

ADVANCED
COMBUSTION
SOLUTIONS



SERVICES OFFERED

**BOILER
AUTOMATION**

**COMBUSTION
ENGINEERING**

**RETROFIT
SOLUTIONS**

**CONDITION
SURVEY**

SPECIALISTS IN:

**BOILERS
AND
BURNERS**

**INERT
GAS
GENERATORS
(IGG)**

**INCINERATOR
CONTROLS**

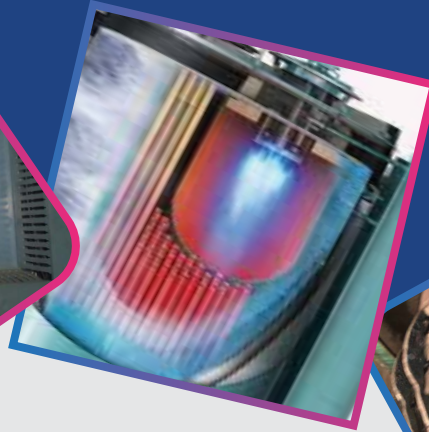


JOHNS COMBUSTION
Marine Services L.L.C.

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FINDING SOLUTIONS

THROUGH INNOVATIVE ENGINEERING



ABOUT US

JOHNS COMBUSTION is an innovative company that specializes in Combustion/Automation services, including Boilers, IGS, Incinerators, and Automation technologies for combustion controls system.

We are a Company primarily engaged in providing quality and comprehensive, innovative solutions in Combustion/Automation Systems coupled with technology expertise and applied to create total system solutions to our customers in marine/industrial sectors.

Our most qualified technician and specialist engineers who bring in vast experience and expertise for providing optimal engineering solutions of combustion systems. The team is customer oriented and consistently motivated to maintain high productivity even under strict time frame situations. We provide our services and repair world-wide. Our team offers 24 x 7 emergency service to solve issues wherever and whenever.

Our goal is to attract and retain customers by offering products and services that deliver value in terms of price, quality, safety, and environmental impact. We are focused on achieving excellence in performance and striving for a lasting presence in the industry.

VISION STATEMENT

To be the leading provider of boiler and combustion engineering solutions to the marine and industrial sectors, and to deliver advanced level combustion technology services that assist our clients in enhancing their operational effectiveness, cutting costs, optimizing their energy usage, and ultimately increasing their profitability.

MISSION STATEMENT

The mission of JOHNS COMBUSTION is to assist our clients in increasing productivity by consistently exceed their expectations for quality, delivery, qualified experts, and reliability as well as by providing latest technology solutions and a hassle-free service experience. All without compromising our core values.

SERVICES



Our highly qualified and experienced team offer comprehensive worldwide services for marine BOILERS/IGG and INCINERATORS.

JOHNS COMBUSTION has most qualified technicians and specialist engineers who bring in vast experience and expertise for providing optimal engineering solutions.

We are carrying full range services to all makes of boilers, Inert gas system, Burners, Incinerator and combustion control systems. Our boiler and Burner services consists of inspections, troubleshooting, maintenance, services, upgrades, conversions and installations. . The team is dedicated towards giving cost and time effective/reliable solutions.

SERVICES OFFERED INCLUDE

- Steam Boiler Control System
- Thermal Oil Boiler Control System
- Exhaust Gas Boiler Control System
- Boiler Safety Interlocks and Alarms System
- Burner Management System
- Inert Gas Generator and Controls
- Incinerator and Controls
- Steam/Air Atomizing Burners
- Pressure Jet Burners
- Rotary Cup Burners
- Retrofit and Modifications
- Replacing obsolete controls with advanced PLC/HMI
- LSFO Upgrade
- Burner Overhaul
- Spare Parts Supports

CONDITION SURVEY OFFERED INCLUDE

- Boiler Control System Health Checks
- Burner System Condition Checks
- Safety Alarms/Trips Checks
- Combustion Control Parameters Checks
- IGG Controls Health Checks
- O2 Analyzer Calibration and Health Checks
- Electrical Cables and Switchgears Checks
- Incinerator Controls Health Checks
- Status Report for BOILER/IGG/INCINERATOR

24/7

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BOILERS



STEAM BOILER

THERMAL OIL BOILER

EXHAUST GAS BOILER

OVERVIEW

We offer a complete range of Combustion/Automation services, including inspections, condition survey, Troubleshooting, repairs, conversions, upgrades, and spare parts for wide range of Boiler manufacturers.

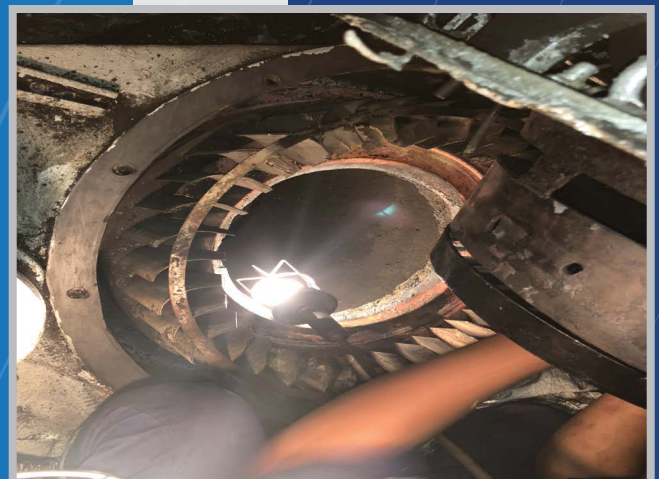
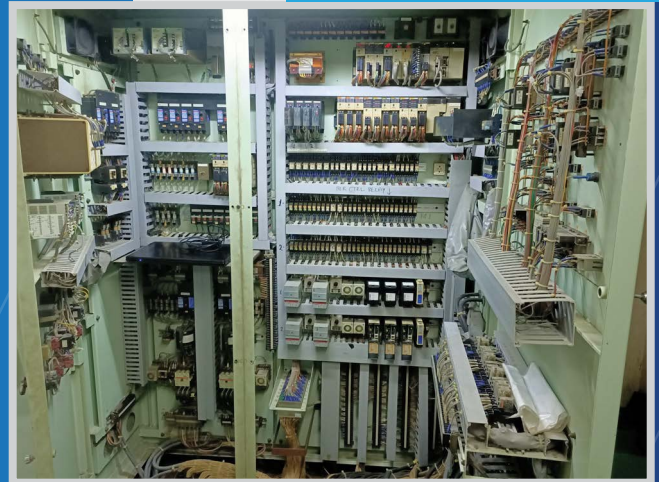
We provide end-to-end service for our clients including design, engineering, system integration, installation and upgrade of control systems for a wide range of auxiliary, composite, and exhaust gas boilers for marine/industrial applications. Our engineers can perform a complete evaluation and optimization of steam plant to increase efficiency and reduce running costs.

We offer comprehensive solution of following Services

- Troubleshooting and service for boiler combustion control system.
- Boiler Safety system service and condition checks
- Service and testing of alarms and trips
- Service and Troubleshooting of Feed water control system
- Service and Calibration of all kind of control valves and POSITIONERS.
- MGO Upgrades and Conversion
- Complete evaluation and optimization of steam plant to increase efficiency and reduce running costs.
- Control system upgrades and reprogramming, Seamless retrofit and modification from existing systems of all major brands
- Boiler system installation, commissioning and upgrading.
- Boilers Preventive Maintenance Program
- Various upgrades of existing peripheral equipment in order to meet requirements for safe and reliable operation
- Dry Dock Services and Pre-docking Inspection
- Service and Troubleshooting of Exhaust Gas Boilers

Our Expertise Engineers provide the most trusted service for the following Boilers.

- | | |
|---------------------|-------------------|
| • AALBORG BOILER | • MIURA BOILER |
| • KANGRIM BOILER | • GREEN POWER |
| • MITSUBISHI BOILER | • KAWASAKI BOILER |
| • OSAKA BOILER | • SHAZHOU BOILER |
| • SAACKE BOILER | • HYUNDAI BOILER |
| • HADA BOILER | • LOOS BOILER |
| | • HURST BOILER |





BURNERS

STEAM ATOMIZING BURNER

ROTARY CUP BURNER

PRESSURE JET BURNER

OVERVIEW

Our service engineers have experience with different types of burner. We can offer service for steam atomizing, Rotary cup atomizing, and Pressure jet atomizing burners.

The range of services offered to all makes of burner systems. Our services consists of inspections, troubleshooting, maintenance, services, as well as upgrades, conversions and installations.

We offer comprehensive solution of following Services

- Service and maintenance of Burner and associated parts
- Troubleshooting/Repair of Burner and related apparatus
- Service/overhaul for rotary cup /pressure atomizing burners.
- Fine tuning of burner system to achieve maximum efficiency and reliability
- Install new MGO fuel line with automatic change over. as well as existing line can be modified to operate on MGO if possible.
- Combustion adjustments and optimization.
- Servicing Fuel Oil Pumps/air Dampers/Solenoid Valves/Nozzles/Diffusers Etc.
- Calibration/Adjusting of Air/Fuel Ratio and Combustion Test.

Our Expertise Engineers provide the most trusted service for the following Burners.

- SAACKE BURNER
- SUNFLAME BURNER
- VOLCANO BURNER
- OILON BURNER
- MIURA BURNER
- HAMWORTHY BURNER

- WEISHAUPPT BURNER
- AALBORG KBSD BURNER
- RIELLO BURNER

UPGRADE & RETROFIT

JohnSYS v2.0 Integrated Combustion Control System



INTRODUCTION

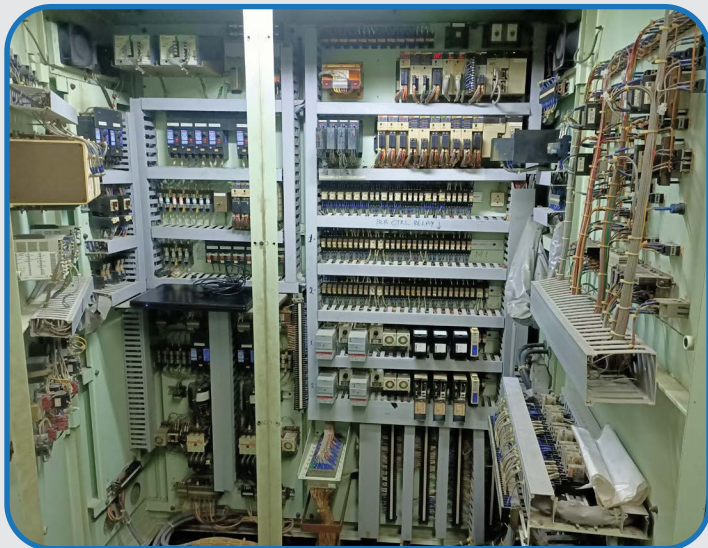
JOHNS COMBUSTION offers a wide range of services and retrofit solutions for Boilers, Burners, IGS, Incinerators and Control Systems.

JohnSYS V2.0 integrated combustion control system developed by our R & D team to provide cost-effective and high-quality combustion solutions for our customers.

Our skilled Engineers, proven reliability and adaptable software and solutions. We will conduct a preliminary assessment of the ship to determine our client's basic requirements for the retrofit project. Our skilled team of software developers will ensure the best possible enhancement of your system.

All the products used by us are marine approved by major classification societies

Save cost, improve sustainability, and ensure the safety of your Boiler and Combustion systems



We offer comprehensive solution of following

- Replacing existing control panel with a new SIEMENS PLC and Touch screen and rebuilding existing panel with new electrical components.
- Upgrade of outdated equipment: Water level probes, level indications, Old outdated controllers, and Upgrading flame monitoring system.
- PLC based Air/Oil ratio setup for Heavy Fuel Oil and Marine Diesel Oil. and easy adjusting the air/fuel flow.
- Seamless retrofit and upgrade from existing systems of all major brands
- Making electrical drawings, project documentation, Pre-inspection and engineering for classification approvals
- Retrofit solution for obsolete controls based on old PLCs, systems for which there is no more available spare parts on the market

BOILER & COMBUSTION SYSTEMS CONDITION SURVEY



Our highly qualified and experienced team offer full and comprehensive worldwide inspection and condition survey for Marine and Industrial boilers/IGS/Incinerators and combustion systems.

Our engineers can perform a complete evaluation and optimization of Combustion System to increase efficiency and reduce running costs.

In a comprehensive system evaluation, components such as the safety valves, burners, flame safety system and combustion controls should be given high priority because they are directly related to the safe operation of the boilers and Combustion systems. These systems and components must be maintained, calibrated and tested as part of the normal operation.

Preventive maintenance programs that are provided through proactive visits and optimal engineering solutions help to minimize expensive breakdowns and decrease downtime.

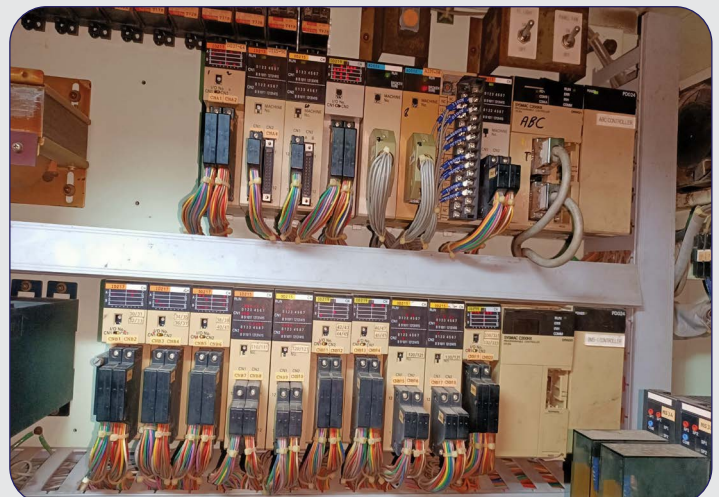


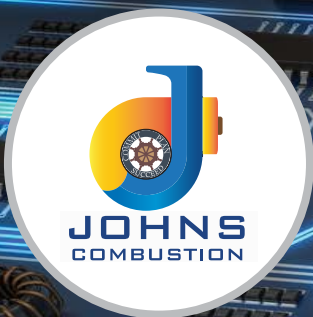
We provide comprehensive condition surveys listed below.

- Evaluate combustion control system
- Burner inspection and combustion adjustment
- Inspection of control panel and electrical parts and deterioration checking in its early stage
- Perform burner service and tune-up to improve efficiency
- Combustion technical advice is offered so that the burner is used for a long time in safe condition and at low cost.
- Provide recommendations for future upgrades
- Condition analysis of the whole combustion control system

SERVICES OF:

- Pre-Docking Inspection
- Health Check Services
- Periodic Inspection & Recommended Parts Replacement
- Annual Condition Survey





INERT GAS SYSTEM AND INCINERATORS



INERT GAS GENERATOR

The Inert gas system is the most important integrated system for cargo Ships. The inert gas systems thereby fill the free space in cargo tanks with the inert gas and lower the oxygen concentration in the tanks to prevent fires and explosion, ensuring safety of the crew and the ship. Our Service Engineers have experience with various types of IGS/IGG. Our team of professional engineers are well-trained to provide reliable technical service and assistance. Support is offered as 24/7.

We provide comprehensive services for the inert gas control system listed below.

- Service and maintenance of burner and associated parts
- Troubleshooting/Repair of Burner, control valves and related apparatus
- Troubleshooting & maintenance of complete Inert Gas Systems
- Fine tuning of burner system to achieve maximum efficiency and maintain O₂ level
- Service /Calibration of Oxygen analysers
- IGG Pneumatics controls valves servicing. PLC Renewal & New PLC Programming and installation.
- Calibration/Adjusting of Air/Fuel Ratio and Calibration of various field transmitters and valve positioners



INCINERATOR

Incinerators for various purposes. Incinerators burn the food, sewage and oil waste at high temperatures, reducing the waste to disposable ash.

We provide a complete range of service in various makers. we offer a fast and efficient service with highly skilled service engineers. we look forward to offering our best services to support you efficiently, effectively, and reliably.

We provide comprehensive services for the incinerator control system listed below.

- Service for Combustion chamber with diesel oil burner, sludge burner, pilot fuel heater and electric control panel
- Troubleshooting/Repair of Burner, control valves and related apparatus
- Troubleshooting & maintenance of Incinerator Control system.
- Adjusting/Calibration Furnace temperature Controllers
- Service for primary and Sludge burner to ensure flue gas emissions satisfy.
- Burner control PLC Renewal & New PLC Programming and installation.
- Furnace condition checks for primary and secondary chamber.



OVERVIEW

JOHNS COMBUSTION supplies genuine, high-quality OEM spare parts for Boilers, Inert gas generator, Exhaust gas boiler and Incinerator systems used on marine vessels. Our experts are available 24/7 to identify the parts you need.

We offer a broad range of combustion products for various ships in the capacity range of 0.7 to 50 MW and steam capacity of 1 to 120t/h. Supplying marine spare parts we ensure the best customer care by providing high-quality parts at a reasonable cost.

Additionally JOHNS COMBUSTION stock a wide range of spare parts which ensures our customers fast delivery anywhere in the world.

A strong relationship with our supplier network allows us to offer our customers very competitive price levels. We work with OEMs to obtain genuine, Quality parts directly and avoid unnecessary costs.

SCOPE OF SUPPLY

We provides spare parts support for a wide range of Combustion systems:

- ◆ Boiler Combustion Control System
- ◆ Burner Management system
- ◆ Inert Gas control system
- ◆ Incinerator control system
- ◆ Water Level system
- ◆ Thermal Fluid system
- ◆ Pumps and Accessories
- ◆ Burner assembly and Accessories
- ◆ Control Valves and Accessories
- ◆ FD fan and Accessories
- ◆ Water Level Gauge Glass
- ◆ Electrical Equipments

We provides spare parts support for the following makers.

BOILERS	BURNERS
AALBORG	WEISHAUP
SUNROD	VOLCANO
GADELIUS	SUNFLAME
KANGRIM	OILON
SAACKE	SAACKE
MITSUBISHI	KB
MIURA	KASA/D
OSAKA	MIURA
GREENS POWER	HAMWORTHY
HITACHI	RIELLO
KAWASAKI	CLAYTON
HYUNDAI	

OTHER EQUIPMENTS	
SIEMENS	LUCIFER
SAUTER	ERAB
DANFOSS	SUNTEC
TELEMECANIQUE	SPIRAX SARCO
HONEYWELL	TYCO VALVES
ROSEMOUNT	DICKOW
EMERSON	MOBREY
OMRON	GESTRA
PR ELECTRONICS	PARKER
LANDIS & GYR	DUNGS
YAMATAKE	ARI
MITSUBISHI	ABB



SPARE PARTS

24/7
SUPPORT



JOHNS COMBUSTION provides spare parts support for wide range of Boilers and Combustion systems. Our experts are available 24/7.

- Sequence Controllers and PLC's
- Air Damper servomotor and Positioners
- Flame Detector and Flame sensors
- Fuel shut-OFF Valves and fuel regulators
- High /Low pressure Switches
- DP Transmitters
- Temperature Controllers and Sensors
- Ignition electrodes
- Safety relief Valves
- Pilot burners
- Burner Nozzle
- Drum Level Sensors

QUALITY POLICY



OVERVIEW

JOHNS COMBUSTION is committed to enhancing Customer Satisfaction in delivering the best service and value to the Customer by innovating proven methods and skilled manpower in ship Repair industry and improving those methods and standards continually. Our commitment to provide safety/quality services in the Marine and industrial sector.

We assure that our services are planned and performed in a standard and controlled way following specific and defined procedures in the terms of our Quality System.

In order to keep the company focus on constant enhancement, Quality system is periodically evaluated to make sure it fits our business needs.

Our goal is to deliver Quality Service in Marine and Industrial Repairs in order to satisfy client expectations.

WE COMMIT TO

- We Committed to achieve total customer satisfaction by delivering quality energy services projects by trained employees.
- Continually improving the effectiveness of our Quality Management System and Providing customers with products and services that meets or exceeds their expectations in quality and service.
- Maintain a highly skilled, qualified and motivated workforce and provide them with a healthy and inspiring work environment. Ensure that all employees are made aware of their individual obligations in respect of this quality policy

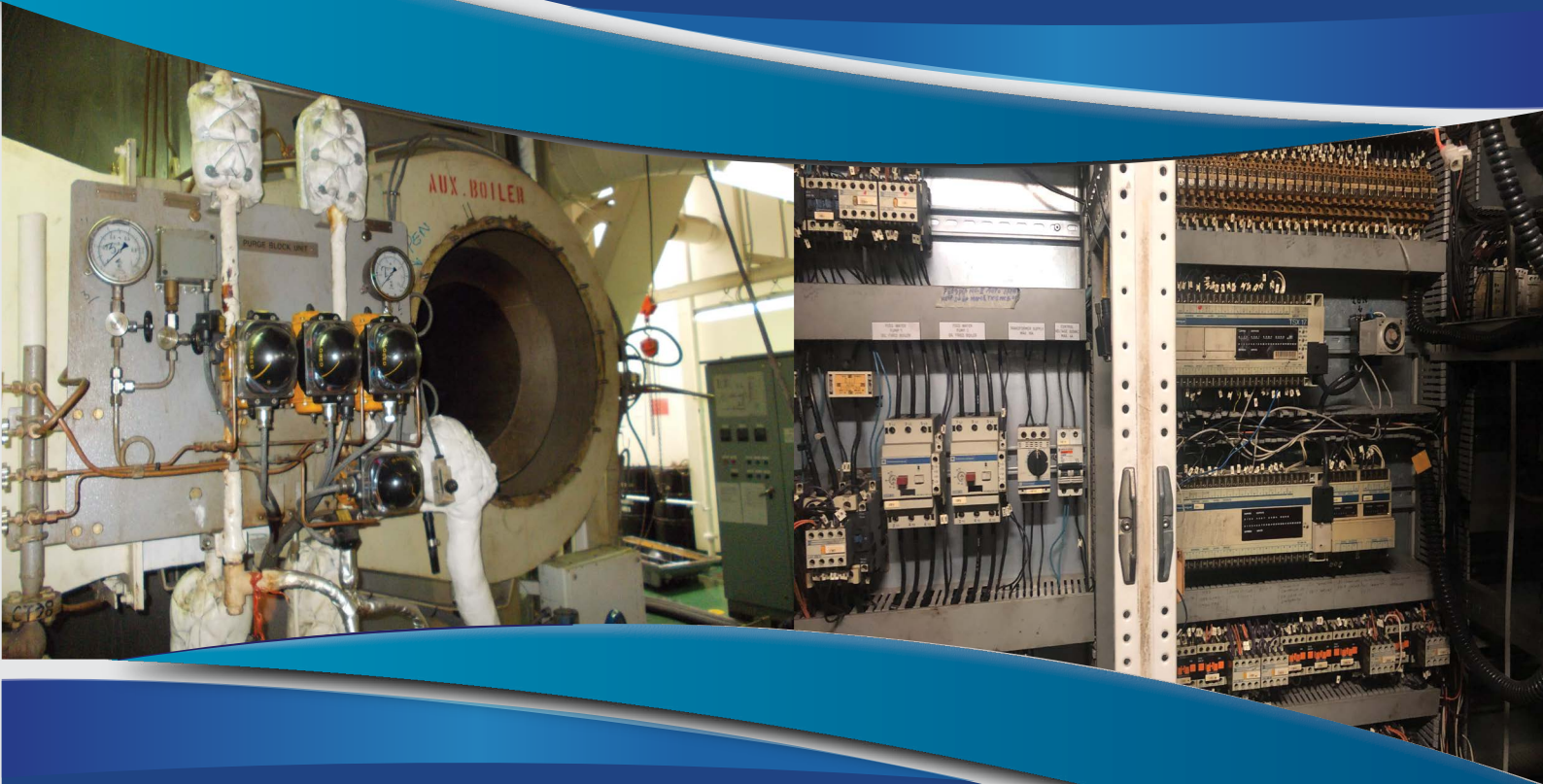
STATEMENT

- To comply with marine classification standards, our quality policy. In this direction, we promise that we will keep our targets constantly and spread this policy among all our employees.
- Safety focus / Qualified personnel / Quality performance / Ethical behaviour,
- Being exemplary and leading company in the sector with respect to the environment.





Safety and Reliability solutions for Combustion systems



WHY CHOOSE US

- 24X7 Service and Quick Response
- Qualified/Trained Engineers
- Affordable Rates
- Genuine, High-Quality Spares Supports
- Dedicated R&D Team for Retrofit Projects
- Highest Quality Service

CONTACT US

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