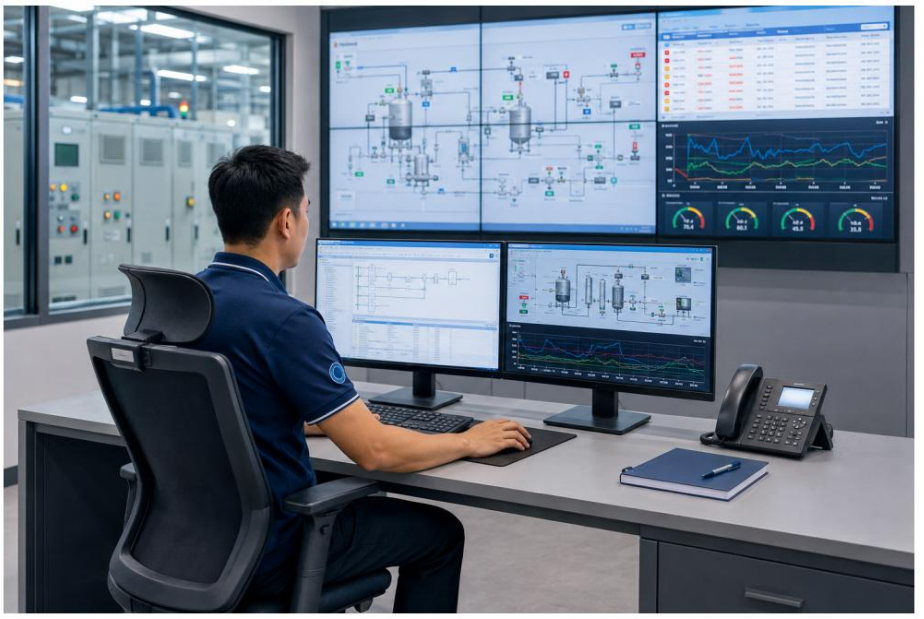
TES

DRIVES & AUTOMATION SOLUTIONS

INTEGRATED AUTOMATION SOLUTIONS

PLC PROGRAMMING, PROCESS VISUALIZATION AND OPERATIONAL SUPPORT



FROM FIELD SIGNALS TO OPERATOR DECISIONS

ENGINEERING CAPABILITIES

1 **PLC & SAFETY LOGIC**
Sequence control, interlocking, permissives and fail-safe functions.

2 **HMI & SCADA DEVELOPMENT**
Clear process graphics, alarms, trends, reports and historian integration.

3 **CONTROL ROOM OPERATION**
Real-time supervision, event analysis and informed operator response.

4 **SYSTEM INTEGRATION**
Connectivity with MCC, VFD, switchboard, instruments and remote I/O.

5 **TESTING & COMMISSIONING**
Software simulation, FAT, SAT, loop checks and site commissioning.

6 **TRAINING & SUPPORT**
Operator training, documentation, remote assistance and lifecycle service.

SYSTEM ENGINEERING	PANEL ASSEMBLY & PROGRAMMING	INSTALLATION & INTEGRATION	FAT, SAT & COMMISSIONING

OUR COMMITMENT

QUALITY PRODUCTS

PROFESSIONAL SUPPORT

ON-TIME DELIVERY

CUSTOMER SATISFACTION

THAI ENGINEERING & SERVICES CO., LTD.
555/231-232 On nut road, Pravate, Pravate District
Bangkok 10250 THAILAND

Tel: +66(0)2-328-8734-5
Mobile: +66(0)81-989-6252
Line ID: @tes-company.com

www.tes-company.com
E-mail: supportsale@tes-company.com
Line ID : @tes-company.com

TES

DRIVES & AUTOMATION SOLUTIONS

PLC

HMI

SCADA

REMOTE I/O

NETWORK



SMART CONTROL.
REAL-TIME VISIBILITY.

1 **INTEGRATED CONTROL**
PLC, HMI, SCADA and field devices as one system.

2 **REAL-TIME MONITORING**
Process status, alarms, trends and production reports.

3 **RELIABLE NETWORK**
Industrial communication and redundant architecture.

4 **FLEXIBLE & SCALABLE**
Modular design for upgrades, expansion and remote I/O.

5 **LIFECYCLE SUPPORT**
Engineering, FAT, commissioning, training and service.

GENERAL SPECIFICATIONS

Controller	:	PLC / PAC / Safety PLC
Visualization	:	HMI / SCADA / Web Client
Remote I/O	:	Distributed / Marine-grade options
Communication	:	Ethernet / Modbus / Profibus / OPC UA
Integration	:	VFD / MCC / Switchboard / Instruments
Functions	:	Control / Alarm / Trend / Report
Control Supply	:	24 VDC with UPS options
Standards	:	IEC 61131-3 / IEC 60204-1 / IEC 62443

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ALARM & MONITORING SYSTEMS (AMS)



INTEGRATED AUTOMATION FOR MARINE, INDUSTRIAL AND BUILDING APPLICATIONS

TES delivers integrated control, alarm and monitoring solutions for critical equipment and processes. Our systems combine reliable automation, clear operator interfaces and secure data communication to improve safety, availability and operational visibility.

CONTROL & AUTOMATION	ALARM & SAFETY	MONITORING & DATA
PLC-based control systems Motor, pump and valve control Sequence and interlock logic Local and remote operation	Alarm annunciation systems Priority and acknowledgement Safety interlocks and shutdowns Audible and visual indication	HMI and SCADA monitoring Real-time status and trending Event and alarm history Reports and remote supervision

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QUALITY PRODUCTS

PROFESSIONAL SUPPORT

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Engineering, panel assembly, software development, installation, testing and commissioning from one team

System Scope

SYSTEM AREA	FUNCTIONS	TYPICAL APPLICATIONS	PROJECT DATA
Control System	Automatic sequences, PID control, interlocks and equipment coordination	Machinery, pumps, motors, valves and process systems	PLC: [TBD] I/O: [TBD]
Alarm System	Alarm detection, priority, acknowledgement, horn and beacon control	Machinery alarms, common alarms and safety notifications	Points: [TBD] Levels: [TBD]
Monitoring System	Status display, measurements, trends, event history and reports	HMI, SCADA, local stations and central control rooms	HMI: [TBD] SCADA: [TBD]
Power Management	Generator control, synchronizing, load sharing and load shedding	Marine and land-based power generation systems	Generators: [TBD] Bus: [TBD]
Remote Integration	Data exchange, remote diagnostics and third-party system interface	BMS, PMS, IAS, network and cloud gateway integration	Protocol: [TBD] Network: [TBD]

Hardware and Communication

Controller / PLC	[TBD]	**HMI / SCADA**	[TBD]
Power Supply	[TBD] VDC / VAC	**Enclosure / IP**	[TBD]
Communication	[TBD]	**Redundancy**	[TBD]

Interfaces and Compliance

Communication options may include Modbus TCP/RTU, PROFINET, PROFIBUS, EtherNet/IP, BACnet, CAN and IEC 61850, subject to project requirements. Design and construction can be aligned with applicable IEC standards and marine classification requirements including DNV, BV, LR, ABS and RINA where specified.

For control philosophy, I/O lists, alarm schedules and system quotations, contact TES engineering support.



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