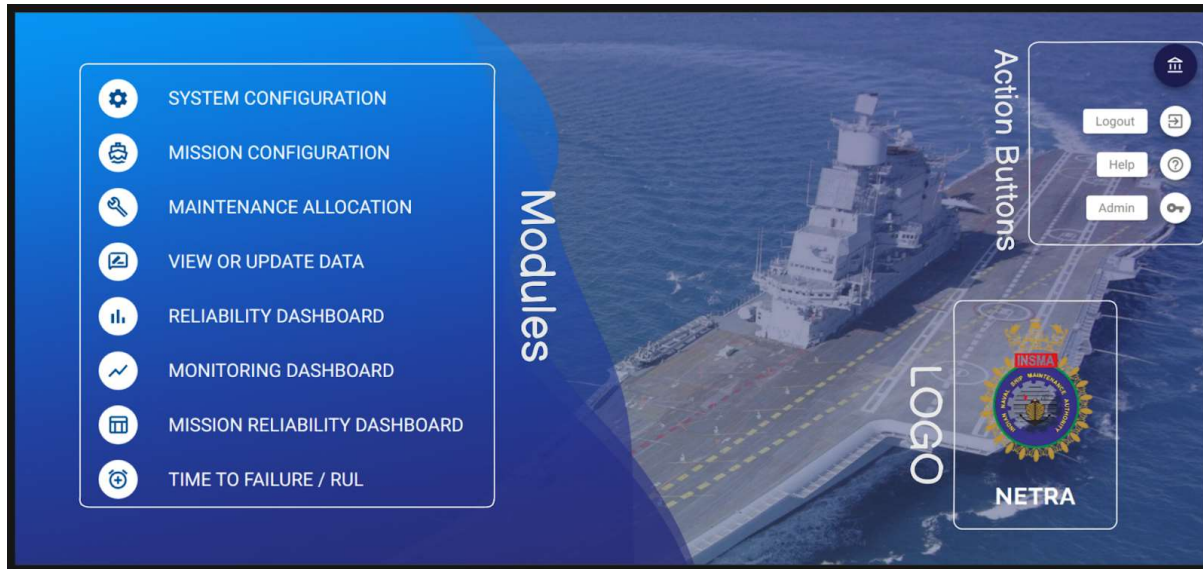


# SYSTEM CONFIGURATION



NETRA

# HOME PAGE



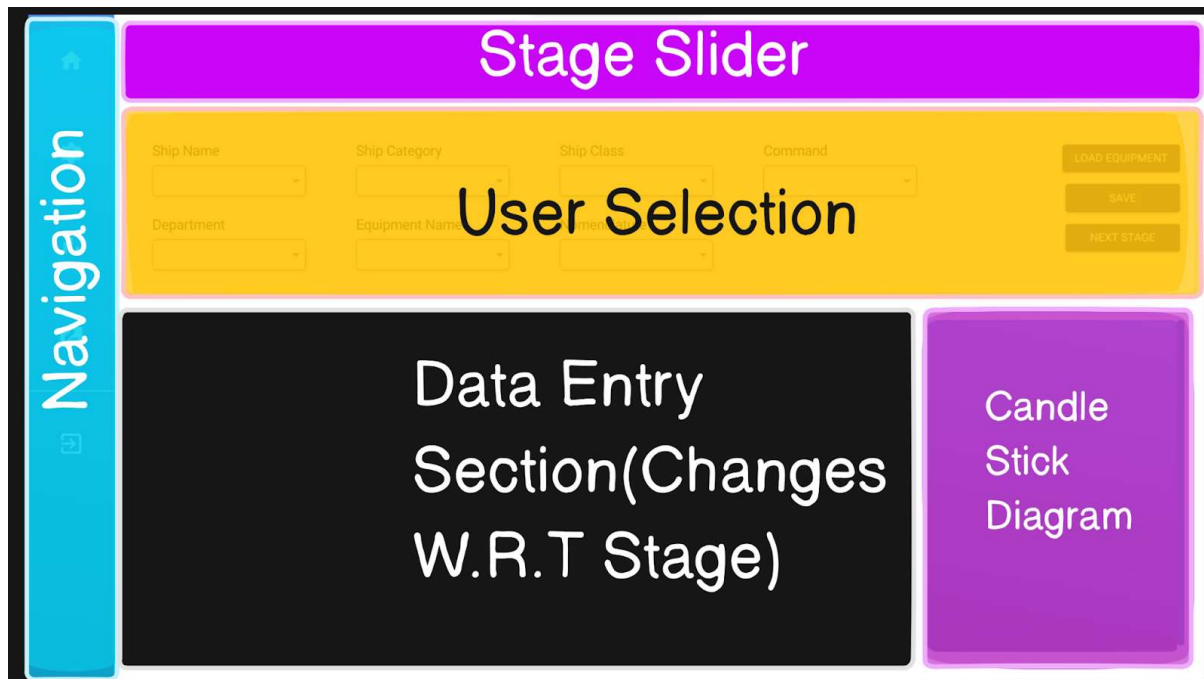
## MODULE UNDER CONSIDERATION :- SYSTEM CONFIGURATION

The system configuration module helps you put in information about equipment. You can set up relationships between different parts of the equipment, like parent and child connections or how things are arranged in parallel or series. It also lets you add details about what could go wrong (Failure Mode/Symptoms), how often the equipment is used (Duty Cycle), and information about maintenance. Think of it like a central place where you can add all the important details about your equipment. This makes it easier to take care of the equipment and manage it well to avoid problems.

### **NOTE:-**

**You can only set up information for one equipment at a time using the system configuration module.**

# STRUCTURE OF THE SYSTEM CONFIGURATION MODULE



## Terms Used in The Documentation:-

**Standard Name:** Officially recognized and standardized designation for equipment, providing clarity and consistency; e.g., "MAIN ENGINE GAS TURBINE (DT-59) ZORYA."

**Non-Standard Name (Nomenclature):** Unofficial or colloquial name within an organization for simplified communication; e.g., "GT1" as a common shorthand.

**Candle-Stick-Diagram:** Structures generated by clicking the Load Equipment button during Equipment Structuring. For Reference see the Structure of the system configuration module

**Navigation:-** contains different buttons to various modules and home.

## Buttons:

Buttons	Uses
LOAD EQUIPMENT	Sets the equipment for data entry
SAVE	Saves the data to the database
NEXT STAGE	Slides you to the next stage
BACK	Brings you back to the previous stage
NEXT MODULE	Takes you to Data Manager Module

**Stage slider:-** its a slider which slides between various data entry steps ,indicates which type of data entry we are performing

**stages :-**

1. Equipment Structuring
2. Redundancy & Parallel Information
3. Maintenance Information
4. Failure Mode
5. Duty Cycle
6. Additional Equipment Info



**User Selection:-** contains Selections required to filter out the equipment and the nomenclature

**Selections:-**

1. Ship name
2. Ship category
3. Ship class
4. Command
5. Department
6. Equipment
7. Nomenclature

Ship Name SHIP 1	Ship Category DESTROYER	Ship Class KOLKATA(P-15A)	Command WESTERN	BACK	LOAD EQUIPMENT
Department ENGINEERING	Equipment Name GAS TURBINE	Nomenclature GT 1		NEXT STAGE	SAVE

**NOTE:-**

All guidance will be based on the reference nomenclature GT1 (Gas Turbine as equipment).

## DATA-ENTRY SECTION

### Slider Stage 1:Equipment Structuring

#### Create Equipment

CREATE EQUIPMENT
ADD CHILD EQUIPMENTS
IMPORT OEM DATA

Equipment Name

CMMS ID

Nomenclature

CLEAR

CREATE

### Steps to create Equipment:

1. Navigate through the "User Selection" section until reaching "Command."

Ship Name

INS CHENNAI

Ship Category

DESTROYER AND...

Ship Class

KOLKATA (P-15A)

Command

Western Naval C...

SAVE

LOAD EQUIPMENT

DEPARTMENT

EQUIPMENT NAME

NOMENCLATURE

NEXT STAGE

2. Next, choose the department to which the equipment will be assigned.

Home

Settings

Menu

Help

Logout

Equipment Structuring

Redundancy & Parallel Information

Maintenance Information

Failure Mode

Duty Cycle

Additional Equipment Info

Ship Name

SHIP 1

Ship Category

DESTROYER

Ship Class

KOLKATA(P-15A)

Command

WESTERN

LOAD EQUIPMENT

SAVE

DEPARTMENT

ENGINEERING

EQUIPMENT NAME

NOMENCLATURE

NEXT STAGE

CREATE EQUIPMENT

ADD CHILD EQUIPMENTS

IMPORT OEM DATA

Equipment Name

CMMS ID

Nomenclature

CLEAR

CREATE

3. Write the official and standardized name (MAIN ENGINE GAS TURBINE (DT-59) ZORYA) in the Equipment Name field.
4. Input the CMMS ID for the equipment, ensuring it matches the EquipmentID in the CMMS.

- Specify the nomenclature, which is the unofficial or non-standard name (GT1) that people in the organization commonly use to refer to the equipment.

The screenshot shows the 'Equipment Structuring' tab in a web application. The form includes fields for Ship Name (SHIP 1), Ship Category (DESTROYER), Ship Class (KOLKATA(P-15A)), Command (WESTERN), Department (ENGINEERING), Equipment Name, and Nomenclature. The Nomenclature field is set to 'GT1'. Buttons for 'LOAD EQUIPMENT', 'SAVE', and 'NEXT STAGE' are visible. Below the form, there is a section for 'CREATE EQUIPMENT' with fields for Equipment Name (MAIN ENGINE GAS TURBINE (DT-59)), CMMS ID (1234), and Nomenclature (GT1). Buttons for 'CLEAR' and 'CREATE' are present.

- Afterward, proceed to click on 'create.' This action generates GT1, symbolized by a candlestick diagram featuring 'GT1' as its designated name.

The screenshot shows the 'Equipment Structuring' tab in a web application. The form includes fields for Ship Name (SHIP 1), Ship Category (DESTROYER), Ship Class (KOLKATA(P-15A)), Command (WESTERN), Department (ENGINEERING), Equipment Name, and Nomenclature. The Nomenclature field is set to 'GT1'. Buttons for 'LOAD EQUIPMENT', 'SAVE', and 'NEXT STAGE' are visible. Below the form, there is a section for 'CREATE EQUIPMENT' with fields for Equipment Name (MAIN ENGINE GAS TURBINE (DT-59)), CMMS ID (1234), and Nomenclature (GT1). A 'CLEAR' button is present. On the right side, a candlestick diagram is visible, featuring 'GT1' as its designated name.

- Once the candlestick becomes visible, click on 'save.' Congratulations, your equipment has been successfully created.

## ADD CHILD EQUIPMENT

[CREATE EQUIPMENT](#) [ADD CHILD EQUIPMENTS](#) [IMPORT OEM DATA](#)

Parent Component i

Child Component Name i

CMMS ID i

Nomenclature i

CREATE CHILD COMPONENT

ADD ROW

### Steps to create Child Component for the Desired Equipment:

1. Navigate to the "User Selection" section until reaching "nomenclature" for the desired equipment.

Ship Name  

SHIP 1

Ship Category  

DESTROYER

Ship Class  

KOLKATA(P-15A)

Command  

WESTERN

LOAD EQUIPMENT

Department  

ENGINEERING

Equipment Name  

GAS TURBINE

Nomenclature  

GT 1

SAVE

NEXT STAGE

2. Click on "LOAD EQUIPMENT" to set the equipment for which the child needs to be created, identified by the candlestick diagram with the same



name.

Equipment Structuring   Redundancy & Parallel Information   Maintenance Information   Failure Mode   Duty Cycle   Additional Equipment Info

Ship Name: SHIP 1   Ship Category: DESTROYER   Ship Class: KOLKATA(P-15A)   Command: WESTERN   **LOAD EQUIPMENT**   **SAVE**   **NEXT STAGE**

Department: ENGINEERING   Equipment Name: GAS TURBINE   Nomenclature: GT 1

CREATE EQUIPMENT   **ADD CHILD EQUIPMENTS**   IMPORT OEM DATA

Parent Component:

Child Component Name   CMMS ID   Nomenclature

**CREATE CHILD COMPONENT**   **ADD ROW**

GT 1

3. In the Parent Selection field, choose the parent equipment from the dropdown.

CREATE EQUIPMENT   **ADD CHILD EQUIPMENTS**   IMPORT OEM DATA

Parent Component:

Child Component Name   CMMS ID   Nomenclature

**CREATE CHILD COMPONENT**   **ADD ROW**

GT 1

4. Click on "add row" to create a row for filling in the details of the child component.

Parent Component:

Child Component Name   CMMS ID   Nomenclature

children1   4561   Child1

children2   7890   Child2

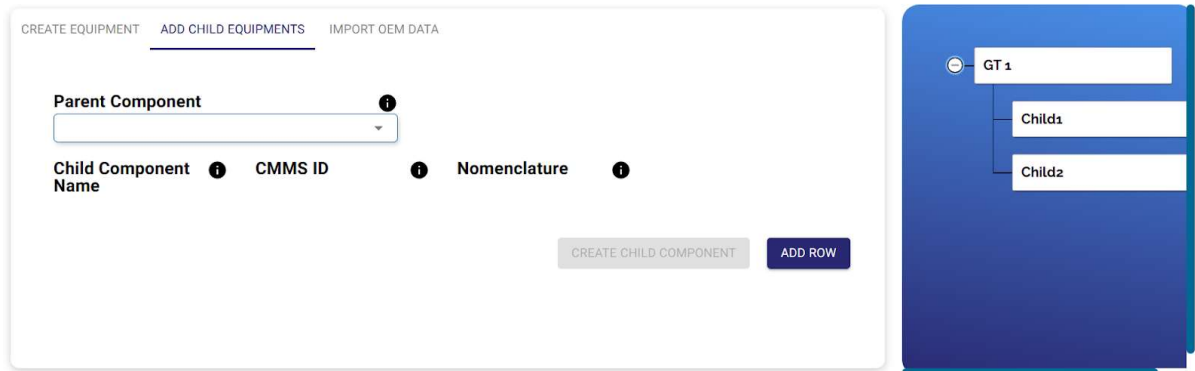
**CREATE CHILD COMPONENT**   **ADD ROW**

GT 1

- Child Component Name: Enter the standardized name for the child component.

- CMMS ID: Input an ID similar to the EquipmentID from CMMS.
- Nomenclature: Specify a non-standard name for the child component.

5. Upon entering the details for the child component, click the "Create Child Component" button to initiate the creation of the child component under the parent, namely GT1. This will be indicated by the tree structure generated at the location of the candlestick diagram.



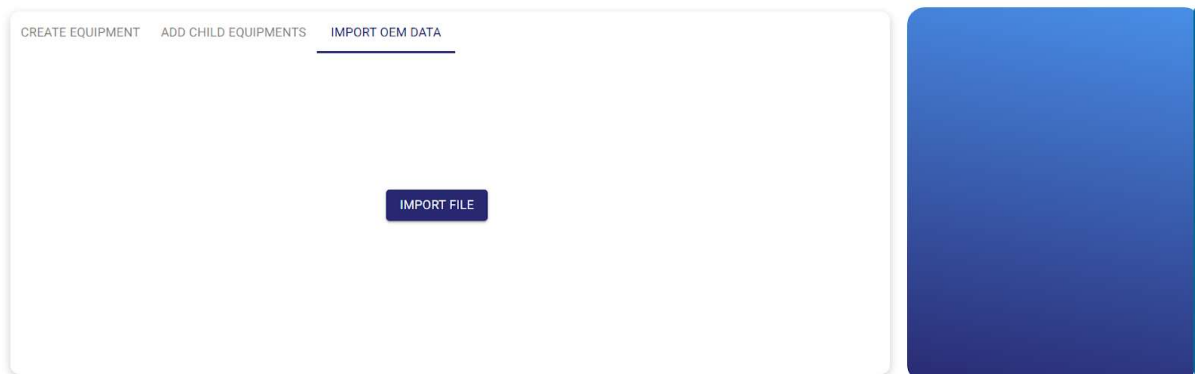
The screenshot shows the 'ADD CHILD EQUIPMENTS' form with the following fields and buttons:

- Parent Component:** A dropdown menu with an information icon.
- Child Component Name:** A text input field with an information icon.
- CMMS ID:** A text input field with an information icon.
- Nomenclature:** A text input field with an information icon.
- Buttons:** 'CREATE CHILD COMPONENT' (disabled) and 'ADD ROW'.

To the right, a tree diagram shows a parent node 'GT 1' with two child nodes, 'Child1' and 'Child2'.

6. Now, click on the "save" button to store this configuration in the database.

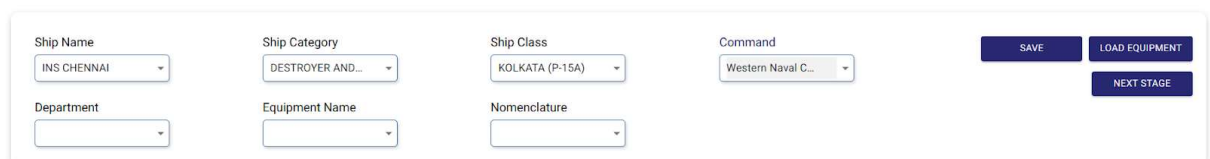
## IMPORT OEM DATA



The screenshot shows the 'IMPORT OEM DATA' form with a single button labeled 'IMPORT FILE'.

## STEPS TO IMPORT DATA FROM OEM:

1. Navigate through the "User Selection" section until reaching "Command."



The screenshot shows the 'User Selection' form with the following fields and buttons:

- Ship Name:** Dropdown menu (selected: INS CHENNAI).
- Ship Category:** Dropdown menu (selected: DESTROYER AND...).
- Ship Class:** Dropdown menu (selected: KOLKATA (P-15A)).
- Command:** Dropdown menu (selected: Western Naval C...).
- Department:** Dropdown menu.
- Equipment Name:** Dropdown menu.
- Nomenclature:** Dropdown menu.
- Buttons:** 'SAVE', 'LOAD EQUIPMENT', and 'NEXT STAGE'.

2. Choose the department to which the equipment will be assigned.

The screenshot shows the 'Equipment Structuring' tab in a web application. The form includes dropdown menus for Ship Name (SHIP 1), Ship Category (DESTROYER), Ship Class (KOLKATA(P-15A)), Command (WESTERN), Department (ENGINEERING), Equipment Name, and Nomenclature. Action buttons 'LOAD EQUIPMENT', 'SAVE', and 'NEXT STAGE' are on the right. Below the form, the 'IMPORT OEM DATA' sub-tab is active, showing an 'IMPORT FILE' button. A vertical blue sidebar on the left contains navigation icons.

3. Upload the OEM CONFIGURATION CSV you received from the original equipment manufacturer.

This screenshot shows the same 'Equipment Structuring' form, but now with data imported from a CSV file. The 'Department' dropdown remains 'ENGINEERING'. The 'IMPORT OEM DATA' sub-tab displays a table with the following content:

Component Name	Nomenclature	CMMS ID
MAIN ENGINE GAS TURNINE ZORYA		

At the bottom right of the table area are 'ADD ROW' and 'CREATE' buttons. The rest of the interface, including the top tabs and the left sidebar, remains the same.

4. If you're creating a single equipment, simply fill in the details, including the CMMS ID and nomenclature, then click "Create."

The screenshot shows the 'Equipment Structuring' tab of a web application. The form includes dropdown menus for Ship Name (SHIP 1), Ship Category (DESTROYER), Ship Class (KOLKATA(P-15A)), Command (WESTERN), Department (ENGINEERING), Equipment Name, and Nomenclature. Buttons for 'LOAD EQUIPMENT', 'SAVE', and 'NEXT STAGE' are on the right. Below the form is a table with one row of equipment data.

Component Name	Nomenclature	CMMS ID
MAIN ENGINE GAS TURNINE ZORYA	GT1	1234

Buttons 'ADD ROW' and 'CREATE' are at the bottom right of the table area.

5. If you intend to create multiple equipment with the same configuration, click on "add row" to create as many as you need. Then, fill in the details for each, and finally, click "create" to generate the specified number of equipment units with the identical configuration.

This screenshot shows the same 'Equipment Structuring' form, but the table now contains four rows of equipment data, each with a unique CMMS ID. The 'ADD ROW' and 'CREATE' buttons remain at the bottom right.

Component Name	Nomenclature	CMMS ID
MAIN ENGINE GAS TURNINE ZORYA	GT1	1234
MAIN ENGINE GAS TURNINE ZORYA	GT2	4567
MAIN ENGINE GAS TURNINE ZORYA	GT3	7891
MAIN ENGINE GAS TURNINE ZORYA	GT4	2345

## Slider Stage 2:Redundancy & Parallel Information

Equipment name	Equipment Parent Name	Parallel Component	Redundancy Type	K
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No Rows To Show

### Column in Redundancy & Parallel Information stage:-

1. Equipment name
2. Equipment Parent Name
3. Parallel Component
4. Redundancy Type
5. K

#### Steps :-

1. Fill in the details in the columns for "Equipment name," "Equipment Parent Name," "Parallel Component," "Redundancy Type," and "K."
2. Click on the "Save" button in the “User Selection Section” to save the entered details.

## Slider Stage 3:Maintenance Information

Equipment name	Repair Type	Preventive Maintenance Applicable	Preventive Maintenance Interval (hrs)	Can be Replaced Ship Staff	Is System Parameter's Recorded
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No Rows To Show

### Column in maintenance stage:-

1. Equipment name
2. Repair Type
3. Preventive Maintenance Applicable
4. Preventive Maintenance Interval (hrs)
5. Can be Replaced by Ship Staff
6. Is System Parameter's Recorded

### Steps:-

1. Fill in the details in the columns for "Equipment name," "Repair Type," "Preventive Maintenance Applicable," "Preventive Maintenance Interval (hrs)," "Can be Replaced by Ship Staff," and "Is System Parameter's Recorded."
2. Click on the "Save" button in the “User Selection Section” to save the entered details.

## Slider Stage 4:Failure Mode

Equipment Name	Failure Mode/Symptoms
No Rows To Show	
<div><div>+ ADD ROW</div><div>DELETE ROWS</div></div>	

### Column in Failure Mode stage:-

1. Equipment Name
2. Failure Mode/Symptoms

### Steps:-

1. Fill in the details in the columns for "Equipment Name" and "Failure Mode/Symptoms."
2. Click on the "Save" button in the “User Selection Section” to save the entered details.

## Slider Stage 5:Duty Cycle

Equipment Name	Duty Cycle
No Rows To Show	

### Column in Duty Cycle stage:-

1. Equipment Name
2. Duty Cycle

### Steps:-

1. Fill in the details in the columns for "Equipment Name" and "Duty Cycle."
2. Click on the "Save" button in the “User Selection Section” to save the entered details.

## Slider Stage 6:Additional Equipment Info

Equipment Name	Installation Date	Default Avg. Monthly Utilization	Unit	Maintenance Data Availability
No Rows To Show				

### Column in Additional Equipment Info stage:-

1. Equipment Name

2. Installation Date
3. Default Avg. Monthly Utilization
4. Unit
5. Maintenance Data Availability

**Steps:-**

1. Fill in the details in the columns for "Equipment Name," "Installation Date," "Default Avg. Monthly Utilization," "Unit," and "Maintenance Data Availability."
2. Click on the "Save" button in the “User Selection Section” to save the entered details.