

# TTR SERVICES PROFILE



## VISION - MISSION - CORE VALUE

#### **VISION**

Our services becomes the solution of trust for customers.

#### **MISSION**

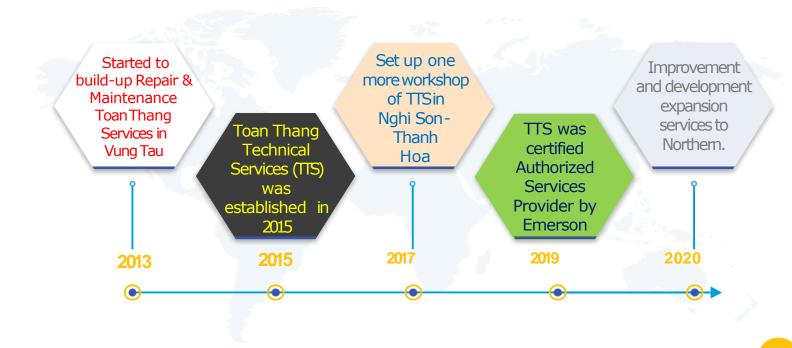
Become the most Valued Service Provider to Clients.

#### **CORE VALUE**

Safety - Quality -Integrity Customer Care

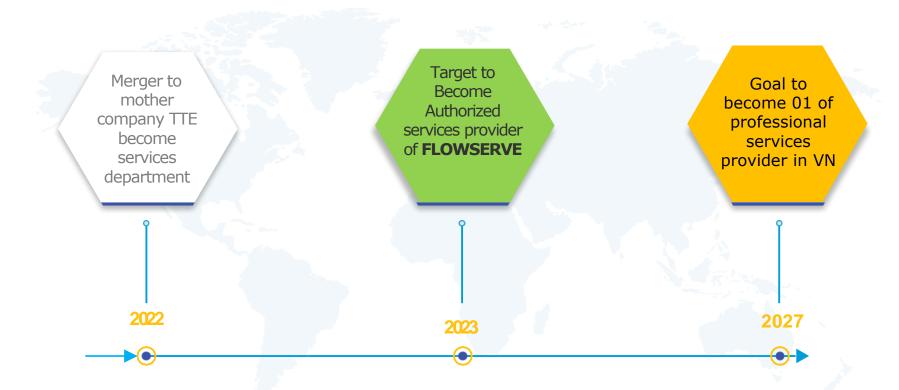


# TIMELINES





# TIMELINES





## **VUNG TAU WORKSHOP**

#### AUTHORIZED SERVICE PROVIDER OF EMERSON (ASP)

Add: Road No.12 Dong Xuyen IZ, Rach Dua Ward, Vung tau City



+84.254.352.2219



+84.254.383 4617



+84.978756060



tinh.av@toanthang.vn







## SERVICES LOCATIONS

## **NGHI SON WORKSHOP**

#### UNDER VUNG TAU MANAGEMENT

# Add: Nghi Son IZ, Tinh Gia district, Thanh Hoa province

- 700m2 workshop
- 5T over head crane
- 2T balancing machine
- Machining shop: lathe, drilling, welding,
   ...
- Test bench up to 12 inches, up to 20 000 psi pressure
- Portable Lapping machine





## SERVICES LOCATIONS

TOAN THANG CERTIFIED SEALS CENTER

#### **MECHANICAL SEAL TECHNICAL & SERVICES**

Address: Tuyet Diem 3 Hamlet, Binh Thuan Commune, Binh Son District, Quang Ngai Tel: (84) 985 864 339 - (84) 907 977 840





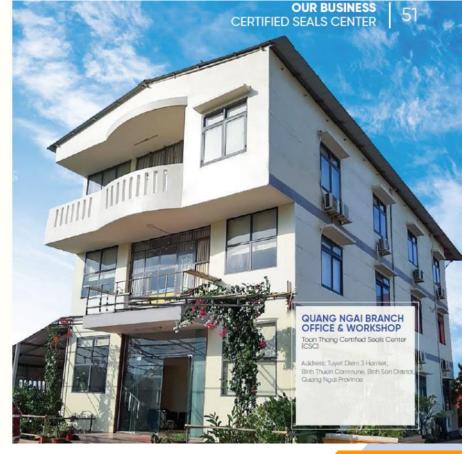
Toan Thang Certified Seals Center (CSC) was formerly Flowserve Quick Response Center (QRC) which was established in 2009.

Toan Thang Engineering Corporation acquired QRC and renamed to Toan Thang Certified Seals Center (CSC) at beginning of 2019 in order to provide world class repair and refurbishment for mechanical seals certified by the OEM.

Workshop Area : 300sqm

Qualified technical team : as per Flowserve's

procedures and requirements.





## SERVICES LOCATIONS

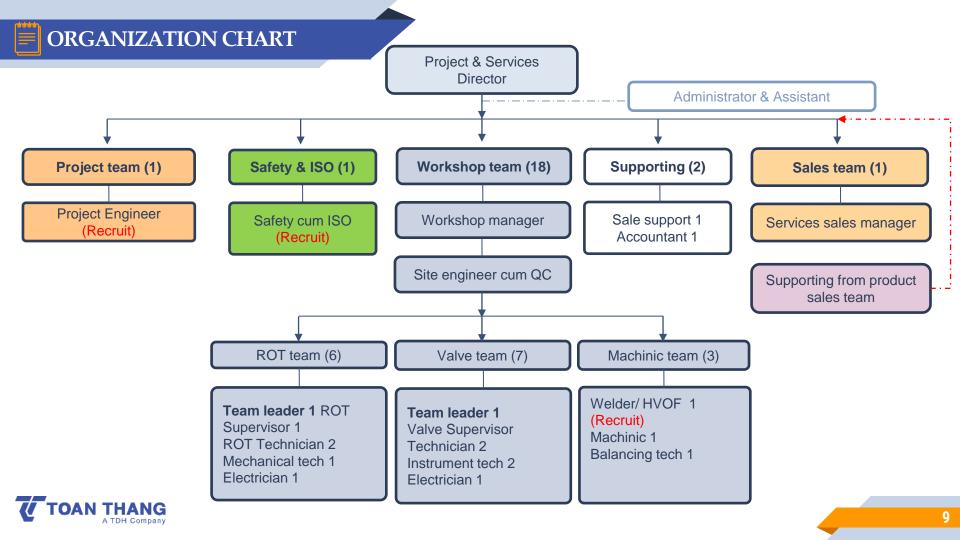
#### TOAN THANG CERTIFIED SEALS CENTER

#### **DUNG QUAT, QUANG NGAI**

- Supported EPC/Binh Son Refinery(BSR) during commissioning/warranty period to repair/RCFA for every seal failure
- Mechanical Seal Upgrades And Exchange Programs
- Mechanical seal Maintenance Contract
- Technical Support
- Field Services
- Mechanical Seal Training Services
- Mechanical Seal Repair, Assembly, Test and
  Maintenance for Flowserve/ John Crane/ AES seal/
  Eagle Burgmann Seal/ ...







### Our management and staffs are committed to:

- ☐ Maintain quality principles and build stronger customer focus.
- ☐ Achieve our commitments for quality, cost, and schedule.
- ☐ Continually Improve our Quality Management System. Conform to ISO 9001:2015 Quality Management Systems, International Standards.





#### TOAN THANG ENGINEERING CORPORATION

11B NGUYEN BINH KHIEM STREET, BEN NGHE WARD, DISTRICT 1, HO CHI MINH CITY, VIETNAM

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and formed to be in accordance with the requirements of the management system standards detailed between

#### ISO 9001:2015

Scope of certification

SUFPLY AND MANAGEMENT OF ENGINEERING SERVICES (TRAINING, INSTALLATION, DOMINISSIONING, REPAIRING, MODIFICATION, UPGRADING, RETROFIT, FIELD-INSPECTION, SKID BUILDING) OF EQUIPMENT & SPARE PARTS IN INDUSTRIAL SECTORS INCLUDING FLOW-METERS, VALVES, REQULATIONS, PUMPS, SEALS, AIR COOLERS, GAS SEPARATIONS, FLARES & BURNERS.

LUU THI MAI HUONG

Conflication Body Audinese: Shi Floor, 66 Prescut Street, London, ET 8HG, United Kingdom Lacet Office: Unit 4.4A, 4th Floor, E-Town 1 Building, 384 Cong How Street, Tan Birth District, His Chi Minh City, Ventram

Further clarifications regarding the scope and validity of this cardinate, and the applicability of the management apcornage/ments, please cold. -inc. 28 din i 2 cold.

1/3







# SERVICES PROVIDING





#### **ROTATING EQUIPMENT SERVICES**

#### 1- Onsite services

- Laser alignment
- Routine maintenance: oil change, filter changing/ cleaning
- Troubleshooting
- Bearing change for small size pump/ compressor
- · Seal plan upgrade, modification
- Seal changing
- Manpower supply
- Installation & commissioning
- Onsite overhaul during plant shutdown or TA



#### **ROTATING EQUIPMENT SERVICES**

#### 2- Workshop services

- Pump/ compressor/ gear box over haul
- Pump/ compressor major repair, maintenance, refurbishment
- Machining spare part: wearing, shaft, bushing, sleeve,....
- Impeller machining
- · Coating for repair/ refurbish: HVOF coating, electro selective plating
- Seal testing
- Mechanical seal repair/retrofit Authorize services center Fls in Quang Ngai
- Bearing changing for mid & big size.
- Gear box bearing housing repair/ reconditioning
- · Shaft straighten





## **ROTATING EQUIPMENT SERVICES**

#### 2- Workshop services (c)

- Pump/ compressor upgrading, modification
- Balancing
- Base frame fabrication, modification
- Pump/ compressor/ skid fabricating, modification



#### **ROTATING EQUIPMENT SERVICES**

#### **Equipment**

- Laser alignment kit
- Pulley alignment kit
- Balancing machine up to 5ton capacity, long bed up to 5,5m
- Machining shop manual and CNC
- HVOF for coating
- 10T overhead crane
- 1000m2 workshop
- Hydraulic bolt tightening up to 11.500 Nm
- Inside/ outside micrometer up to 1000/ 500mm
- Puller master set 50T capacity
- Bearing heater machine up to 600mm diameter bearing





#### **COMPRESSOR SERVICES**

- ➤ Maintenance 2K, 4K, 8K
- > Repair and overhaul
- > Upgrade bundle
- > Dry gas seal replacement

#### **ROTATING EQUIPMENT SERVICES**











#### Axial clearance adjustment



Backlash inspection



#### **ROTATING EQUIPMENT SERVICES**

Screw shaft inspection



Cylinder housing inspection





#### **ROTATING EQUIPMENT SERVICES**

#### **PUMP SERVICES**

- Preventive Maintenance
  - □ 03 Month, 6 month preventive maintenance
    - Carry out alignment check.
    - Collect vibration data as request.
    - Check and fill up lube oil.
    - Other steps as per check sheet.







#### **ROTATING EQUIPMENT SERVICES**



Balancing for pump impeller





Mechanical seal services





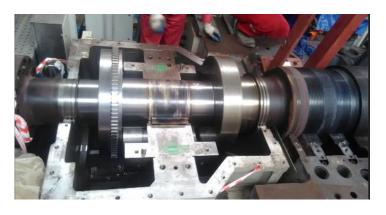


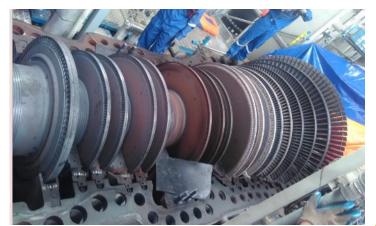


#### **TURBINE SERVICES**

- o Maintenance 2K, 4k,8K.
- Overhaul service.
- o Control system retrofit
- Upgrading

#### **ROTATING EQUIPMENT SERVICES**









#### **VALVES & AUTOMATION SERVICES**

#### 1- Onsite services

- Pre-testing
- Installation
- Calibration
- Function test
- Maintenance
- Repair
- Testing
- Overhaul
- Retrofit/ modification
- · Plant shutdown or Turnaround
- Manpower supply

# Other services for instrument equipment (PT,TT, FT)

- Installation
- Calibration
- Loop test
- Replacement







## **VALVES & AUTOMATION SERVICES**

#### 2- Workshop services

- Spare part machining
- Reconditioning by electro selective plating
- Refurbishment by HVOF
- Major overhaul
- Testing

For valve services TTR can do all types of valve: control valve, on/off valve, motor valve, check valve, manual valve, PSV



#### **VALVES & AUTOMATION SERVICES**

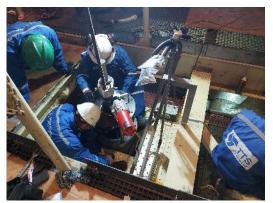
#### **Equipment**

- Test bench various size up to 24 inches
- Manual test kit up to 36 inches
- Lapping machine up to 24 inches
- Fluke 707, 789
- Hart communicator
- Valve link software
- High pressure pump up to 20.000 psi
- Machining shop with manual and CNC
- HVOF and electro selective plating for coating
- Hydraulic bolt tightening up to 11.500 Nm





#### **VALVES & AUTOMATION SERVICES**









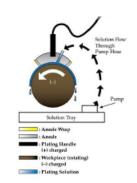


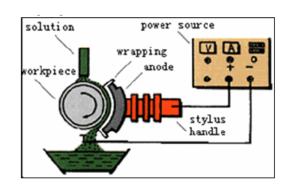
#### **MECHANICAL PART REFURBISHMENT**

#### **ELECTRO SELECTIVE PLATING**

Full name: Selective portable brush electro plating. As electrochemical metallizing method;

- It is the best effective method in the field of recovery surface of metals
- High adhesion by electrochemical
- Can do plate various metals & requirements
- Exactness till micrometer
- Not thermo affect to basic metal
- Can do refurbishment at site







#### **MECHANICAL PART REFURBISHMENT**

#### **ELECTRO SELECTIVE PLATING**



**Before** 



After







#### **MECHANICAL PART REFURBISHMENT**

#### **ELECTRO SELECTIVE PLATING**

## PLATE FOR SPHERE SHAPE



Sunken sphere



Convex sphere (ball valve)

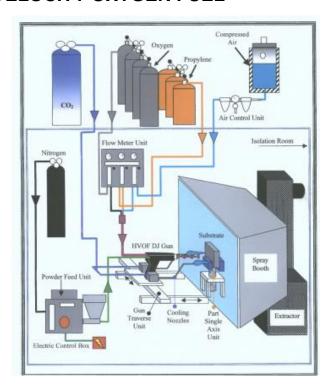


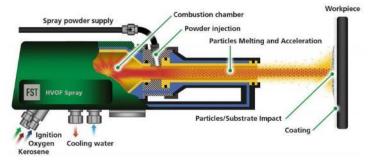
Seat



#### MECHANICAL PART REFURBISHMENT

#### HIGH VELOCITY OXYGEN FUEL











#### **MECHANICAL PART REFURBISHMENT**

#### **HIGH VELOCITY OXYGEN FUEL**

Draduct	Composition	Wear	Corrosion	Oxidation Sulfidation	High Tem-	Restoration
Product	Composition	Resistance	Resistance	Resistance	perature Service	/ Build Up
Diamalloy 4060NS	Cobalt – Chrome Alloy	•	•	•		
Diamalloy 3001	Cobalt – Molybdenum Alloy	•	•	•	•	
Diamalloy 3002NS	Cobalt – Molybdenum Alloy	•	•	•	•	
Diamalloy 1007	Copper		•			•
Diamalloy 1004	Copper Alloy (Aluminum Bronze)	•	•			
Diamalloy 1003	AISI Type 316 Stainless Steel	•				•
Diamalloy 1003-1	AISI Type 316 Stainless Steel	•				•
Diamalloy 1008	Iron / Chrome Blend	•	•			
Diamalloy 4008NS	Nickel – Aluminum Alloy					•
AMDRY 4532	Nickel – Chrome Alloy		•			
AMDRY 4535	Nickel – Chrome Alloy		•			
Diamalloy 1005	Inconel 718*		•			•
Diamalloy 4004NS	Rene 80*		•			•
Diamalloy 1006	Inconel 718*		•			•
Diamalloy 4006	Nickel – Chrome Alloy with Amorphous Phases	•	•			
AMDRY 1718	Inconel 718*		•			•





#### **SKID FABRICATION**

## FABRICATION NEW SKID, SKID REFURBISHMENT

- Metering skid
- Fuel skid
- Pump skid
- Compressor skid





## **NGHI SON REFINERY PLANT**

Client/End User	NSRP
Location	Nghi Son - Thanh Hoa
Service	Shutdown Maintenance for Control valve & Instrument
Year	2019





## **NGHI SON REFINERY PLANT**

Client/End User	NSRP
Location	Nghi Son - Thanh Hoa
Service	Long Term Service For Control valve & On-off valve
Year	2018-2019







## **MEKONG THERMAL POWER PLANT**

Client/End User	Mekong Energy
Location	Phu My – Ba Ria Vung Tau
Service	Shutdown Maintenance for Control valve
Year	2017 - 2018





## **SUTUNAU PROJECT**

Client/End User	PTSC MC/ CLJOC
Location	Vung Tau
Service	Installation & Commissioning for Air Compressor & Dryer Packages
Year	2015





## NAM CON SON PIPELINE WETGAS

Client/End User	NCSP
Location	Dinh Co - Vung Tau
Service	Installation, hook up for wetgas metering system
Year	2015





## **PHA LAI POWER PLANT**

Client/End User	EVN-Pha Lai	
Location	Hai Duong	
Service	Repair Generator shaft	
Year	2018	







#### **VALVES & AUTOMATION SERVICES**









#### **Actuation Technologies**

#### Certificate of Attendance

This document certifies that

#### Cao Van Hau

Successfully completed Biffi ICON A-Manager with HART Training (Online)

Held on 3 July and 10 July 2020.

Pok Chin Leong / Gianluca Madonna
Training Facilitators







# **ACHIEVEMENTS**











# CLIENTS









































































## Any questions?

Services requirement please contact <a href="mailto:tinh.av@toanthang.vn">tinh.av@toanthang.vn</a>
0978. 756. 060

