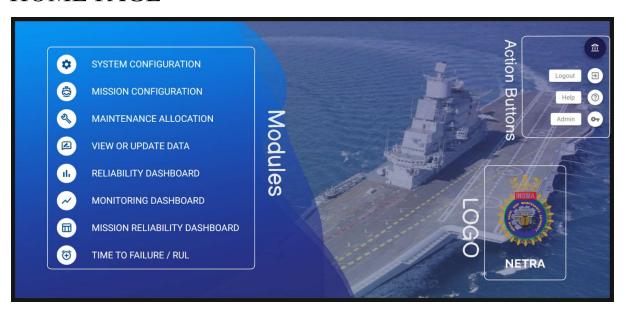
MAINTENANCE ALLOCATION



NETRA

HOME PAGE



MODULE UNDER CONSIDERATION: SYSTEM CONFIGURATION



The Maintenance Allocation module comprises two essential submodules: "Create Maintenance Plan," which is employed for the purpose of generating maintenance plans, and "Conduct RCM Analysis," utilized to execute Reliability-Centred Maintenance (RCM) analyses.

CREATE MAINTENANCE PLAN:-

STRUCTURE OF CREATE MAINTENANCE PLAN



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



User Selection:-

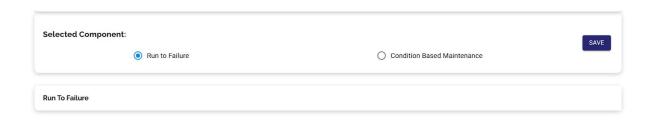


Radio Buttons:-

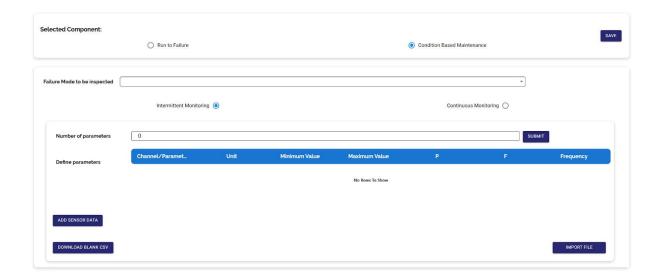


Radio Buttons Toggled UI:-

• Run To Failure:-



• Condition Based Maintenance:-



BUTTONS:-

Buttons	Use	
Submit	Set the equipment selected in the user selection for maintenance.	
Save	Saves the data entered in radio button toggled UI to the database.	
Generate Rows	Generate the number of rows in the define parameters table.	
Add Sensor Data	Navigate to the Add Sensor Data module, helpful after the sensor is created.	
Download Blank CSV	Download a blank CSV with predefined Excel columns used to create a sensor creation CSV.	
Import File	Upload the sensor creation CSV and display the data in the define parameters table.	

STEPS TO CREATING A MAINTENANCE PLAN:-

Step 1: Set Equipment for Maintenance

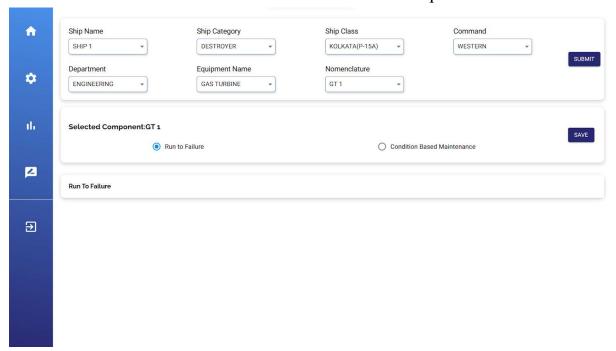
- 1. Navigate through the input fields of user selection:
 - Ship Name
 - Ship Category
 - Ship Class
 - Command
 - Department
 - Equipment
 - Nomenclature

2. Click on the "Submit" button. This will set the selected equipment for maintenance.



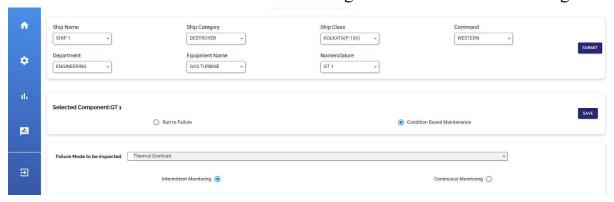
Step 2: Choose Maintenance Plan Type

- 3. Decide on the type of maintenance plan:
 - If "Run to Failure" is chosen:
 - No additional parameters are needed.
 - Click on the "Save" button to save the maintenance plan.



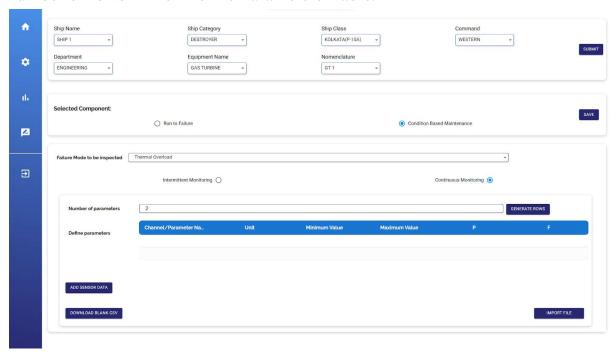
- If "Condition-Based Maintenance" is chosen:
- Select the relevant failure mode for which you want to consider a condition-based plan.

- Choose between "Intermittent Monitoring" or "Continuous Monitoring."



Step 3: Define Parameters for Condition-Based Maintenance

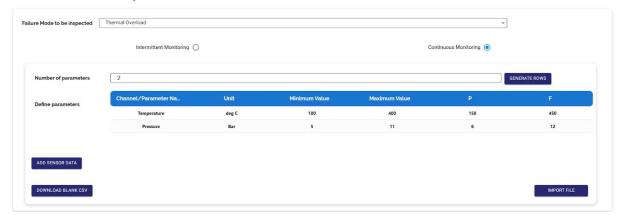
- 4. Enter the number of parameters you want to create for the selected failure mode.
- 5. Click on the "Generate Rows" button. This will generate the specified number of rows in the "Define Parameters" table.



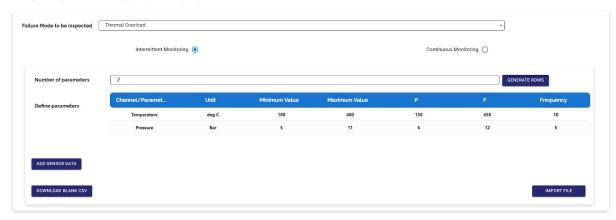
Step 4: Enter Sensor Creation Data

6. In the "Define Parameters" table, enter the sensor creation data for each parameter.

- This may include information such as parameter name, sensor type, threshold values, etc.



If intermittent Monitoring, then a "Frequency" column will be added to the "Define Parameters" table.



- 7. Click on the "Save" button to save the entered sensor creation data to the database(Sensor will be created).
- 8. Click on the "Add Sensor Data" button, to add sensor data.

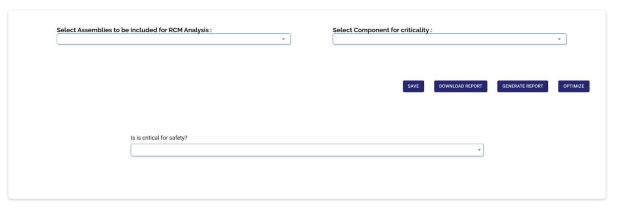
CONDUCT RCM ANALYSIS:-

STRUCTURE OF CONDUCT RCM ANALYSIS:-



Navigation and user selection are same as in create maintenance plan

Rcm Analysis Area:-



BUTTONS:-

Buttons	Use
Submit	Set the equipment selected in the user selection for "RCM ANALYSIS".
Save	Saves the data entered in the "RCM ANALYSIS AREA" to the database.
Generate Report	Generates the RCM report.
Download Report	Downloads the report in the pdf format.
OPTIMZE	Directs the user to pm optimization module.

STEPS TO PERFORM RCM ANALYSIS OF ANY EQUIPMENT:-

Step 1: Set Equipment for RCM Analysis

- 1. Navigate through the input fields of user selection:
 - Ship Name
 - Ship Category
 - Ship Class
 - Command
 - Department
 - Equipment
 - Nomenclature
- 2. Click on the "Submit" button. This will set the selected equipment for RCM analysis.

Step 2: Select Assemblies for RCM Analysis

3. A new section will appear, prompting the user to select assemblies to be included in the RCM analysis.



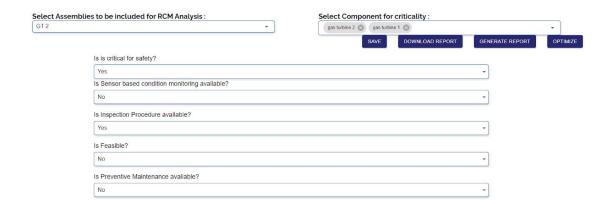
Step 3: Select Component for Criticality

4. After selecting assemblies, choose critical components for further analysis.



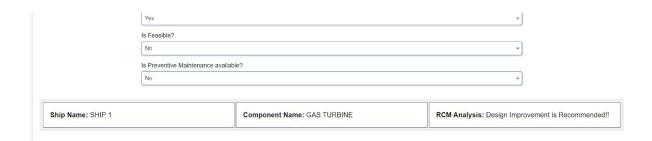
Step 4: Answer Incremental Questions

5. Answer a series of questions with yes or no responses. These questions should be presented incrementally, with each subsequent question appearing based on the previous answer.



Step 5: Netra's RCM Analysis Suggestion

6. Based on the user's responses, Netra (or the system) suggests an RCM analysis plan for the selected equipment.



Step 6: Save Report

7. Click on the "Save" button to save the RCM analysis plan.

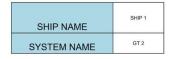
Step 7: Generate Report

8. Click on the "Generate Report" button to generate a detailed RCM analysis report.

Step 8: Download Report

9. Click on the "Download Report" button to download the generated report in PDF format.

NETRA



No.	System	Platform	Component	RCM Plan
1	gas turbine 1	SHIP 1	GAS TURBINE	Design Improvement is Recommended!!
2	gas turbine 2	SHIP 1	GAS TURBINE	Design Improvement is Recommended!!