



**PESCO**  
**P**ROFESSIONAL **E**NGINEERING **S**ERVICES & **C**ONTRACTING  
**Emirates Electrical Services & Contracting LLC**

# Index

<b><u>About Us</u></b>	3
➤ <u>Introduction</u>	4
➤ <u>General Information</u>	5
➤ <u>Vision &amp; Mission</u>	6
➤ <u>Core Value</u>	7
➤ <u>Professionalism</u>	8
➤ <u>Organization Chart</u>	9
➤ <u>Project Management &amp; Compliance</u>	10

<b><u>Our Services</u></b>	11
➤ <u>EPC Project Division</u>	12
➤ <u>Field Services &amp; Engineering</u>	13
➤ <u>Cable Works</u>	14
➤ <u>Installation, Testing &amp; Commissioning</u>	14
➤ <u>PP Scheduled Outage Work Facility – Mechanical</u>	15
➤ <u>PP Scheduled Outage Work Facility – Instrumentation</u>	16
➤ <u>PP Scheduled Outage Work Facility – Electrical</u>	17
➤ <u>Industrial &amp; Fabrication Division</u>	18
➤ <u>Civil Works</u>	19

<b><u>Manpower</u></b>	20
➤ <u>Manpower Summary</u>	21

<b><u>Testing Equipments</u></b>	22
----------------------------------	----

<b><u>Plant &amp; Machinery</u></b>	27
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<b><u>Experience</u></b>	29
➤ <u>Ongoing - Projects</u>	30
➤ <u>Completed – Power Plant Projects</u>	31
➤ <u>Completed – Oil &amp; Gas Projects</u>	32
➤ <u>Completed – Oil &amp; Gas Projects (cont.)</u>	33
➤ <u>Completed – Substation Projects</u>	34
➤ <u>Completed – Substation Projects (cont.)</u>	35
➤ <u>Completed – O&amp;M Operation &amp; Maint. Projects</u>	36

<b><u>Certificates</u></b>	37
➤ <u>Trade License</u>	38
➤ <u>Contractor Classification &amp; OSHAD Registration</u>	39
➤ <u>VAT &amp; ICV Certificates</u>	40
➤ <u>ISO Certificates</u>	41
✓ <u>ISO 9001:2015</u>	
✓ <u>ISO 14001:2015</u>	
✓ <u>ISO 48001:2018</u>	
➤ <u>ASME S &amp; ASME U Certificates</u>	42
➤ <u>ASME PP &amp; ASME R Certificates</u>	43
➤ <u>TRANSCO Appreciation Certificates</u>	44
➤ <u>GE Consortium &amp; Appreciation Cert.</u>	45
➤ <u>ABB Appreciation Certificate</u>	46
➤ <u>Completion Certificates</u>	47

<b><u>HSE Statistics</u></b>	57
➤ <u>PESCO – 5 Years HSE Statistics Summary</u>	58

<b><u>Projects Sample Pictures</u></b>	59
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<b><u>Our Clients</u></b>	81
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# ABOUT US



# Introduction

**PESCO** (Professional Engineering Services & Contracting) was established in 2004.

**PESCO** is an EPC Electromechanical Contracting Company operating in Oil & Gas, Power Plants & Substations Fields.

**PESCO** fields of expertise includes "Turn Key Solutions", "FEED, Detailed Engineering and Engineering Studies", "Equipment Installation, Testing, Commissioning & Start-Up", "Control & Protection", "Upgrade and Rehabilitation", "Third Party Inspection", "Maintenance", "E&I and Electromechanical Systems' Trouble Shooting", "Related Civil Works", "Operation & Maintenance O&M" and "Supply of Experts' Manpower".

**PESCO** has the depth and range of resources required to meet all challenges presented by our customers in Power Plants, Oil & Gas and Substations for Turnkey Projects as well as Field Services.

**PESCO** employs highly trained and qualified personnel who have extensive experience and technical knowledge gained from major manufacturers -like GE, SIEMENS, Westinghouse, ABB & Alstom as well as major projects in Oil & Gas, Power Plants and Substations.

# General Information

GENERAL INFORMATION	
<b>Company Name</b>	PESCO Emirates Electrical Services & Contracting - LLC
<b>Registered Office Location/ Address</b>	Office 901, Silver Wave Tower, Mina Street
<b>Postal Address</b>	P.O. Box 127748, Abu Dhabi - UAE
<b>Telephone</b>	971 2 679 9527
<b>Fax</b>	971 2 679 9547
<b>Web</b>	<a href="http://www.pesco-int.com">www.pesco-int.com</a>
<b>E-mail</b>	<a href="mailto:info@pesco-int.com">info@pesco-int.com</a>
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	Chief executive officer
	Email: <a href="mailto:assem.ibrahim@pesco-int.com">assem.ibrahim@pesco-int.com</a>
	Engr. Osama Ali Elsayed Khalil Khedr
	Operations & Services – Managing Director
	Email: <a href="mailto:osama.khedr@pesco-int.com">osama.khedr@pesco-int.com</a>
<b>VAT Number</b>	100246575300003
<b>Trade License Number</b>	CN-1097213 - Establishment Date: 11/12/2006

# Vision & Mission

## VISION



To become a Conglomerate in Energy and Oil & Gas Sectors in MENA, the preferred contractor, supplier, services provider and providing innovative turnkey solutions using new technologies.

## MISSION



We aim to provide cost effective, technically practicable solution to achieve total customer satisfaction. Provide distinguished services with valuable Performance.

# Core Value



## Growth

We are focused on progress and promote growth, development and seek opportunities to add value to the organization.

With trust, respect and professionalism, fostering a working environment where people can contribute, innovate and excel.

We seek a dynamic blend of cultural background, race, gender, age and experience because we believe diversity and steadfast intent is our strength.

## Accountability

We set and achieve our goals by consistently raising performance and hold accountable for superior results.

We learn, grow and mature from challenges.

We express confidence and deliver what we commit.

## Integrity

We work with integrity and deliver as entrusted.

We embrace integrity and transparency with consistent and high ethical standards with honesty and respect.

Integrity is a prerequisite. It takes honesty, fairness, honouring our commitments.

## Quality

We try to exceed customers' expectations at all times with excellence in performance and highest standards.

We believe that quality isn't just what you deliver but how we initiate and take responsibility to deliver results as a whole.

## Safety

We put safety first! We are committed to protecting the well-being of our employees, business Partners and stakeholders.

We find sustainable solutions for our business to protect the environment for generations to come.



# PROFESSIONALISM

PESCO is bound to maintain their high level of professionalism, based on efficient action and focused on excellence and quality in service.

In this regard, our conducts are guided by the following principles:



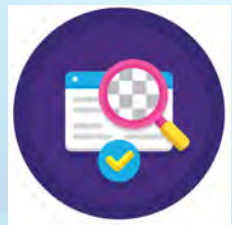
## QUALITY AND INNOVATION

PESCO is committed to the highest quality in our products and services. Furthermore, all necessary resources available to the employees for the continuous innovation, development and improvement in order to reach the highest level of quality using profitability criteria. The work and quality management of our projects generates confidence and an adequate corporate image in the market.



## CUSTOMER FOCUS

PESCO is contributing with the best efforts in terms of collaboration, professionalism and a service-oriented mentality, in the pursuit of the highest level of customer satisfaction. However, achieving the said objectives will never justify noncompliance with the law and the PESCO Culture of Compliance.



## TRANSPARENCY

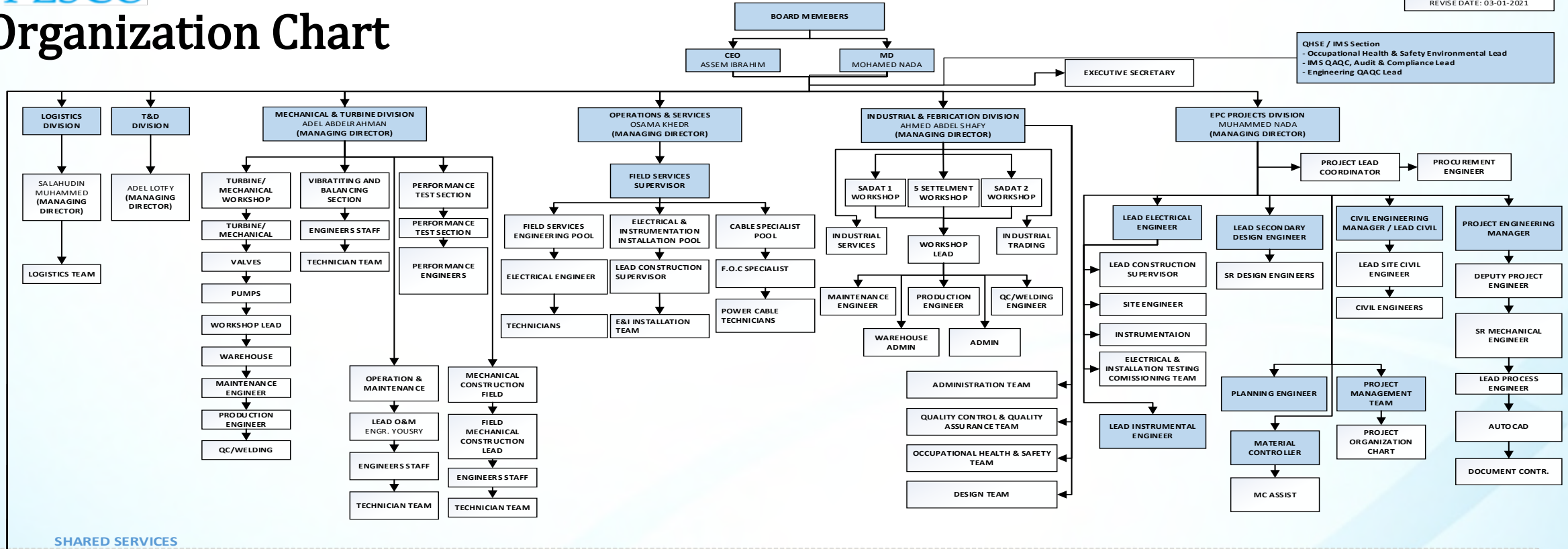
PESCO in all communications, regardless of form is committed to provide accurate, necessary, complete and timely information regarding the progress of activities related to the performance. We will also maintain the confidentiality of the information that relates to subject-matter that must be kept secret.



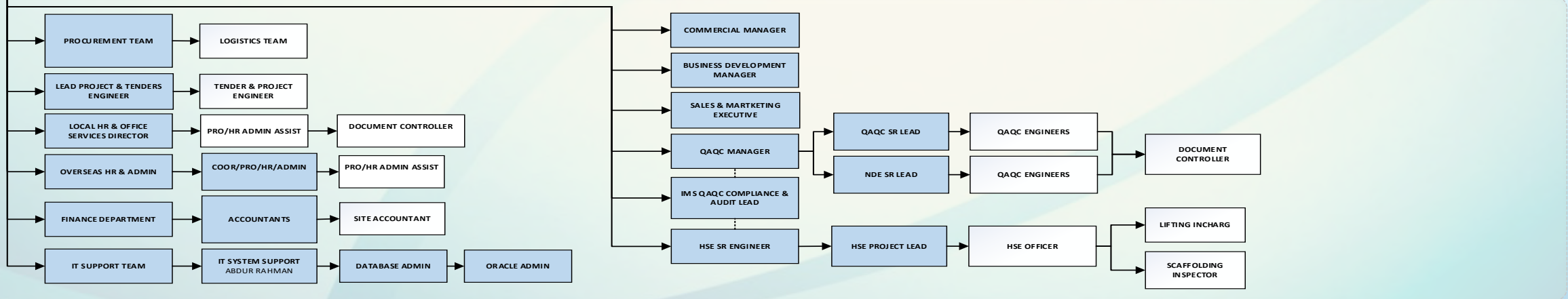
# Organization Chart

## ORGANIZATION CHART

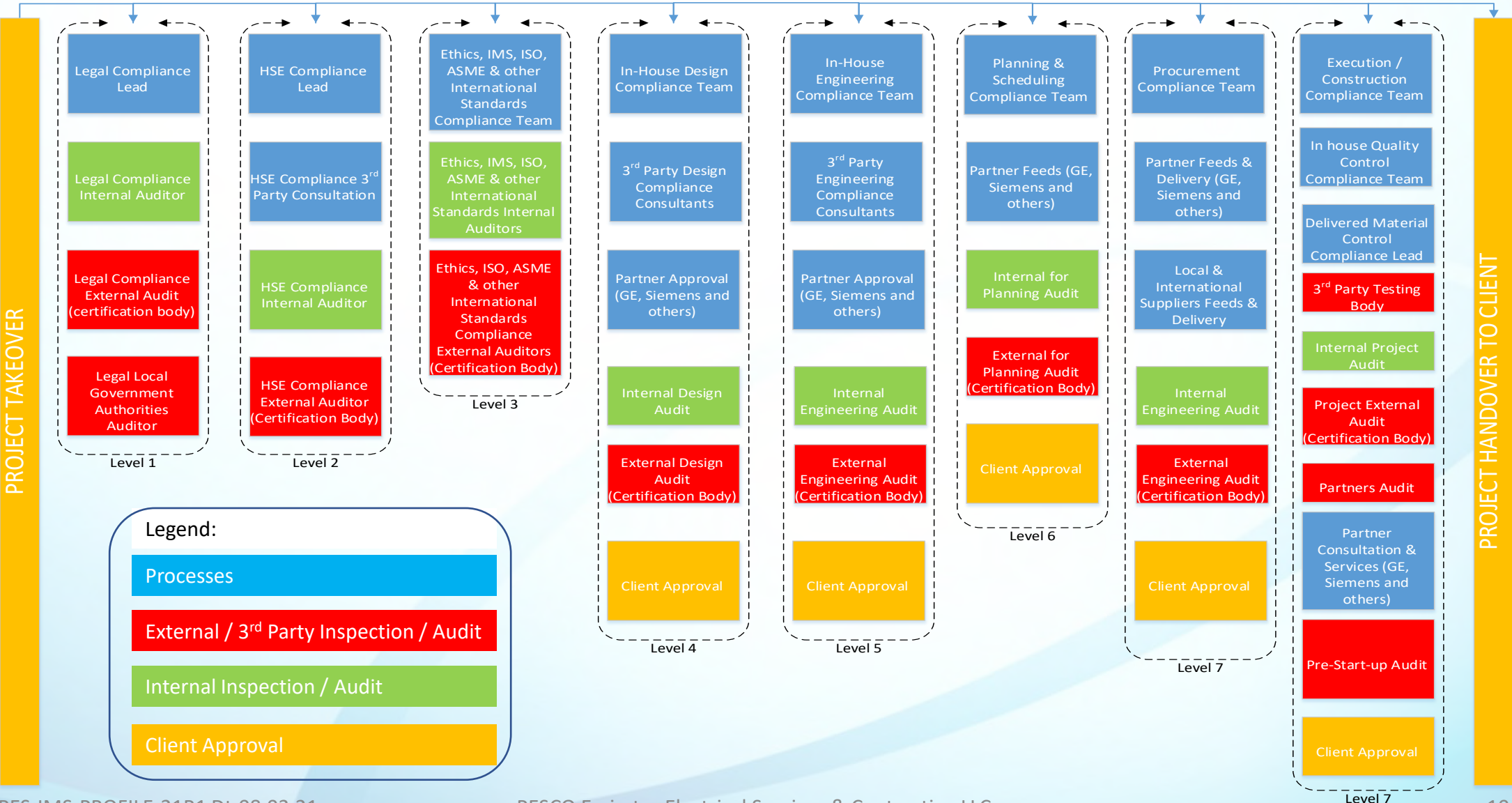
**QHSE / IMS Section**  
 - Occupational Health & Safety Environmental Lead  
 - IMS QA/QC, Audit & Compliance Lead  
 - Engineering QA/QC Lead



SHARED SERVICES



# Project Management & Compliance



# OUR SERVICES



# EPC Projects Division

- ✓ FEED & Detailed Engineering for Power Plants, Oil & Gas and Utilities.
- ✓ Power Plants, Substations EHV/HV/MVLV Secondary Design/Design Review.
- ✓ Decommissioning & Relocation of Running Power Plants
- ✓ Design Installation and Commissioning of Control Panels
- ✓ Installation and Configuration of Instruments,
- ✓ Installation Transformers & Switchgear,
- ✓ Power Panels & MCC Installation,
- ✓ HV and LV Motor Installation,
- ✓ Lighting System,
- ✓ Grounding & Lightning Arresters,
- ✓ Heat Ventilated Air Conditioning System (HVAC)
- ✓ Fire Alarm Control & Fire Protection System,
- ✓ Process, Controls & Measuring System
- ✓ Fibre-Optic Cables Networks
- ✓ Telecommunication
- ✓ Construction Supervision and Construction QA/QC Services
- ✓ Power System Studies Covering Load Flow, Short Circuit, Power Factor Corrections, Harmonic Analysis, Protective Relays Settings
- ✓ Testing & Commissioning Works

# Field Services & Engineering

- ✓ Maintenance for Substation & Critical facilities
- ✓ Transformers, MCC's, Switchgears, RMU's and Motors,
- ✓ Testing & Pre-Commissioning for Protective Relays, Calibration & PM
- ✓ Modification / Replacement of Protection Panels for OHL, Cable & Transformer feeders, etc at 220kV & 132kV Substations
- ✓ Complete replacement of Busbar Protection System & FMS/SER Systems at 220kV & 132kV Substations with latest advanced systems
- ✓ Modification / Replacement of Protection Relays / Protection Panels for OHL & Cable feeders, etc. during 400kV, 220kV & 132kV Transmission network expansions
- ✓ Thermo-graphic survey,
- ✓ Circuit Breaker Retrofit works
- ✓ Submarine cable, Power & Fiber Optic Cable Testing, Splicing & Termination



# Cable Works

- ✓ Installation of EHV/HV/MV/LV Power Cables,
- ✓ Installation of Cable trays, Ladders & steel supports for the Cable management system
- ✓ Testing, Splicing & Termination of Cables at Onshore & Offshore in ARAMCO Fields
- ✓ ARAMCO Approved & Certified Power & Fiber Optic cable Splicers,

# Installation Testing & Commissioning

- ✓ Installation of HV/MV SF6 Gas Insulated Switchgears, Protection & Controls Panels, MCC's/LVAC & DC Systems,
- ✓ Power Transformers & Accessories
- ✓ EHV/HV/MV/LV Power & Control Cables, FO cables, etc.
- ✓ Testing & Pre-commissioning works
- ✓ Relay Setting and Configuration works (with OEM)





# Power Plants Scheduled Outage Work Facility – Mechanical

## *(Professional Manpower Services)*

- ✓ Boiler Inspection : Drum, Super heater, Economizer, Safety Valves, Burners...
- ✓ Boiler Fans: Inspection , Alignment , Inlet vanes overhaul and Bearing inspection.
- ✓ HP/IP Turbine valves Inspection and clearances check..
- ✓ Fix The Problems In different Valves and Boiler safety valves inspection.
- ✓ Pumps Inspection ( Condensate – circulating).
- ✓ Deaerator inspection and Recirc-lines replacement & Condenser (Hot well, Water Box) Inspection.
- ✓ Circulating Water Intake and Traveling Screens.
- ✓ Boiler Air Heaters Inspections, seals adjustment and fabric expansion joints replacement .



# Power Plants Scheduled Outage Work Facility – Instrumentation Work

*(Professional Manpower Services)*

- ✓ DCS Loop Check (Software – Hardware)
- ✓ DCS Cabinet PM
- ✓ PM for all DCS, PLC & (Turbine Controller) Cabinets
- ✓ Calibration of all Field Instrumentation
- ✓ PM for all plant Analysers (Sampling Panels – Stack Analysers)
- ✓ PM for all vibration panels (Turbine – Feed Water – Fans)



DCS Cabinet Cards PM



Micro-Rec Cabinet PM



Field Instrument Calibration



CEMS Instruments PM

# Power Plants Scheduled Outage Work Facility – Electrical

## (Professional Manpower Services)

- ✓ 220 KV G.I.S & Generator Circuit Breaker Testing Interlocks & Trip Circuits
- ✓ Main Generator Slip Rings, Exciter Brush Holders and AVR & Excitation System Complete PM.
- ✓ Generator Circuit Breaker Complete PM and Testing.
- ✓ Main, Unit Aux. & Excitation Transformers Complete PM and Protection Devices Testing.
- ✓ Transformer Windings Complete Test e.g. (Dissipation Power Factor, DC Resistance, and Turns Ratio Test).
- ✓ Main, Unit Aux. & Excitation Transformers Fire Fighting System Test.
- ✓ Electrical Protection Systems Testing for Generator, Excitation and Transformers By Secondary Injection Device.
- ✓ 6 KV Switchboard Bus Bars, Control Circuits, Circuit Breakers and Motors PM.
- ✓ 400 V Switchboards Bus Bars, Control Circuits, Circuit Breakers and Motors PM.
- ✓ Emergency Diesel Generator Complete PM and Testing.
- ✓ Battery Chargers Complete PM And Battery Banks Discharge Test.



# Industrial & Fabrication Division

- ✓ Process tanks,
- ✓ Storage Tanks,
- ✓ Low and Medium Pressure Vessels,
- ✓ Super Structure for Process Tanks & Equipments,
- ✓ Pipe Rack & Clamps,
- ✓ Equipment Support Structure,
- ✓ Cable Tray,
- ✓ Electrical Panels

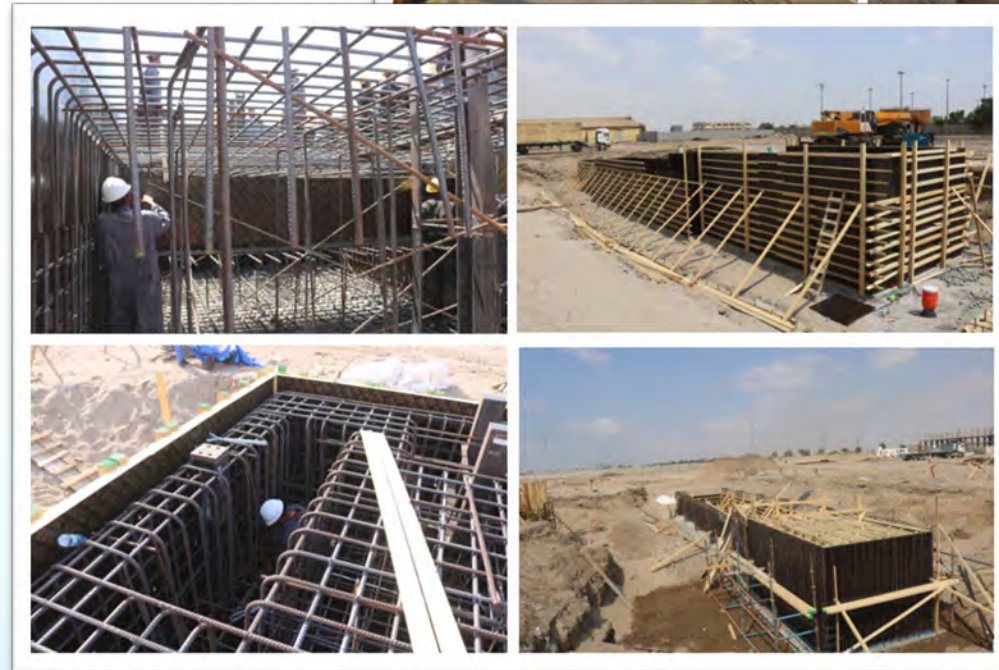




# Civil Construction Division

## ➤ Related Civil Works

- ✓ Complete Civil works for Power Plants
- ✓ Substation Building complete with all utilities
- ✓ Foundation,
- ✓ Grade Beam & Grade Slab,
- ✓ Installation of Structure,
- ✓ Block Masonry,
- ✓ Retaining Wall, Ramp,
- ✓ Foundation of Equipment,
- ✓ Trenches & Sheds,
- ✓ Small and Medium-Size Building



# MANPOWER



# Manpower Summary

UAE TEAM	
3	Management
2	Accounts
18	HR & Administration Staff
1	Sales & Business Development
6	Engineer - Desing
11	Engineer - Electrical
3	Engineer - Mechanical
7	Engineer - Procurement
2	Engineer - CAD
2	Engineer - QAQC
2	Engineer - HSE
6	Electrician
13	Technicians
<b>76</b>	<b>Total Staff</b>

CAIRO - EGYPT TEAM	
2	Management
2	Accounts
9	HR & Administration Staff
2	Sales & Business Developmenet
1	Engineer - CAD
2	Engineer - Civil
1	Engineer - Design
4	Engineer - Electrical
1	Engineer - Instrumentation
6	Engineer - Mechanical
1	Engineer - Planning
1	Engineer - QAQC
<b>32</b>	<b>Total Staff</b>

SADAT - EGYPT TEAM	
1	Management
1	Accounts
2	HR & Administration Staff
1	Engineer - Mechanical
3	Pipe Fitter
1	Store Keeper
2	Supervisor - Fabrication
1	Supervisor - Installation
1	Supervisor - Mechanical
2	Supervisor - Operation
1	Supervisor - Pipe Fitter
1	Technican - Electrical
2	Technican - Mechanical
1	Technican - Operation
2	Welder
<b>22</b>	<b>Total Staff</b>

ADEN-YEMEN TEAM	
1	Management
1	Accounts
7	HR & Administration Staff
1	Engineer - Planning
4	Engineer - QAQC
3	Engineer - Civil
2	Engineer - Commissioning
9	Engineer - Electrical
7	Engineer - Insturmentation
6	Engineer - Mechanical
2	Engineer - Piping
6	Electrician
4	Electrician - Instrumentation
2	Technician - Commissioning
3	Technician - Electrical
7	Technician - I&C
4	Technician - Mechanical
8	HSE Team
1	Material Controller
2	Operator - Crane
9	Pipe Fitter
7	Pipe Fitter - I&C
1	Cabling - I&C
6	Supervisor - I&C
1	Surveyor
3	Welder
<b>107</b>	<b>Total Staff</b>

# TESTING EQUIPMENTS

# Sample of PESCO Testing Equipments (Total Qty: 311)



**PRESSURE MEASUREMENT TRANSMITTER**  
 Maker: ROSEMOUNT  
 Model: 305151CD12A12A12A1AQ4



**HYDRA SERIES III DATA ACQUISITION W/ INPUT MODULE**  
 Maker: FLUKE  
 Model: 2638A



**DIGITAL POWER METER**  
 Maker: YOKOGAWA  
 Model: WT333



**BAROMETER**  
 Maker: VAISALA  
 Model: PTB110



**THERMOCOUPLE TEMPERATURE SENSOR 16" LONG**  
 Maker: PYROMATION  
 Model: K43UM-0



**Dry Block Calibrator**  
 Maker: Ametek  
 Model: CTC-350 A



**HUMIDITY AND TEMPERATURE TRANSMITTER**  
 Maker: VAISALA  
 Model: HMT331



**PRESSURE TRANSMITTER**  
 Maker: SMAR  
 Model: LD301D-21I-TU10-011/PO/Y2/Y4



**ACQUISITION UNIT/ DATA LOGGER**  
 Maker: FLUKE  
 Model: M:2638A/20



**HYGROMETER WITH HYGROMETER PROBE**  
 Maker: TESTO  
 Model: 635



**SOUND LEVEL METER WITH CALIBRATOR WIND SHIELD**  
 Maker: LUTRON  
 Model: SL-40335D



**BUILDER 402 SET**  
 Maker: GECO  
 Model: T506 PLUS 5" R500



# Sample of PESCO Testing Equipments (Total Qty: 311)



RELAY TEST SYSTEM

Maker OMICRON  
Model: CMC256PLUS



CT ANALYZER

Maker OMICRON  
Model: CT ANALYZER



RELAY TEST SYSTEM

Maker: GE PROGRAMMA  
Model: FREJA 300



PRIMARY INJECTION

Maker: GE PROGRAMMA  
Model: ODEN AT



RELAY TEST SYSTEM

Maker: MEGGER  
Model: FREJA 546



VLF Test Kit ,60kV

Maker: b2 Electronics  
Model: HVA 60



DIGITAL LOW RESISTANCE  
OHM METER

Maker: MEGGER  
Model: DLRO 10



THREE PHASE TRANSFORMER  
TURN RATIO TESTS

Maker: MEGGER  
Model: TTR310-47



THREE PHASE AUTOMATED  
SIX-WINDING  
TRANSFORMER OHMMETER

Maker: MEGGER  
Model: MTO330



5KV INSULATION TESTER

Maker: MEGGER  
Model: MIT515



5KV INSULATION  
TESTER

Maker: MEGGER  
Model: MIT525



DC HIPOT

Maker: HIGH VOLTAGE  
Model: TS-130 DF



# Sample of PESCO Testing Equipments (Total Qty: 311)



**AC HIPOT**

Maker: HIGH VOLTAGE  
Model: ALT-120 / 60DF



**DISCHARGE STICK, 100**

Maker: MEGGER  
Model: EST 100 100 KV



**80KV AUTO LAB BASED OIL TEST SET**

Maker: MEGGER  
Model: OTS80AF



**TDR 2050**

Maker: MEGGER  
Model: TDR2050



**RELAY TESTING UNIT**

Maker: GE PROGRAMMA  
Model: SVERKER 760



**MENTOR UT BASE KIT**

Maker: GE  
Model: 100N3883



**DIGITAL HARDNESS TESTER**

Maker: PCWI  
Model: THL280 PLUS



**ARC FUSION SPLICER**

Maker: FUJIKURA  
Model: FSM-805/ FSM-605/ FSM-625



**POWER QUALITY ANALYZER**

Maker: FLUKE  
Model: 435 II



**THERMAL IMAGER/CAMERA**

Maker: FLUKE  
Model: TI200 9HZ



**VIBRATION TESTER**

FLUKE 805FC  
Maker: FLUKE  
Model: 805FC



**DIGITAL PRESSURE CALIBRATOR**

Maker: GE DRUCK\_135  
BAR 5G  
Model: DPI 61061030949



# Sample of PESCO Testing Equipments (Total Qty: 311)



# PLANT & MACHINERY



# Plant & Equipments



**PRAMAC TOWER LIGHT LSW6P, ENGINE**  
Model:  
SN-GB20891-2014,  
SN-GB20891-2007/403D-1



**Manlift**  
Model:  
MANLIFT 450AJ



**Double Stages Vacuum Transformer Oil Purifier**  
Model:  
ZYD-200



**Air Compressor**  
Model:  
"Comp air" C76, Yellow color



**Mobile Crane**  
Model:  
Rough Terrane  
90 tons "Liebherr" "S"



**Forklift**  
Model:  
No.: S6S111019,  
Model Year: 2018, Color Green



**Truck**  
Model:  
(Boom Truck) 4 x 4 Truck, Color White/blue,  
IVECO, EUROCARGO 150-280



# EXPERIENCE

# Ongoing - Projects

Category	Client	Project Duration	Scope	Location	Status
Power Plant Project	PETRO MASILA	2019-Ongoing	ADEN Power Plant Phase -1: 264 MW Power Plant at ADEN Yemen - Design, Review, Electrical, Instrumentation, Civil, Process, HSE & Mechanical Construction Supervision, QA/QC, Testing, Commissioning and Start-Up for installing of 2 X 9E's (2 x 132MW) LCO/LDO turbines.	Aden - Yemen	Ongoing
Substation	SEPCO / TRANSCO N-18063 Taweelah RO Plant	2020-Ongoing	132kV Taweelah A S/S & 132kV Side of RO Plant Modification works for Taweelah 200MIGD RO Independent Water Project: substation modification works including all Co-ordination , Engineering review, Installation, Protection & Protection related all interface panel modification works, providing services of TRANSCO competent Engineer(Protection, SCMS & Telecom) Installation crew and Installation equipment's. Assistance and Coordination with OEM	Abu Dhabi - UAE	Ongoing
Substation	TRANSCO N-13103	2020-Ongoing	Replacement of existing Fault Monitoring Systems (FMS) in nine Sub Stations in Al Ain region due to reasons of aging and/or obsolescence - The list of Stations are as follows: DHMG - 400 kV , DHMG - 220 kV, AHYG - 220 kV, SNYG - 220 kV, MZDG - 220 kV, ARDG - 220 kV, AAPS - 220 kV CTCG - 220 kV, KHZG - 220 kV	Abu Dhabi - UAE	Ongoing
Substation	TRANSCO N-16586	2020-Ongoing	Replacement of Obsolete Bus Bar & Circuit Breaker Fail Protection Systems in UNPS, MOS1 & AAPS Substations - Existing bus bar and breaker failure protection systems shall be replaced by new low impedance type combined bus bar and breaker failure protection system in UNPS 132kV, MOS1 132kV and AAPS 220kV substation;	Abu Dhabi - UAE	Ongoing
Substation	TRANSCO N-16595	2020-Ongoing	Replacement of existing old Protection Panels, AVR&TPI Panels, Fault Monitoring System and Event Recorder System at Al Wagan Grid Station - 220/33 kV Grid Station, there are OHL feeder protection, Bus Section bay protection, 220/33KV 80MVA Transformer, 220/33/11KV 80MVA Transformer & Busbar/Breaker Failure protection panels supplied by ABB and Fault Monitoring System, Event Recorder System and AVR&TPI System supplied by SIEMENS is available.	Abu Dhabi - UAE	Ongoing

# Completed - Power Plant Projects

Category	Client	Project Duration	Scope	Location	Status
Power Plant Project	PETRO MASILA	2017 - 2018	Petromasila 75MW Power Plant, Fast track Project, Design, Review, Electrical, Instrumentation, Civil & Mechanical Construction Supervision, QA/QC, Testing, Commissioning and Start-Up of 3 GE gas turbines 25MW each. Yemen	Hadhramaut - Yemen	Completed
Power Plant Project	SAFER	2010 - 2012	CPU New Gas Plant Power Plant Project - "C-Contract"- Yemen LNG Project-Phase –II: Design Review, Electrical, Instrumentation, Civil & Mechanical Construction Supervision, QA/QC, Testing, Commissioning and Start-Up of of 3*SOLAR Turbines Model: SENTURE SAFER-YLNG Yemen	Maareb - Yemen	Completed
Power Plant Project	SAFER	2007 - 2009	Raydan Power Plant Project, - "EC-Contract"- FEED, Detailed Engineering, Procurement Supervision, System Study, Installation, Testing, Commissioning and Start-Up of 3*SOLAR Turbines Model: SATURN, SAFER-YLNG Yemen	Maareb - Yemen	Completd



# Completed – Oil & Gas Project

Category	Client	Project Duration	Scope	Location	Status
Oil & Gas Projects	SUMITOMO ELECTRIC	2019 - 2019	Associated 115kV Submarine Cable / Fiber Optic Cables Testing & Termination at ARAMCO Offshore field GOSP-1	KSA	Completed
Oil & Gas Projects	DUBAI PETROLEUM	2018 - 2019	Testing & Termination of Fiber optic cable including supply of FO materials for DPE Offshore – Fateh & South West Fateh field	UAE	Completed
Oil & Gas Projects	SUBSEA7	2018 - 2019	Subsea Umbilical & Submarine composite cable (35kV & 15kV) and ICCP cable splicing, Testing, Pre & Post termination including splicing of Fiber Optic Cable (Total 45 cables)	KSA	Completed
Oil & Gas Projects	SUBSEA7	2018 - 2018	Inspection, Testing & Pre-commissioning of Submarine composite & ICCP Cables at ARAMCO Oil field SFNY 4 Decks, SUBSEA Pipelines & Cables and TP-17 69kV Circuit Breaker	KSA	Completed
Oil & Gas Projects	LARSEN & TOUBRO	2018 - 2018	Testing & Termination of 6kV & 13.8kV cables for ARAMCO offshore well head platform at Hazira, Surat, Gujarat (India)	India	Completed
Oil & Gas Projects	MCDERMOTT	2017 - 2019	MV & HV Power Cable / Fiber Optic cable Splicing, Testing & Termination including all equipment, tools & consumable at ARAMCO offshore fields SFNY 6 & BERRI D6255	KSA	Completed
Oil & Gas Projects	SAIPEM	2017 - 2018	Subsea Composite, MV & Fiber Optic Cable Splicing, Testing & Termination at ARAMCO Offshore oil field (KARAN, MRJN & SFNY).	KSA	Completed
Oil & Gas Projects	LARSEN & TOUBRO	2017 - 2018	34.5kV & 13.8kV cables splicing, Testing & Termination at Sohar Yard (Oman) for ARAMCO HASABAH project.	Oman	Completed
Oil & Gas Projects	DUBAI PETROLEUM	2017 - 2018	Testing & Termination of HV Power cable at DPE Offshore site – Rashid A Platform & FALAH C	UAE	Completed
Oil & Gas Projects	SAIPEM	2017 - 2017	Submarine Composite cable (PFOC) & Impressed current cathodic protection (ICCP) cables offshore Testing & Termination services Saudi Aramco – Abu Safa 2 & 6 Project	KSA	Completed
Oil & Gas Projects	SAIPEM	2016 - 2016	Offshore Services Submarine Composite Cables & ICCP cables – MRJN TP-9, MRJN 440/449 and ZULF 510/519 Platforms in Marjan and Zuluf Fields – KSA	KSA	Completed
Oil & Gas Projects	SAUDI ARAMCO	2016 - 2016	Submarine Composite Power & Fiber optic cable services – Testing and Termination – D6173 Abu Ali Project, KSA	KSA	Completed
Oil & Gas Projects	SAIPEM	2015 - 2015	Fiber Optic Installation Project – Testing and other miscellaneous services – 1076044 Arabiyah, Hasbah & Karan – KSA	KSA	Completed
Oil & Gas Projects	DUBAI PETROLEUM	2014 - 2015	Power System Study and Creation of Equipment Data Base for All Off-Shore Sites, UAE	UAE	Completed

# Completed – Oil & Gas Project (continue)

Category	Client	Project Duration	Scope	Location	Status
Oil & Gas Projects	MCDERMOTT	2012 - 2016	C- Subcontract" Switchgear Testing and Commissioning, Subsea cables, Fiber Optic Cables Splicing and Termination, Platform top side Power Cables Testing and Termination	Jabal Ali - UAE	Completed
Oil & Gas Projects	SAFER	2012 - 2012	Ras Isa Storage Terminal Project - "E-Contract" - FEED & Detailed Engineering – Yemen	Yemen	Completed
Oil & Gas Projects	ADNOC	2012 - 2012	C- Subcontract: Replacement, Testing and commissioning of 33/11kV, 30/24MVA, ONAN/ONAF, 50Hz, YNd11, Oil Power Transformer & its Protection System - UAE	UAE	Completed
Oil & Gas Projects	GE - Digital Energy	2012 - 2012	Zakum West Field, TURBO Power Generator (G130A/B) – "C-Subcontract" -Control and electrical System Upgrade, Testing and commissioning of Generator protection system and synchronization, Abu Dhabi- UAE	Abu Dhabi - UAE	Completed
Oil & Gas Projects	SAFER	2010 - 2012	Phase –I: Upstream Modifications Project E&I, Construction Supervision, QA/QC, Testing, Commissioning & Start-Up. Phase –II: Complete New Gas Plant / Power Plant Project, Electrical, Instrumentation, Civil, Mechanical, Construction Supervision, QA/QC, Testing, Commissioning and Start-Up. CPU Gas Expansion Piping Project: New Gas line with all the related facility, Mechanical (Piping), Construction Supervision & QA/QC. LPG Project: New LPG Storage and all related facilities - Yemen.	Yemen	Completed
Oil & Gas Projects	SAFER	2007 - 2009	Raydan Field Final Expansion and Power Plant Project - "EC-Contract" - FEED, Detailed Engineering, Procurement Supervision, System Study, Installation, Testing, Commissioning and Start-Up - Yemen	Yemen	Completed
Oil & Gas Projects	Jannah Hunt Oil Compnay	2006 - 2008	"EC Contract" for KPU/AL-Raja Oil Filed Power System Study, Al-Nasr "New Generators Control Panel" & "Switchgear Extension" Project, HALEWAH Ext. Project & Protection system PM- Yemen	Yemen	Completed
Oil & Gas Projects	SAFER	2005 - 2006	"EC Contract" & Procurement Supervision for CPU/ KPU/Al Raja Power System Study, Protection Rehabilitation & Upgrade project and Protection System PM - Yemen.	Maareb - Yemen	Completed

# Completed – Substation Projects

Category	Client	Project Duration	Scope	Location	Status
Substation	TRANSCO	2017 - 2018	N-14878 Remote-end Modification Works For 132kV Cable Circuits at BHYG	UAE	Completed
Substation	TRANSCO	2015 - 2016	N12258A Nahda 132/33KV Primary Substation Project, Installation Subcontract – UAE	UAE	Completed
Substation	TRANSCO	2015 - 2016	EPC Contract: N14320 BNPP 220/33KV Mobile Substation – Additional Works, UAE.	UAE	Completed
Substation	TRANSCO	2014 - 2015	N12315 TAWEELAH 400KV Substation, EPC Contract, New Control Panels for Qty. 23* 400KV Bays Project, UAE	UAE - Abu Dhabi	Completed
Substation	TRANSCO	2014 - 2015	Installation Subcontract -N12380 Madinat Zayed 33KV OHL to Water P/P Station – Related S/S Works, UAE	UAE	Completed
Substation	ADNOC	2014 - 2015	ASAB/BAB/BUHASA 220KV & 33KV Substations Power Upgrade Project - "EC Subcontract"- P14386/Contract 15437.01/ EC1083 - UAE	UAE	Completed
Substation	ADWEA	2014 - 2015	EPC Contract: N12386 Replacement of existing DC Systems Rehabilitation Project, as an EPC Approved Contractor – UAE	UAE	Completed
Substation	ABB	2013 - 2013	Erection of Five (5)*132KV GIS Bays ABB Make, Wasit power plant & Protection Rehabilitation Works – UAE	UAE	Completed
Substation	mitsubishi	2012 - 2013	400/132 KV Technology Park S/S & Remote Ends – UAE,	UAE - Dubai	Completed
Substation	mitsubishi	2012 - 2013	300/132kV KIFAN-W S/S Testing, Commissioning & Maintenance –Kuwait	Kuwait	Completed
Substation	mitsubishi	2012 - 2013	Ghazlan 380kV S/S Protection System Modification – Dammam- KSA	Dammam - KSA	Completed
Substation	mitsubishi	2012 - 2013	Testing & Commissioning of ABB & Siemens Relays – Kotmale – Sri Lanka	Kotmale – Sri Lanka	Completed
Substation	AL AIN UNIVERSITY	2012 - 2012	Decommissioning, relocation and commissioning of metering and control panels, motor/generator set	UAE	Completed
Substation	STELLAR ENGERGY	2011 - 2011	Installation and commissioning of Electrical and Instrumentation system of cooling plant DCP2, at Zayed University, Abu Dhabi, UAE	UAE	Completed
Substation	AL HABTOOR ENGINEERING	2011 - 2011	Zayed University Power System Study - UAE	UAE	Completed
Substation	AL HABTOOR ENGINEERING	2011 - 2011	Zayed University Distribution Transformers Testing – UAE	UAE	Completed
Substation	KHARAFI NATIONAL	2011 - 2011	Power System Study Rihana Heights, Abu Dhabi - UAE	UAE	Completed
Substation	TRANSCO	2010 - 2011	EPC Contract - N6892 Protection & Control System Rehabilitation Project, UAE	UAE	Completed
Substation	EAST ARDIYA'A', FARWANIEH'C' AND FARWANIEH	2010 - 2010	132/11 KV SIEMENS substations, Testing and Commissioning, - Kuwait	Kuwait	Completed



# Completed – Substation Project (Continue)

Category	Client	Project Duration	Scope	Location	Status
Substation	ALSTOM	2010 - 2010	Umm Brika 400/220/132/11Kv Testing & Commissioning - Qatar	Qatar	Completed
Substation	AL HABTOOR ENGINEERING	2010 - 2010	Sorbonne University in Abu Dhabi - Testing & Commissioning of 4*22KV MV SIEMENS Switchgears - UAE	UAE	Completed
Substation	AL HABTOOR ENGINEERING	2010 - 2010	Sorbonne University 22kV System Power System Study - UAE	UAE	Completed
Substation	SIEMENS	2008 - 2008	SAMRA 400kV S/S Ext#2 Testing & Commissioning - SIEMENS AG		Completed
Substation	SIEMENS	2007 - 2008	33KV BAHIAH Substation Protection Upgrade - UAE	UAE	Completed
Substation	SIEMENS	2007 - 2007	400/132kV H- S/S Protection Testing& Commissioning – UAE SAMRA 400kV S/S Ext#1 Testing & Commissioning 132/11kV Emirates Cement Factory Substation S/S	UAE	Completed
Substation	SIEMENS	2006 - 2006	220/66/11KV Abu Hamour S/S - Qatar	Qatar	Completed
Substation	GE DIGITAL ENERGY	2006 - 2006	Khayber 110/33/13.8KV Testing & Commissioning - KSA	KSA	Completed
Substation	SIEMENS	2005 - 2006	SAMRA 400kV S/S Testing & Commissioning - Jordan	Jordan	Completed
Substation	SIEMENS	2005 - 2005	AQABA S/S modifications works - Jordan	Jordan	Completed
Substation	GE DIGITAL ENERGY	2005 - 2005	Saudi City 110/13.8KV S/S Testing & Commissioning - KSA	KSA	Completed
Substation	SIEMENS	2004 - 2006	132KV W13 & W17 Substation Remote End Works – 2007 & W59, E4 & E11 S/S's Single to Double Bus Bar Upgrade Project with all the relevant Primary and secondary required modifications	UAE	Completed
Substation	DANWAY	2004 - 2005	132/11 KV CHNA Substation Testing and Commissioning - UAE	UAE	Completed
Substation	GE DIGITAL ENERGY	2004 - 2005	Testing and Commissioning of: - Al-Safa 110/13.8kV S/S -Jeddah - Saudi City 110/13.8KV S/S –Jeddah - Al-Taif 380/110KV -Al-Taif - Khayber 110/33/13.8KV –Khayber	Jeddah	Completed
Substation	GE DIGITAL ENERGY	2004 - 2005	Al-Taif 380/110KV Testing & Commissioning - KSA	KSA	Completed
Substation	GE DIGITAL ENERGY	2004 - 2004	Al-Safa 110/13.8kV S/S Testing and Commissioning - KSA	KSA	Completed

# Completed – O&M (Operation & Maintenance) Project

Category	Client	Project Duration	Scope	Location	Status
Operation & Maintenance Work	Suez Gulf Power SAE	2020 - 2020	Outage Technical Manpower Supply – Egypt PO Ref: SGP/OR/19/056	Egypt	Completed
Operation & Maintenance Work	Suez Gulf Power SAE	2020 - 2020	Design, Fabrication and Installation of Flood Prevention Stop Logs – Egypt PO Ref: SGP/OR/20/048	Egypt	Completed
Operation & Maintenance Work	Sidi Krir Generating Company	2020 - 2020	AVR Troubleshooting – Egypt PO Ref: SKGC/LPO-15090	Egypt	Completed
Operation & Maintenance Work	Sidi Krir Generating Company	2020 - 2020	Repair of Boiler Tube Leak – Egypt PO Ref: SKGC/LPO-15409	Egypt	Completed
Operation & Maintenance Work	Sidi Krir Generating Company	2020 - 2020	Supply of Technical Manpower for Turbine & Generator Major Overhaul – Egypt PO Ref: SKGC/OR/20/058	Egypt	Completed
Operation & Maintenance Work	Sidi Krir Generating Company	2020 - 2020	QA/QC Third-Party Consultancy for Turbine & Generator Major Overhaul – Egypt PO Ref: SKGC/OR/20/076	Egypt	Completed
Operation & Maintenance Work	Masil Petroleum Exploration & Production Co. (PetroMasila)	2019 - 2019	Vessel Repair Free water knocked out drum – Yemen PO Ref: 10300820	Yemen	Completed

# CERTIFICATES



# Trade License

مركز أبوظبي للأعمال  
Abu Dhabi Business Center



دولة التنمية الاقتصادية  
DEPARTMENT OF ECONOMIC DEVELOPMENT



## Professional License

## رخصة مهنية

License No	:	CN-1097213	:	رقم الرخصة
ADCCI No	:	222771	:	حضورية الغرفة
Establishment Card MOHRE	:	586281	:	وزارة الموارد البشرية والتوطين بطاقة المنشأة
Establishment Card GDRFA	:		:	الإدارة العامة للأمن والشؤون الأوتاب - بطاقة المنشأة
Legal Form	:	Limited Liability Company	:	الشكل القانوني : شركة ذات مسؤولية محدودة : ببيكو الإمارات للمقاولات الكهربائية - ذ م م
Trade Name	:	PESCO EMIRATES ELECTRICAL SERVICES & CONTRACTING - L L C	:	الاسم التجاري
Establishment Date	:	11/12/2006	:	تاريخ تأسيس المنشأة
Issue Date	:	17/08/2020	:	تاريخ الإصدار
Expiry Date	:	16/08/2022	:	تاريخ الانتهاء

الاسم	جنسية	مركز التسجيل	رقم
Name	Nationality	Company/Partnership	No.
شريك Partner	مصر Egypt	عاصم عبدالرحمن ابراهيم عوض ASSEM ABDELRAHMAN IBRAHIM AWAD	20143848
شريك Partner	الإمارات العربية المتحدة United Arab Emirates	حسن علي حسن مران الظاهري HASAN ALI HASAN MARRAN ALDHAHERI	41352694
شريك Partner	مصر Egypt	اسامه علي السيد خليل خضر OSAMA ALI ELSAYED KHALIL KHEDR	20082175
شريك Partner	مصر Egypt	محمد مصطفى زكي ندا MOHAMED MOSTAFA ZAKI NADA	20036089

**الأنشطة التجارية** :

- \* Networks and power transmission lines contracting
- Electricity Transmission and Control Equipment Installation Works
- Power Generation Plants Maintenance
- Examination of The Devices and Electronic Equipment
- \* Metal construction contracting
- \* Mechanical Contracting
- \* Power Distribution Networks and Stations Contracting
- Electromechanical Equipment Installation and Maintenance

وثيقة معتمدة لإصدار بدون توقيع أو ختم من دائرة التنمية الاقتصادية - أبوظبي تتحقق من صحة البيانات الواردة في الرخصة بزيارة: <http://www.ded.abudhabi.ae>  
Approved document issued without signature or stamp by the Department of Economic Development - Abu Dhabi. To verify the license kindly visit <http://www.ded.abudhabi.ae>

البريد الإلكتروني الرسمي : mohamed\_shafeeq@pescotnd.com  
رقم التواصل الرسمي : 971505335400



<http://ded.abudhabi.ae>

- \* All Kind Building Projects Contracting
- \* Electrical Contracting
- Onshore And Offshore Oil And Gas Fields And Facilities Services
- Electrical Generators and Transformers Installation and Maintenance
- Electricity Plants and Networks Operation and Maintenance

The Contractor is not permitted to practice the activities marked with sign (\*) unless these activities are classified and a Classification certificate is obtained for the department of Department of Urban Planning and Municipalities

العنوان : أبوظبي - شارع الميناء - الطابق 9 - رقم الشقة 901 - المالك / انترناشيونال كينال تريننج  
( تم تحصيل رسوم خدمات الدفاع المدني )

وثيقة معتمدة لإصدار بدون توقيع أو ختم من دائرة التنمية الاقتصادية - أبوظبي تتحقق من صحة البيانات الواردة في الرخصة بزيارة: <http://www.ded.abudhabi.ae>  
Approved document issued without signature or stamp by the Department of Economic Development - Abu Dhabi. To verify the license kindly visit <http://www.ded.abudhabi.ae>

البريد الإلكتروني الرسمي : mohamed\_shafeeq@pescotnd.com  
رقم التواصل الرسمي : 971505335400



<http://ded.abudhabi.ae>

- \* مقاولات مشاريع العمالي باو انيا
- \* المقاولات الكهربائية
- خدمات حقول ومشاريع النفط والغاز البرية والبحرية
- تركيب وصيانة المولدات والمحولات الكهربائية
- تشغيل وصيانة محطات وشبكات الكهرباء

لا يعقل للمقاول ممارسة الأنشطة المشار إليها بعلامة (\*) إلا بعد الحصول على شهادة التصنيف المعتمدة من دائرة التخطيط العمراني والمباني.

# Contractor Classification

دائرة التخطيط العمراني والبلديات  
DEPARTMENT OF URBAN PLANNING  
AND MUNICIPALITIES



شهادة تصنيف مقاول  
Contractor Classification Certificate

Registration Certificate Number :	4722-CRT	رقم شهادة التسجيل :
Issue Number :		رقم الإصدار :
Issue Date :	25/09/2019	تاريخ الإصدار :
Expiry Date :	25/09/2021	تاريخ الانتهاء :

Firm Name :	PESCO EMIRATES ELECTRICAL SERVICES & CONTRACTING - L L C	اسم الشركة :	بيسكو الإمارات للخدمات الكهربائية - ذ م م
Firm Legal Type :	Limited Liability Company	الشكل القانوني :	شركة ذات مسؤولية محدودة
Managin Director :	MOHAMED MUSTAFA / محمد مصطفى ندا	المدير المسؤول :	محمد مصطفى ندا
Trade License Number :	CN-1097213	الرقصة التجارية :	
Phone :		الهاتف :	
Address :	أبو ظبي - شارع الجنداء - المطلق 9 - رقم النفاة 901 - المالك / المرشدون: كينيل نوبندر 4190673	العنوان :	

يتمثل هذا في أن **المقاول** مصنفًا بصفات والتخصصات الخاصة طبقًا لنظام رقم (1) لسنة 2009 بشأن تصنيف المقاولين في إمارة أبوظبي .  
This is to certify that the **Contractor** is classified in the below specializations according to the regulation No (1) for the year 2009 for the classification of **Contractors** in the Emirate of Abu Dhabi .

الفئة	التخصص	Specialization	Class
الرابعة	مقاولات شبكات ومحطات توزيع الطاقة	Power Distribution Networks and Plants Contracting	Fourth
الرابعة	مقاولات شبكات ومحطات نقل الطاقة	Power Transmission Networks and Plants Contracting	Fourth

إجمالي التخصصات	Total Specializations
الرابعة	Fourth

Any change or alteration to the certificate will reveal it .  
Authorities to make sure the existence and validity of the barcode and QR code.

أي تغيير أو تعديل في الشهادة يكتشفها  
على جهات الاختصاص التأكد من وجود وصحة الباركود و QR كود



تاريخ الطباعة: 25/09/2019  
Print Date: 25/09/2019

وثيقة الكترونية صادرة بدون توقيع من مكتب تصنيف المقاولين والمقاولين، لمراجعة صحة البيانات الواردة في الشهادة يرجى زيارة موقع البلدية  
Approved electronic document issued without signature by the Classification Office of the Emirate of Abu Dhabi.  
To verify the certificate, please visit the municipality website mentioned below:

عنوان: 263 عينة أبو ظبي- الإمارات العربية المتحدة هاتف: 4919 2 677 4919 فاكس: 8888 2 678 971 +971 موقع: <https://dmat.abudhabi.ae/ar/DMA/Pages/Home.aspx>

# OSHAD Registration

Reference: ADM-06-2021

Company: PESCO EMIRATES  
ELECTRICAL SERVICES &  
CONTRACTING L L C

Date: Jan, 14 2021

Dear Sir,

**Risk Level Notification to Nominated Entity to comply with Abu Dhabi Occupational Safety and Health Management System Requirements**

The Building and Construction Sector Regulatory Authority has completed the Risk Profiling of your company as per the approved criteria and your company has been classified as "Medium Risk Entity".

As a **Medium Risk Entity** you are required to implement the requirements of Mechanism 5.0 of Abu Dhabi OSHMS Regulatory Framework in compliance with the Abu Dhabi Decree No. (42) of 2009 within 6 months from the official notification date.

Please note that your company's risk classification can be changed at any time, depending upon the nature of projects / activities carried out by your company, & according to the outcome of the risk classification review every Three (3) years. This may result in changing your company compliance requirements with Abu Dhabi Occupational Safety and Health System Framework (OSHADSF).

Please visit [www.oshad.ae](http://www.oshad.ae) to find out more about AD OSHMS (Abu Dhabi Occupational Safety and Health Management System) and Building and Construction Sector OSHMS Requirements. The OSHMS requirements are covered in details in Mechanism 5.0.

For further information, please contact EHS Division, Abu Dhabi City Municipality through its official email address at: [hse@adm.gov.abudhabi](mailto:hse@adm.gov.abudhabi)

Yours Faithfully,

Dr. Huda Khalifa Al Salmi  
Division Manager  
Environment, Health & Safety

دائرة البلديات والنقل  
DEPARTMENT OF MUNICIPALITIES  
AND TRANSPORT  
بلدية مدينة أبوظبي  
ABU DHABI CITY MUNICIPALITY

المراجع: ADM-06-2021

الكيان: بيسكو الإمارات للمقاولات الكهربائية - ذ م م

التاريخ: 14 يناير 2021

السادة الكرام،

إخطار بيسكو بالخطورة للكيانات المرشحة للانتقال لمطلبت نظام إدارة السلامة والصحة المهنية

استكملت الجهة التنظيمية لتقاطع البناء والإنشاء عملية تصنيف المخاطر لشركتكم وفقاً للمعايير المحددة، ولقد تم تصنيفكم "كيان متوسط الخطورة".

وعليه يرجى من سوابقتكم تنفيذ المتطلبات المنصوص في الآلية 5.0 في الإطلال العام لنظام إدارة السلامة والصحة المهنية لإمارة أبوظبي والتوافق معها استناداً لتقارير إمارة أبوظبي رقم (42) لسنة 2009 في غضون ستة أشهر من تاريخ الإخطار الرسمي.

ملاحظة: يمكن أن يتغير تصنيف شركتكم في أي وقت حسب طبيعة المشروع/ الأنشطة التي تزاوها شركتكم، وبتأثيراً على نتيجة مراجعة تصنيف المخاطر كل ثلاث (3) سنوات مما قد يتغير عليه تغيير في متطلبات الانتقال للإطلال العام لنظام إدارة السلامة والصحة المهنية لإمارة أبوظبي بالنسبة لشركتكم.

يرجى زيارة الموقع التالي: [www.oshad.ae](http://www.oshad.ae) للإطلاع على مزيد من المعلومات عن نظام إدارة السلامة والصحة المهنية لإمارة أبوظبي ومتطلبات نظام إدارة السلامة والصحة المهنية لتقاطع البناء والإنشاء حيث توجد معلومات تفصيلية عنها في الآلية 5.0.

لمزيد من الاستفسارات يرجى التواصل مع إدارة البيئة والصحة والسلامة في بلدية مدينة أبوظبي عبر البريد الإلكتروني: [hse@adm.gov.abudhabi](mailto:hse@adm.gov.abudhabi)

وقضوا يقبول فائق الإحترام والتقدير،



# VAT

**GENERAL QUESTIONNAIRE**

**NOTE:**

1	The below questionnaire duly filled shall be submitted along with Page 1 (certified ICV summary sheet) in the commercial bid of any tender.
2	All the details below shall be as per the last financial year.
3	The below details are being collected for information only. It will not be considered as part of ICV calculation or evaluation.

**1. Name & address of the Company**

PESCO Emirates Electrical Services & Contracting LLC,  
P. O. Box 127748, Office No. 901, Silver Wave Tower, Mina Street, Abu Dhabi, UAE

**2. Registration number**

ADNOC Commercial Registration Number: 10012174  
Company License Number: CN-1097213  
Human Resource Authority Registration Number (ref. 4.6.e of Supplier Submission Guideline)

**3. Briefly describe the area of business**

EPC Contracting, Turn Key Power Plants, Oil & Gas and T&D, FEED, Detailed Engineering, Studies, Installation, Testing, Commissioning, Start-Up, Control & Protection Upgrade, Third Party Inspection, Maintenance, Supply of Experts Manpower for Oil & Gas, Power Plants, & Substations.

**4. Ownership**

**Name of the Owner**  
Mr. Hasan Ali Hasan Mazran Alshaheri  
Mr. Assem Ibrahim  
Mr. Mohammed Nada  
Mr. Osama Khedr

*If the Company is a subsidiary of Parent Company or part of the Holding Company Parent Company.*  
Name of the Parent/Holding Company: N/A  
Country of Parent/Holding Company: N/A

**5. Organization**

Organization Structure	Emirati number	Expats Number
Senior Management: (CEO/COO/CEO/CIO etc.)		4
Middle Management: (Managers)		5
Skilled Workforce: (Technical/ Non Technical professionals)		27
Semi skilled & Unskilled Workforce (Other Staff)		
<b>Total Emirati Fervels at all levels</b>		36

**6. Relationship with SMEs**

Number of SMEs dealt with: \_\_\_\_\_  
Value of Goods / Services procured from SMEs (USD): \_\_\_\_\_

**7. Research & Development**

Amount spend on R&D (USD): N/A  
Brief description of R&D activities: \_\_\_\_\_

**8. Local Supplier Development**

Number of Local Suppliers developed / under development: N/A  
Amount spend on LSD (USD): \_\_\_\_\_  
Brief description of LSD activities (name of Local Suppliers & areas of development): \_\_\_\_\_

**9. Training & Development**

Particulars	Number	Spend (USD)
Emiratis		
Expats	36	

**10. Corporate Social Responsibility**

ACTIVITY	BENEFICIARY	AMOUNT SPEND (US\$)
N/A		



# ICV

**ADNOC IN-COUNTRY VALUE PROGRAM**  
**ICV CERTIFICATE**  
**REVISION 2**

**A. COMPANY GENERAL INFORMATION**

Name	Commercial License No.	ADNOC Vendor ID (For Registered Suppliers with ADNOC only)
PESCO Emirates Electrical Services & Contracting LLC	CN-1097213	10012174

Address	Contact Person Details	
P. O. Box No. 127748, Office No. 901, Silver Wave Tower, Mina Street, Abu Dhabi, UAE	Name	Mr. Assem Ibrahim
	E-mail	assem_ibrahim@pescotad.com
	Office	+971 2 679 9527
	Mobile	+971 55 811 2748

Company Type (Select from drop down list)	SME in UAE	Company based in (Select from drop down list)	Within UAE
SME in UAE			Within UAE

Financial Year: 2018

Company Business: SERVICE PROVIDER

**B. IN-COUNTRY VALUE DETAILS**

Description	Applicability	Overall ICV Component
Goods Manufactured	N/A	N/A
Third Party spend	Yes	1.71%
Investment	Yes	10.00%
Investment - top up	Yes	0.00%
Manpower - Emiratisation	Yes	0.00%
Manpower - Expats	Yes	5.64%
Additional Bonus (Exports + Emirati Head counts)	Yes	0.00%
<b>TOTAL ICV SCORE</b>		<b>17.35%</b>

ORIGINAL CERTIFICATE ISSUE DATE	9 July 2019	ICV SCORE VALID TILL	8 January 2021
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**FOR CASES OF RE-CERTIFICATION (\*) (CERTIFYING BODY TO FILL THE DETAILS)**

Re-certification (*) No.	NA	(*) When re-certified based on same financial statement used for Original ICV certificate
--------------------------	----	---

Reason for this Recertification	NA
---------------------------------	----

Signed by:

On behalf of Supplier:

Name: Mr. Assem Ibrahim  
Designation: CEO  
Date: 9 July 2019

Verified as per ADNOC Agreed Upon Procedures (AUP)  
On behalf of Certification Body:

Name: \_\_\_\_\_  
Designation: Associate Partner  
Company: Ernst and Young Middle East  
Date: 9 July 2019  
Certificate issued based on Guideline Version: \_\_\_\_\_

2/1



# ISO Certificates

СИСТЕМА СЕРТИФИКАЦИИ РУССКОГО РЕГИСТРА  
RUSSIAN REGISTER CERTIFICATION SYSTEM



## CERTIFICATE

This is to certify that

**PESCO Emirates Electrical Service & Contracting**  
9<sup>th</sup> Floor, Silver Wave Tower, Mina Street, Abu Dhabi, UAE

has been audited within the frameworks of the Occupational Health and Safety Management System audit of PESCO

in respect of the processes performed by it: Electromechanical, Instrumentation, Process, Fabrication and Civil Turnkey Solutions including Engineering, Detailed Design, Installation, Fabrication, Testing, Commissioning, Start-up and O&M EPC Contractor and Fabricator for Transmission & Distribution, Power Plants and Oil & Gas Industry

The Occupational Health and Safety Management System PESCO has been recognized conforming to the requirements of  
**ISO 45001:2018**

No: 20.1008.026-1  
of 13<sup>th</sup> July, 2020

Management system certified since 2017

Director General of Certification Association "Russian Register"

This certificate is valid until 13<sup>th</sup> July, 2023

This certificate becomes invalid if conditions of certification are not fulfilled (<http://www.rusregister.ru/doc/004.00-105.pdf>). This Certificate is the property of Certification Association "Russian Register". This certificate becomes invalid if certificate No 20.1008.026 is suspended or canceled.



05-002989

RUSSIAN REGISTER РУССКИЙ РЕГИСТР

СИСТЕМА СЕРТИФИКАЦИИ РУССКОГО РЕГИСТРА  
RUSSIAN REGISTER CERTIFICATION SYSTEM



## CERTIFICATE

This is to certify that

**PESCO Emirates Electrical Service & Contracting**  
9<sup>th</sup> Floor, Silver Wave Tower, Mina Street, Abu Dhabi, UAE

has been audited within the frameworks of the the Environmental Management System audit of PESCO

in respect of the processes performed by it: Electromechanical, Instrumentation, Process, Fabrication and Civil Turnkey Solutions including Engineering, Detailed Design, Installation, Fabrication, Testing, Commissioning, Start-up and O&M EPC Contractor and Fabricator for Transmission & Distribution, Power Plants and Oil & Gas Industry

The Environmental Management System PESCO has been recognized conforming to the requirements of  
**ISO 14001:2015**

No: 20.1005.026-1  
of 13<sup>th</sup> July, 2020

Management system certified since 2017

This certificate is valid until 13<sup>th</sup> July, 2023

Director General of Certification Association "Russian Register"

This certificate becomes invalid if conditions of certification are not fulfilled (<http://www.rusregister.ru/doc/004.00-105.pdf>). This Certificate is the property of Certification Association "Russian Register". This certificate becomes invalid if certificate No 20.1005.026 is suspended or canceled.



LIST OF THE COUNTRIES WHICH ARE REPRESENTED IN IAF AND ARE SIGNATORIES OF THE MULTILATERAL AGREEMENT ON RECOGNITION IAF MLAs:  
Australia and New Zealand IAS-ANZ, Argentina OAA, Austria AA, Belgium BELAC, Bulgaria EA-BAS, Brazil COCIR, Great Britain UKAS, Hungary NAI, Germany DAKES, Hong-Kong HKAS, Greece ISYD, Denmark DANAK, Egypt EGAC, India NABCB, Indonesia KAS, Iran NACI, Ireland INAB, Spain ENAC, Italy ACCREDIA, Kazakhstan NCA, Canada SCC, China CNAS, Colombia ONAC, Korea KAB, Costa Rica ECA, Luxembourg GLAS, Malaysia DSM, Mexico EMA, Netherlands RVA, Norway NA, UAE DAC, ARAC, Pakistan PNAC, Peru INACAL-PA, Poland PCA, Portugal IPAC, Romania RINA, Serbia ATIS, Singapore SAC, Slovakia SNAS, Slovenia SA, USA ANAB, IAS, Thailand NSC, Taiwan TAF, Tunisia TUNAC, Turkey TURKAK, Ukraine NAAU, Uruguay OUA, Philippines PAB, Finland FINAS, France COFRAC, Czech Republic CAL, Chile INN, Switzerland SAS, Sweden SWEDAC, Sri Lanka SLAI, Ecuador SAE, South Africa SANAS, Japan JAB

03-002575

Certification Association "Russian Register": 101 Rinskogo-Korsakova Ave., 190121, Saint Petersburg, Russia

СИСТЕМА СЕРТИФИКАЦИИ РУССКОГО РЕГИСТРА  
RUSSIAN REGISTER CERTIFICATION SYSTEM



## CERTIFICATE

This is to certify that

**PESCO Emirates Electrical Service & Contracting**  
9<sup>th</sup> Floor, Silver Wave Tower, Mina Street, Abu Dhabi, UAE

has been audited within the frameworks of the Quality Management System audit of PESCO

in respect of the processes performed by it: Electromechanical, Instrumentation, Process, Fabrication and Civil Turnkey Solutions including Engineering, Detailed Design, Installation, Fabrication, Testing, Commissioning, Start-up and O&M EPC Contractor and Fabricator for Transmission & Distribution, Power Plants and Oil & Gas Industry

The Quality Management System PESCO has been recognized conforming to the requirements of  
**ISO 9001:2015**

No: 20.1002.026-1  
of 13<sup>th</sup> July, 2020

Management system certified since 2017

This certificate is valid until 13<sup>th</sup> July, 2023

Director General of Certification Association "Russian Register"

Specification of the certification scope is provided in Annex. This certificate becomes invalid if conditions of certification are not fulfilled (<http://www.rusregister.ru/doc/004.00-105.pdf>). This Certificate is the property of Certification Association "Russian Register". This certificate becomes invalid if certificate No 20.1002.026 is suspended or canceled.



LIST OF THE COUNTRIES WHICH ARE REPRESENTED IN IAF AND ARE SIGNATORIES OF THE MULTILATERAL AGREEMENT ON RECOGNITION IAF MLAs:  
Australia and New Zealand IAS-ANZ, Argentina OAA, Austria AA, Belgium BELAC, Bulgaria EA-BAS, Brazil COCIR, Great Britain UKAS, Hungary NAI, Vietnam IVA, Germany DAKES, Hong-Kong HKAS, Greece ISYD, Denmark DANAK, Egypt EGAC, India NABCB, Indonesia KAN, Iran NACI, Ireland INAB, Spain ENAC, Italy ACCREDIA, Kazakhstan NCA, Canada SCC, China CNAS, Colombia ONAC, Korea KAB, Costa Rica ECA, Luxembourg GLAS, Malaysia DSM, Mexico EMA, Netherlands RVA, Norway NA, UAE DAC, ARAC, Pakistan PNAC, Peru INACAL-PA, Poland PCA, Portugal IPAC, Romania RINA, Serbia ATIS, Singapore SAC, Slovakia SNAS, Slovenia SA, USA ANAB, IAS, Thailand NSC, Taiwan TAF, Tunisia TUNAC, Turkey TURKAK, Ukraine NAAU, Uruguay OUA, Philippines PAB, Finland FINAS, France COFRAC, Czech Republic CAL, Chile INN, Switzerland SAS, Sweden SWEDAC, Sri Lanka SLAI, Ecuador SAE, South Africa SANAS, Japan JAB

01-015051

Certification Association "Russian Register": 101 Rinskogo-Korsakova Ave., 190121, Saint Petersburg, Russia



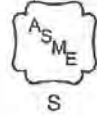
# ASME

## Certificates

Planning for 2021-2022  
Implementation for  
**ASME Nuclear**  
Component (**N**-type)  
Certification  
(Under Process)

### ASME S (Power boiler)

The American Society of Mechanical Engineers



#### CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

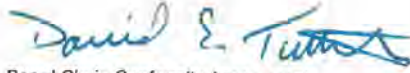
COMPANY:


**PESCO for projects ,contracting & industry**  
unit 16, industrial zone, Sadat city elmotwween,  
Elmonoifia,  
Egypt


SCOPE:

**Manufacture and assembly of power boilers at the above location and field sites controlled by the above location**

AUTHORIZED: **August 19, 2019**  
EXPIRES: **August 19, 2022**  
CERTIFICATE NUMBER: **58139**


  
 Board Chair, Conformity Assessment

  
 Managing Director, Conformity Assessment



### ASME U (Pressure vessels)

The American Society of Mechanical Engineers



#### CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.


COMPANY:


**PESCO for projects ,contracting & industry**  
unit 16, industrial zone, Sadat city elmotwween,  
Elmonoifia,  
Egypt


SCOPE:

**Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)**

AUTHORIZED: **August 19, 2019**  
EXPIRES: **August 19, 2022**  
CERTIFICATE NUMBER: **58140**

  
 Board Chair, Conformity Assessment

  
 Managing Director, Conformity Assessment



# ASME Certificates

## ASME PP (Pressure Pipping)

The American Society of Mechanical Engineers



### CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

**PESCO for projects ,contracting & industry**  
unit 16, Industrial zone, Sadat city elmotwereen,  
Elmonoifia,  
Egypt

SCOPE:

**Fabrication and assembly of pressure piping at the above location and field sites controlled by the above location**

AUTHORIZED: **August 19, 2019**  
EXPIRES: **August 19, 2022**  
CERTIFICATE NUMBER: **58138**

  
David E. Tuttle  
Board Chair, Conformity Assessment

  
Joseph J. ...  
Managing Director, Conformity Assessment



## ASME R (Repairs & Alterations)

### THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS

### *Certificate of Authorization*



*This is to certify that*  
**PESCO for projects, contracting & industry**  
unit 16, industrial zone, Sadat city elmotwereen  
Elmonoifia  
Egypt  
Acceptable Abbreviation: **PESCO**

*is authorized to use the R Symbol in accordance with the provisions of the National Board Inspection Code and NB-415, Accreditation of "R" Repair Organizations.*

All activities within the scope of this Authorization shall be controlled by the above location.

The scope of this Authorization is limited to:

Metallic  
Repairs and Alterations  
At  
Shop and Field Locations

Certification Number: 11221  
Issue Date: July 30, 2019  
Expiration Date: July 29, 2022  
Executive Director: 





# TRANSCO

## Appreciation Certificates



Ref. No. : TRANSCO/PRO/01003  
Date : 30 MAR 2016

### CERTIFICATE TO WHOM IT MAY CONCERN

This is to certify that "TRANSCO" has contracted PESCO Company for the following projects on Turnkey basis:

- N-12315 - Title : Replacement of Mimic Panels at Taweelah 400KV S/S  
 - Cost : AED [REDACTED]  
 - Project LOA Date : 25th February 2014  
 - Project Contractual Completion Date : 24th August 2015  
 - Project Actual Completion Date : 8th April 2015  
 (Project Completed in ~ 5\*Month ahead of schedule)
- N-6892 - Title : Upgradation & Rehabilitation of protection system  
 - Cost : AED [REDACTED]  
 - Project LOA Date : 30th June 2010  
 - Project Contractual Completion Date / Main Order : 30th June 2011  
 - Project Actual Completion Date / Main Order : 24th April 2011  
 (Project Completed in ~2\*Month ahead of schedule)
- N-6892/VO1 - Title : Upgradation & Rehabilitation of protection system  
 - Cost : AED [REDACTED]  
 - N-6892/VO 1 LOA Date : 29th March 2011  
 - Project Contractual Completion Date / VO : 29th August 2011  
 - Project Actual Completion Date / VO : 02nd June 2011  
 (Project VO Completed in ~3\*Month ahead of schedule)

During implementation of the projects, PESCO demonstrated good technical capabilities and management skills. PESCO was able to cope with the challenges in working and complementing the shutdown works for 132kV and 400kV systems in TRANSCO substations under the above listed projects.

With reference to the above, TRANSCO declares that projects executed by PESCO were ahead of schedule, with compliance to TRANSCO specification and HSEQ standards. TRANSCO value their works and wish them "Good Luck" for future projects.

Regards,

Dr. Saleh Al Harthi  
Projects Director



Telephone: +971 2 4100000 | Fax: +971 2 4104444 | P.O. Box: 173, Abu Dhabi, U.A.E. | www.transco.ae



### CERTIFICATE

### TO WHOM IT MAY CONCERN

This is to certify that "TRANSCO" Maintenance Department has contracted PESCO Company for the following projects:

- I. N-12386 :  
 Replacement of Old 110 V DC System with New 110 V DC Systems atKLDY S/S, TWPS S/S, MOS-A S/S, Dahma S/S, Hayer S/S & Wagan S/S in Abu Dhabi and Al Ain.  
 Cost: AED [REDACTED]  
 Project LOA Date : 1<sup>st</sup> April 2014  
 Project Contractual Completion Date : 31<sup>st</sup> January 2015  
 Project Actual Completion Date : 18<sup>th</sup> January 2015  
 (Project Completed ahead of schedule)

During implementation of the Maintenance Projects, PESCO demonstrated good technical capabilities and management skills. PESCO was able to cope with the challenges in working and complementing the shutdown works for 132KV and 400KV systems in TRANSCO substations under the above listed project.

With reference to the above, TRANSCO declares that projects executed by PESCO were ahead of schedule, with compliance to TRANSCO specification and HSEQ standards. TRANSCO value their works and wish them "Good Luck" for future projects.

Name : *Abdulkhaleem Alzarooni*  
 Title : *AD Region Maintenance Department Manager*  
 Signature : *[Signature]*  
 Date : *21/8/2015*



# GE Consortium Partners

&

# Appreciation Certificates



GE Power

Mohamed Marzouk  
Executive Global EPC Partnering &  
Tendering CoE  
GE Power

1 River Road  
Schenectady, NY  
12345, USA

M +1 518 867 5516  
Mohamedm.marzouk@ge.com

PESCO Emirates Electrical Services & Contracting – L.L.C.  
P.O. Box – 127748, Mina Road,  
Silver Wave Tower, Office #901,  
Abu Dhabi, U.A.E.

Date: Jan 9, 2020

Subject: Consortium Partner Qualification Announcement

Dear Mr. Aseem Ibrahim,

GE would like to thank the leadership of PESCO Emirates Electrical Services & Contracting L.L.C. for their cooperation in providing the documents in relation to EPC consortium partner qualification.

GE would like to take the opportunity to announce PESCO Emirates Electrical Services & Contracting L.L.C. as a qualified EPC consortium partner for Simple Cycle Power Projects for Aero units TMs 2500, 6B, 9E in Yemen, Egypt, Libya, Iraq and Oman.

The partnership qualification is based on GE Consortium Principles and mutually agreed Pre-Qualification Summary.

With kind regards,

Signed:

Name: Mohamed Marzouk  
Title: Executive Global EPC Partnering & Tendering CoE

Attachment:

1- Pre-Qualification Summary



Date: 1<sup>st</sup> May 2018

BHGE  
Nuovo Pignone S.p.A.  
Via Felice Matteucci, 2  
50127 Firenze, Italy  
T +39 055 423 211  
F +39 055 423 2800

## TO WHOM IT MAY CONCERN

**Project:** PetroMasila 3 x TM2500 Mobile Gensets and BOP, Yemen

**Subject:** Letter of Appreciation – PESCO Emirates Electrical Services & Contracting

Dear Sir / Madam,

We refer to our recent project with Petromasila, in Yemen for supply of 3 x TM2500 Gen 8's along with Balance of plant equipment.

**PESCO Emirates Electrical Services & Contracting** was the Project EPC Contractor in-charge of the whole Project Specifications, Engineering, Installation, Testing, Commissioning and Start-Up and provided installation & commissioning support for the 3 x TM2500 Gen 8, Liquid Fuel Treatment Trailers and Fuel Gas Compressors (AJEX) supplied by BHGE.

It's our great pleasure to advise, that, the services & support provided by PESCO were extremely professional and of top quality. With their support the Units and the complete BOP were installed and commissioned in a very short time.

**We would like to thank PESCO for their exceptional support provided to BHGE.**

Yours sincerely,

**Rashid Al Mehthel**  
Project Management Leader – Gulf  
Turbomachinery & Process Solutions  
BHGE





# ABB

## Appreciation Certificates

Mannheim, 1<sup>st</sup> June 2013

### Recommendation Letter

To Whom It May Concern,

We are giving this recommendation letter to our subcontractor PESCO Energy Field Services & Contracting, T&D Division Abu Dhabi, for their excellent performance in our Sharjah Electricity & Water Authority ("SEWA") Project "Remote End Modification Works at Al-Nahda & Majaz Substations" in Sharjah, U.A.E.

PESCO provided for ABB's above mentioned project qualified and motivated manpower for installation and commissioning support of ABB made Protection Relays. During site works we get to know PESCO as a well-organized and reliable partner, who is able to understand and support our project demands on high level.

Given our experience from the performance of PESCO, we are happy to recommend them as contractor for erection and commissioning services for high voltage substation projects.

Yours faithfully

  
Tobias Nentwig  
Project Manager



  
Karl-Erik Olausson  
Commercial Manager

### ABB AG Power Systems Division

Postal Address:  
Postfach 10 03 51  
68128 Mannheim  
Germany

Visiting Address:  
Kaisertor Straße 1  
68309 Mannheim  
Phone: +49 621 381-0  
Telefax: +49 621 381-4318  
Internet: www.abb.de/pt

Head Office: Mannheim  
Registry Court: Mannheim  
Comm. Register: HRB 4864  
VAT: 38180/10046  
VAT-Id: DE143840362

Chairman Supervisory Board:  
Dipl.-Ing. Bernhard Jucker  
Members of the Management Board:  
Dr. sc. techn. ETH Peter Terwiesch  
(Chair.)  
Dipl.-Volkswirt Hans-Georg Krabbe  
Dr.-Ing. Martin Schumacher  
Dipl.-Kfm. Markus Ochsner

Bank Details:  
UniCredit Bank AG, München  
BIC: 700 202 70  
Account-No.: 5728484  
IBAN: DE46 7002 0270 0005 7264 84  
SWIFT: HYVEDEMMXXX

Commerzbank AG, Mannheim  
BIC: 670 400 31  
Account-No.: 03325099 00  
IBAN: DE21 6704 0031 0332 5099 00  
SWIFT: COBADEFF670

Commerzbank AG, Mannheim  
BIC: 670 800 50  
Account-No.: 06862198 00  
IBAN: DE72 6708 0050 0686 2198 00  
SWIFT: DRESDEFF670

Mannheim, 1<sup>st</sup> June 2013

### Recommendation Letter

To Whom It May Concern,

We are giving this recommendation letter to our subcontractor PESCO Energy Field Services & Contracting, T&D Division Abu Dhabi, for their excellent performance in our Sharjah Electricity & Water Authority ("SEWA") Project "Extension of 132kV GIS Switchgear at 132/33kV Wasit Substation for connectivity with Ajman Grid Substation" in Sharjah, U.A.E.

PESCO provided for ABB's above mentioned project qualified and motivated manpower for erection and commissioning support of 132kV ABB made Gas Insulated Switchgear, Protection and Communication Equipment. During site works we get to know PESCO as a well-organized and reliable partner, who is able to understand and support our project demands on high level.

Given our experience from the performance of PESCO, we are happy to recommend them as contractor for erection and commissioning services for high voltage substation projects.

Yours faithfully

  
Tobias Nentwig  
Project Manager



  
Karl-Erik Olausson  
Commercial Manager

### ABB AG Power Systems Division

Postal Address:  
Postfach 10 03 51  
68128 Mannheim  
Germany

Visiting Address:  
Kaisertor Straße 1  
68309 Mannheim  
Phone: +49 621 381-0  
Telefax: +49 621 381-4318  
Internet: www.abb.de/pt

Head Office: Mannheim  
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VAT: 38180/10046  
VAT-Id: DE143840362

Chairman Supervisory Board:  
Dipl.-Ing. Bernhard Jucker  
Members of the Management Board:  
Dr. sc. techn. ETH Peter Terwiesch  
(Chair.)  
Dipl.-Volkswirt Hans-Georg Krabbe  
Dr.-Ing. Martin Schumacher  
Dipl.-Kfm. Markus Ochsner

Bank Details:  
UniCredit Bank AG, München  
BIC: 700 202 70  
Account-No.: 5728484  
IBAN: DE46 7002 0270 0005 7264 84  
SWIFT: HYVEDEMMXXX

Commerzbank AG, Mannheim  
BIC: 670 400 31  
Account-No.: 03325099 00  
IBAN: DE21 6704 0031 0332 5099 00  
SWIFT: COBADEFF670

Commerzbank AG, Mannheim  
BIC: 670 800 50  
Account-No.: 06862198 00  
IBAN: DE72 6708 0050 0686 2198 00  
SWIFT: DRESDEFF670



# Completion Certificates

JANNAH HUNT OIL COMPANY  
Commercial Registration No: 21/1629  
P. O. Box 16084  
Sana'a, Republic of Yemen  
Telephone : 967-1- 414-060  
Telefax : 967-1- 414-632

شركة هنت جنة للنفط  
رقم السجل التجاري : ٢١/١٦٢٩  
ص.ب ١٦٠٨٤  
سنة - الجمهورية اليمنية  
هاتف : ٩٦٧-١-٤١٤-٠٦٠  
فاكس : ٩٦٧-١-٤١٤-٦٣٢

**Subject: Services and Projects of PESCO Company**

**Agreement # JNOP-60138-INT1 -1  
Project # 60138**

This is to certify that "JUNNAH HUNT Oil Company" has contracted "PESCO Company" for a value of [REDACTED] for the following scope:

- 1- Electrical System Upgrade Study.
- 2- Al-Nasr Oil Field Switchgear Extension: Engineering, Procurement, Installation, Testing and Commissioning of the complete electrical scope.
- 3- Al-Nasr Oil Field new Generator Control Panel: Engineering, Procurement, Installation, Testing and Commissioning of the complete electrical scope.
- 4- Complete Protection System Preventive Maintenance in all the on-shore sites.
- 5- HALEWAH Oil Field MCC Extension: Engineering, Procurement, Installation, Testing and Commissioning of the complete electrical scope.

The work has been successfully completed up to full JHUNT satisfaction, without any punch list items, as per JHUNT highest standard, with full compliance to HSE requirements as well as Ahead of Schedule.

Name : Adel Sharaf Derhem Al-Hamadi

Title : Deputy General Manager

Signature : 

Date : 11.18.2013



JANNAH HUNT OIL COMPANY  
Commercial Registration No: 21/1629  
P. O. Box 16084  
Sana'a, Republic of Yemen  
Telephone : 967-1- 414-060  
Telefax : 967-1- 414-632

شركة هنت جنة للنفط  
رقم السجل التجاري : ٢١/١٦٢٩  
ص.ب ١٦٠٨٤  
سنة - الجمهورية اليمنية  
هاتف : ٩٦٧-١-٤١٤-٠٦٠  
فاكس : ٩٦٧-١-٤١٤-٦٣٢

## CERTIFICATE

**Subject : Services of PESCO Company**

**Agreement # JNOP-60138-INT1 -1**

This is to certify that "JUNNAH HUNT Oil Company", Yemen has contracted

PESCO Company for the following projects, Where, those Projects have been successfully completed up to full JHUNT satisfaction as well as in accordance with JHUNT requirements and projects milestones dates.

- 1- Al-Nasr Oil Field Switchgear Extension Project # 60138 - 2007/2008 - : scope of work covers engineering, supply, installation, testing and commissioning of the Electrical scope.
- 2- Al-Nasr Oil Field new Generator Panel Project # 60138 - 2007/2008 - : scope of work covers engineering, supply, installation, testing and commissioning of the new generator control panel material.
- 3- Annual Preventive Maintenance for Protection System.

Name : Saleh Mohamed Al-Hawari

Title : Operations Manager

Signature : 

Date :



JANNAH HUNT OIL COMPANY  
Commercial Registration No: 21/1629  
P. O. Box 16084  
Sana'a, Republic of Yemen  
Telephone : 967-1- 414-060  
Telefax : 967-1- 414-632

شركة هنت جنة للنفط  
رقم السجل التجاري : ٢١/١٦٢٩  
ص.ب ١٦٠٨٤  
سنة - الجمهورية اليمنية  
هاتف : ٩٦٧-١-٤١٤-٠٦٠  
فاكس : ٩٦٧-١-٤١٤-٦٣٢

## CERTIFICATE

**Subject : Services of PESCO Company**

**Agreement # JAM-20080186-INT -1-0**

This is to certify that "JUNNAH HUNT Oil Company", Yemen has contracted

PESCO Company for the following projects, Where, those Projects have been successfully running till now up to full JHUNT satisfaction as well as in accordance with JHUNT requirements and projects milestones dates.

- 1- HALEWAH Oil Field MCC Extension Project # XXXXXXX - 2009/2010 - : scope of work covers engineering, supply, installation, testing and commissioning of the Electrical scope.

Name : Saleh Mohamed Al-Hawari

Title : Operations Manager

Signature : 

Date :



# Completion Certificates (cont.)



## CERTIFICATE

**Subject: Services of PESCO EMIRATES**

**Agreement # SEPOC/CPU-2005-0017**

This is to certify that "SAFER Oil Company- SEPOC", Yemen has contracted PESCO EMIRATES for the following projects, where, those Projects have been successfully completed up to SAFER full satisfaction as well as in accordance with SAFER requirements and projects milestones dates.

1- Raydan Oil Field Extension Project # **1015 M** – 2008/2009 - : scope of works covers supply, engineering, installation, testing and commissioning of the Electrical scope as well as installation, testing and commissioning of the complete instrumentation and control system.

2- YLNG Upstream Project (Phase I – KPU) # **1047 M** – 2009 - : Scope of work covers Construction Supervision, QA&QC Services & Testing and Commissioning for ALL the E&I Scope.

3- Protection System Rehabilitation Project ( KPU, CPU & Al-Raja ) #**Y 9130, Y 1130, Y 7230** : 2006/2007/2008 - : Scope of work covers supply of protection relays, Trip Circuit Supervision relays, Engineering, Installation, Panels Modifications, Testing and Commissioning.

4- Annual Preventive Maintenance for Protection System for 2005 & 2007.

Name: **Khaled Al-Madani**

Title: **Engineering & Construction Manager**

Signature: *K. Al-Madani*

Date: **15 December 2009**



ص.ب (٤٨١) - صنعاء - الجمهورية اليمنية - هاتف: ٤١٦٠٨٠ (+٩٦٧-١) - فاكس: ٤١٦٠٧٩ (+٩٦٧-١)  
P.O.Box: (481) - Sana'a - Republic of Yemen - Tel.: (+967-1)416080 - Fax: (+967-1)416079



## CERTIFICATE

**Subject: Services and Projects of PESCO Company**

**Agreement # SEPOC/CPU-2005-0017**

**Project # Y9130**

This is to certify that "SAFER Oil Company" has contracted "PESCO Company" for a value of [REDACTED] for the following scope:

- 1- Electrical System Upgrade Study.
- 2- Short Circuit Studies for KPU & Al-Raja
- 3- "Electrical Protection System Upgrade Works" Engineering, Procurement, Installation, Testing, Commissioning and Training for Maintenance team.
- 4- Preventive maintenance for the electrical system and protection.
- 5- Creating the AUTOCAD drawings for the above as well as all KPU&RAJA Plants.
- 6- Ma'arib City feeder Protection upgrade.

The work has been successfully completed up to full SAFER satisfaction, without any punch list items, as per SAFER highest standard, with full compliance to HSE requirements as well as Ahead of Schedule.

Name: **Khaled Al-Madani**

Title: **Engineering & Construction Manager**

Signature: *K. Al-Madani*

Date: **11 March 2012**



ص.ب (٤٨١) - صنعاء - الجمهورية اليمنية - هاتف: ٤١٦٠٨٠ (+٩٦٧-١) - فاكس: ٤١٦٠٧٩ (+٩٦٧-١)  
P.O.Box: (481) - Sana'a - Republic of Yemen - Tel.: (+967- 1)416080 - Fax: (+967- 1)416075  
Website: [www.sepoc.com](http://www.sepoc.com)



## CERTIFICATE

**Subject: Services and Projects of PESCO Company**

**Agreement # SEPOC/CPU-2005-0017**

**Project # 1015 M**

This is to certify that "SAFER Oil Company" has contracted "PESCO Company" for a value of [REDACTED] for the following scope:

- 1- RAYDAN Plant Complete Electrical System Engineering including preparation of the project Specifications.
- 2- "Electrical Equipment" Engineering, Procurement, Installation, Testing, Commissioning, Start-up and Training for Maintenance team.
- 2- "Instrumentation System" Engineering, Review, Installation, Testing, Commissioning, Start-up and Training for Maintenance team.
- 3- All site and construction management and coordination including Civil & Mechanical activities.
- 5- Creating the AUTOCAD drawings for the above as well as all the complete plant documentation.

The work has been successfully completed up to full SAFER satisfaction, without any punch list items, as per SAFER highest standard, with full compliance to HSE requirements as well as Ahead of Schedule.

Name: **Khaled Al-Madani**

Title: **Engineering & Construction Manager**

Signature: *K. Al-Madani*

Date: **11 March 2012**



ص.ب (٤٨١) - صنعاء - الجمهورية اليمنية - هاتف: ٤١٦٠٨٠ (+٩٦٧-١) - فاكس: ٤١٦٠٧٩ (+٩٦٧-١)  
P.O.Box: (481) - Sana'a - Republic of Yemen - Tel.: (+967- 1)416080 - Fax: (+967- 1)416075  
Website: [www.sepoc.com](http://www.sepoc.com)



# Completion Certificates (cont.)

REPUBLIC OF YEMEN  
Ministry of Oil & Minerals  
Safer Exploration & Production  
Operations Co. (SEPOC)



الجمهورية اليمنية  
وزارة النفط والمعادن  
شركة سافر لعمليات الاستكشاف والإنتاج

## CERTIFICATE

Subject: Services and Projects of PESCO Company

Agreement # SEPOC/CPU-2005-0017  
Project # 1047 M & 1048 M

This is to certify that "SAFER Oil Company" has contracted "PESCO Company" for a value of [REDACTED] for the following scope:

- 1- YLNG Phase I&II Complete site construction and QA/QC supervision (Electrical, Instrumentation, DCS, SCADA, Civil, Mechanical, Process, Contracts, HSE, Planning, Document Control, Administration,)
- 2- YLNG Phase I&II Complete Commissioning, Start-up and Training for Maintenance team.
- 3- YLNG Phase I&II Engineering design review and site modifications.

The work has been successfully completed up to full SAFER satisfaction, without any punch list items, as per SAFER highest standard, with full compliance to HSE requirements as well as Ahead of Schedule.

Name: Khaled Al-Madani

Title: Engineering & Construction Manager

Signature:

Date: 11 March 2012



ص.ب (481) - صنعاء - الجمهورية اليمنية - هاتف: 416080 (+967-1) - فاكس: 416075 (+967-1)  
P.O.Box: (481) - Sana'a - Republic of Yemen - Tel.: (+967-1) 416080 - Fax: (+967-1) 416075  
Website: www.sepocye.com

PESCO

## Job Completion Certificate

Customer : SIEMENS Location : AI-FIRDOUS 5/S (E9)  
Project Name : Installation of new protection panels, frames, cable laying and termination at E9 5/S Site : E9  
Date of completion : 08.09.2016 Order No. : 4506956456

Scope of work:

1. 100% job completed; frames and panels installation in E9 substation (E07+R1 / E07+R2). ✓
2. 100% job completed; Cable laying and testing. ✓
3. 100% job completed; Cable glanding and termination from one side (new panels E07+R1 and E07+R2). ✓

This is to certify that the work scope as per the order number mentioned above, has achieved the customer's requirement.

Approved by Customer Representative  
Signature  
Name  
Designation  
Date

Project Engineer  
15/09/2016



Tel: +971 2 979 9627 Fax: +971 2 076 9547, P.O. Box: 127748, Abu Dhabi - U.A.E.  
E-mail: sales@pescocord.com, Website: www.pescocord.com



SIEMENS

Energy Sector  
Power Transmission - High Voltage Substations

## CERTIFICATE

Subject : Services of PESCO Company

Agreement # PO-4501627319

This is to certify that "SIEMENS LLC - Power Transmission", UAE has contracted PESCO Company for the following project, where, this Project has been successfully completed up to full SIEMENS satisfaction as well as in accordance with SIEMENS requirements and projects milestones dates:

1- Yas Island 132KV Substation - 2008 -:

Scope of work covers testing and commissioning of Yas Island 132KV Substation.

2- W13 & W17 Substations remote end work :

Scope of work covers supervision of installation, testing and commissioning of all the remote ends works.

Name: J.S. Vinton  
Title: Site Operations Manager  
Signature:   
Date: 21/12/09



Siemens LLC

Abu Dhabi, UAE PO Box 47016 Tel: +971 (2) 618 5200  
47015 Fax: +971 (2) 618 5200  
www.siemens.ae

شركة سيمنس (البحرين) لخدمات الطاقة الكهربائية  
Siemens Limited Liability Company, Capital: AED 50,000,000 United Arab Emirates, Reg No: 1008775



# Completion Certificates (cont.)

**SIEMENS** Energy - T & D Services

TO WHOM IT MAY CONCERN

Name	Hariharan
Department	E D SE
Telephone	+971 4 3660 311 / 300
Mobile	+971 55 200 1863
E-mail	Hariharan.Sivamatharan@siemens.com
Date	20 <sup>th</sup> December, 2009


**Subject : Services of PESCO Company  
Agreement # SNC/PESCO/01/2007**

This is to certify that "SIEMENS LLC", UAE has contracted PESCO Company for the following project, Where, this Project has been successfully completed up to full SIEMENS satisfaction as well as in accordance with SIEMENS requirements and projects milestones dates :

1- Protection System Rehabilitation Project at Bahiah Substation / Abu Dhabi - 2007/2008

Scope of work covers Installation, Panels Modifications, Testing and Commissioning of the new protection relays, FO Cables & FO Patch panel.

Name : S HARIHARAN  
Title : HEAD OF PROJECTS, CONTRACTS & FIELD SERVICES  
Signature :   
Date : 20<sup>th</sup> December , 2009



Siemens LLC  
Abu Dhabi, UAE PO Box 47918  
Dubai, UAE PO Box 2154  
www.siemens.ae

Siemens AG PTD Projects Office - Abu Dhabi  
15<sup>th</sup> Floor, Suite 1501, Al Otaha Tower  
Electrica Street  
P. O. Box 5052, Abu Dhabi

SCF 08/2009 V08 12 Page 1 of 1

**SIEMENS** Power Transmission and Distribution  
Project Office Abu Dhabi


**CERTIFICATE OF COMPLETION**


**Subject: Testing & Commissioning Services of PESCO  
Subcontract Agreement # P005534/H-031/2007**

In consideration of provisions of the Subcontract Agreement between SIEMENS AG PTD H263 and PESCO retaining Testing and Commissioning services of PESCO on SAMRA 400kV Substation extension works Project; this 'Certificate of Completion' has been issued by SIEMENS AG in acknowledgement of satisfactory completion of the Works by PESCO on the aforesaid Project in accordance with provisions of aforementioned Subcontract Agreement.

This certificate takes effect from the date of its issue without any right to claim by either Party from the Other.

Signed on behalf of SIEMENS AG PTD H263

Name : Mohammed Al-Banna  
Title : P.M.  
Signature :   
Date : 21/12/2009



Siemens AG PTD Projects Office - Abu Dhabi  
15<sup>th</sup> Floor, Suite 1501, Al Otaha Tower  
Electrica Street  
P. O. Box 5052, Abu Dhabi

# Completion Certificates (cont.)

**SIEMENS** Energy - T & D Services

TO WHOM IT MAY CONCERN

Name	Hariharan
Department	E D SE
Telephone	+971 4 3660 311 / 300
Mobile	+971 55 200 1853
E-mail	Hariharan.Sivamini@siemens.com
Date	20 <sup>th</sup> December, 2009

**Subject : Services of PESCO Company**  
**Agreement # SNC/PESCO/01/2007**

This is to certify that "SIEMENS LLC", UAE has contracted PESCO Company for the following project. Where, this Project has been successfully completed up to full SIEMENS satisfaction as well as in accordance with SIEMENS requirements and projects milestones dates :

1- Protection System Rehabilitation Project at Bahiah Substation / Abu Dhabi - 2007/2008

Scope of work covers Installation, Panels Modifications, Testing and Commissioning of the new protection relays, FO Cables & FO Patch panel.

Name : S HARIHARAN  
 Title : HEAD OF PROJECTS, CONTRACTS & FIELD SERVICES

Signature :   
 Date : 20<sup>th</sup> December , 2009



Siemens LLC  
 Abu Dhabi, UAE PO Box 47015 Tel: +971 (4) 366 0000  
 Dubai, UAE PO Box 2134 Fax: +971 (4) 366 0500  
 www.siemens.ae

Siemens Limited (a liability company) Capital AED 50,000,000 United Arab Emirates, Reg. No. 1038775  
 Page 1 of 1

**SIEMENS** Power Transmission and Distribution  
 Project Office Abu Dhabi

**CERTIFICATE OF COMPLETION**

**Subject: Testing & Commissioning Services of PESCO**  
**Subcontract Agreement # P005534/H-031/2007**

In consideration of provisions of the Subcontract Agreement between SIEMENS AG PTD H263 and PESCO retaining Testing and Commissioning services of PESCO on SAMRA 400kV Substation extension works Project; this 'Certificate of Completion' has been issued by SIEMENS AG in acknowledgement of satisfactory completion of the Works by PESCO on the aforesaid Project in accordance with provisions of aforementioned Subcontract Agreement.

This certificate takes effect from the date of its issue without any right to claim by either Party from the Other.

Signed on behalf of SIEMENS AG PTD H263

Name : Mohammed Al-Harouni  
 Title : P.M.  
 Signature :   
 Date : 21/12/2009



Siemens AG PTD Project Office - Abu Dhabi  
 15<sup>th</sup> Floor, Suite 1501, Al Dinha Tower  
 Electra Street  
 P.O. Box 5052, Abu Dhabi

# Completion Certificates (cont.)



**SIDI KRIR GENERATING COMPANY**  
 شركة سیدی کریر لتولید الكهرباء  
(subsidiary of PowerTEK Energy Sdn. Bhd.)  
 17 El Ahram Street, Wing A, 8th Floor, Road, Heliopolis, Cairo, Egypt  
 tel: +20 2 2414 3640 Fax: +20 2 2414 2966  
 issued capital: L.E. 142,402,880  
 Commercial reg.: 34248 Investment, Cairo

## Certificate of Completion

Sidi Krir Generating Company "SKGC" (2 x 360 Mw) certifies that PESCO for Projects, Contracting and Industry SAE has successfully accomplished and completed the following activities through the agreement for the Supply of Technical Manpower for unit 4 Steam Turbine & Generator Major Overhaul carried out by PESCO's professional manpower during SKGC's Unit 4 Major Overhaul from October to December 2020.

and through PESCO's professional manpower during SKGC's Unit 4 Major Overhaul activities:

### 1. HIP and LP Turbines Overhaul Work scope:

#### 1.1. Checks before disassembly of HP/IP and LP Casings

##### 1.1.1. Checks after disassembly of HP/IP and LP casings:

- Check correct mating of outer and inner casing joint faces.
- Check radial and axial clearances of steam path and glands.
- Check diaphragm steps and key clearances.
- Check position and centering of diaphragms, diaphragm-carriers and exhaust diffusers.
- Check for diaphragm deformation in areas subjected to high temperatures (> 420oC).
- Check the results of Visual inspection, Ultrasonic testing, MPI testing and Dye Penetrant testing, as required, for evidence of scratching, separation/adhesion, cracking etc and advise SK rep.

##### 1.1.2. Checks on HP/IP and LP Rotors (After removal of the rotor from cylinder):

- Visually inspect rotor from coupling to coupling
- Check rotor run out.
- Clean and NDE rotor from coupling to coupling and review the results with actions.

##### 1.1.3. Checks on HP/IP and LP Rotors (During reassembly):

- All steam path and gland seal clearances, and rotor/casing centering shall be measured and recorded at casing's reassembly.
- Check and record bolt-tightening torques during reassembly.

### 2. Couplings:

- Perform dimensional and visual check of the bores of the coupling bolt holes.
- Perform dimensional check of coupling bolts.
- Check rotor alignment during rebuild (also parallelism and concentricity).
- Check rotor-jacking system with rotors coupled and uncoupled.
- Check bolt tightening when re-coupling the rotors.

#### 1.2. Bearings and Turning Gear:

##### 1.3. Journal Bearing No 1,2,3 and 4:

- Check clearance at journal bearings.
- Check clearances at location of oil baffles.
- Record condition of the surfaces of journal bearings.
- Check tightness of keeps at reassembly.

### 4.3 LP / Generator Shaft Coupling:

- Perform dimensional and visual check of the bores of the coupling bolt holes.
- Perform dimensional check of coupling bolts.
- Check rotor alignment during rebuild (also parallelism and concentricity).
- Check rotor-jacking system with rotors coupled and uncoupled.
- Check bolt tightening when re-coupling the rotors.

### 4.4 Generator Rotor Drawing Out:

- End shield top half disassembly TS/GS with oil deflectors
- Bearing 5 & 6 top halves remove
- Seal oil ring and inner oil deflector top halves remove
- Removal of H2 Coolers
- Installing of the rotor lifting device and float the rotor
- Disassembly of the all-lower parts (bearings, seal oil ring, oil deflectors)"
- Preparation of rotor removal (installing of the special tools, wire, post, chain block,)"
- Removal of Rotor
- Disassembling of H2 Coolers
- Cleaning of Cooler Tube & Pressure Test

5

### Rotor Works

- Rear and Front End Strip down
- Retaining rings inspection

### 5.1 Rotor Gasket Replacement

- Replace stalk-bolts seals
- Remove rotor main lead wedges for NDT
- Replace rotor bore plug seal
- Inspect coils and blocks
- Inspect cooling slots
- Perform leak test on rotor bore
- Inspect rotor sub-slots

### 5.2 Rotor NDT Test

- NDT coil retaining rings
- Fans
- Bearings

### 5.3 Generator and Rotor electrical tests:

### 5.4 Generator stator radial and lateral wedges removal and reinstatement.

### 5.5 Assembling of Generator:

- Install lower stator end shield and lower for rotor insertion (TS/CS)
- Installation of sling device at CS
- Installations of inner end baffles / tighten
- Install fan nozzle
- Preparation of rotor insertion (installing of the special tools, wire, post, chain block,)"
- Insertion of Rotor
- Assembling bottom end shield TS/CS with bottom half of bearings 5&6 and support rotor on lifting device
- Assemble of fan blades CS/TS
- Assembling of upper stator end shield and cover
- Assembling of hydrogen seals CS/TS
- Apply end shield sealant (grooves to be cleaned)
- Bearing 5&6 top half and oil labyrinth install (install final parts of end shields)
- Reassembly of Exciter



# Completion Certificates (cont.)

## 3. Thrust Bearing:

- a) Check the clearance at the thrust bearing (float).
- b) Inspect the surfaces of the pads. (Ultrasonic Testing and Dye Penetrant Testing).
- c) Perform dimensional checks of adjusting shims of the thrust bearing at thrust collar.
- d) Check clearances at thrust bearing oil baffles.
- e) Perform visual and geometric inspection of thrust bearing collars.
- f) Perform geometric inspection of elastic rings (pad support rings).

### 3.1. Components Mounted inside Pedestals:

- a) Check air gaps of over speed and governor speed measurement generators.
- b) Check the turning gear.
- c) Check the control equipment.
- d) Check the shaft line axial displacement pickups.
- e) Check the vibration pickups.
- f) Check the temperature pickups before reassembly.
- g) Check the condition of cables.

### 3.2. HIP Turbine Valves and Servomotors:

#### 3.2.1 Servomotor - HIP Lower and Upper Stop Valves and Governing Valves (10 Servomotors):

- a) Record the functional clearances.
- b) Check the straightness of the servomotor spindle.
- c) Check the characteristics of the springs.
- a) Replace all servomotor seals.
- d) Function check after reassembly.

#### 3.2.2 HIP 50% Of Admission Valves (HIP Stop valves) (HIP control valves):

- b) Check the total displacement of the steam valve moving parts after removal of the servomotors (stop and governing valves).
- c) Check functional clearances of the moving parts.
- d) Check the straightness of the valve spindles.
- e) Check the pilot valve travel. (stop valves only)
- f) Perform visual inspection of stop valve sealing (check for traces of erosion).
- g) Check the valve seat attachment systems in their chests.
- h) Perform visual and magnetic particle inspection of valve casings in the transition and blend radii within the vicinity of the chest bowl and the drains.
- i) Check the sealing surfaces of the covers and lap if required.

#### 3.2.3. HIP and LP Turbine Auxiliaries:

- a) Lube oil system pumps, filters and lube oil tank inspection plus oil flushing.
- b) Control fluid system pumps, filters and oil tank inspection plus oil flushing.

## 4. Generator Overhaul Work Scope:

### 4.1 Stator Water Circuit Draining Then Place Under Vacuum

- a) Removal of bralds and neutral bar.
- b) Water system draining and vacuum test.
- c) Water circuit preservation

### 4.2. Generator Mechanical Dismantling

- d) Blind flanges installation on Water and oil circuit Check rotor run out.
- e) Disconnection and removal of excitation system.
- f) Disassembly of brushed holder.
- g) Rotor probe dismantling

## 5.6 Generator Bearings:

### 5.7 Journal Bearing No. 5 and 6:

- a) Check clearance at journal bearings.
- b) Check clearances at location of oil baffles.
- c) Check tightness of keeps at reassembly.
- d) Check the results of Visual inspection, Ultrasonic testing and Dye Penetrant testing of the bearing white metal, as required, for evidence of scratching, separation/adhesion, cracking etc.
- e) Check loading pattern.

It is worth noting that PESCO personnel strictly followed the SKGC's plan for Major Overhaul (Shutdown & Start-Up) activities as well as Health and Safety procedures and instructions of the power plant and completing the outage with zero LTA.

"This Certificate has been issued upon PESCO request without any obligation to the Company."

Best Regards



Ahmed Farouk

Edra Head of O & M



Mohamed Zaghoul

General Manager



# Completion Certificates (cont.)



**SIDI KRIR GENERATING COMPANY**  
 شركة سيدى كرير لتوليد الكهرباء  
 (Subsidiary of Powertek Energy S.A.S. dnc)  
 1/ El Alwan Street, Wing A, 8th Floor, Heliopolis, Cairo, Egypt  
 tel: +20 2 2414 3640 fax: +20 2 2414 2988  
 Issued Capital: L.E. 102,402,880  
 Commercial reg: 34248 Investment Code:

## Certificate of Completion

Sidi Krir Generating Company "SKGC" (2 x 360 Mw) certifies that PESCO for Projects, Contracting and Industry SAE has successfully accomplished and completed the following activities through the agreement for Major Overhaul "MOH" - Third-Party QA/QC Consultancy & Superintendents' Technical Advisory" for unit 4 Steam Turbine & Generator Major Overhaul carried out by PESCO's professional experts during SKGC's Unit 4 Major Overhaul from October to December 2020.

### 1. Preparation phase:

The Consultant provided the support to SKGC team during the Planning and the preparation phase as follow:

- o Participated with Edra in the MOH preparation meetings with GE to define the requirements related to the scope of work, spare parts and the services requirements.
- o Highlighted to GE the difficulties faced during the last MOH implementation this is to avoid the reoccurrence of such issues.
- o Reviewed the adequacy of the MOH spare parts and advised for any missing parts.
- o Reviewed GE offers and the issued purchase orders for services and spare parts and advised for any issues.
- o Reviewed the lists/ condition of the special tools and general tools and advised for any additional requirements.
- o Reviewed the last MOH reports and advised GE for any requirements.
- o Reviewed unit operating data before its shutdown and advised GE for any activities required to be added to the schedule,
- o Reviewed the MOH program and advised on how to improve it to complete the MOH in optimum timing.
- o Reviewed and agreed with GE/EDRA on MOH Base line schedule.

### 2. Implementation phase:

The Consultant provided the support SKGC team during the implementation phase as following:

- o Reviewed the QAQC of GE document for turbine and generator
- o Reviewed the MOH record sheet during the disassembly and assembly and to compared the As-found reading and the design /nominal readings.
- o Reviewed the dismantle/ assembling of turbine and generator sequence
- o Followed up the MOH progress and advised with mitigation plans in case of delays.
- o Checked all turbine parts before disassembly and after disassembly and advised for any abnormal findings.

- o Reviewed and followed up with GE the issued Non-Conformity Report (NCR) / Interim Inspection Report (IIR) and the ways to rectify.
- o Ensured the clearances and measurements are tally with the GE specification and notified EDRA in case control sheets show unacceptable values.
- o Reviewed the blasting sequence, result and ensured the blasting is within the GE requirement
- o Reviewed the NDE reports of the service provider for turbine and generator parts and ensure it is matching the GE requirement
- o Followed up the MOH program and keen to inform the owner (SKGC & Edra) if any delay and to advised the action plan to catch up the schedule
- o Participated in the day-to-day meeting with EDRA & GE to discuss and highlight the strong technical points and weak points of the work activities
- o Participated in weekly progress meetings with GE and Edra to review the updated schedule/progress provided by EDRA planner, to review one week look ahead schedule and to review the agreed minutes of meetings.
- o Reported immediately about the finding and highlight to Edra the way to correct it within the time frame of the outage
- o Ensured with EDRA the implementation of the clean condition procedure.

### 3. MOH Completion/Startup phase:

- o Reviewed with GE and SKGC team that the mechanical commissioning activities were completed successfully and the unit is ready for safe start up.
- o Attended the first start up and advised EDRA on any issue affecting the prolonged operation of the Turbine/Generator.
- o Shared with EDRA post overhaul meeting with GE to define all the issues and lessons learnt to have a smooth overhaul of the second unit.

It is worth noting that PESCO personnel strictly followed the SKGC's plan for Major Overhaul (Shutdown & Start-Up) activities as well as Health and Safety procedures and instructions of the power plant and completing the outage with zero LTA.

"This Certificate has been issued upon PESCO request without any obligation to the Company."

Best Regards

Ahmed Farouk

Edra Head of O&M

Mohamed Zaghoul

General Manager





# Completion Certificates (cont.)

**PESCO**

**MECHNCIAL COMPLETION CERTIFICATE-MCC**

**Project Name:** Repair of FWKOD Vessel with R Stamp at PETROMASILA  
**Date of Issuance:** 12 Jan 2020  
**Location:** CPU- KHARIR Central Production facility plant, Block 10  
**Contractor:** PESCO  
**PO Reference No:** 103000820 dated 16 Dec 2019

We hereby certify that M/S PESCO, have successfully completed the contract scope for the Replacement of corroded Nozzles, supply & installation of sacrificial anodes with brackets (as designed and advised by KHARIR Central Production facility plant), repair of vessel pitting areas and performing all required Non-Destructive Testing including shell thickness measurements, Liquid Penetrant Test & Phased Array Testing, of the Free Water Knock Out Drum Vessel (Serial # 6395-01 & Tag # 2080) to our entire satisfaction on schedule.

The said repair and inspection have been performed as per NBIC- Part 3, ASME Section VIII- Div01, API 510 with issuance of related R-Stamp certificate.

That MCC with R-Stamp Certificate, to confirm the Vessel is handed over for commissioning and operation activities with Fit for Service Condition.

For PETROMASILA – BLOCK 10 – YEMEN

Name: Aboud AL-GRZI  
 Designation:  
Head of inspection and corrosion

Date: 12-01-2020  
 Signature: [Signature]  
 Co Stamp



For Consultancy Inspection Service

Name: Adel Afify  
 Designation: Managing Director

Date: 12/01/2020  
 Signature: [Signature]

PESCO for Projects, Contracting & Industry. Head Office: . Main Road, Silver Tower-Abu Dhabi – U.A.E.  
 P.O. Box: 127748- Tel.: +971 2 679 9525 / 27, Fax : +971 2 679 9547, E-mail : sales@pesco-int.com.  
 Website : www.pesco-int.com



**EDRA**  
 中广核 CGN

**Certificate of Completion**

Suez Gulf Power SAE "SGP" (2 x 360 Mw) certifies that **PESCO for Projects, Contracting and Industry SAE** has successfully accomplished and completed the following activities as per the "Annual Agreement for the Supply of Technical Personnel" and through PESCO's professional manpower during SGP's Annual Schedule Outage activities in February / March 2020:

- Complete inspection for the Boilers including boiler pressure parts, Air Heaters, FD Fans, GR Fans, Burners, etc.
- Inspection of the Steam Turbine Valves
- Inspection and overhaul of Pumps and Valves.
- Inspection of Switchgear and protection relays
- Inspection of Main Transformers, Bus Duct and other auxiliaries
- Other Electromechanical works during the annual schedule outage

It is worth noting that PESCO personnel strictly followed the SGP's plan for outage (Shutdown & Start-Up) activities as well as Health and Safety procedures and instructions of the power plant and completing the outage with zero LTA.

Best Regards

[Signature]  
**Taher Salah**  
 Power Station Manager



[Signature]  
**Mohamed Zaghoul**  
 Managing Director

Suez Gulf Power S.A.E.  
 17, El Ahram Street -Wing A - 8th Floor-Heliopolis - Cairo - Egipt. Tel: +202 24142985/ Fax: +202 24142986

# Welder Certificates (Sample)

PESCO

**QW-484A WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE (WPQ)**  
(See QW301, Section IX, ASME Boiler and Pressure Vessel Code.)

Company Name: PESCO  
Welder's name: Mohamed Abdelghani Elmaghrabi  
WPS NO.: PES-WPS-002  
Specification of Base metal(s) welded: S235JR Thickness: 12 mm

Test Date: 21/01/2020 Test No.: 593 Stamp no: TP91Z  
Test coupon:  Production weld:

PHOTO

**Welding Variables (QW-350)**

Actual Values	Range Qualified
Welding Process(es): SMAW	SMAW
Type (Manual, Semi Auto) used: MANUAL	MANUAL
Backing (Metal, Weld metal, Double Welded etc.): WITH	WITH
Plate <input type="checkbox"/> Pipe (outer diameter, if pipe or tube): Plate	Plate & Pipe (Refer to below)
Base Metal P Number to P Number: P No. 1 to P No. 1	All P No. 1 through P No. 15F, P No. 34, P No. 41 through P No. 49
Filler metal or electrode specification(SFA): E7018-1H4R	E7018-1H4R
Filler metal F-Numbers: F No. 4	F No. 1,2,3,4 With backing
Consumable insert for GTAW: NA	NA
Filler Type (Solid Metal or Flux cored): Powder(GTAW): NA	NA
Deposited thickness for each process: Process 1: SMAW 3 layers minimum <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Process 2: SMAW 3 layers minimum <input type="checkbox"/> Yes <input type="checkbox"/> No	12 mm Max. 24 mm
Position Qualified: 3G	Groove: F & V for Plate & Pipe COP(10G4) F for Pipe > 21mm(7/8") OD & < 630mm (24") OD. Filler: F,H & V for Plate & Pipe.
Groove, plate and pipe: Groove	Groove & Fillet
Vertical Progression (uphill / downhill): Uphill	Uphill
Type of fuel gas (OFW): NA	NA
Shield gas backing (GTAW, PAW, GMAW): NA	NA
Transfer mode(Spray/Globular or pulse to Short circuit/GMAW): NA	NA
GTAW current type / polarity (AC, DCEP, DCEN): NA	NA

**TEST RESULTS**

Visual examination results (QW-302.4) Accepted Report No.: PES-VT-013  
 Bend test;  Transverse root & face(QW-462.2a);  Longitudinal root & face(QW-462.2b);  Side(QW-462.2)  
 Pipe bend specimen, corrosion-resistant overlay(QW-462.5c);  Plate bend specimen, corrosion-resistant overlay(QW-462.5d);  Macro test for fusion(QW-462.5e);  Macro test for fusion(QW-462.5e)

S/N	PQR No.	Test Type	Specimen No.	Result

Adhesive Ultrasonic examination results(QW-304 and QW-305) ACC Report no.: WQT-010  
 Fillet Weld - Fracture test(QW-180) NA Length and percent of defects  
 Macro Examination(QW-184) NA Fillet leg size mm X mm Concavity / Convexity mm  
 Other tests: NA  
 Mechanical tests conducted by: NA  
 Laboratory test no.: NA  
 Welding supervised by: Ahmed Tahoun  
 We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME Code. Editor: 201T

Certified by: Ahmed Tahoun Name: Ahmed Tahoun  
 Date: 21/01/2020 CWI 17073381-1 Date: 21/01/2020  
 QCT EXP: 7/1/2020 DCI EXP: 7/1/2020  
 ASME QC MANUAL Exhibit No. (PES-11.4) Rev. 0 Date: 10/01/2019

PESCO

**QW-484A WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE (WPQ)**  
(See QW301, Section IX, ASME Boiler and Pressure Vessel Code.)

Company Name: PESCO  
Welder's name: Elias Al Massour  
WPS NO.: PES-WPS-002  
Specification of Base metal(s) welded: S235JR Thickness: 12 mm

Test Date: 21/01/2020 Test No.: 592 Stamp no: TP911  
Test coupon:  Production weld:

PHOTO

**Welding Variables (QW-350)**

Actual Values	Range Qualified
Welding Process(es): SMAW	SMAW
Type (Manual, Semi Auto) used: MANUAL	MANUAL
Backing (Metal, Weld metal, Double Welded etc.): WITH	WITH
Plate <input type="checkbox"/> Pipe (outer diameter, if pipe or tube): Plate	Plate & Pipe (Refer to below)
Base Metal P Number to P Number: P No. 1 to P No. 1	All P No. 1 through P No. 15F, P No. 34, P No. 41 through P No. 49
Filler metal or electrode specification(SFA): E7018-1H4R	E7018-1H4R
Filler metal F-Numbers: F No. 4	F No. 1,2,3,4 With backing
Consumable insert for GTAW: NA	NA
Filler Type (Solid Metal or Flux cored): Powder(GTAW): NA	NA
Deposited thickness for each process: Process 1: SMAW 3 layers minimum <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Process 2: SMAW 3 layers minimum <input type="checkbox"/> Yes <input type="checkbox"/> No	12 mm Max. 24 mm
Position Qualified: 3G	Groove: F & V for Plate & Pipe COP(10G4) F for Pipe > 21mm(7/8") OD & < 630mm (24") OD. Filler: F,H & V for Plate & Pipe.
Groove, plate and pipe: Groove	Groove & Fillet
Vertical Progression (uphill / downhill): Uphill	Uphill
Type of fuel gas (OFW): NA	NA
Shield gas backing (GTAW, PAW, GMAW): NA	NA
Transfer mode(Spray/Globular or pulse to Short circuit/GMAW): NA	NA
GTAW current type / polarity (AC, DCEP, DCEN): NA	NA

**TEST RESULTS**

Visual examination results (QW-302.4) Accepted Report No.: PES-VT-013  
 Bend test;  Transverse root & face(QW-462.2a);  Longitudinal root & face(QW-462.2b);  Side(QW-462.2)  
 Pipe bend specimen, corrosion-resistant overlay(QW-462.5c);  Plate bend specimen, corrosion-resistant overlay(QW-462.5d);  Macro test for fusion(QW-462.5e);  Macro test for fusion(QW-462.5e)

S/N	PQR No.	Test Type	Specimen No.	Result

Adhesive Ultrasonic examination results(QW-304 and QW-305) ACC Report no.: WQT-010  
 Fillet Weld - Fracture test(QW-180) NA Length and percent of defects  
 Macro Examination(QW-184) NA Fillet leg size mm X mm Concavity / Convexity mm  
 Other tests: NA  
 Mechanical tests conducted by: NA  
 Laboratory test no.: NA  
 Welding supervised by: Ahmed Tahoun  
 We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME Code. Editor: 201T

Certified by: Ahmed Tahoun Name: Ahmed Tahoun  
 Date: 21/01/2020 CWI 17073381-1 Date: 21/01/2020  
 QCT EXP: 7/1/2020 DCI EXP: 7/1/2020  
 ASME QC MANUAL Exhibit No. (PES-11.4) Rev. 0 Date: 10/01/2019

PESCO

**QW-484A WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE (WPQ)**  
(See QW301, Section IX, ASME Boiler and Pressure Vessel Code.)

Company Name: PESCO  
Welder's name: Badr Salem  
WPS NO.: PES-WPS-002  
Specification of Base metal(s) welded: S235JR Thickness: 12 mm

Test Date: 29-07-2019 Test No.: 522 Stamp no: TP910  
Test coupon:  Production weld:

PHOTO

**Welding Variables (QW-350)**

Actual Values	Range Qualified
Welding Process(es): SMAW	SMAW
Type (Manual, Semi Auto) used: MANUAL	MANUAL
Backing (Metal, Weld metal, Double Welded etc.): WITH	WITH
Plate <input type="checkbox"/> Pipe (outer diameter, if pipe or tube): 6" inch	Groove: 72mm(2 7/8") OD to Unlimited & Fillet: any
Base Metal P Number to P Number: P No. 1 to P No. 1	All P No. 1 through P No. 15F, P No. 34, P No. 41 through P No. 49
Filler metal or electrode specification(SFA): E7018	E7018
Filler metal F-Numbers: F No. 4	F No. 1,2,3,4 With backing
Consumable insert for GTAW: NA	NA
Filler Type (Solid Metal or Flux cored): Powder(GTAW): NA	NA
Deposited thickness for each process: Process 1: SMAW 3 layers minimum <input type="checkbox"/> Yes <input type="checkbox"/> No Process 2: SMAW 3 layers minimum <input type="checkbox"/> Yes <input type="checkbox"/> No	7 mm Max. 14 mm
Position Qualified: 6G	ALL POSITIONS
Groove, plate and pipe: Groove	Groove & Fillet
Vertical Progression (uphill / downhill): Uphill	Uphill
Type of fuel gas (OFW): NA	NA
Shield gas backing (GTAW, PAW, GMAW): NA	NA
Transfer mode(Spray/Globular or pulse to Short circuit/GMAW): NA	NA
GTAW current type / polarity (AC, DCEP, DCEN): NA	NA

**TEST RESULTS**

Visual examination results (QW-302.4) Accepted Report No.: PES-VT-005  
 Bend test;  Transverse root & face(QW-462.2a);  Longitudinal root & face(QW-462.2b);  Side(QW-462.2)  
 Pipe bend specimen, corrosion-resistant overlay(QW-462.5c);  Plate bend specimen, corrosion-resistant overlay(QW-462.5d);  Macro test for fusion(QW-462.5e);  Macro test for fusion(QW-462.5e)

S/N	PQR No.	Test Type	Specimen No.	Result

Alternative Radiographic examination results(QW-304 and QW-305) ACC Report no.: WQT-002  
 Fillet Weld - Fracture test(QW-180) NA Length and percent of defects  
 Macro Examination(QW-184) NA Fillet leg size mm X mm Concavity / Convexity mm  
 Other tests: NA  
 Mechanical tests conducted by: NA  
 Laboratory test no.: NA  
 Welding supervised by: Ahmed Tahoun  
 We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME Code. Editor: 201T


Certified by: Ahmed Tahoun Name: Ahmed Tahoun  
 Date: 29-07-2019 CWI 17073381-1 Date: 29-07-2019  
 QCT EXP: 7/1/2020 DCI EXP: 7/1/2020  
 ASME QC MANUAL Exhibit No. (PES-11.4) Rev. 0 Date: 10/01/2019



# HSE STATISTICS (5 YEARS)

# HSE

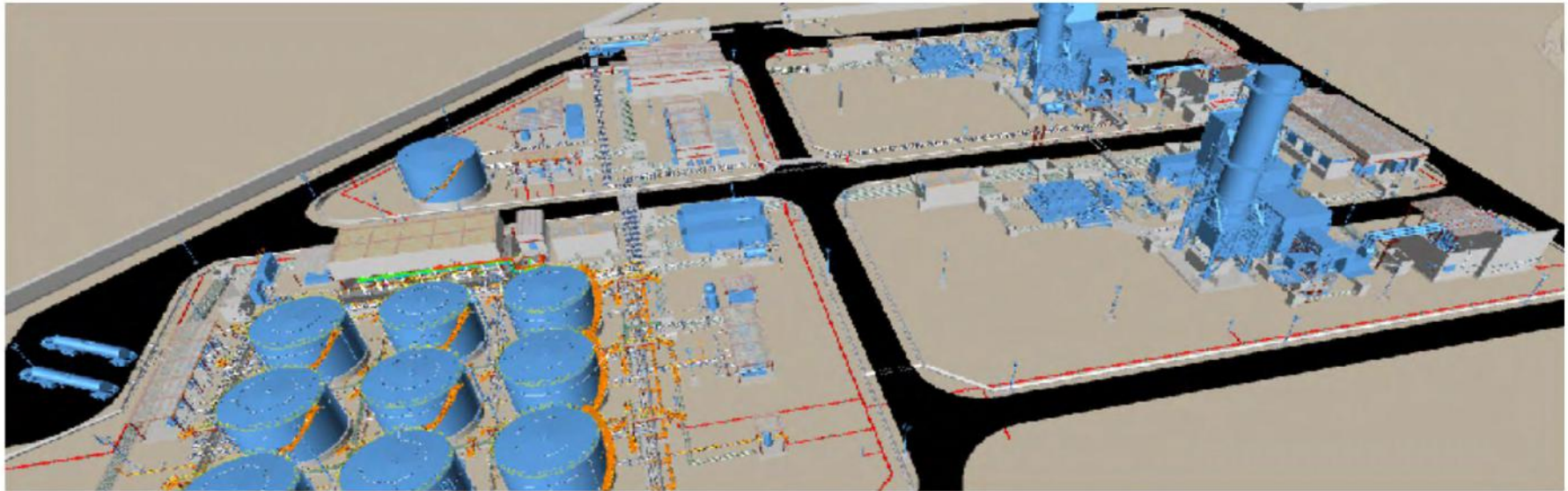
## OVERALL 5 YEARS STATISTICS Summary

 <b>HSE STATISTICS / PERFORMANCE SUMMARY ( SEP 2014 - DEC 2020 )</b>										
HEALTH, SAFETY & ENVIRONMENT PERFORMANCE SUMMARY	UNITS	YEARS	2014	2015	2016	2017	2018	2019	2020	TOTAL
			CY	CY	CY	CY	CY	CY	CY	
<b>ALL TRANSCO PROJECTS - UAE</b>										
<b>TOTAL MAN-HOURS WORKED</b>		Total	11880	10456	9104	5888	4864	0	21104	63296
<b>PETROMASILA 75MW - YEMEN</b>										
<b>TOTAL MAN-HOURS WORKED</b>		Total				210519	129064			339583
<b>PETROMASILA 250MW - YEMEN</b>										
<b>TOTAL MAN-HOURS WORKED</b>		Total						955937	1020862	1976799
		<b>OVERALL</b>	11880	10456	9104	216407	133928	955937	1041966	
										<b>OVERALL TOTAL</b>
										<b>2,379,678</b>



# PROJECTS SAMPLE PICTURES

# Project Power Plant



**Aden Power Plant Ph-1, St-1; 264 MW**

**Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E**

**EPC Contract**

PES-IMS-PROFILE-21R1 Dt:08.03.21

PESCO Emirates Electrical Services & Contracting LLC

60

[INDEX](#)



# Project Power Plant

## Base Structures for Units



**Aden Power Plant Ph-1, St-1; 264 MW**  
**Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E**  
**EPC Contract**

PES-IMS-PROFILE-21R1 Dt:08.03.21

PESCO Emirates Electrical Services & Contracting LLC



# Project Power Plant

## Units Mobilization and Installation



**Aden Power Plant Ph-1, St-1; 264 MW**  
**Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E**  
**EPC Contract**

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PESCO Emirates Electrical Services & Contracting LLC



# Project Power Plant

Fabrication,  
Mobilization and  
Installation of  
Storage Tanks



**Aden Power Plant Ph-1, St-1; 264 MW**  
**Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E**  
**EPC Contract**

PES-IMS-PROFILE-21R1 Dt:08.03.21

PESCO Emirates Electrical Services & Contracting LLC



# Project Power Plant

Side Exhaust Stack  
Unit Air inlet Filter  
& Enclosure Unit  
Mobilization and  
Installation



**Aden Power Plant Ph-1, St-1; 264 MW**

**Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E**

**EPC Contract**

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# Project Power Plant

Air Inlet Filter &  
Enclosure Unit  
Internal work



Aden Power Plant Ph-1, St-1; 264 MW

Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E

EPC Contract

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PESCO Emirates Electrical Services & Contracting LLC



# Project Power Plant

## Building of Control Room & Installation of Control Panels



**Aden Power Plant Ph-1, St-1; 264 MW**  
**Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E**  
**EPC Contract**

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# Project Power Plant

## Cabling & Piping works



**Aden Power Plant Ph-1, St-1; 264 MW**  
**Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E**  
**EPC Contract**

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# Project Power Plant

Project  
Bird's-eye view



**Aden Power Plant Ph-1, St-1; 264 MW**  
**Client; PETROMASILA Aden, Yemen 2 x 132MW GE Frame 9E**  
**EPC Contract**

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68

INDEX



# Project Power Plant



**Hadramout 75 MW Mobile Power Plant**  
**Client; PETROMASILA Wadi Hadramout, Yemen 3 x 25 MW GE TM2500 GTG**  
**EPC Contract**

PES-IMS-PROFILE-21R1 Dt:08.03.21

PESCO Emirates Electrical Services & Contracting LLC



# Project Power Plant



**Hadramout 75 MW Mobile Power Plant**  
**Client; PETROMASILA Wadi Hadramout, Yemen 3 x 25 MW GE TM2500 GTG**  
**EPC Contract**

PES-IMS-PROFILE-21R1 Dt:08.03.21

PESCO Emirates Electrical Services & Contracting LLC



# Project Power Plant



**Hadramout 75 MW Mobile Power Plant**  
**Client; PETROMASILA Wadi Hadramout, Yemen 3 x 25 MW GE TM2500 GTG**  
**EPC Contract**

PES-IMS-PROFILE-21R1 Dt:08.03.21

PESCO Emirates Electrical Services & Contracting LLC



# Major O&M Projects



Sidi Krir Power Plant



Port Said East Power



Suez Gulf Power Plant



# 360MW Turbines Major Overhauling Professional Manpower Supply

## SCOPE OF WORK

### HIP and LP Turbines Overhaul Work scope:

1. Checks before disassembly of HP/IP and LP Casings:
2. Checks after disassembly of HP/IP and LP casings:
3. Checks on HP/IP and LP Rotors (After removal of the rotor from cylinder)
4. Checks on HP/IP and LP Rotors (During reassembly)

### Couplings Bearings and Turning Gear:

1. Journal Bearing No 1,2,3 and 4
2. Thrust Bearing
3. Components Mounted inside Pedestals

### HIP Turbine Valves and Servomotors:

1. Servomotor - HIP Lower and Upper Stop Valves and Governing Valves (10 Servomotors)
2. HIP 50% Of Admission Valves (HIP Stop valves) (HIP control valves)
3. HIP and LP Turbine Auxiliaries



## Sidi Krir Power Plant Units 3&4 MOH Technical Manpower Supply



# 360MW Generator Overhauling

## Generator Overhaul Work Scope:

1. Stator Water Circuit Draining Then Place Under Vacuum
2. Generator Mechanical Dismantling
3. LP / Generator Shaft Coupling
4. Generator Rotor Drawing Out |
5. Generator Radial and Lateral wedges replacement
6. Generator Electrical Tests by GE
7. Rotor Works
8. Rotor Gasket Replacement
9. Rotor NDT Test
10. Assembling of Generator
11. Generator Bearings (Journal Bearing No. 5 and 6)



## SCOPE OF WORK

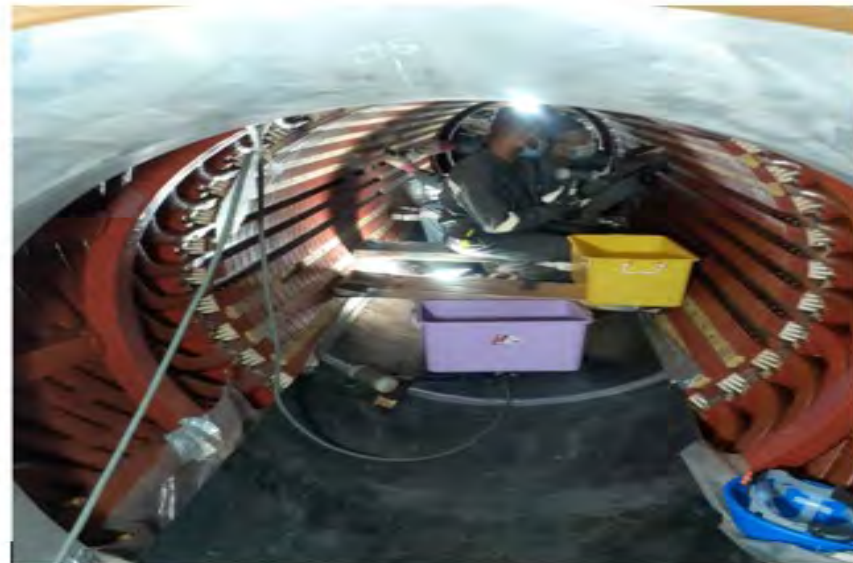
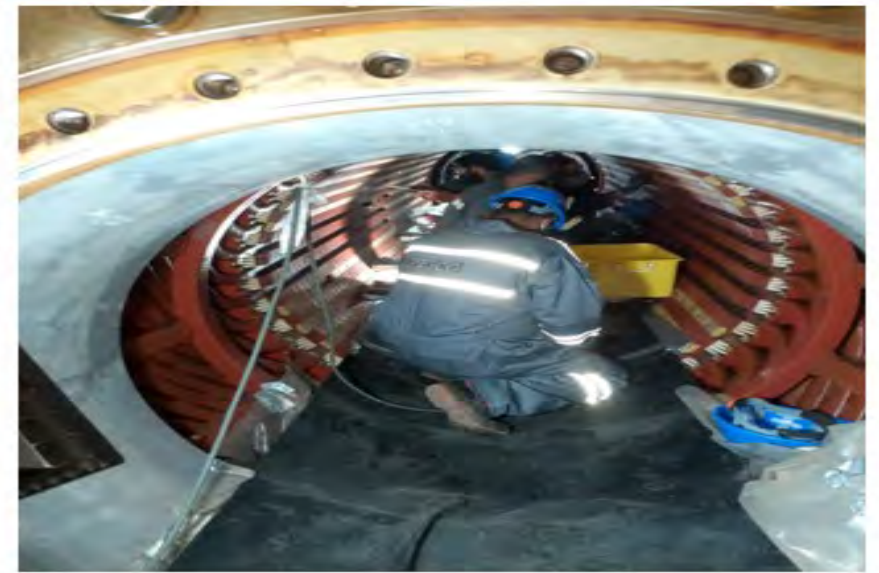


**Sidi Krir Power Plant Units 3&4  
MOH Technical Manpower Supply**



# 360MW MOH Generator Overhaul Work

Lateral and  
Radial Wedges  
Removal in  
Progress



Sidi Krir Power Plant Units 3&4  
MOH Technical Manpower Supply



# CONSULTANCY 360MW Turbine & Generator Maintenance & Overhauling

## SCOPE OF WORK

### MOH Preparation phase:

1. The Consultant will provide the support to SK team during the Planning and the preparation phase as follow:
2. Participates Edra in the MOH preparation meetings with GE (OEM) to define the requirements related to the scope of work, spare parts, special tools and the services requirements.
3. Highlight to GE the difficulties & findings during the last MOH implementation.
4. Review the adequacy of the MOH spare parts and advise for any missing parts.
5. Review the outage MOH program and advice on how to improve it to complete the MOH in optimum timing.

### MOH implementation phase:

1. The Consultant will provide the support SK team during the implementation phase as follow:
2. Review the MOH record sheet during the disassembly and assembly and to compare the As-found reading and the design /nominal readings.
3. Review the dismantle/ assembling of turbine and generator sequence
4. To review and follow up with GE the issued Non-Conformity Report (NCR) / Interim Inspection Report (IIR) and the ways to rectify.
5. Review the blasting sequence, result and ensure the blasting is within the GE requirement
6. Review the NDE reports of the service provider for turbine and generator parts and ensure it is matching the GE requirements.
7. Lead the day-to-day meeting with EDRA & GE and to discuss and highlight the strong technical points and weak points of the work activities.

### MOH Completion/Start-up phase:

1. Review and ensure with GE and SK team that the mechanical commissioning activities were completed successfully and the unit is ready for safe start up.
2. Sharing EDRA if required in post overhaul meeting with GE to define all the issues and lessons learnt to have a smooth overhaul of the second unit.



## Sidi Krir Power Plant Units 3&4 Units 3&4 – Turbine & Generator MOH QA/QC Consultancy



# 360MW Babcock Wilcox Boiler Tube





# Pressure Vessel Repair Works

Description	Free Water Knock out Drum		
Tag Number	D-2080		
Volume	90 m3		
Size	3048 mm ID x 12137 mm (T/T)		
Material	SA516 Gr.70		
Coating System	Internal Coating – Jotun Chemflake	General View for free Water KO drum	
Fluid	Crude Oil + Water + Gas	Type	Horizontal
Thickness	28 mm (Shell and dish)	Corrosion Allowance	5 mm
Insulation	None	Manufacturer	MIS / Petrofac



Yemen Khairi Site, Yemen Block 10

Client; PETROMASILA

Vessel repair, Free Water Knocked out Drum

# Pressure Vessel Repair Works





# TRANSCO ADDC Works



# OUR CLIENTS



# Our Clients





*UAE Office - Abu Dhabi*



*Egypt Office - New Cairo*



*Egypt Fabrication Unit - Sadat*



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