

- **Date of visits: 2011 - 2015**
- **Supplier / Vendor / Manufacturer: Elwa / Maisach / Germany**
- **Client:** Different Clients
- **Scope of Inspections:**
Visual examination, dimensional check, verification scheme of connection.
Pressure test of shell on completion of fabrication.
High Voltage test. Insulation Resistance before and after HV test.
Electrical functional test
- **Items:** Cooling & Heating Units

- **Date of visits: 2011 - 2015**
- **Supplier / Vendor / Manufacturer: Allweiler, Radolfzell, Germany**
- **Client:** Renk & Different Clients
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Pumps

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: BWB, Burgau, Germany**
- **Client:** Different Clients
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Pressure vessels

- **Date of visits: 2011 - 2015**
- **Supplier / Vendor / Manufacturer: GEWES, Stadtilm, Germany**
- **Client:** Different Clients
- **Scope of Inspections:**
Mechanical-Material tests,
Visual check of welding seams of pedestal adapter
Dimensional & documentation check
- **Items:** Crankshafts

- **Date of visits: 2011 - 2015**
- **Supplier / Vendor / Manufacturer: SHW / Aalen / Germany**
- **Client:** Different Clients
- **Scope of Inspections:**
Hydrostatic Pressure Test
Mechanical-Material tests,
Dimensional & documentation check
Inspection of casting Parts (for example: Gear Casings)
- **Items:** Castings of Gear Box Casings

- **Date of visits: 2011 - 2013**
- **Supplier / Vendor / Manufacturer: Siemens, Nürnberg, Germany**
- **Client:** Different Clients
- **Scope of Inspections:**
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Electric Motors

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer: ATB Schorch GmbH, Mönchengladbach**
- **Client:** Schottel
- **Scope of Inspections:**
Visual examination, Verification of materials to Drwg., Witnessed Type test, Witnessed Insulation test, Witnessed overload test at 160% for 1 minute, Verification of Calibration certificates of all equipments used for measurements.
- **Items: Electric Motor**

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: Deutz, Ulm**
- **Client:** Different Clients
- **Scope of Inspections:**
Functional / Performance Test
Filter Check
Documentation & Dimensional Check
- **Items:** Diesel Motors

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: Max Weishaupt, Schwendi, Germany**
- **Client:** Different Clients
- **Scope of Inspections:**
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Brenner

- **Date of visits: 2012 - 2015**
- **Supplier / Vendor / Manufacturer: Voith Turbo, Heidenheim, Germany**
- **Client:** Indian Marine, Shipyards & others
- **Scope of Inspections:**
FAT (Factory acceptance tests),
NDT & Mechanical-Material Tests,
Documentation check
- **Items:** Voith Schneider Propellers

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer: Bosch Rexroth, Lohr am Main, Germany**
- **Client:** Renk & Different Clients
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Manifolds

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: GWK & WSW, Wildau, Germany**
- **Client:** Different Clients
- **Scope of Inspections:**
Mechanical-Material tests,
NDT & Visual check of welding seams of pedestal adapter
Dimensional & documentation check
- **Items:** Crankshafts

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: Bosch Rexroth** / Elchingen / Germany
- **Client:** Renk & Different Clients
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Documentation & Dimensional Check
- **Items:** Pumps

- **Date of visits: 2011 - 2014**
- **Supplier / Vendor / Manufacturer: Sternberg GmbH**, Hohenstein-Ernstthal
- **Client:** Voith Turbo Schneider Propulsion, Heidenheim
- **Scope of Inspections:**
Visual inspection & Check of thread dimensions tolerances.
Check of thread pitch with Gauge.
Review of 3.2 material Certificates from mill including ultrasonic test.
Review of MPI test Certificates.
- **Items:** Special Screws

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: Diepa**, Neustadt bei Coburg, Germany
- **Client:** Shipyards
- **Scope of Inspections:**
Mechanical-Material tests (Destructive testing is a tensile test performed on a test piece of a rope to determine its ultimate tensile strength)
Dimensional & documentation check
- **Items:** Wire Ropes

- **Date of visits: 2012**
- **Supplier / Vendor / Manufacturer: GEA ECO** / Saarstedt / Germany
- **Client:** Voith Turbo Schneider Propulsion, Heidenheim
- **Scope of Inspections:**
Pressure Test
Dimensional Check
- **Items:** Heat exchangers

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer: HS-Cooler GmbH**, Wittenburg
- **Client:** Voith Turbo Schneider Propulsion, Heidenheim
- **Scope of Inspections:**
Pressure Test
Dimensional & Documentation Check
- **Items:** Heat Exchangers

- **Date of visits: 2013 - 2014**
- **Supplier / Vendor / Manufacturer: Jahnel-Kestermann**, Bochum
- **Client:** Voith Turbo Schneider Propulsion, Heidenheim
- **Scope of Inspections:**
Mechanical-Material Tests, Documentation check
- **Items:** Helical gear units

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer: Rickmeier GmbH, Balve, Germany**
- **Client:** Voith Turbo Schneider Propulsion, Heidenheim
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Dimensional Check
- **Items:** Gear pumps

- **Date of visits: 2013**
- **Supplier / Vendor / Manufacturer: VOITH TURBO GMBH & CO. KG, Crailsheim, Germany**
- **Client:** Voith Turbo Schneider Propulsion, Heidenheim
- **Scope of Inspections:**
Visual examination & dimensional check of components.
Witnessed Mechanical-Material Tests
Verification of relevant materials to approved Drwg including component dynamic balancing.
Centrifugal test with oil filled.
Tightness test with heating up to 100 °C centrifugal action at 1600 rpm. Coupling tight, running smooth.
Centrifugal speed test at 1920 rpm for 5 minutes.
Verification of Calibration certificates of all equipments used for measurements
Visual examination & dimensional check of components.
Witnessed Mechanical-Material Tests
Verification of relevant materials to approved Drwg including component dynamic balancing.
Centrifugal test with oil filled.
Tightness test with heating up to 100 °C centrifugal action at 1600 rpm. Coupling tight, running smooth.
Centrifugal speed test at 1920 rpm for 5 minutes.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Voith Turbo couplings, Dolphin Project

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: Netzsch, Waldkraiburg, Germany**
- **Client:** Renk
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Dimensional Check
- **Items:** Pumps

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: / Speck Triplex, Geretsried, Germany**
- **Client:** Renk
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Dimensional Check
- **Items:** Pumps

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: Dickow, Waldkraiburg, Germany**
- **Client:** Renk
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Dimensional Check

- **Items:** Pumps

- **Date of visits:** 2012
- **Supplier / Vendor / Manufacturer:** Palfinger, Friedburg, Austria
- **Client:** Shipyards
- **Scope of Inspections:**
Visual check of welding seams of pedestal adapter
Shop test / FAT (Functional / Performance Test)
Documentation check
- **Items:** Cranes

- **Date of visits:** 2012
- **Supplier / Vendor / Manufacturer:** STABA, Pegnitz, Germany
- **Client:** Renk
- **Scope of Inspections:**
Pressure Test
Functional / Performance Test
- **Items:** Valves

- **Date of visits:** 2011 - 2012
- **Supplier / Vendor / Manufacturer:** Kolmeder / Ergolding / Germany
- **Client:** Renk Augsburg
- **Scope of Inspections:**
Visual check of welding seams of pedestal adapter
documentation check
Inspection of casting Parts (Casings of Gear Boxes)
- **Items:** Gear Box-Casings

- **Date of visits:** 2011 - 2013
- **Supplier / Vendor / Manufacturer:** MTU, Friedrichshafen, Germany
- **Client:** Indian Shipyards
- **Scope of Inspections:**
Factory acceptance tests
Functional / Performance Test
- **Items:** Engines, Electrical Panel

- **Date of visits:** 2013 - 2015
- **Supplier / Vendor / Manufacturer:** ZF, Friedrichshafen, Germany
- **Client:** Indian Shipyards
- **Scope of Inspections:**
FAT (Factory acceptance tests) & Documentation check
- **Items:** Gear Boxes (reduction gearing)

- **Date of visits:** 2013 - 2015
- **Supplier / Vendor / Manufacturer:** Reintjes, Hameln, Germany
- **Client:** WARTSILA & Indian Shipyards
- **Scope of Inspections:**
FAT, Functional / Performance Test
NDT, Filter Check
Mechanical-Material & Pressure Tests,
Documentation check

- **Items:** Gear Boxes (reduction gearing)

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer: Harms,** Magdeburg, Germany
- **Client:** Renk Augsburg
- **Scope of Inspections:**
Mechanical-Material Tests,
Dimensional & documentation check
- **Items:** Bevel gears

- **Date of visits: 2014 - 2015**
- **Supplier / Vendor / Manufacturer: Pameto /** Helsinki / Finland
- **Client:** Rolls-Royce AB, Kristinehamn, Sweden
- **Scope of Inspections:**
Visual inspection & Check of thread dimensions tolerances.
Check of thread pitch with Gauge.
Review of 3.2 material Certificates from mill including ultrasonic test.
Review of MPI test Certificates.
- **Items:** Bolts

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer: Kromet,** Elplag, Poland
- **Client:** Renk Augsburg
- **Scope of Inspections:**
Mechanical-Material tests,
Visual check of welding,
Dimensional & documentation check
Inspection of casting Parts (for example: Casings of Gear Boxes)
- **Items:** Gear Box-Casings

- **Date of visits: 2013 - 2014**
- **Supplier / Vendor / Manufacturer: Damen,** Gdank, Poland
- **Client:** Schottel, Germany
- **Scope of Inspections:**
Process qualification including welding records.
Visual examination, dimensional check.
Verification of materials
Pressure tested to 0.2 bar.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Nozzles-Casings

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer: Schottel GmbH,** Spay, Germany
- **Client:** Indian Shipbuilders
- **Scope of Inspections:**
Visual examination and dimensional check.
Electronic controls and cabinets tested.
Rudder Propeller casing hydraulically tested.
FATs are witnessed as per manufacturer's test protocol
- **Items:** Schottel Rudder Propellers

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer: Stama,** Katowitz, Poland

- **Client:** Renk Augsburg
- **Scope of Inspections:**
Mechanical-Material tests,
Visual check of welding
Dimensional & documentation check
- **Items:** Gear Box-Casings

- **Date of visits: 2011 - 2015**
- **Supplier / Vendor / Manufacturer:** Hammerwerk Erft, Bad muensteifel, Germany
- **Client:** Renk & Different Clients
- **Scope of Inspections:**
Mechanical-Material tests,
Dimensional & documentation check
Inspection of casting Parts.
- **Items:** Bevel Gears

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer:** Boll & Kirch Filterbau, Kerpen, Germany
- **Client:** Renk & Different Clients
- **Scope of Inspections:**
Hydrostatic Pressure Test
Functional / Performance Test
Dimensional Check
- **Items:** Filter Systems

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer:** Liebherr-Werk Nenzing, Nenzing, Austria
- **Client:** Shipyards & Different Clients
- **Scope of Inspections:**
Visual check of welding seams of pedestal adapter
Shop test / FAT (Functional/Performance Test)
Documentation check
- **Items:** Cranes

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer:** Behältertechnik Römer GmbH, Wenden, Germany
- **Client:** Deno Compressors B.V., Krimpen, The Netherlands
- **Scope of Inspections:**
Verification of all materials and welding processes required to approved Drwg.
Visual examination, review of measurement protocols of tested & random re-check.
Witnessed Pressure test with water to 49.5 bar, working pressure 33 bar.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Starting Air Receiver

- **Date of visits: 2013**
- **Supplier / Vendor / Manufacturer:** Schraubenwerk Zerbst GmbH, Germany
- **Client:** Reintjes
- **Scope of Inspections:**
Visual examination & dimensional check.
Witnessed Mechanical-Material test,
Verification of materials to Drwg.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Bolts

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer: SKF** Coupling System AB Hofors, Sweden
- **Client:** GOA Shipyard
- **Scope of Inspections:**
Verification of materials to approved Drwg.
Visual examination, review of measurement protocols offered & random re-check.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Fabricated Propulsion shaft couplings

- **Date of visits: 2013**
- **Supplier / Vendor / Manufacturer: SONDEX**, Winsen, Germany
- **Client:** HYDAC COOLING
- **Scope of Inspections:**
Visual examination,
Documentation & dimensional check
Witnessed Pressure test of 21 bar
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Plate heat exchangers (PHE)

- **Date of visits: 2013 - 2015**
- **Supplier / Vendor / Manufacturer: Vulkan** Couplings, Germany
- **Client:** Vulkan Nederland
- **Scope of Inspections:**
Visual examination & dimensional check.
Verification of materials to approved Drwg.
Witnessed Torsional Static Test to establish adequate bonding strength between elements.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Vulastik-L couplings

- **Date of visits: 2015**
- **Supplier / Vendor / Manufacturer: Stentor Srl**, Curcani, Romania
- **Client:** Forward Engineering SV
- **Scope of Inspections:**
Verification of materials to approved Drwgs & Review material certificates.
Witnessed dimensional measurements according to Drwgs.
Nondestructive testing reports reviewed.
Review of welding process & parameters and welders' qualification.
Witnessed pressure test at 0.2 bar
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Propeller Nozzles

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer: Specma AB**, Örnköldsvik, Sweden
- **Client:** RollsRoyce AB, Sweden
- **Scope of Inspections:**
Visual examination, review of measurement protocols offered & random re-check.
Verification of scheme of connections and materials to approved Drwg.
Verification of crimping and batch numbers on Hydraulic hoses.
Witnessed Pressure testing to 180 bar of hydraulic hoses upon manufacture to 1.5 times the working pressure, and witnessed FAT in accordance with manufacturers protocol.
Settings of various flow control valves, safety and relief devices held by manufacturer reviewed.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** 2 sets of Hydraulic power pack for CPP system and Pumps,

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer: REXNORD ANTRIEBSTECHNIK**, Dortmund
- **Client:** Wärtsilä Finland Oy
- **Scope of Inspections:**
Verification of material to above Drwg and Visual examination.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** BSD-Clamping Hub

- **Date of visits: 2013 - 2014**
- **Supplier / Vendor / Manufacturer: PRODAN** Antriebselemente GmbH, Germany
- **Client:** Reintjes
- **Scope of Inspections:**
Visual examination, dimensional check & verification of materials to approved Drwg.
Witnessed performance Magnetic test for meeting the parameters.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** 2 OFF finished machined Electromagnetically operated clutches / Couplings

- **Date of visits: 2012**
- **Supplier / Vendor / Manufacturer: OLAER INDUSTRIES** GmbH, Blieskastel
- **Client:** VIERECK HYDRAULIK
- **Scope of Inspections:**
Visual examination, dimensional check.
Verification of materials to approved Drwg.
Witnessed Pressure tests
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Accumulators

- **Date of visits: 2014**
- **Supplier / Vendor / Manufacturer: NK** Neuenhauser Kompressorenbau GmbH, Neuenhaus, Germany
- **Client:** Waertsilae, Finland Oy
- **Scope of Inspections:**
Verification of all materials and welding processes required to a pproved d drawings.
Visual examination, review of measurement protocols offered & randorn re~check.
Witnessed Pressure test with water to 50 bar, Workin g p ressure 33 bar.
Verification of Calibration certificates of all equipments used for measurements
- **Items:** Starting Air Receiver

- **Date of visits: 2011 - 2012**
- **Supplier / Vendor / Manufacturer: MAN** Diesel & Turbo / Augsburg
- **Client:** Indian marine, Shipyards & others
- **Scope of Inspections:**
FAT (Functional & Factory acceptance tests for Gear Boxes, Turbines)
Mechanical-Material tests,
Verification, inspection and Reporting of Marine & Machine Components including casting Parts (for example: Casings of Gear Boxes, Turbines, etc...)
- **Items:** Diesel & Turbo also designs and manufactures gas turbines of up to 30 MW/ Gear Casings, Turbo Chargers & diff. Marine Components, Control Panels / Switchboards