Computerised Maintenance Management System

cmms.viewiss.com

INNOVATIVE SOFT SOLUTIONS

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Maintenance Management Goals

- ✓ Extend the life of Machines in the Plant
  - to minimize their wear and tear.
  - to postponed the investment on replacement.

- ✓ Increase the availability of machine for production
  - to smoothly operate the plant.
  - to increase the productivity.
  - to avoid rescheduling of production and timely supply to customers.
  - to eliminate unnecessary overtime to met the time schedule.

- ✓ Avoid unexpected breakdowns
  - to eliminate production disturbances.
  - to reduce the Maintenance Cost.

- ✓ Improve the Productivity , Quality and Safety of personnel
  - by maintaining machine in their good operating condition

- ✓ Compliance with Regulations
  - to avoid legal complication like penalty, plant closure.

To improve Reliability, Availability and Maintainability
You need a software to efficiently manage with less effort

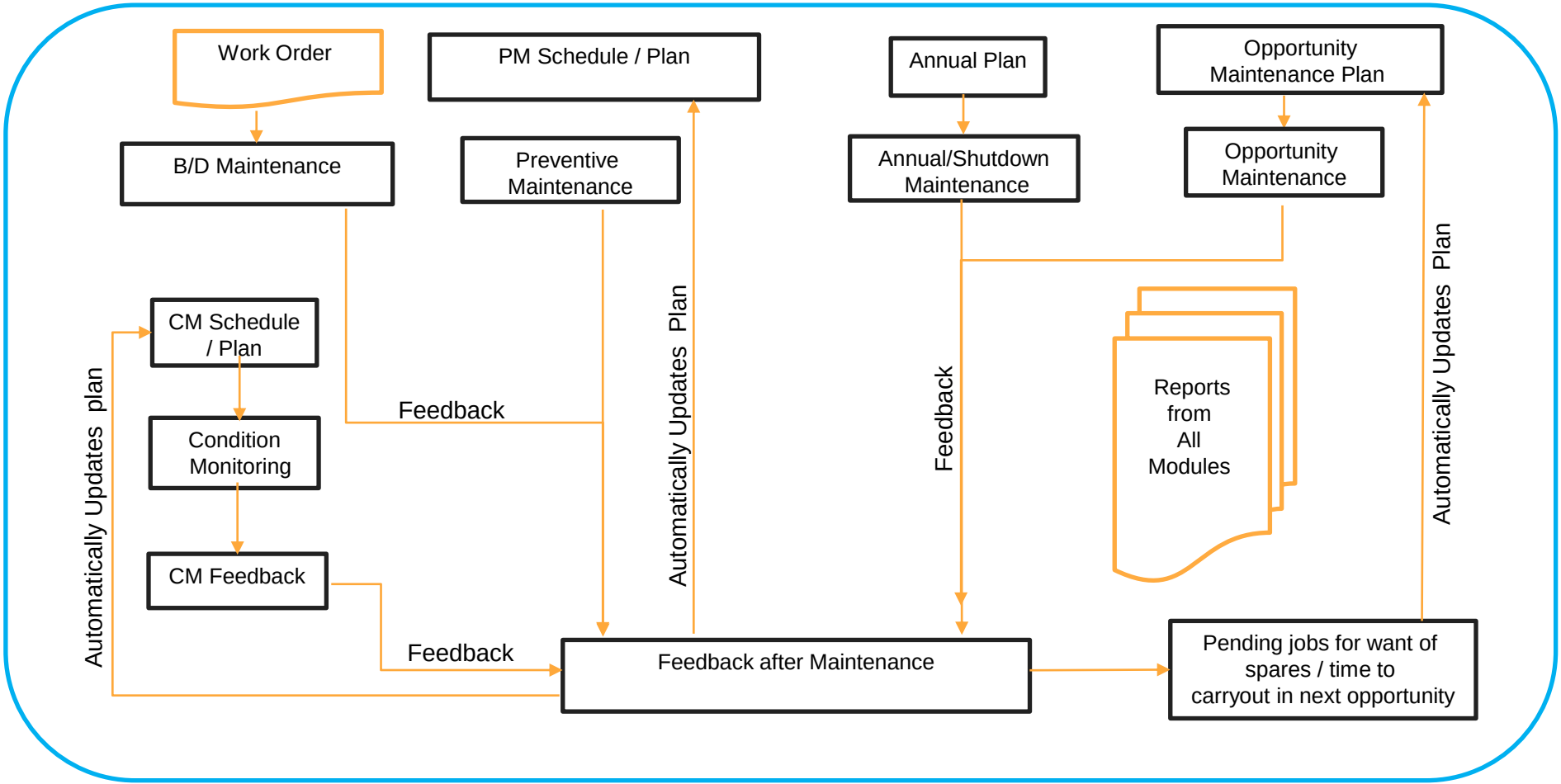
Software Features

- ✓ **Least human intervention is the goal of this software –** It automatically updates P/M, C/M, pending work Plans. Data entry forms are pre-filled wherever possible. Hence human error is kept to a minimum and reduces data entry time & effort.
- ✓ **Business Logic Module - the brain of our software, stores all your business logics, rules & procedures and controls the system!**
- ✓ A Windows 10 system having Wi-Fi / LAN connection is sufficient to use as server. There is no need for any other high-end Computer/Server.
- ✓ Entire organization can access live status on maintenance at anytime.
- ✓ **Live Reports** in your mobile/computer at all times – 24x7 across the year.
- ✓ Dashboard to show the entire Maintenance performance in single page with trend charts.
- ✓ Powerful & Live Analytical reports available to the management for making right decisions.
- ✓ All reports can be downloaded in to your computer in **Excel/PDF format**.

Software Features

- ✓ Our software employs **Responsive Web Design** & can be accessed through Computer, Tablets, Mobile phones.
- ✓ Highly secured, with user-based restriction to access information that **can be set or altered at anytime by the System Administrator in your organization without our involvement.**
- ✓ As an option, it can also be hosted & maintained by us in **cloud server.** You can access the data from anywhere across the world! More suited for -
  - Organizations with multi-plant locations spread across wider geographical area with central control.
  - Medium/Small organizations where it is not economical to install & maintain it at their end.
- ✓ No need for any other communication methods like Email, Phone etc., for information sharing.
- ✓ Automatically generate weekly/monthly schedules for different maintenance types.
- ✓ Calculates and displays **MTBF & MTTR** for each equipment as on date.
- ✓ Generates **graphical reports** on trends on various parameters for managerial decisions.
- ✓ Top Management can see all the department reports while individual department personnel can only see his department data.

CMMS Flowchart

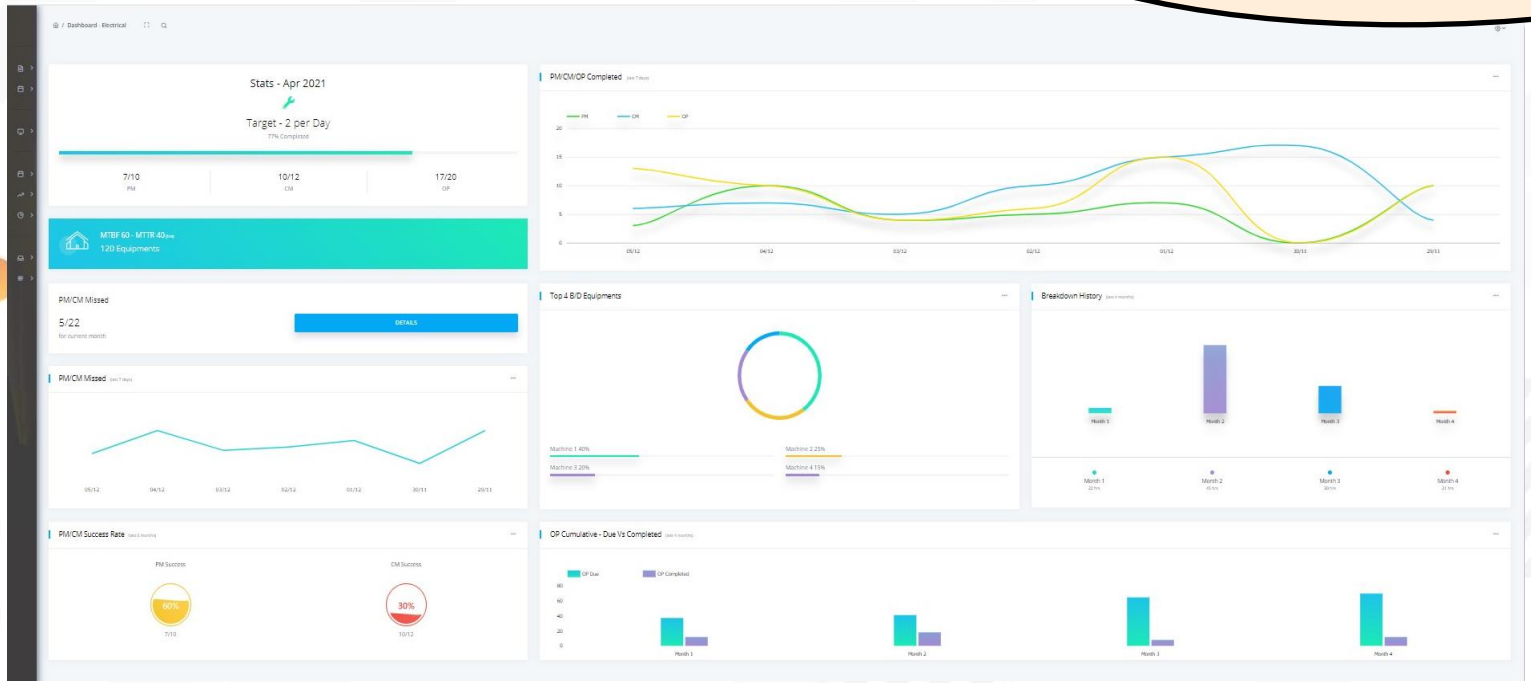


REPORTS

-Dashboard-

Dashboard

This page appears automatically whenever you login into the software to show you the complete Maintenance performance in single page thro various charts

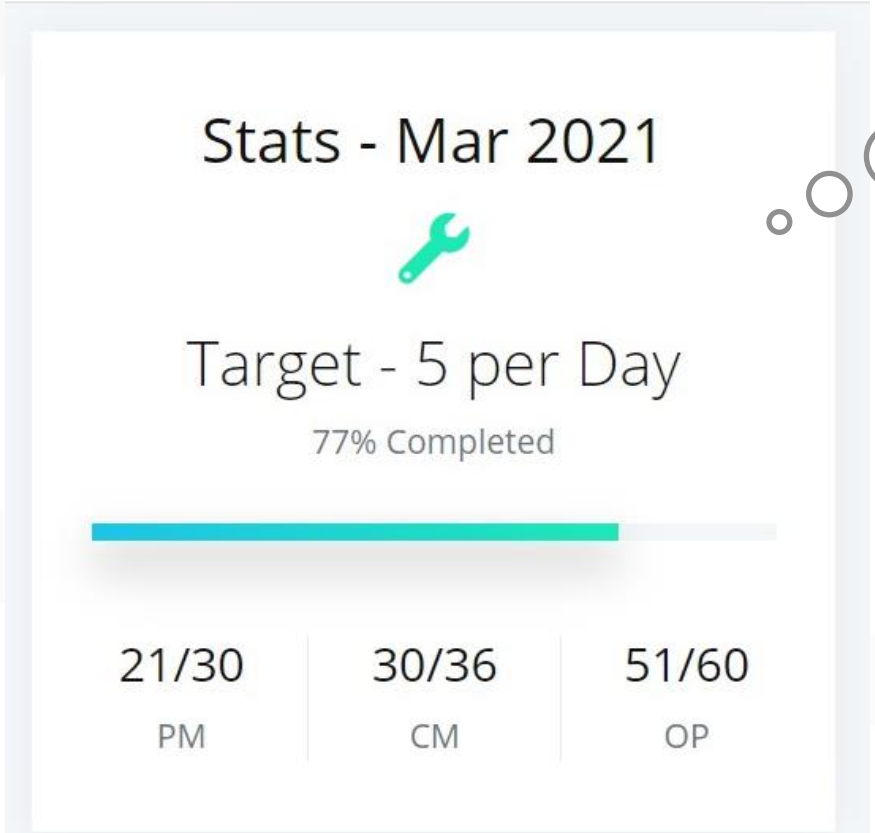


To cover all the reports, the size shown here in the presentation is very small compared to the actual size.

Each component will be explained separately in next slides

Dashboard

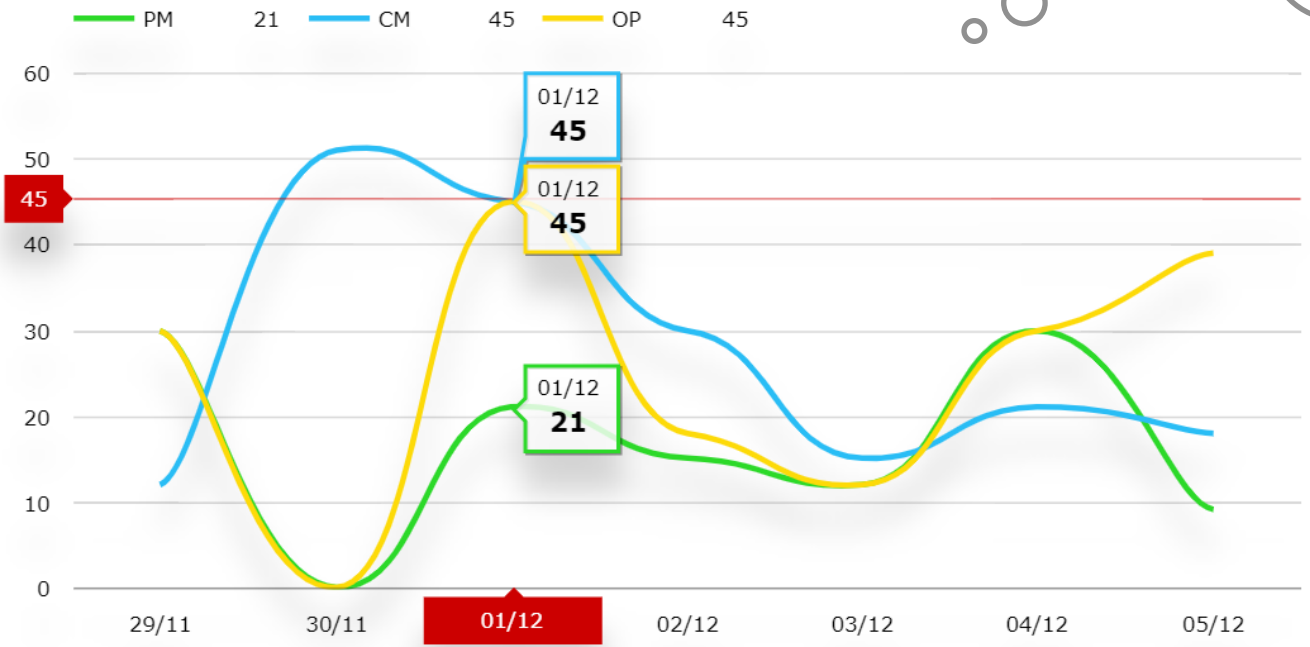
This shows current month maintenance Job planned Vs completed till date



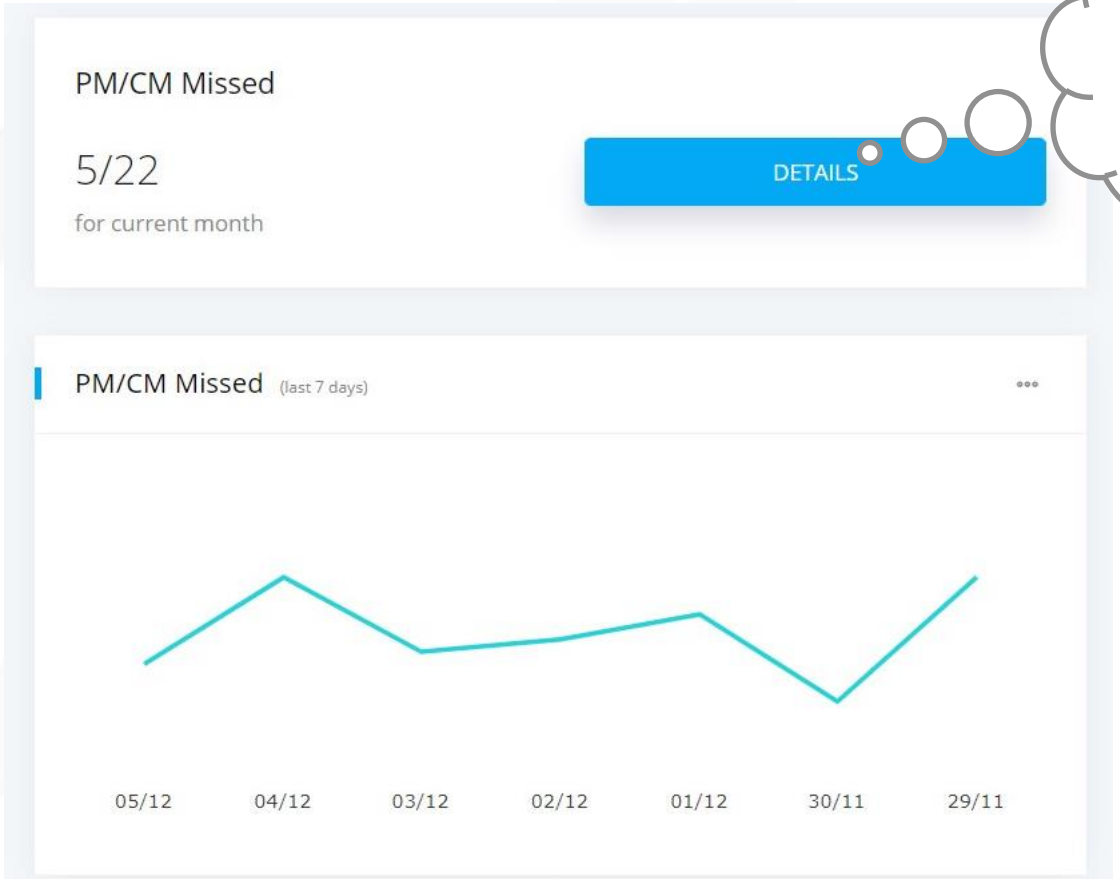
Dashboard

By moving your cursor on the chart column, will display the value as shown.

PM/CM/OP Completed (last 7 days)

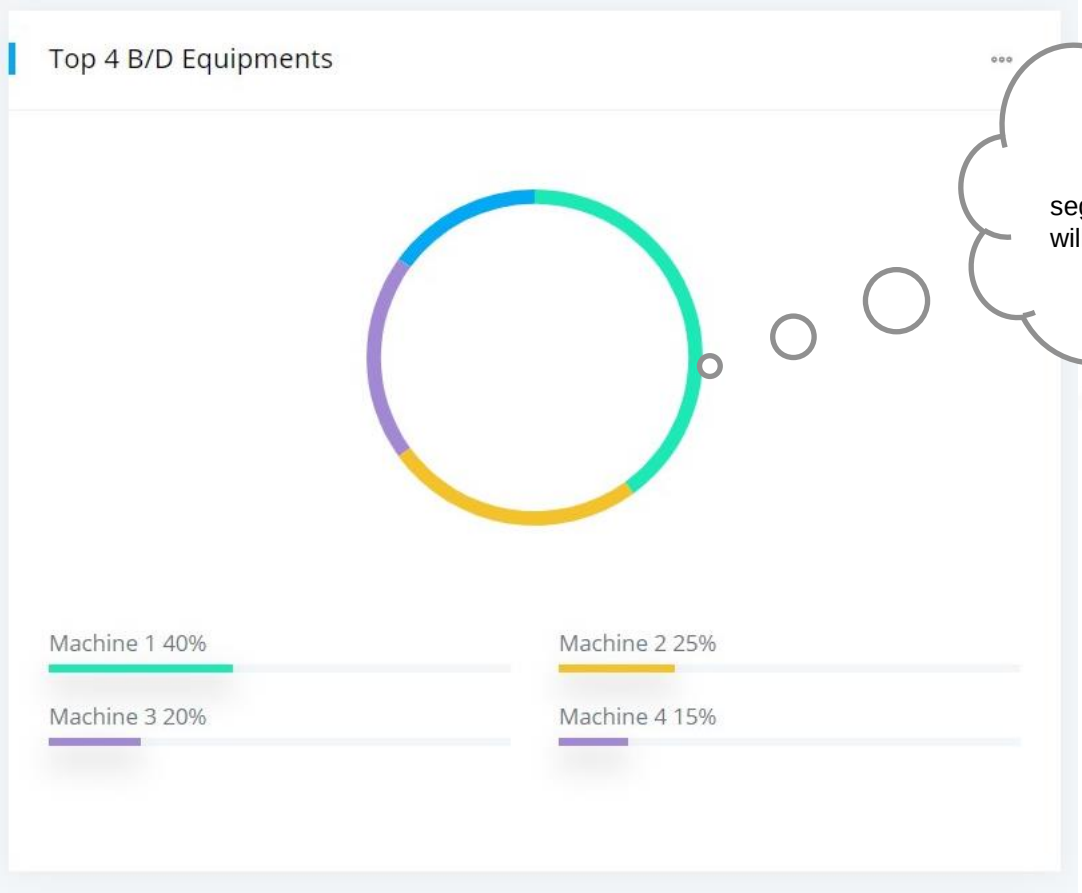


Dashboard



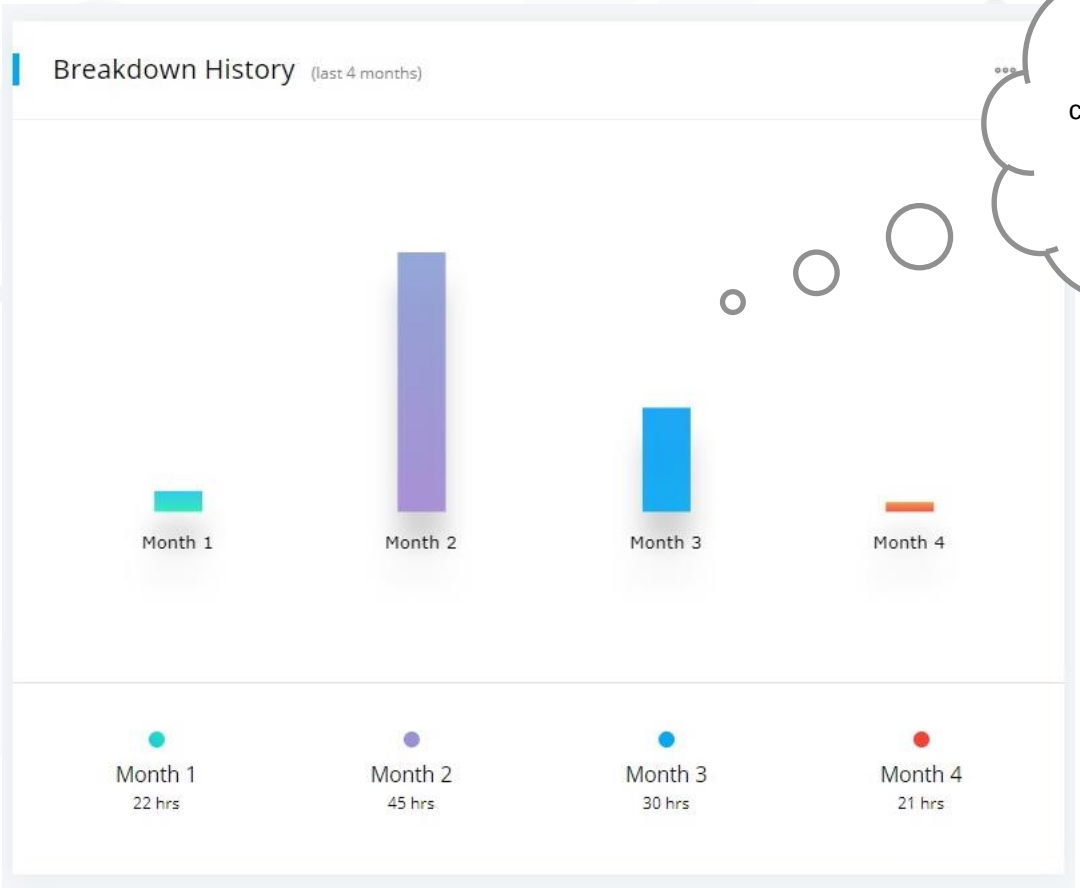
Shows current month PM and CM Missed as on date

Dashboard



By moving your cursor on any segment on the chart will display the value.

Dashboard



By moving your cursor on the chart on each bar will display the value.

Dashboard

PM/CM Success Rate
(last 6 months)
PM Success
60%
7/10
CM Success
30%
10/12

Dashboard

OP Due Vs Completed
(last 4 months)
cumulative
Curser moved to any column will the values for that column
OP Due
195
OP Completed
24
250
195
150
100
50
0
OP Due
195
OP Completed
24
Month 1
Month 2
Month 3
Month 4

DETAILED REPORTS

PM Report

Click to download excel file

Search the report for a particular Eqpt by typing here

Click to download pdf file

Click to print directly on connected Printer

Preventive Maintenance Report

Department* Elec

Plant* All

Period* 02-03-2021 30-04-2021

FIND

PM Report - (Dept: Elec)) (02-03-2021 - 30-04-2021)

Eqpt ID...

Department	Plant	Location	EqptID	Remarks	PendingWork
Elec	H2SO4 PLANT	Acid Circulation Pump 2 ACP-2	ACP-2	Done	
Elec	H2SO4 PLANT	Storage tank ST	Loading Pump	Bearing sound is coming. replaced	
Elec	COOLING TOWER	Cooling Water Pump CWP-2	CWP-2	Dome	Need reglading at motor t
Elec	H2SO4 PLANT	Sulphur pump 1 SP-1	SP-1	Done	
Elec	H2SO4 PLANT	Sulphur pump 2 SP-2	SP-2	Done	
Elec	COOLING TOWER	Cooling Tower Fan CF200	CF200	Vibration noticed . In next opportunity it is to be changed.	Bearing need replacemer

CM Report

CM Report - (Dept: Elec)) (01-03-2021 - 31-03-2021)

Eqpt ID...

Department	Plant	Location	EqptID	Remarks	PendingWork	HrsNeeded	ProdnAffectedM
Elec	H2SO4 PLANT	Sulphur pump 1 SP-1	SP-1	done			0
Elec	H2SO4 PLANT	Storage tank ST	Loading Pump	done			0
Elec	COOLING TOWER	Cooling Tower Pump CP200	CP200	done			0
Elec	COOLING TOWER	Cooling Water Pump CWP-2	CWP-2	done			0
Elec	COOLING TOWER	Cooling Tower Fan CF200	CF200	done	cable need to be re-terminated. Need to dig the ground to relase excess length	5	0
Elec	H2SO4 PLANT	Acid Circulation Pump 1 ACP-1	ACP-1	done			0

Page Size 10

Opportunity Maintenance Report

Opportunity Maintenance Report

Department* Elec | Plant* COOLING TOWE | Completed All | Period* 01-03-2021 02-04-2021

FIND RESET

OM Report

You can select no of records to display in single page

Eqpt ID...

Department	Plant	Location	EqptID	ActionToBeTaken	ActionTaker
Elec	COOLING TOWER	Cooling Tower Fan CF200	CF200	cable need to be re-terminated. Need to dig the groun lease excess length	
Elec	COOLING TOWER	Cooling Tower Fan CF200	CF200	Bearing need replacement	
Elec	COOLING TOWER	Cooling Water Pump CWP-2	CWP-2	Need reglading at motor terminal box	

Page Size 10

B/D Report

Preventive Maintenance Report

Department* Elec

Plant* All

Period* 02-03-2021 30-04-2021

FIND RESET

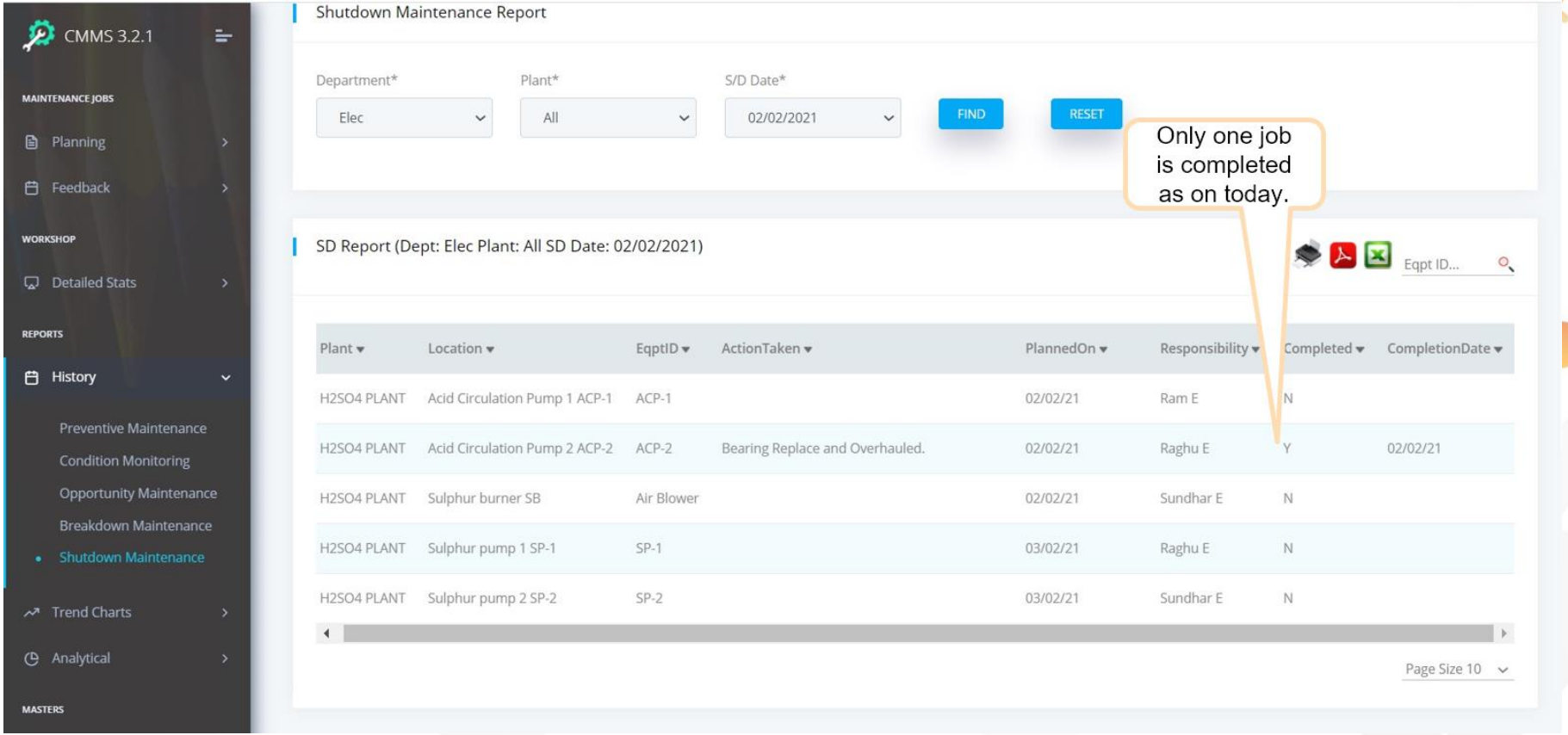
PM Report - (Dept: Elec)) (02-03-2021 - 30-04-2021)

Many more columns are there. Pl visit demo site to see them all.

Eqpt ID...

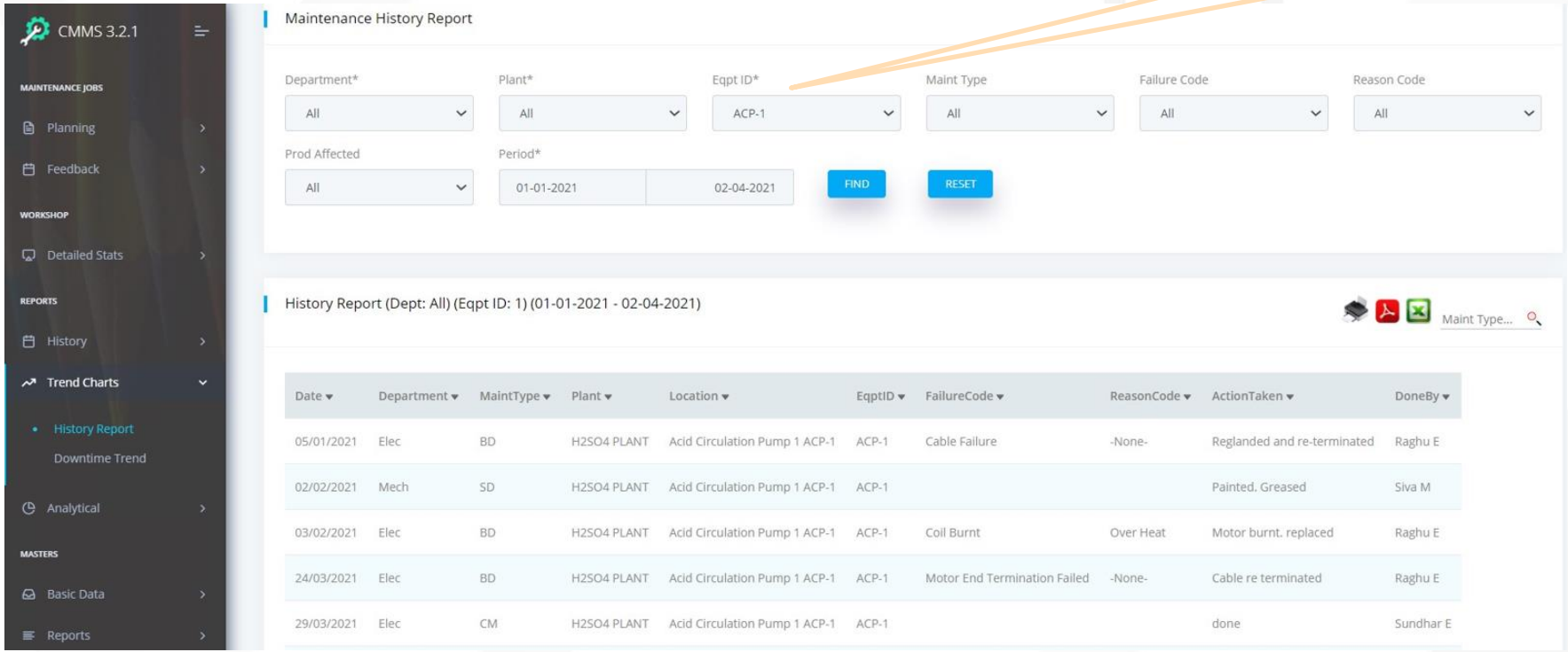
Department	Plant	Location	EqptID	Remarks	PendingWork
Elec	H2SO4 PLANT	Acid Circulation Pump 2 ACP-2	ACP-2	Done	
Elec	H2SO4 PLANT	Storage tank ST	Loading Pump	Bearing sound is coming. replaced	
Elec	COOLING TOWER	Cooling Water Pump CWP-2	CWP-2	Dome	Need reglading at motor t
Elec	H2SO4 PLANT	Sulphur pump 1 SP-1	SP-1	Done	
Elec	H2SO4 PLANT	Sulphur pump 2 SP-2	SP-2	Done	
Elec	COOLING TOWER	Cooling Tower Fan CF200	CF200	Vibration noticed . In next opportunity it is to be changed.	Bearing need replacemer

S/D Report


CMMS 3.2.1
MAINTENANCE JOBS
Planning
Feedback
WORKSHOP
Detailed Stats
REPORTS
History
Preventive Maintenance
Condition Monitoring
Opportunity Maintenance
Breakdown Maintenance
Shutdown Maintenance
Trend Charts
Analytical
MASTERS
Shutdown Maintenance Report
Department*
Elec
Plant*
All
S/D Date*
02/02/2021
FIND
RESET
Only one job is completed as on today.
SD Report (Dept: Elec Plant: All SD Date: 02/02/2021)
Eqpt ID...
Plant
Location
EqptID
ActionTaken
PlannedOn
Responsibility
Completed
CompletionDate
H2SO4 PLANT
Acid Circulation Pump 1 ACP-1
ACP-1
02/02/21
Ram E
N
H2SO4 PLANT
Acid Circulation Pump 2 ACP-2
ACP-2
Bearing Replace and Overhauled.
02/02/21
Raghu E
Y
02/02/21
H2SO4 PLANT
Sulphur burner SB
Air Blower
02/02/21
Sundhar E
N
H2SO4 PLANT
Sulphur pump 1 SP-1
SP-1
03/02/21
Raghu E
N
H2SO4 PLANT
Sulphur pump 2 SP-2
SP-2
03/02/21
Sundhar E
N
Page Size 10

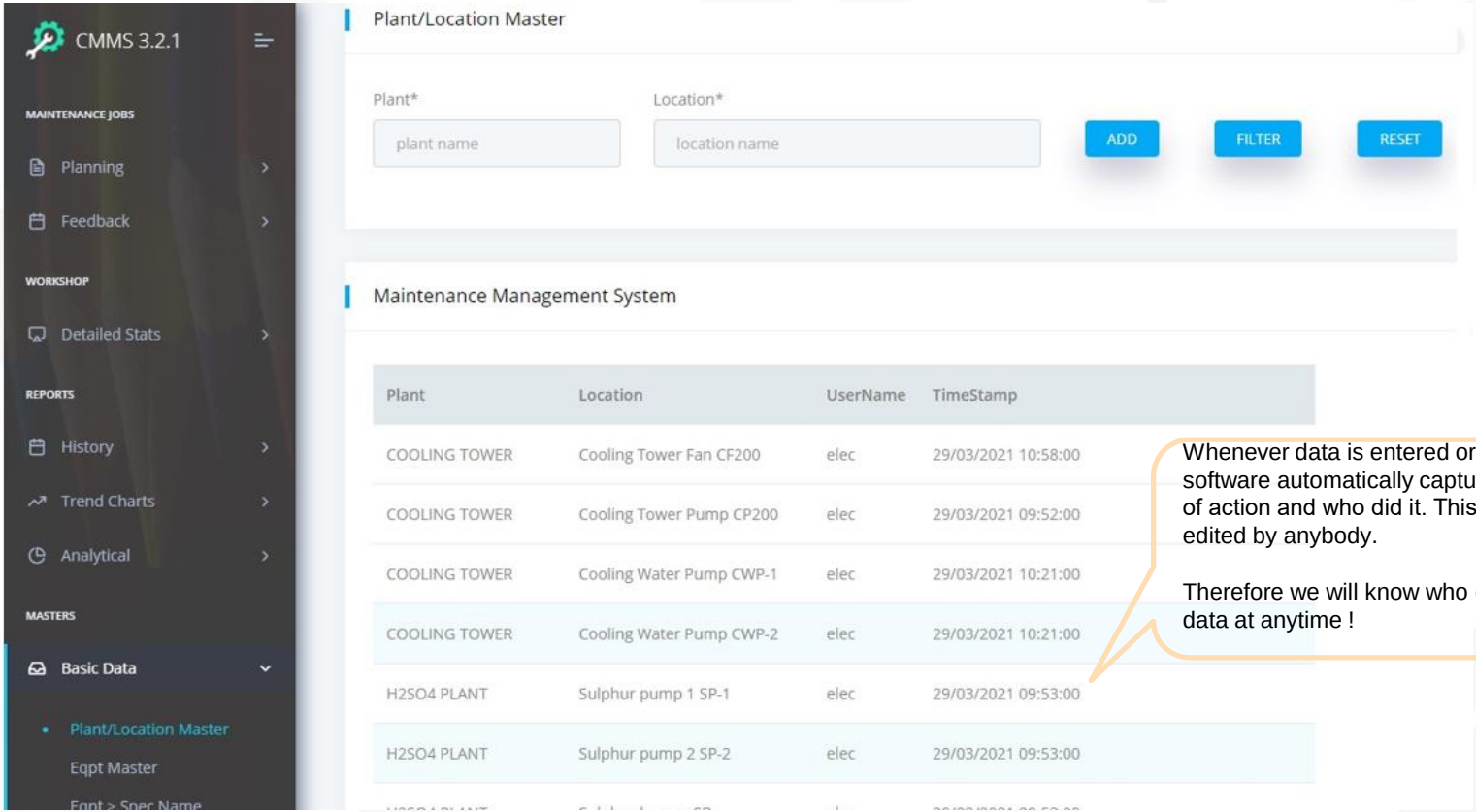
Maintenance History Report

Only one Eqpt is selected for longer period. All type of maintenance done on that Eqpt are listed out



Date	Department	MaintType	Plant	Location	EqptID	FailureCode	ReasonCode	ActionTaken	DoneBy
05/01/2021	Elec	BD	H2SO4 PLANT	Acid Circulation Pump 1 ACP-1	ACP-1	Cable Failure	-None-	Reglanded and re-terminated	Raghu E
02/02/2021	Mech	SD	H2SO4 PLANT	Acid Circulation Pump 1 ACP-1	ACP-1			Painted, Greased	Siva M
03/02/2021	Elec	BD	H2SO4 PLANT	Acid Circulation Pump 1 ACP-1	ACP-1	Coil Burnt	Over Heat	Motor burnt, replaced	Raghu E
24/03/2021	Elec	BD	H2SO4 PLANT	Acid Circulation Pump 1 ACP-1	ACP-1	Motor End Termination Failed	-None-	Cable re terminated	Raghu E
29/03/2021	Elec	CM	H2SO4 PLANT	Acid Circulation Pump 1 ACP-1	ACP-1			done	Sundhar E

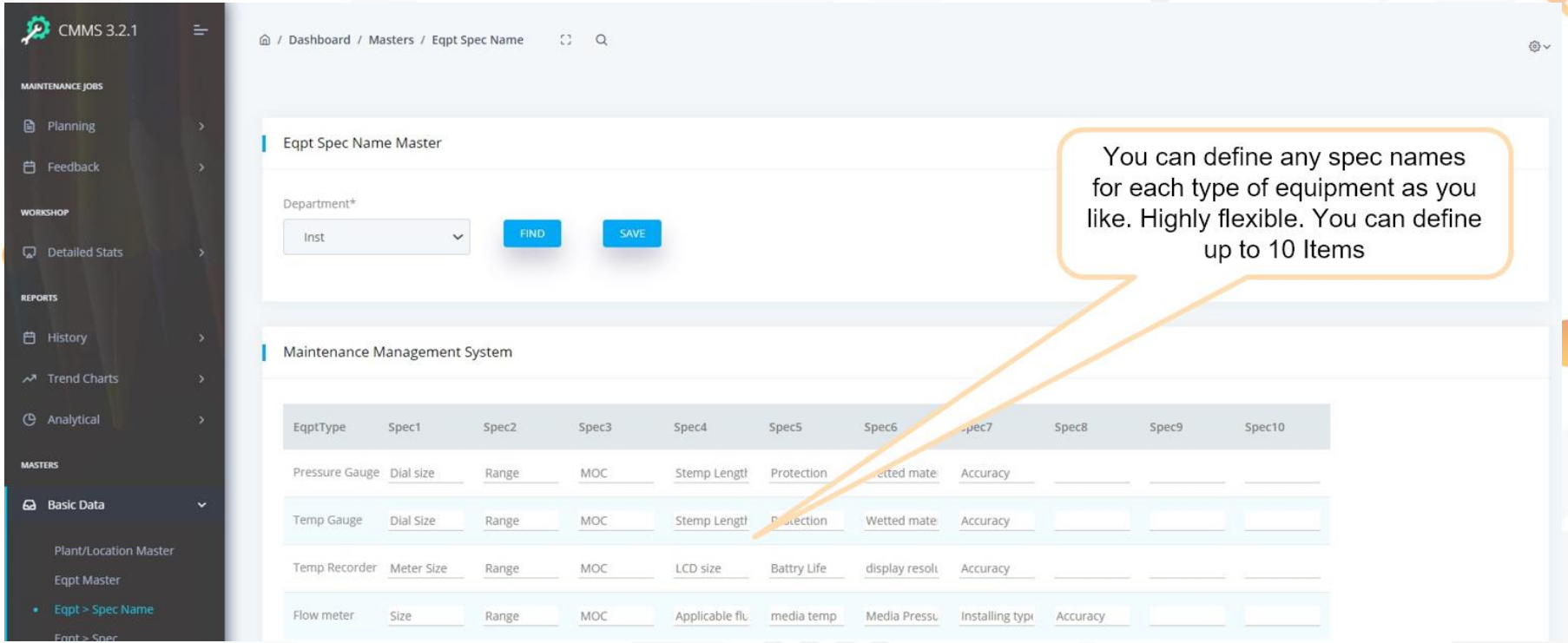
Plant/Location Master



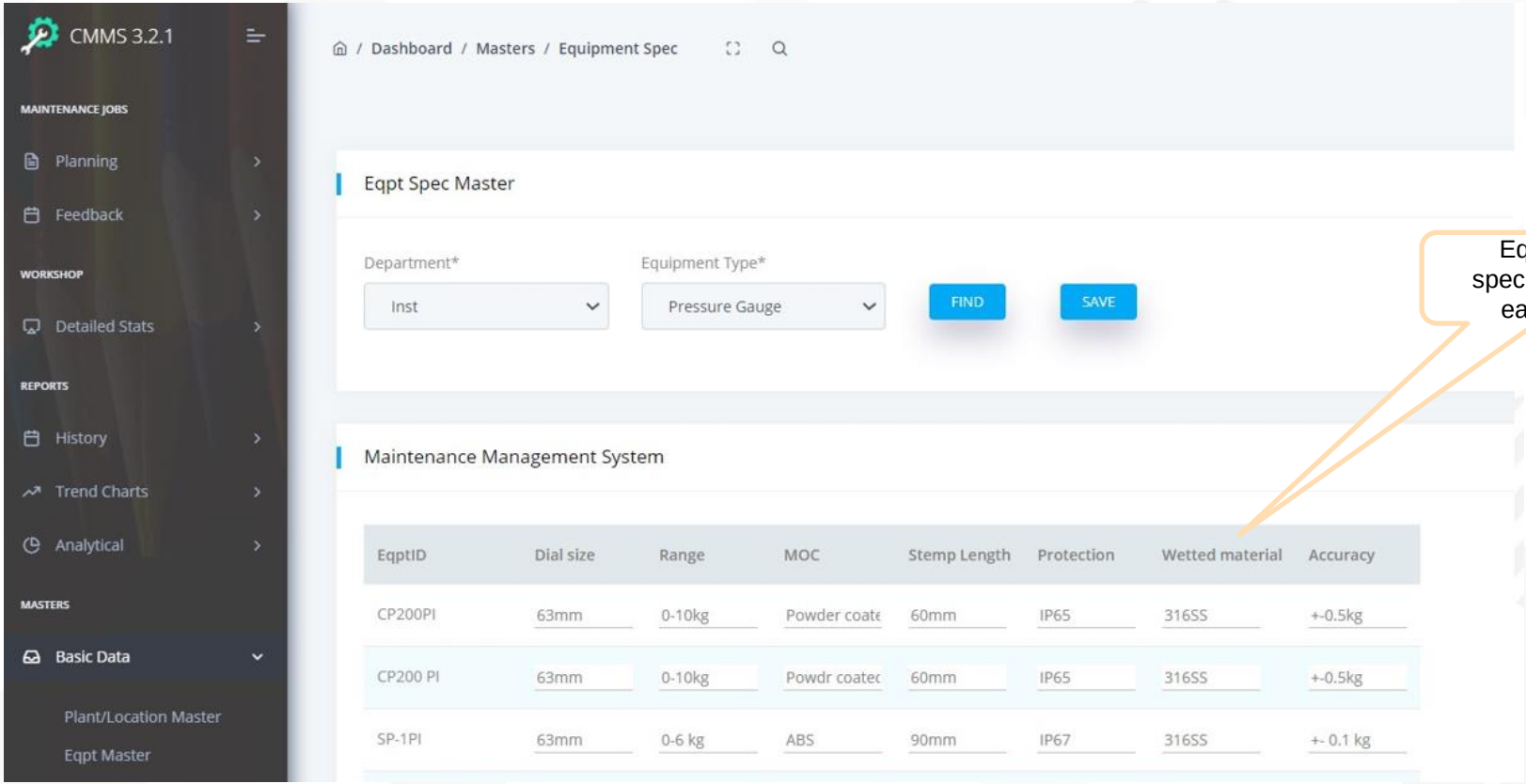
Whenever data is entered or edited the software automatically captures the time of action and who did it. This can't be edited by anybody.

Therefore we will know who entered the data at anytime !

Equipment Specification



Equipment Specification



Equipment specification for each eqpt.

Other Reports that are not shown here

- MTBF for any equipment
- MTTR for any equipment
- Top 10 Breakdown in a given period
- Top 10 equipment with high MTBF
- Top 10 equipment with high MTTR
- Top 10 Repeated Breakdowns
- Top 10 Repeated failures
- Top 10 Repeated reasons for failure

Preventive Maintenance & Condition Monitoring

- ✓ The schedules are automatically done by our software. No need for manual intervention.
- ✓ The software monitors for equipment replacement during BD / Preventive maintenance / condition monitoring / Opportunity maintenance and automatically corrects the PM and CM schedules accordingly.
- ✓ Anytime you can see the due date list.
- ✓ You can print the feedback form for these schedules generated automatically by the software and hand over to maintenance people to carry out.
- ✓ After maintenance, they will fill the details - job done, date, done by and handover to his supervisor to feed the data in the system.
- ✓ Once the entry is made in the feedback screen, our software will automatically store the next maintenance due date to prepare the new list whenever it becomes due.

Shutdown Maintenance

- ✓ You need just to enter shutdown planned date for plant/section.
- ✓ Our software automatically displays prefilled list of equipment in that plant area with additional columns to fill planning information like planned date with in the shutdown period going to taken up , who is going to do for those equipment that you want to attend.
- ✓ This list once prepared can be printed and handover to respective supervisors to plan for material procurement if needed and to carryout the maintenance accordingly.
- ✓ Whenever the job is completed feedback is given every day till the completion of shown period.
- ✓ Any one can see the live report at any time on current status of shutdown plan to ensure everything goes as per plan.

Opportunity Maintenance

- ✓ During any of the maintenance like PM, CM, BD, there may be situation like non-availability of spare, skilled people or time and some part of work will be left incomplete to be carried out later. Our system keeps track of them.
- ✓ Whenever the plant or part of plant gets stopped for any reason, the production department informs all maintenance personnel along with the stoppage duration.
- ✓ Then, Maintenance dept enters the duration of stoppage with plant name in the OP screen. Our software lists out all pending jobs in that plant that can be carried out within the mentioned stoppage duration.
- ✓ They can print it out and hand over to their team to attend **using others downtime !**

Annual Maintenance

- Jobs list is prepared and entered by maintenance department with planned Dates & responsibility, well in advance say 2 months.
- The list will be printed out and handed over to respective responsible persons.
- Spares to be ordered will be listed out for each job and ordered by responsible persons.
- During shutdown Maintenance, each maintenance department will enter date of job start and completion once happened every day basis.
- At any point of time, one can see the report on current status of shutdown if it is going on as per the plan to take action if any deviation.

SAMPLE SCREENS OF ONLINE DEMO

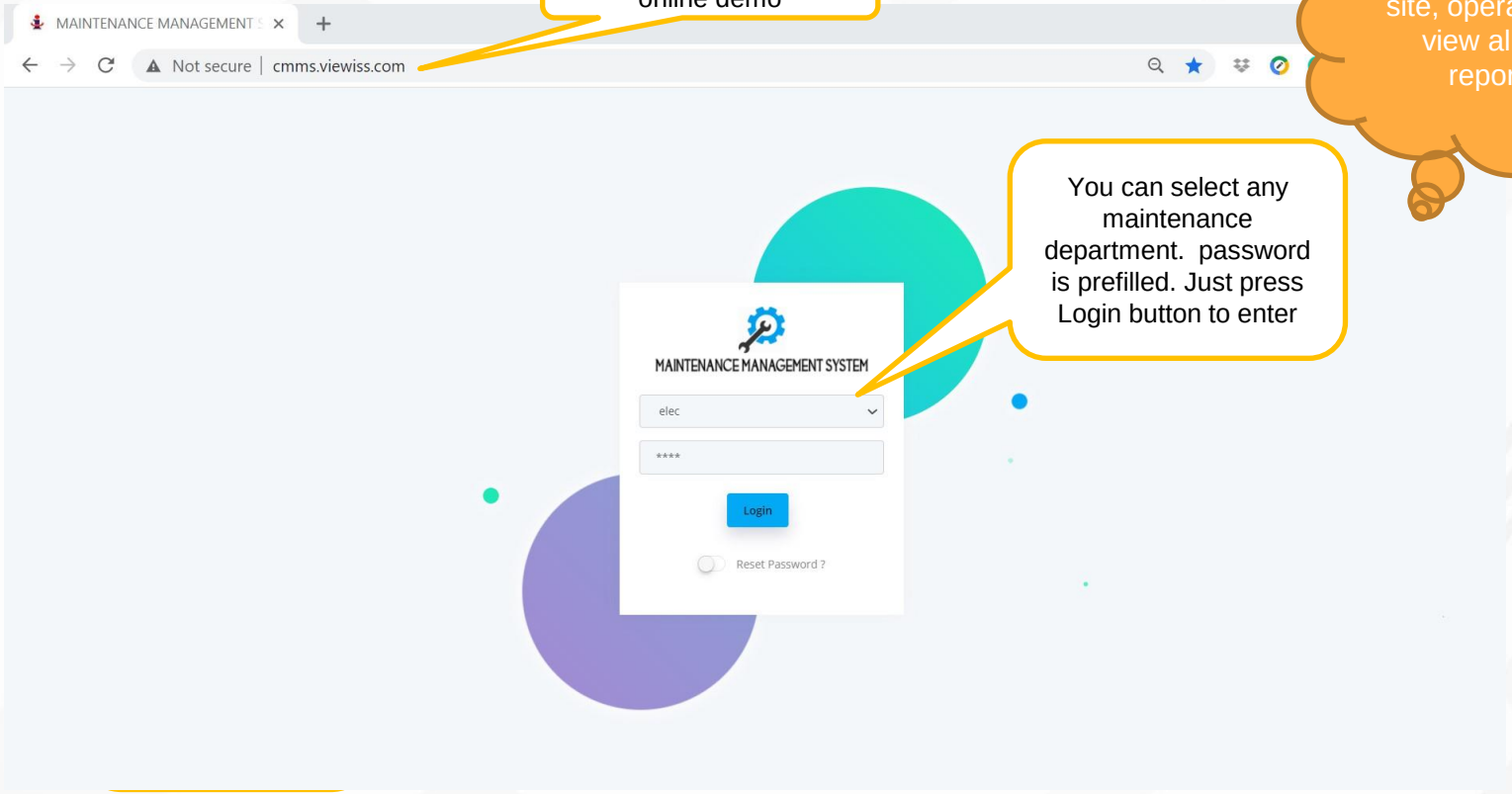
You can visit our demo site cmms.viewiss.com

You can see all reports
and even feed data to see how easy it is to use!

Demo Site - Login Page

Address to enter into our online demo

You can open this site, operate and view all the reports

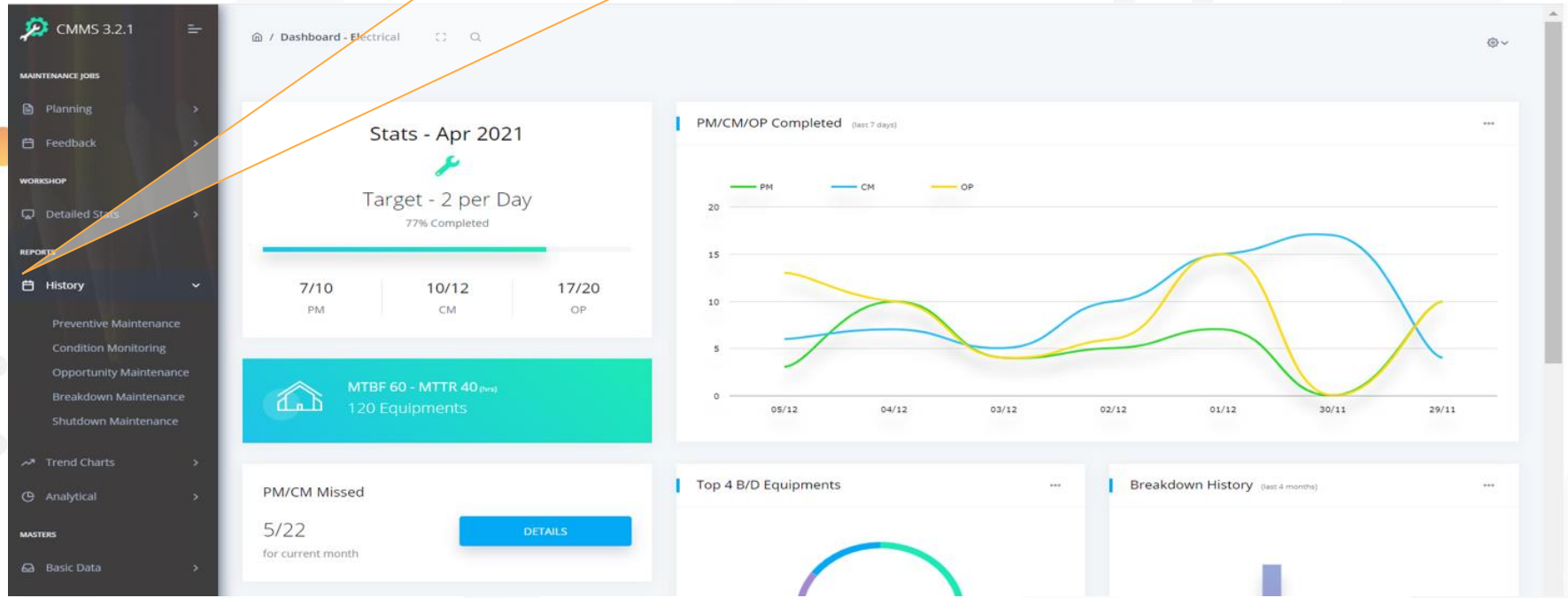


You can select any maintenance department. password is prefilled. Just press Login button to enter

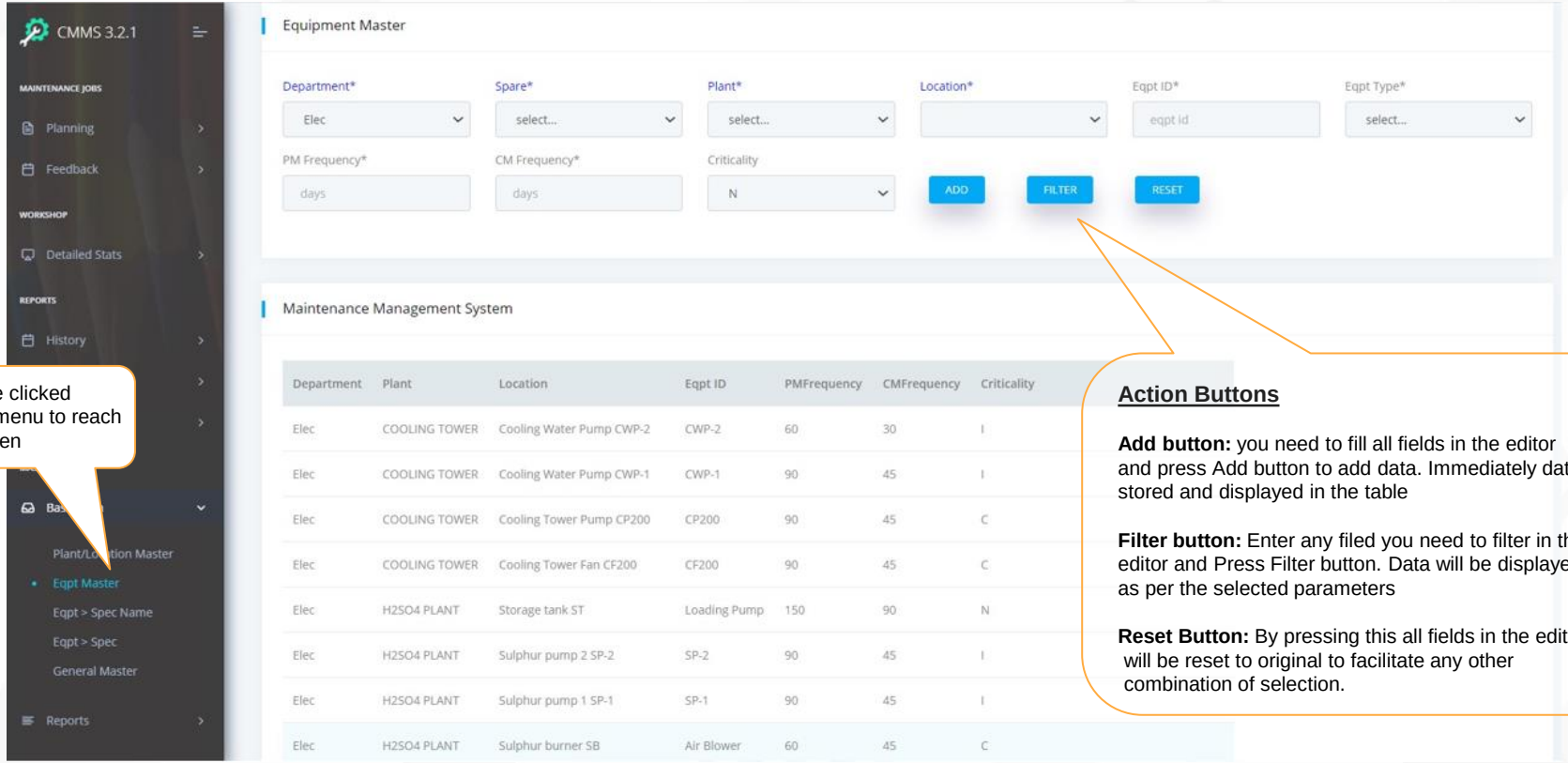
Dashboard

Main Menu

History is clicked to display sub menu.
By clicking any of the item in the sub menu, you will be taken to that screen



Sample Data Entry screen



You have clicked this sub menu to reach this screen

Action Buttons

Add button: you need to fill all fields in the editor and press Add button to add data. Immediately data is stored and displayed in the table

Filter button: Enter any filed you need to filter in the editor and Press Filter button. Data will be displayed as per the selected parameters

Reset Button: By pressing this all fields in the editor will be reset to original to facilitate any other combination of selection.

Sample Data Edit/Delete Screen

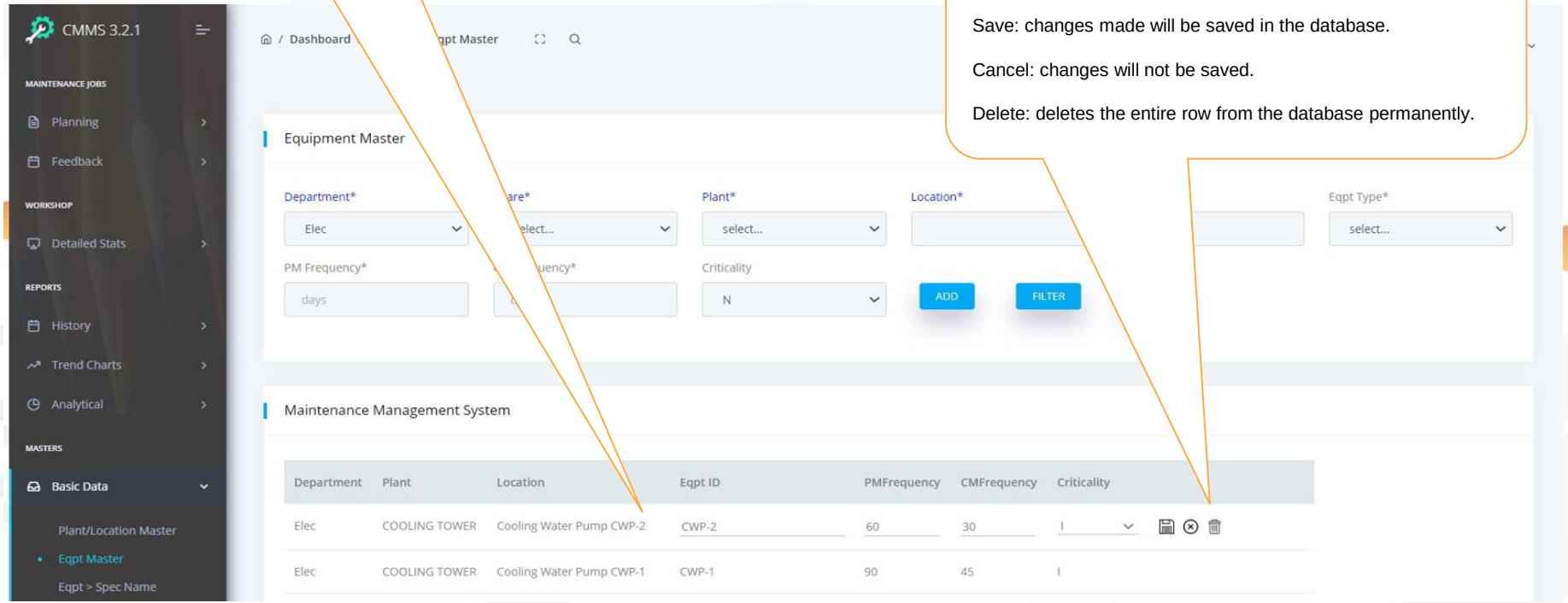
Clicking anywhere on a row makes the row editable and shows 3 icons (Save, Cancel, Delete)

By clicking any of the icons after changing data,

Save: changes made will be saved in the database.

Cancel: changes will not be saved.

Delete: deletes the entire row from the database permanently.



For more information please get in touch with us,

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- Website : www.viewiss.com