ISO 9001:2015 ISO 27001:2022

effiTPM™
TOTAL PRODUCTIVE MAINTENANCE

Hull Condition Monitoring (HCM)

Digitizing the Complete Hull Condition Lifecycle

Inspect. Assess. Repair. Refit. Preserve.

A secure, structured decision-support platform for managing Hull structural condition throughout the vessel lifecycle.

CLASS-ALIGNED

OFFLINE DEPLOYABLE

BUILT FOR MARITIME OPERATIONS

Proven. Class-aligned. Deployable. Built specifically for Hull lifecycle management.

efficienza®
www.efficienza.in

www.efficienza.in effitpm@efficienza.in +91 96000 67555

effiTPM™
TOTAL PRODUCTIVE MAINTENANCE

One Platform.
The Complete Hull Condition Workflow.

Structured capabilities across inspection, repair, refit and lifecycle traceability.

Ship Portfolio
Maintain structured vessel, compartment, hull-member and deferred-member information.

Inspection Management
Plan inspections, capture structural observations and thickness measurements, and maintain controlled workflows.

Excel-Enabled Data Capture
Import structured inspection and thickness information using familiar Excel-based processes.

Historical Thickness Records
Preserve previous measurements to support future comparison, survey and engineering assessment.

Deferred Members
Keep unresolved structural members visible and traceable across inspections and refits.

Refit Management
Convert inspection findings into structured repair and refit records.

BOM & Steel Weight
Support repair-material planning with steel quantity and weight calculations.

Certificate of Repairs
Generate structured repair-completion documentation following the refit workflow.

Documents Audit Trail
Maintain supporting documents together with Activity Logs, System Logs and user-level traceability.

Role-Based Access
Control system access according to defined responsibilities such as Captain, HOD, Officer, Sailor and Administrator.

A unified workflow that connects data, people and decisions

for safer operations, smarter maintenance and extended asset life.

efficienza®
www.efficienza.in
www.efficienza.in effitpm@efficienza.in +91 96000 67555

effiTPM™
TOTAL PRODUCTIVE MAINTENANCE

Hull Condition Information Should Not Disappear into Spreadsheets, Survey Reports and Dry-Dock Files.

Throughout a vessel's lifecycle, structural information is generated through inspections, thickness measurements, survey reports, repairs refits, dry-dock activities and engineering records. When this information is fragmented, technical teams spend valuable time reconstructing the vessel's history instead of acting on it.

When the Next Inspection or Refit Begins, Can Your Team Immediately Answer:

- What was the previous thickness at this location?
- Was this structural member repaired earlier?
- Which members remain deferred?
- What was completed during the previous refit?
- What repair materials may be required?
- Where are the relevant supporting documents?
- Who entered, reviewed and approved the information?

effiTPM™
TOTAL PRODUCTIVE MAINTENANCE
HCM

Creates One Structured Digital Hull History.

effiTPM HCM connects inspections, measurements, structural members, deferred items, repairs, refits and documents into a continuously maintained digital record.

Vessel → Inspect → Record → Review → Repair → Refit → Preserve History

One Vessel. One Structured History. One Trusted Source of Reference.

efficienza®
www.efficienza.in
www.efficienza.in effitpm@efficienza.in +91 96000 67555

effiTPM™
TOTAL PRODUCTIVE MAINTENANCE

Built for the Realities of Maritime Operations

Compliance & Auditability

Structured workflows, controlled approvals, historical records and audit trails supporting class-oriented operational discipline.

Operational Discipline

Standardize how structural information is captured, reviewed, approved, repaired and preserved.

Lifecycle Visibility

Maintain the history of inspections, thickness measurements, deferred members, repairs and refits throughout the vessel lifecycle.

Secure & Offline Capable

Docker-based local deployment supports offline and air-gapped environments where cloud connectivity may be unavailable or restricted.

Dry-Dock & Refit Readiness

Bring historical condition information, identified repair requirements and material planning together before the vessel enters refit.

Human-in-the-Loop by Design

effiTPM HCM supports technical decision-making but does not autonomously control machinery, vessel systems or operations. All operational decisions remain with authorised personnel.

> *A vessel may undergo many inspections, repairs and refits during its lifetime. Its structural history should remain one continuous record.*

effiTPM Marine - Hull Condition Monitoring

- Structured Hull Information.
- Controlled Workflows.
- Lifecycle Traceability.

Request a Demonstration

Schedule a Technical Discussion

Enquire about IRS-Aligned Deployment

Built Proudly in India

efficienza®
www.efficienza.in

Product of Efficienza Business Solutions Pvt Ltd

Plot No:37, SSD Oil Mill Road (A.N. ELUMALAI SALAI), VGN Nagar, Iyyappanthangal, Chennai, Tamilnadu, India, 600 056. | www.efficienza.in | effitpm@efficienza.in | +91 96000 67555