



Drilling Information Management System Training Manual

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1. Introduction:

Drilling Information Management System is a software program for keeping records of the drilling operations, retrieving the recorded information and analyzing the information. It allows record of Drill Design Pattern, Video, Fragmentation Analysis, Vibration Analysis, Accidents, Manpower and Associated Costs etc.

DRIMS is an integrated software package that brings convenient, automated management of maintenance activities to the computer desktop. The applications windows format and relational database simplify the process of maintenance management and provide improved control. You do not need programming expertise to become an expert applications user.

DRIMS bring you the advantages of the Company's many years of Mining and Quarrying industry experience in a variety of maintenance environments, including companies where ISO 9000 standards must be met. Your company can benefit significantly by implementing BIMS to manage everything from blast hole details to Cost optimization of Blasts.

DRIMS is designed to meet the Record keeping and analysis a needs of discrete mining industries such as Cement Plants, Infrastructure Development, and Coal/other minerals mines.

DRIMS is designed for any level of user. Even with the applications' high level of sophistication they are easy to learn to use for such routine tasks as data entry and maintenance reporting. You can even customize your screens so users see only the information that is important to them.

➤ **Key features of DRIMS:**

- Ability to create client specific reports or analytics
- Ability to add, view and edit a drill pattern.
- Ability to see operator performance.
- Ability to update real time drill logs to an existing pattern and differentiate between drilled vs planned holes.
- Ability to add, move, remove, rename a hole dynamically in the pattern.
- Ability to edit a hole and update the different strata and loading information at different depths.
- Ability to view a hole depth diagram with ability to add different layers of materials.
- Ability to export drill logs as .csv or .pdf files.
- Ability to visually differentiate the holes based on their drill statuses – planned, completed or in-progress holes in the designed drill pattern.

1.1 How to use this manual:

The intent of this user's guide is to provide you with an overview of the applications and each of the modules, but not to provide details on the modules' use. DRIMS contains an extensive Help system that provides detailed instructions on how to use the modules and applications. This guide is designed to function together with the on-line Help system, and

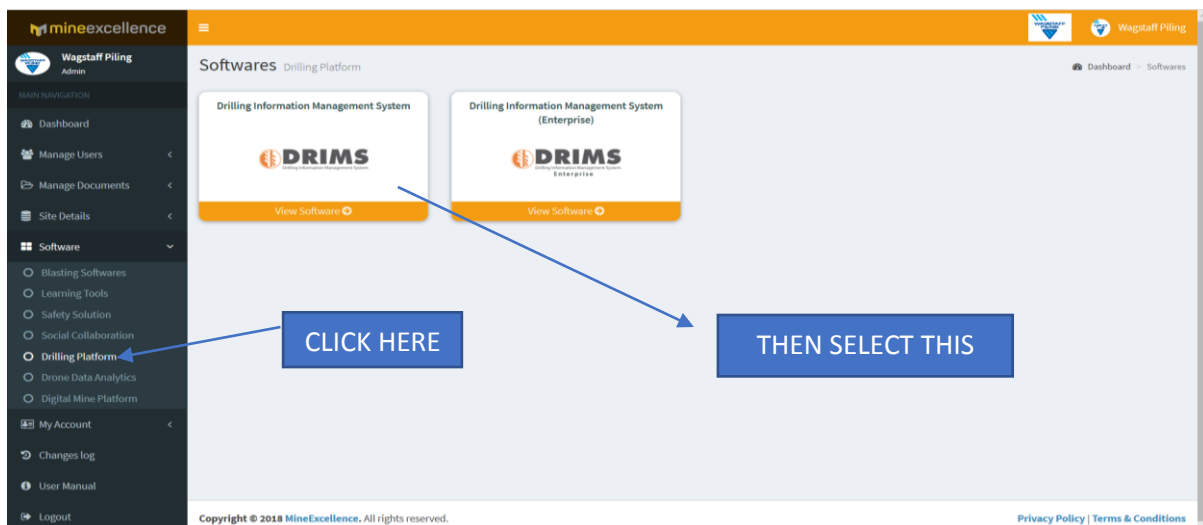
can best be used to help orient you with DRIMS.

It contains descriptions of the modules and applications, as well as general information about their use and relationships. Each chapter also contains a list of reports that you can generate from each module, and there is a chapter listing all the reports with instructions for their display, use, and distribution. For certain topics, the user's guide does provide detailed information to supplement on-line Help. In general, however, this guide provides an introduction to the applications with on-line Help providing the detail.

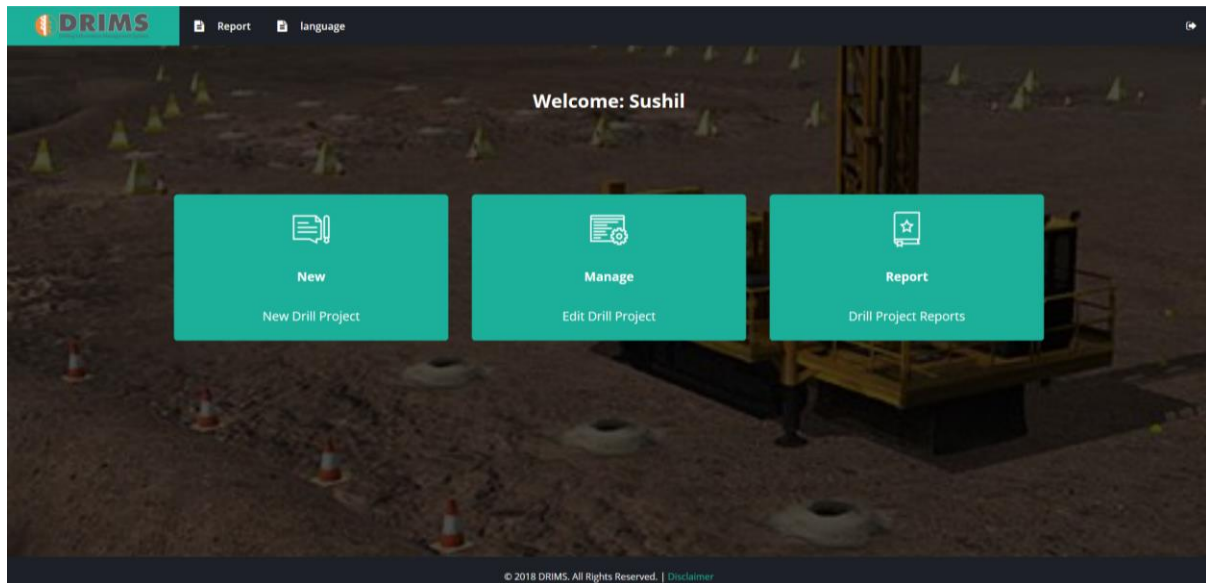
2. DRIMS as a web application

DRIMS running on Web provides great power and flexibility. DRIMS is software for storing, managing, retrieving and most importantly analyzing drill related information. Drilling operations routinely present the problem of vibrations, fly rock and correct blast design. Readily available past data in a logical format and drilling data analysis tools are the key features of DRIMS. It is easy to access, and has 24 * 7 availability.

2.1 HOW TO OPEN THE DASHBOARD



Dashboard:



New: To create a New drill project.

Manage: To Edit any drill project.

Report: To open any Drill project reports.

DRIMS menu:

The DRIMS Menu provides access to each module. This chapter gives a brief overview of each module. Later chapters of this manual describe the most commonly used modules in detail.

DRIMS main screen in which records will be made and edited. Main Screen consists of several components in which various parameters can be recorded and edited. The main screen consists of several components which help during making of all the records. All these components are explained as below.

When user lands on DRIMS Dashboard, he will be able to see following fields on DRIMS menu:



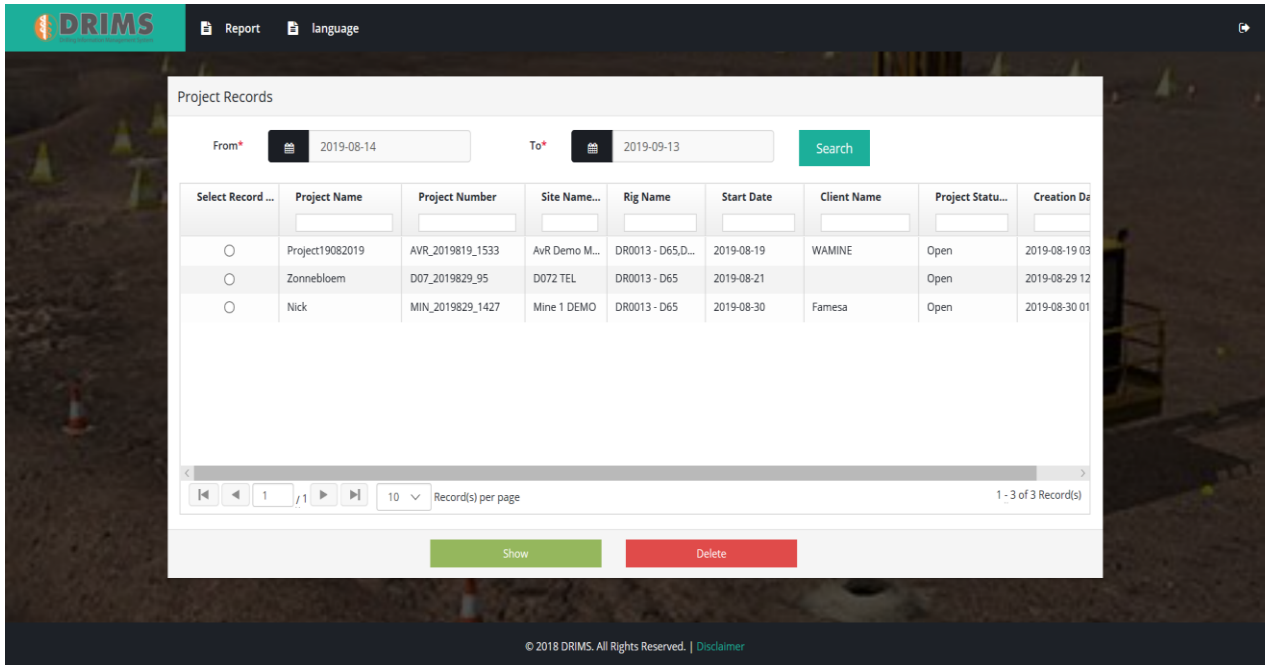
Reports: By using this module user will be able to see and generate various Reports, which we will see in detail further.

Language: User can select the language of using DRIMS in which they want to use.

Logout: User can logout by simply clicking on this button.

BLAST INFORMATION

1. EDIT BLAST



DRIMS Report language

Project Records

From* 2019-08-14 To* 2019-09-13 Search

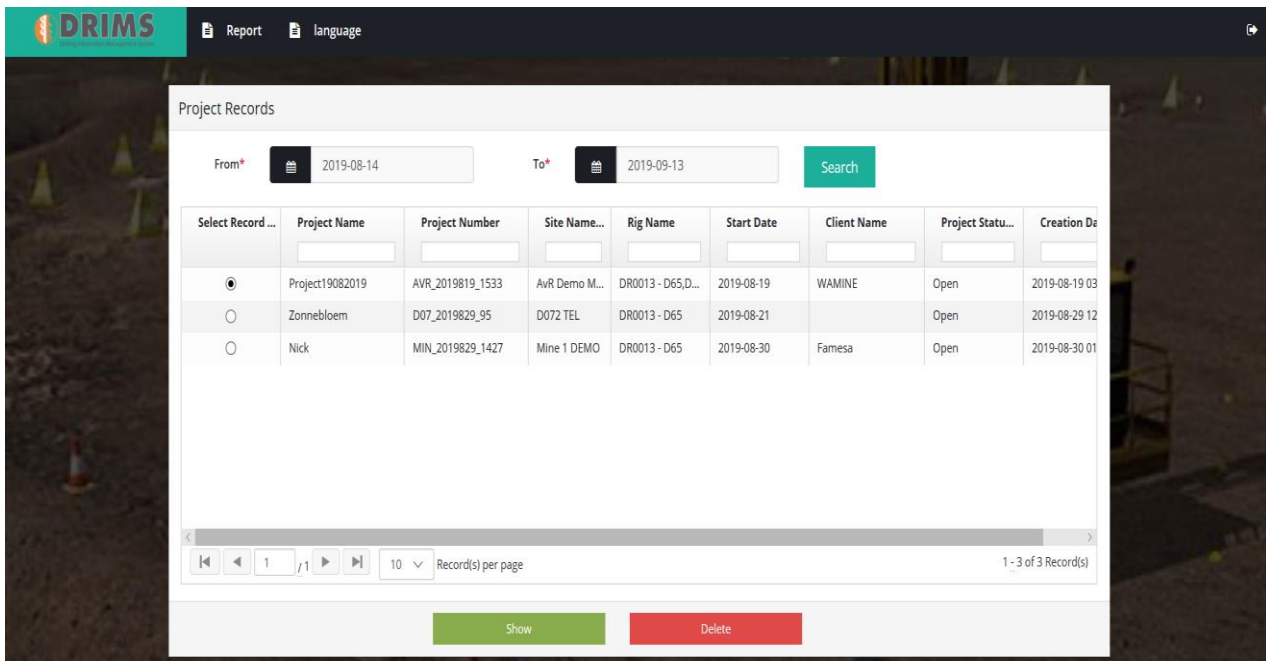
Select Record ...	Project Name	Project Number	Site Name...	Rig Name	Start Date	Client Name	Project Statu...	Creation Da
<input type="radio"/>	Project19082019	AVR_2019819_1533	AvR Demo M...	DR0013 - D65,D...	2019-08-19	WAMINE	Open	2019-08-19 03
<input type="radio"/>	Zonnebloem	D07_2019829_95	D072 TEL	DR0013 - D65	2019-08-21		Open	2019-08-29 12
<input type="radio"/>	Nick	MIN_2019829_1427	Mine 1 DEMO	DR0013 - D65	2019-08-30	Famesa	Open	2019-08-30 01

10 Record(s) per page 1 - 3 of 3 Record(s)

Show Delete

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Step: Search the file you want to edit by a specific date or by any other options like project name, rig name, site name etc.



DRIMS Report language

Project Records

From* 2019-08-14 To* 2019-09-13 Search

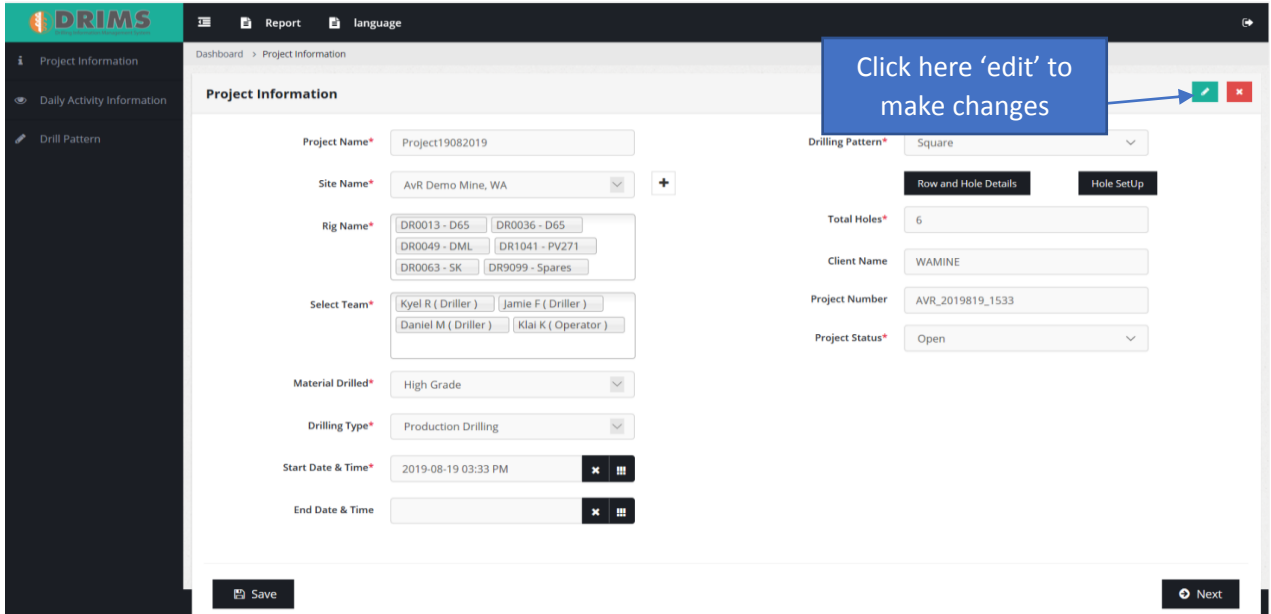
Select Record ...	Project Name	Project Number	Site Name...	Rig Name	Start Date	Client Name	Project Statu...	Creation Da
<input checked="" type="radio"/>	Project19082019	AVR_2019819_1533	AvR Demo M...	DR0013 - D65,D...	2019-08-19	WAMINE	Open	2019-08-19 03
<input type="radio"/>	Zonnebloem	D07_2019829_95	D072 TEL	DR0013 - D65	2019-08-21		Open	2019-08-29 12
<input type="radio"/>	Nick	MIN_2019829_1427	Mine 1 DEMO	DR0013 - D65	2019-08-30	Famesa	Open	2019-08-30 01

10 Record(s) per page 1 - 3 of 3 Record(s)

Show Delete

Step: click on show button.

Project information:



DRIMS

Report language

Dashboard > Project Information

Project Information

Project Name* Project19082019

Site Name* AvR Demo Mine, WA

Rig Name* DR0013 - D65 DR0036 - D65
DR0049 - DML DR1041 - PV271
DR0063 - 5K DR9099 - Spares

Select Team* Kyel R (Driller) Jamie F (Driller)
Daniel M (Driller) Klai K (Operator)

Material Drilled* High Grade

Drilling Type* Production Drilling

Start Date & Time* 2019-08-19 03:33 PM

End Date & Time

Drilling Pattern* Square

Row and Hole Details Hole SetUp

Total Holes* 6

Client Name WAMINE

Project Number AVR_2019819_1533

Project Status* Open

Save Next

Click here 'edit' to make changes

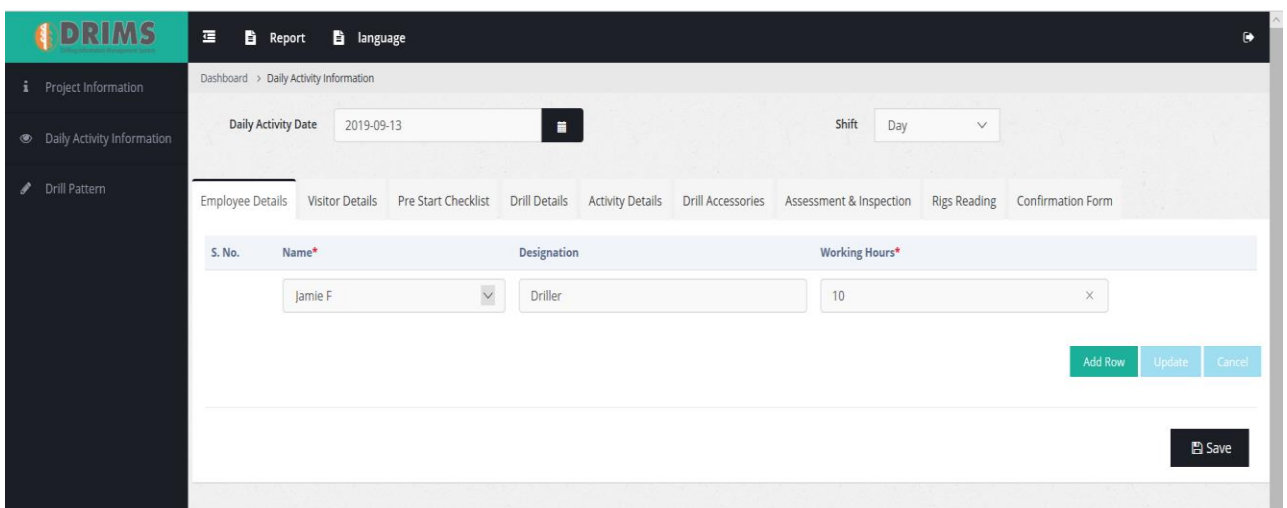
Step: Click on edit button

**You can only add something to it but cannot delete any has already been filled.

Step: Click on save

Daily activity information:

To update our daily information we can select this module, that avails various options of daily updation.



DRIMS

Report language

Dashboard > Daily Activity Information

Daily Activity Date 2019-09-13

Shift Day

Employee Details Visitor Details Pre Start Checklist Drill Details Activity Details Drill Accessories Assessment & Inspection Rigs Reading Confirmation Form

S. No.	Name*	Designation	Working Hours*
	Jamie F	Driller	10

Add Row Update Cancel

Save

ADD: To add the information of any new employee.

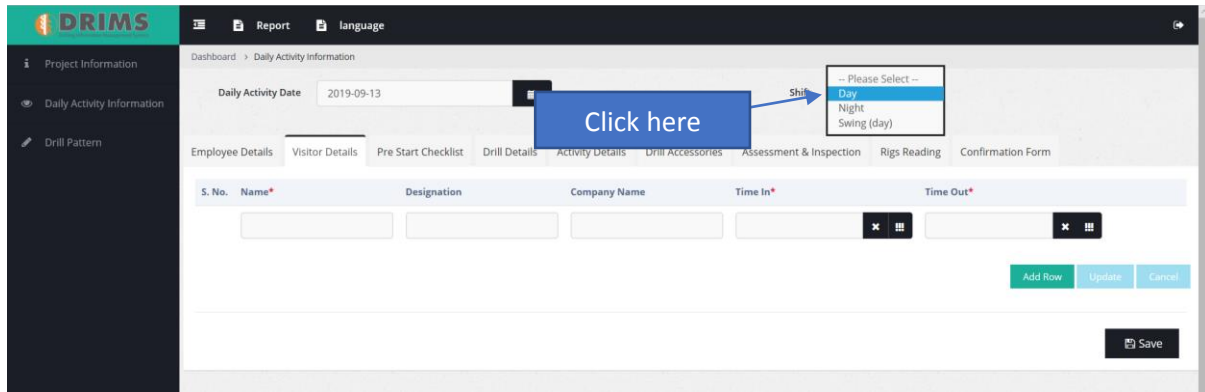
UPDATE: In case you want to update the information of any old employee.

DELETE: used to delete information related to an employee.

VISITORS DETAILS

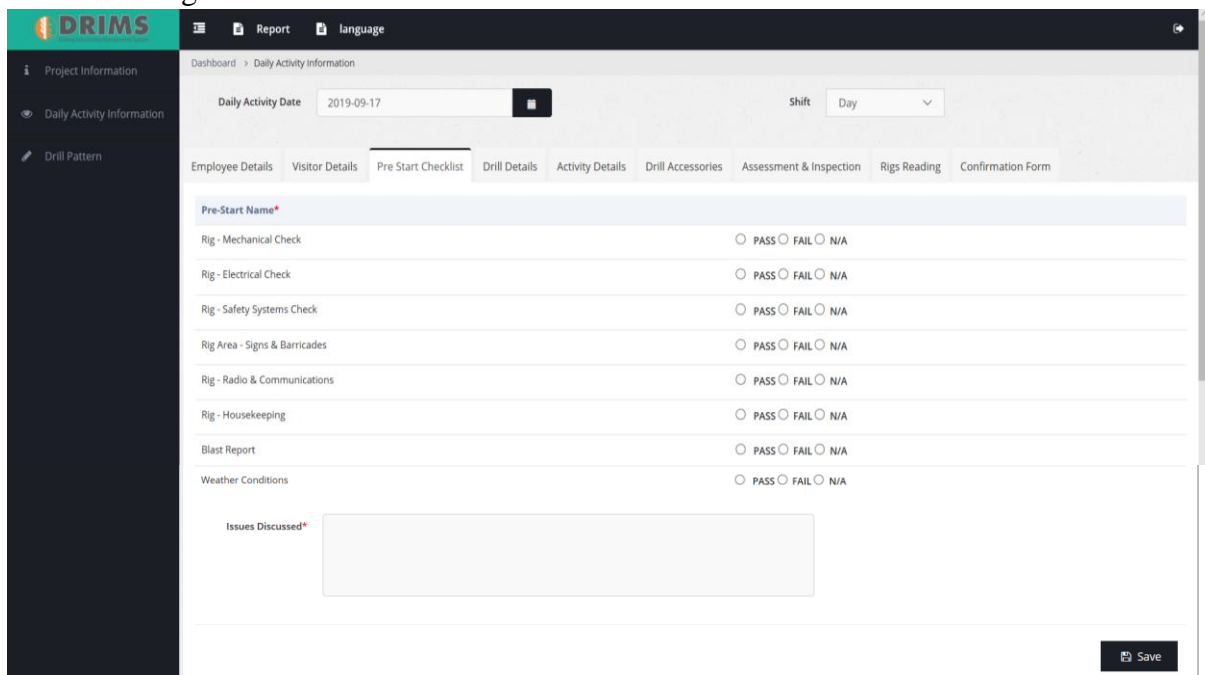
To keep up the records of the visitors we can use this module along with their check-in and check-out timings.

To make any changes in the visitors' details click on update button then edit the respective information.



- To make our update more specific we can select the corresponding shift to update.

PRESTART CHECKLIST: A pre-start checklist will be visible according to the steps of job to start drilling.

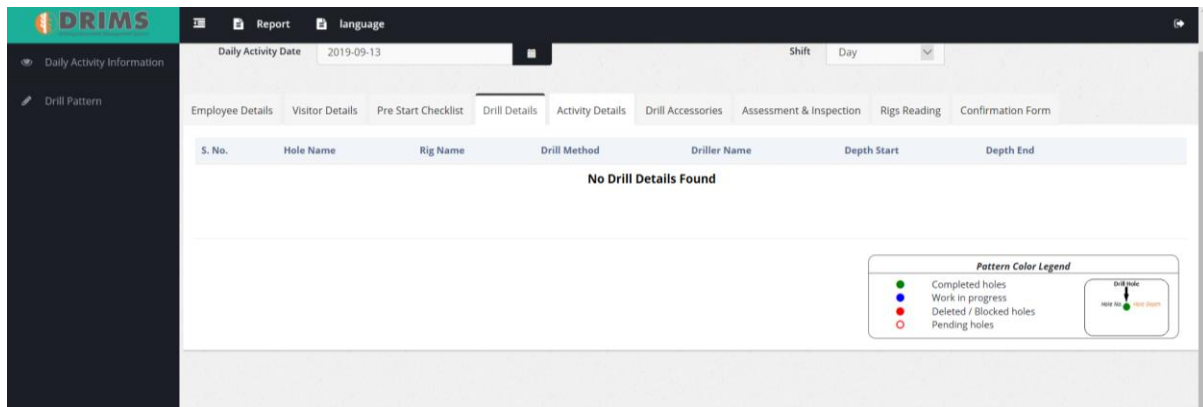


After filling the pre start checklist we can specify the issue in the issue discussed box.

Step: Click on 'save' button.

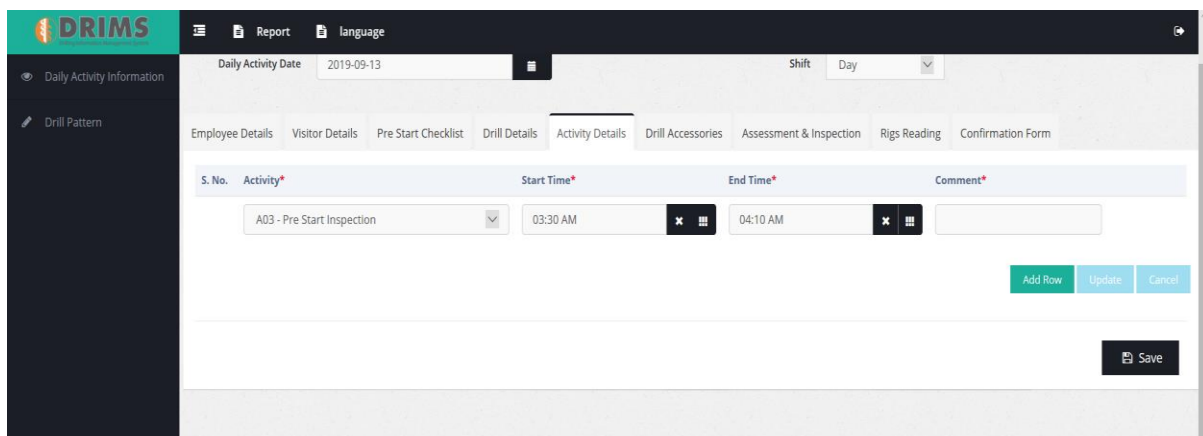
DRILL DETAILS:

All the drill details will be available here via drill log.



ACTIVITY DETAILS:

Here the supervisor can update all the activities along with time duration that was performed during that shift also specify the ambiguous task in the comment box.



Add row: click here to add a new entry of a specific task.

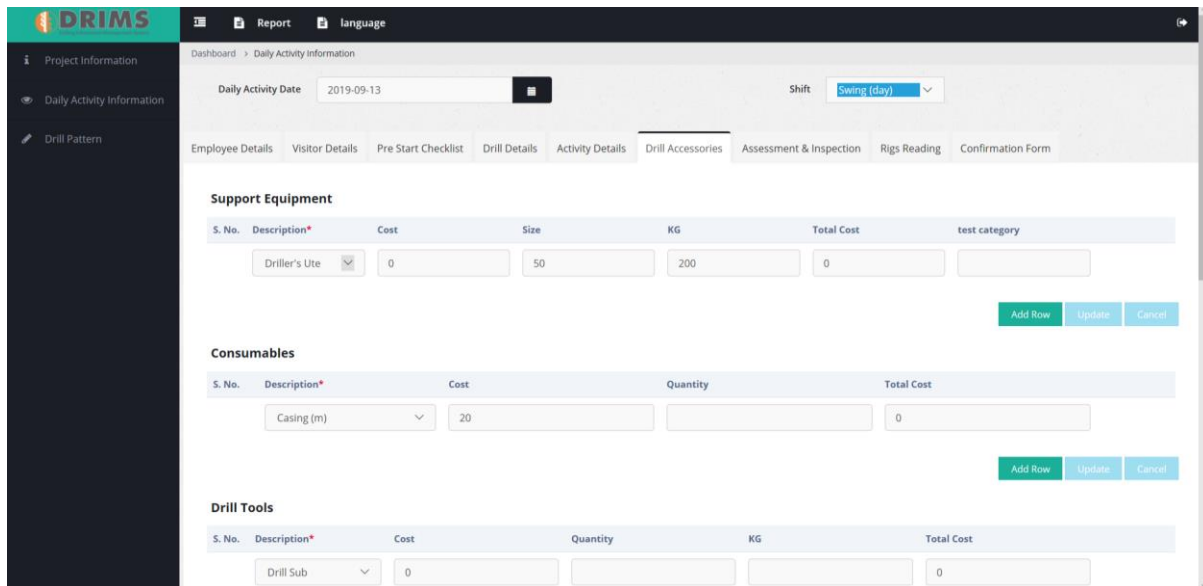
Update: use this button if you want to make changes to any pre-fedded entry.

Cancel: click here to cancel a particular entry.

Save: click on save button to save the input information.

DRILL ACCESSORIES:

In this you can keep up the record of all the accessories in the specified category that were used in that particular shift.



The screenshot displays the DRIMS web application interface. The top navigation bar includes 'DRIMS', 'Report', and 'language'. The main content area is titled 'Daily Activity Information' and shows a date of '2019-09-13' and a shift of 'Swing (day)'. The 'Drill Accessories' section is active, showing three tables: 'Support Equipment', 'Consumables', and 'Drill Tools'. Each table has columns for S. No., Description, Cost, Size, Quantity, KG, and Total Cost. There are 'Add Row', 'Update', and 'Cancel' buttons for each section.

Add row: click here to add a new entry of a specific accessory.

Update: use this button if you want to make changes to any pre-fedded information.

Cancel: click here to cancel a particular entry.

Save: click on save button to save the input information.

ASSESSMENT AND INSPECTION:

DRIMS | Report | language

Dashboard > Daily Activity Information

Daily Activity Date: 2019-09-13 | Shift: Swing (day)

Employee Details | Visitor Details | Pre Start Checklist | Drill Details | Activity Details | Drill Accessories | Assessment & Inspection | Rigs Reading | Confirmation Form

Hazard Assessment

S. No.	Hazard Assessment*	Risk*	Significant*	Eliminate Isolate Minimise*	What Controls to Reduce Risk ?*	Actioned By*
	roof fall	High	Yes			

Add Row | Update | Cancel

Rig Inspection

Rig Name:

S. No.	Rig Inspection*	Result*
	Engine Management System	FAIL

Add Row | Update | Cancel

DRIMS | Report | language

Dashboard > Daily Activity Information

Daily Activity Date: 2019-09-13 | Shift: Swing (day)

Employee Details | Visitor Details | Pre Start Checklist | Drill Details | Activity Details | Drill Accessories | Assessment & Inspection | Rigs Reading | Confirmation Form

Hazard Assessment

S. No.	Hazard Assessment*	Risk*	Significant*	Eliminate Isolate Minimise*	What Controls to Reduce Risk ?*	Actioned By*
	roof fall	High	Yes			

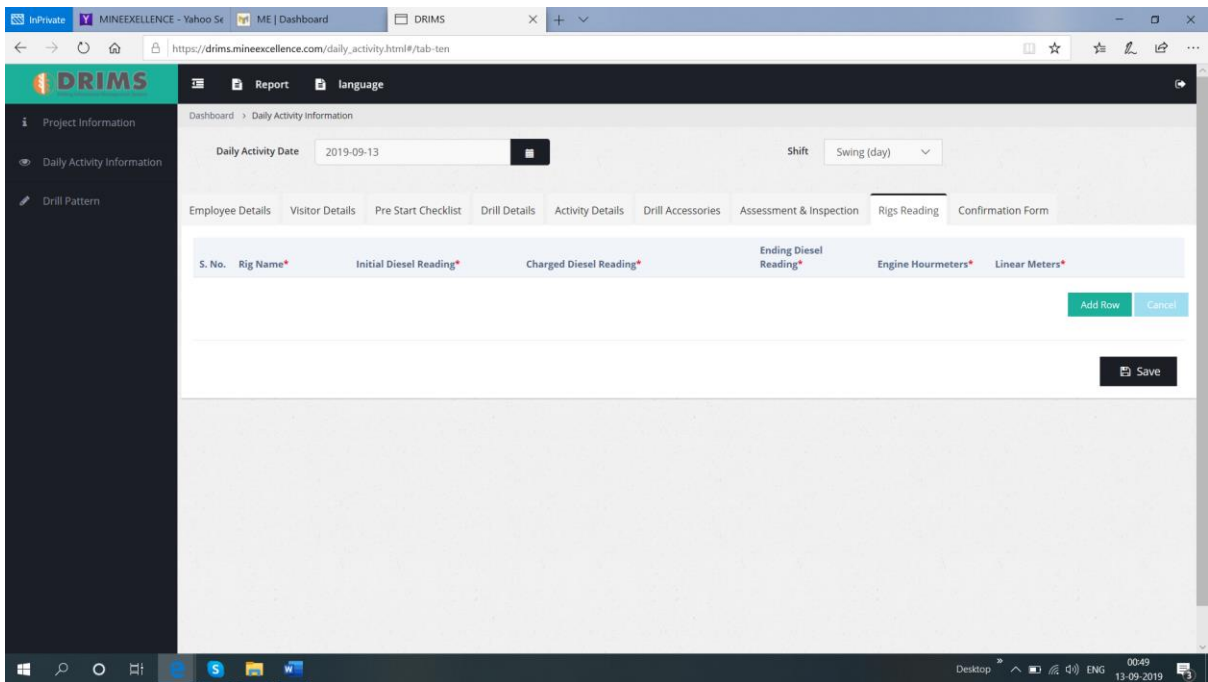
Add Row | Update | Cancel

Rig Inspection

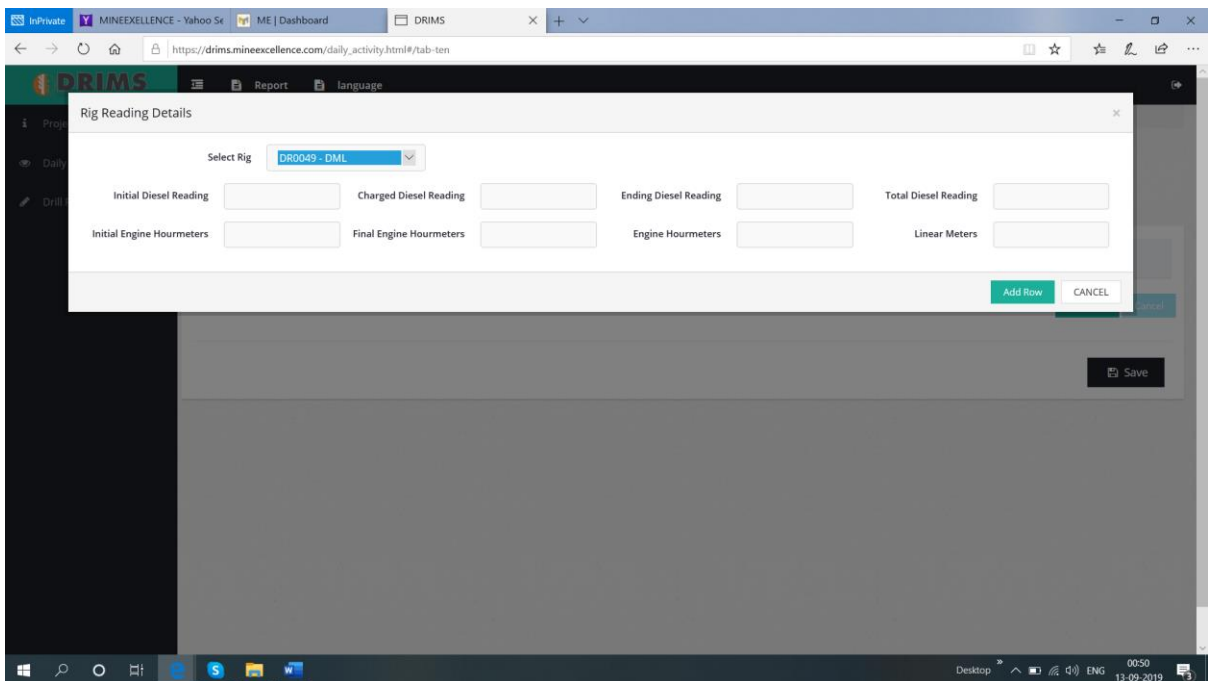
Rig Name: DR0013 - D6S

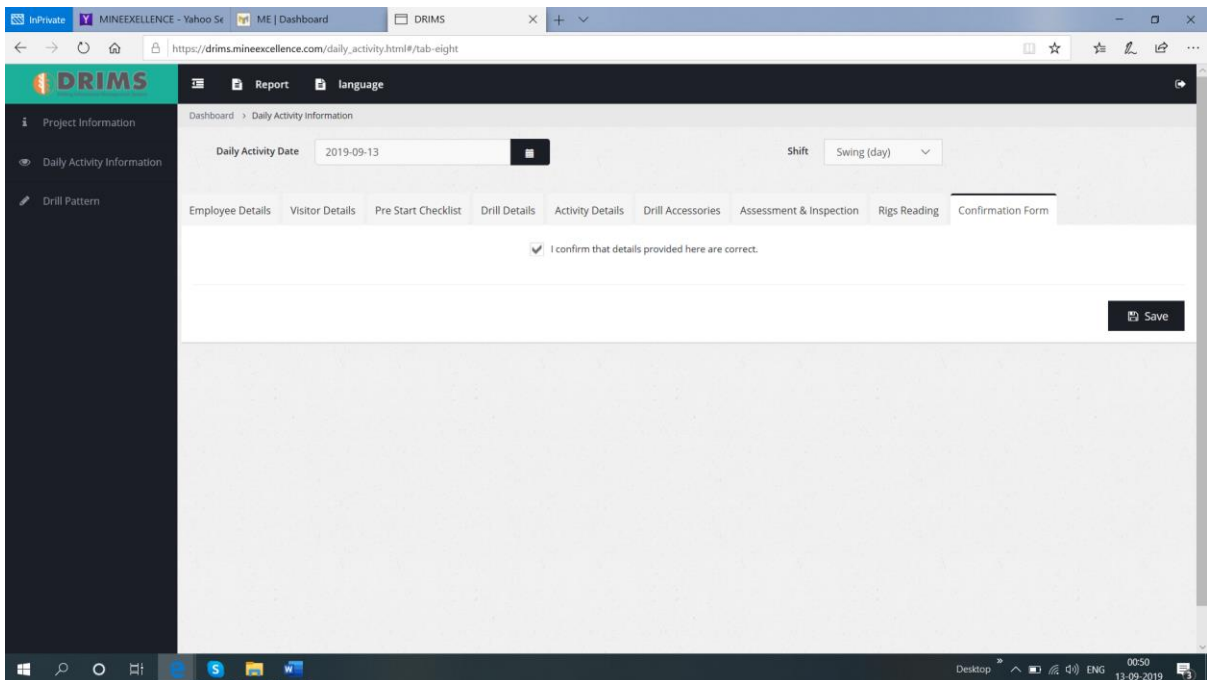
S. No.	Rig Inspection*	Result*
	Engine Management System	FAIL

Add Row | Update | Cancel

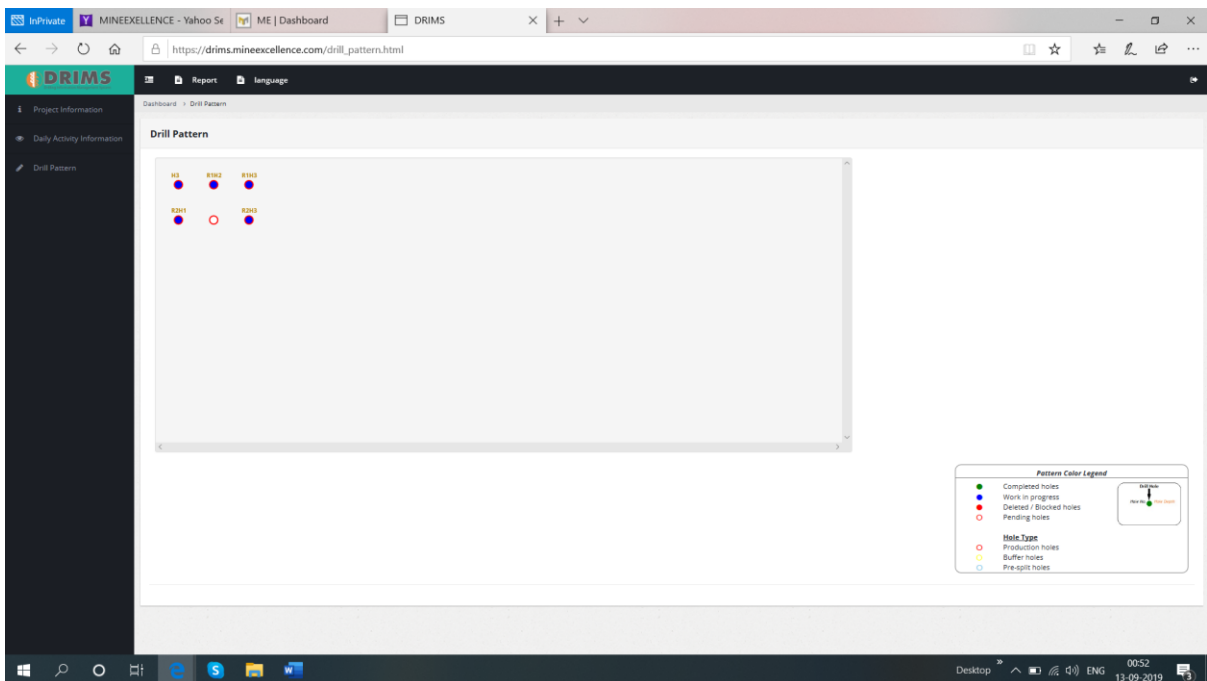


Now click on add row:





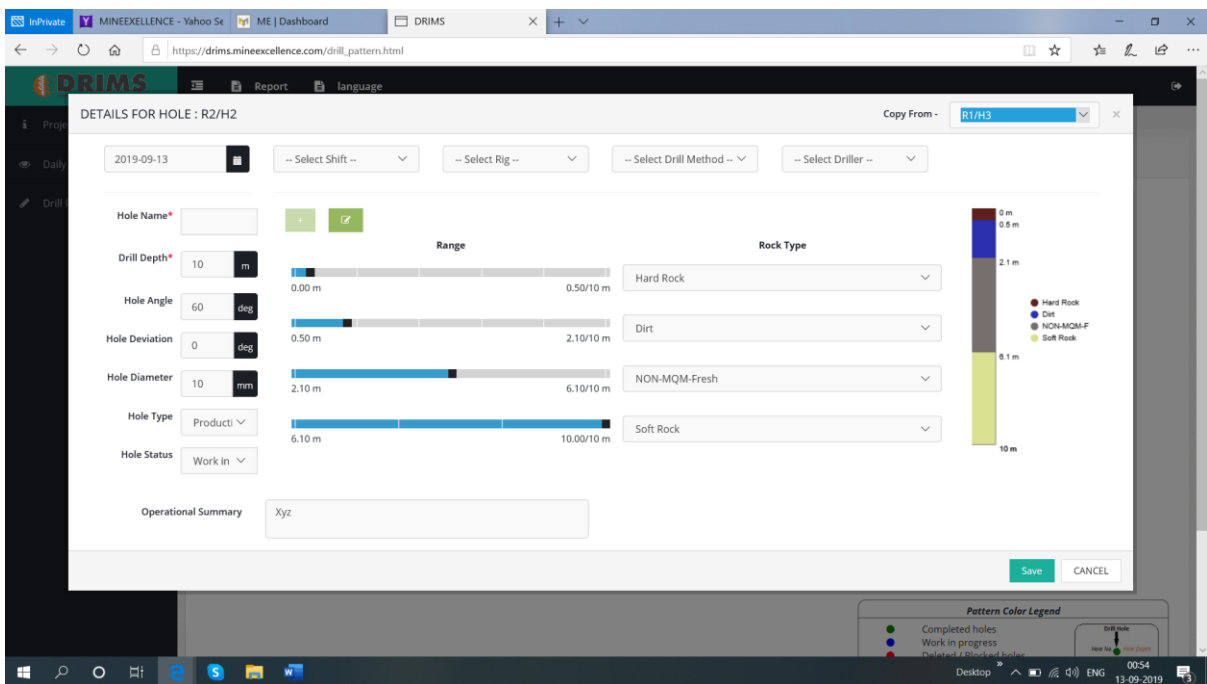
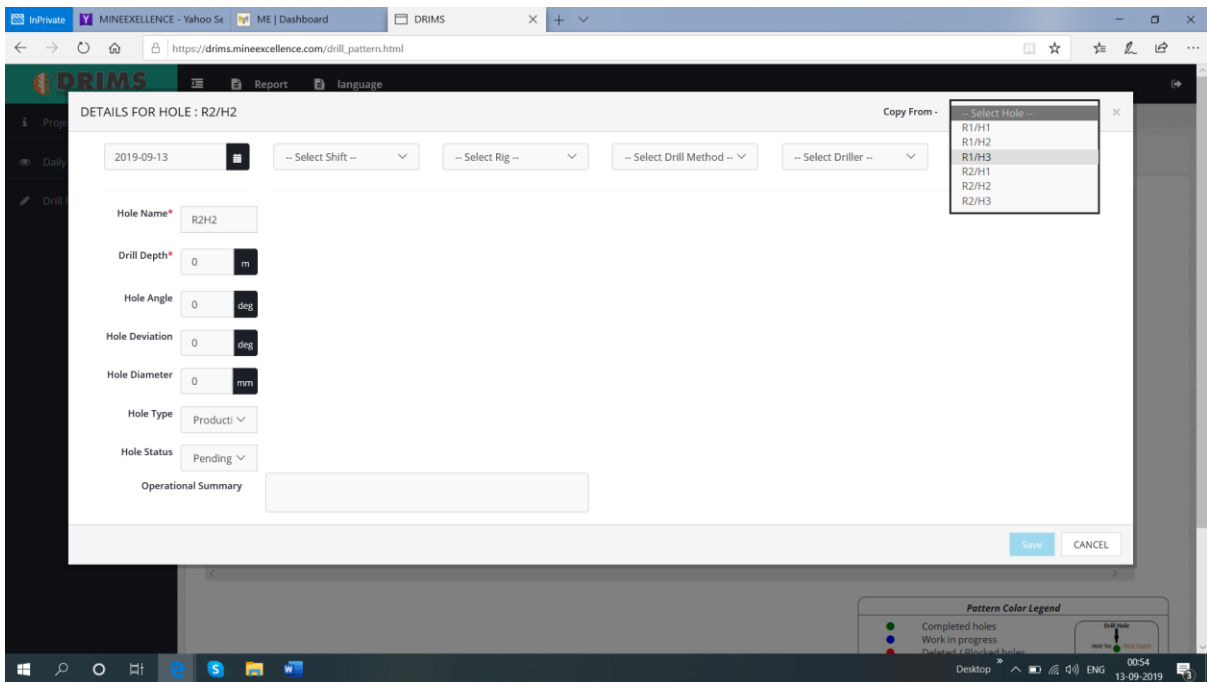
Click on the selection box.



Click on the desired holes for filling the information.

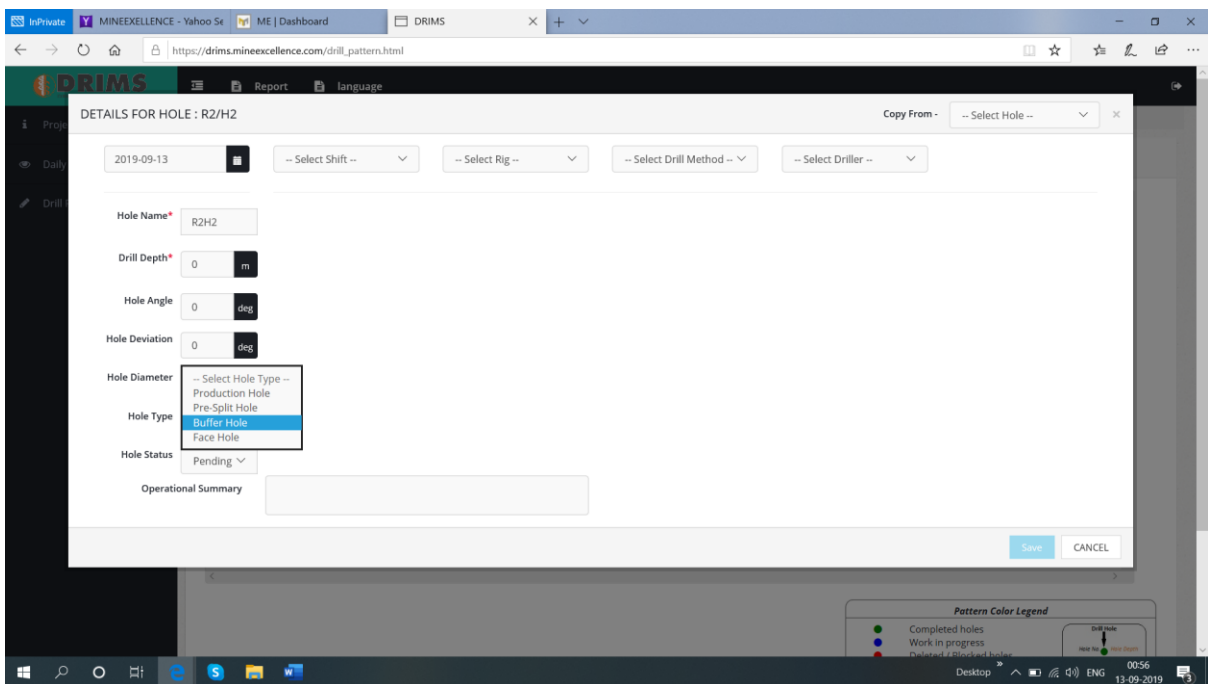
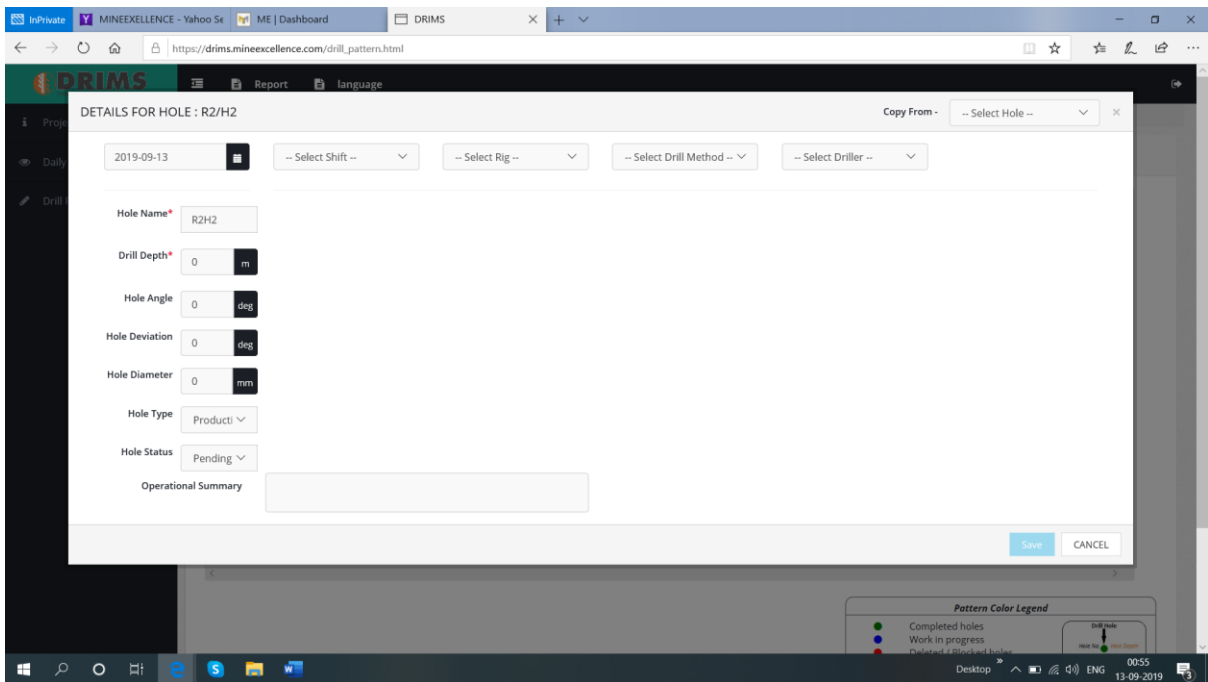
E.g. For pending holes

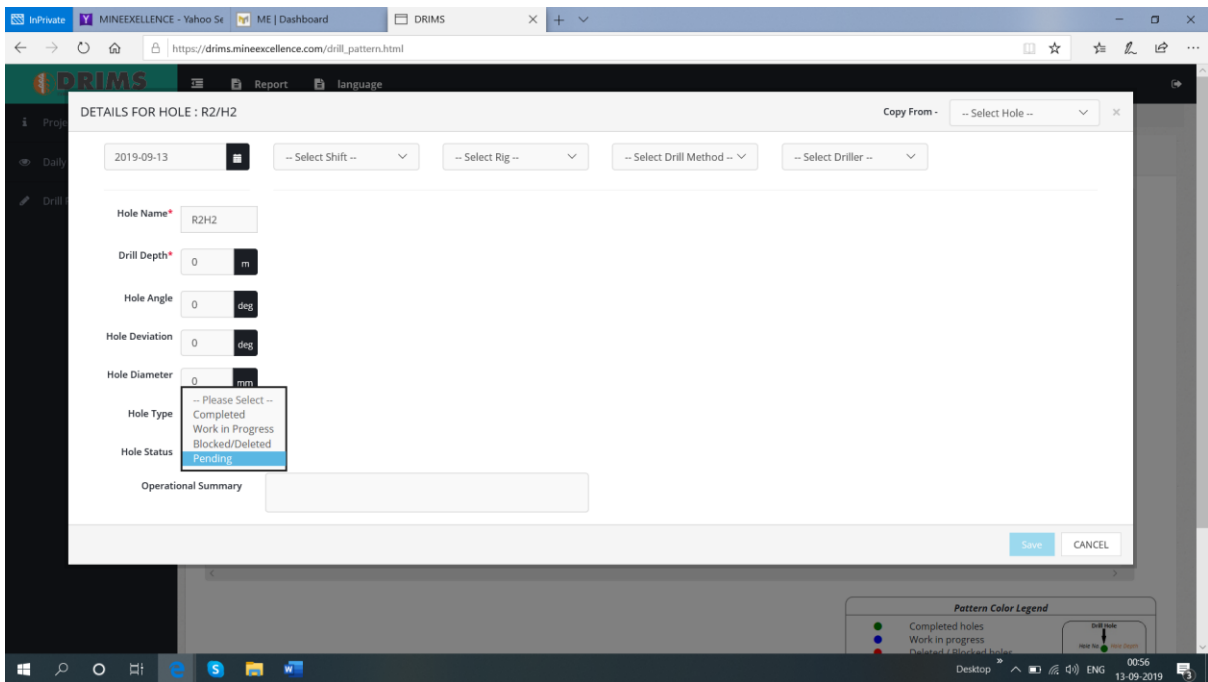
Either I can copy from another hole



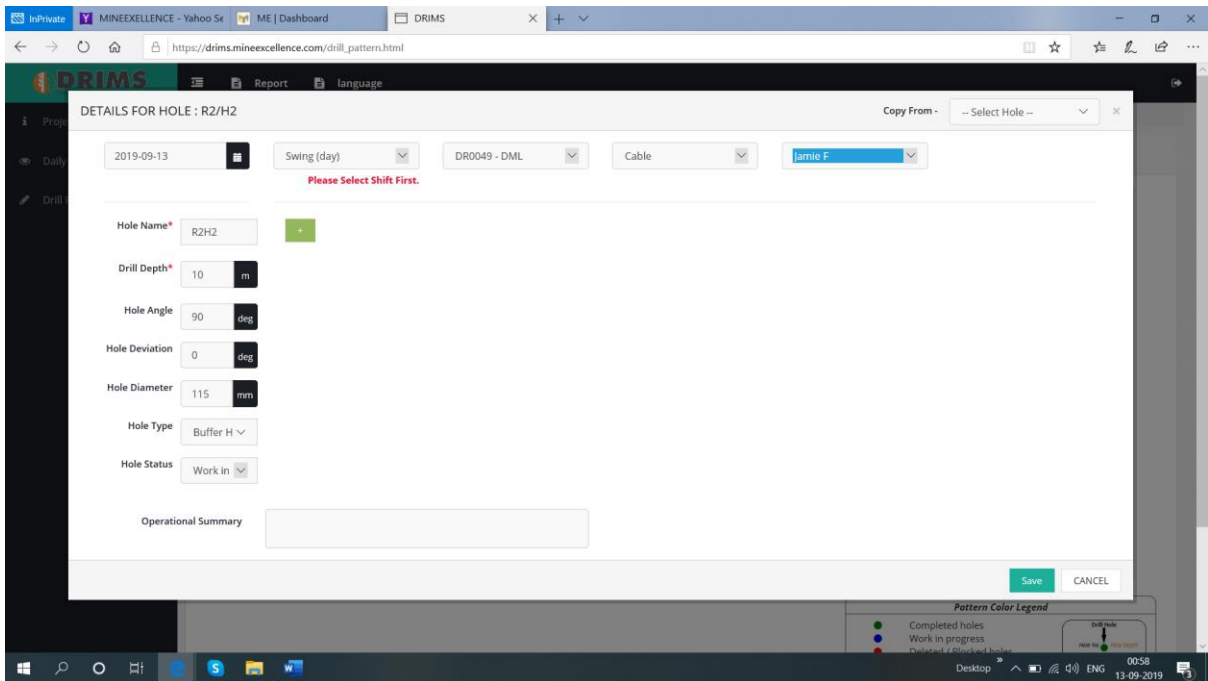
Also, you can edit this information by clicking on the edit icon.

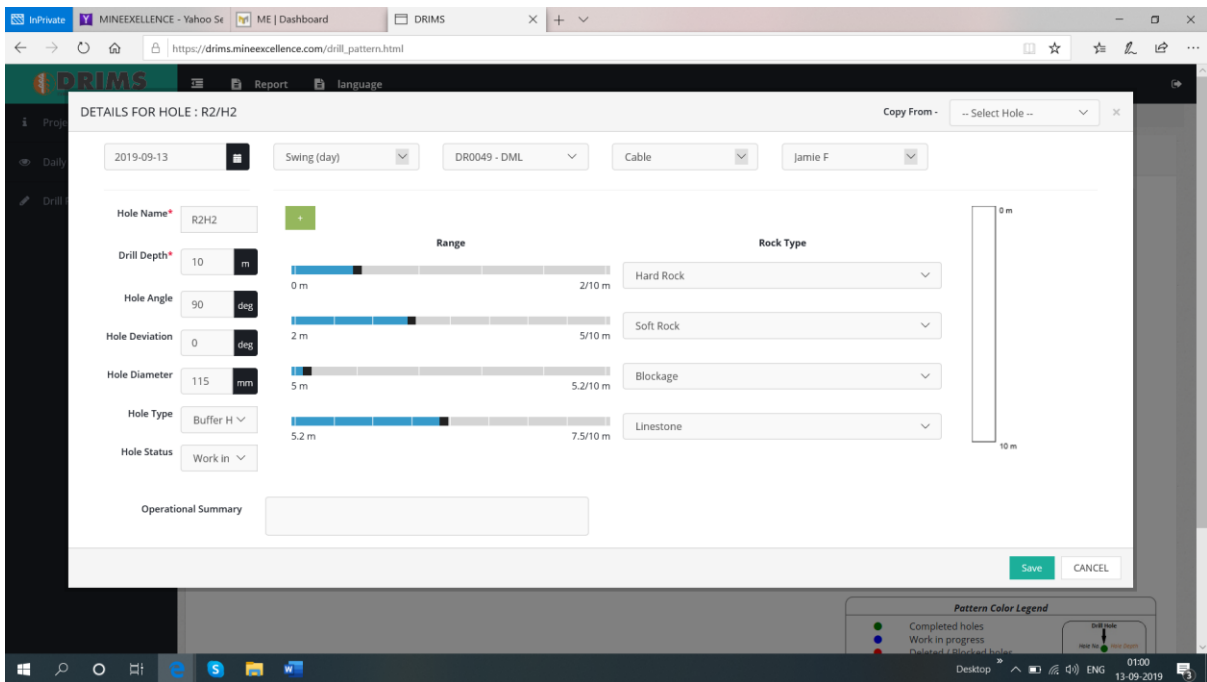
E.g. for new hole information:



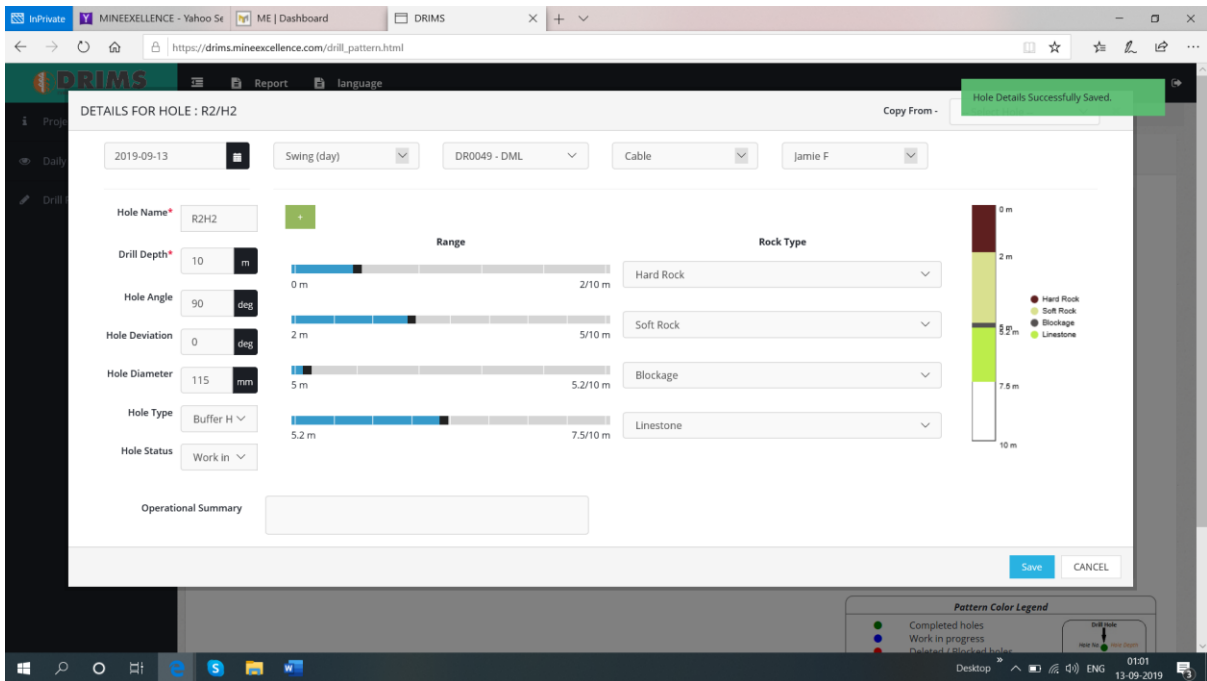


For drill log diagram: click on + button

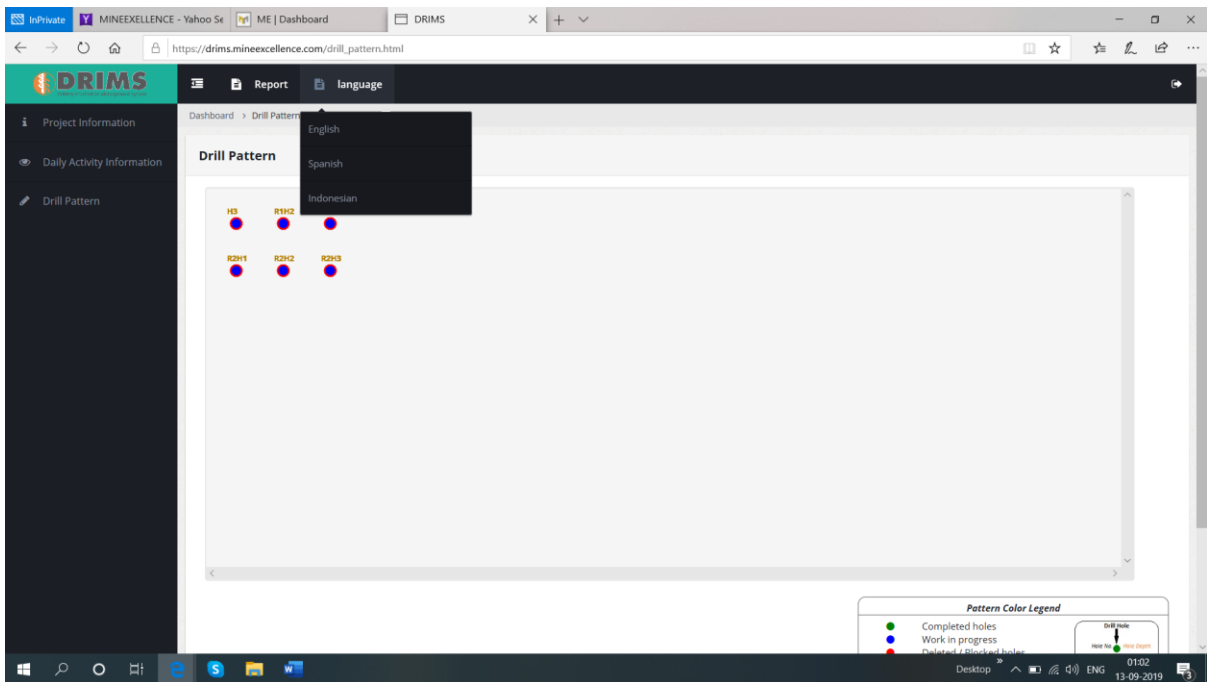




After clicking on save there will appear drill log diagram.

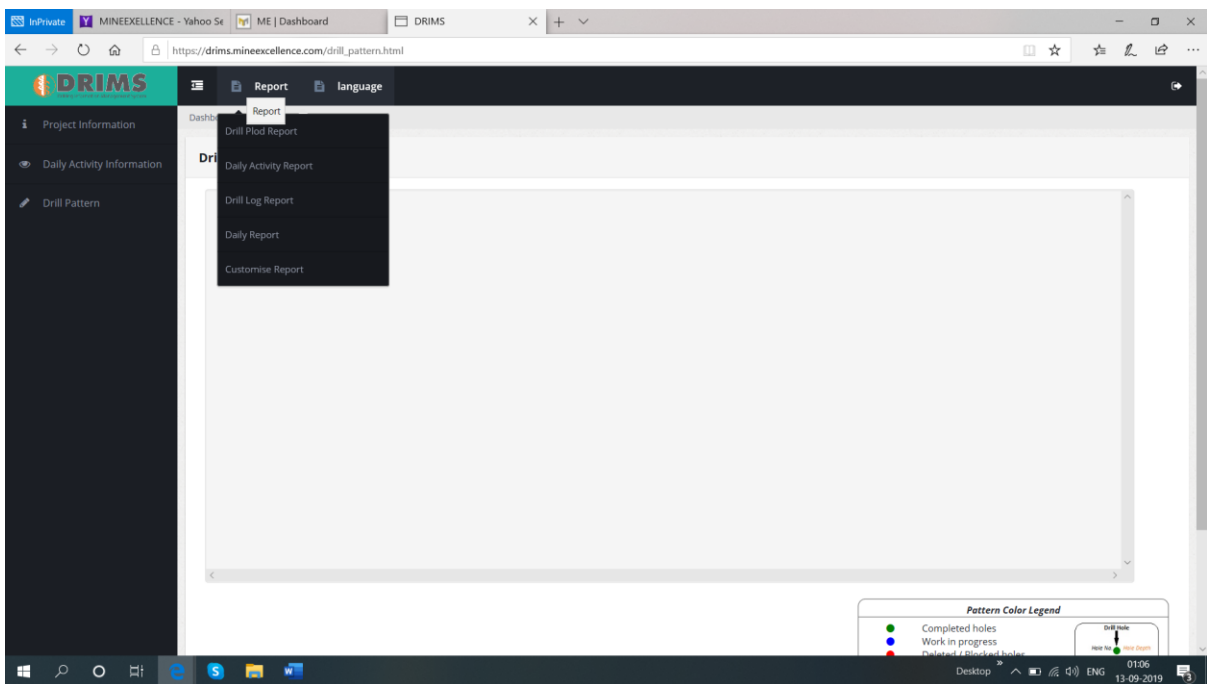


LANGUAGE:

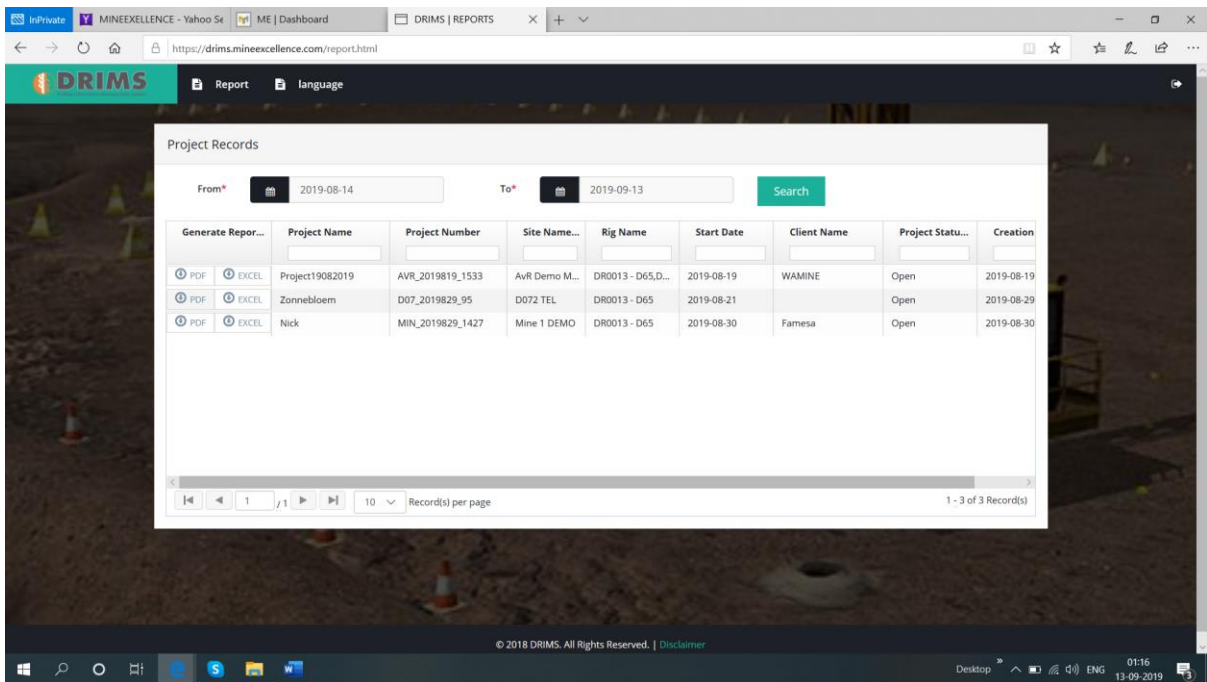


Right now, only three languages are available i.e. English Spanish and Indonesian and we can avail it any language used globally but some additional charges may apply for the same.

REPORT:



PLOD REPORT:



DRIMS | Reports | Project Records

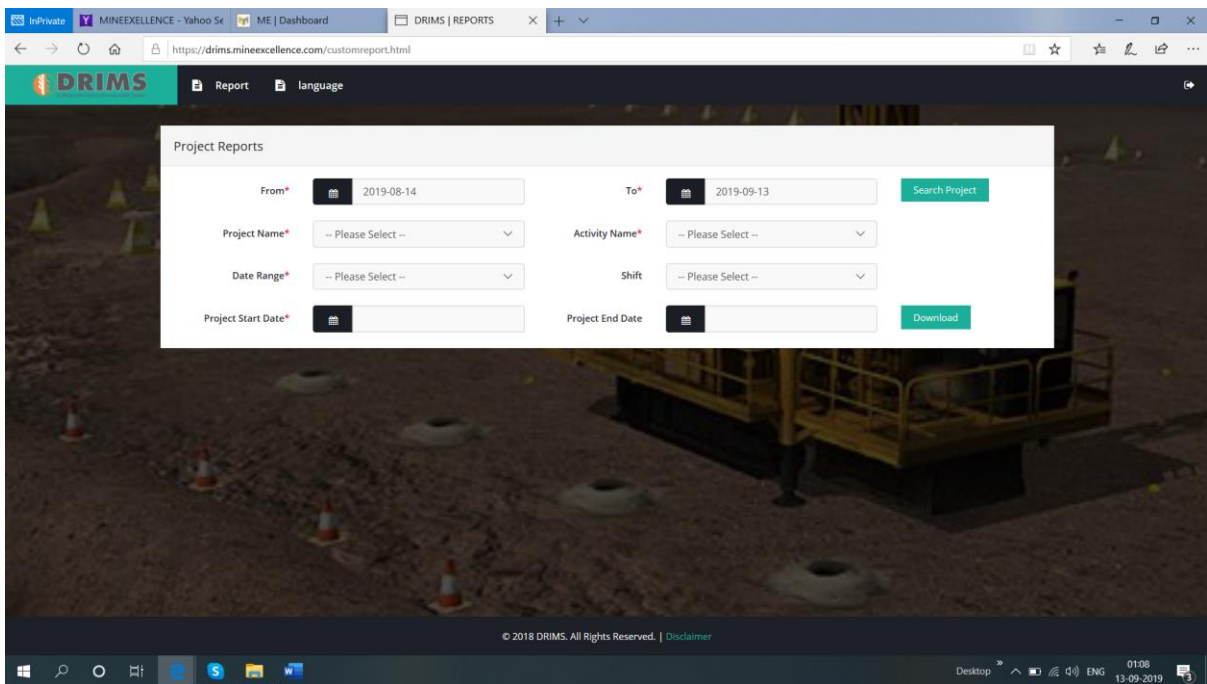
From* 2019-08-14 To* 2019-09-13 Search

Generate Report...	Project Name	Project Number	Site Name...	Rig Name	Start Date	Client Name	Project Status...	Creation
PDF EXCEL	Project19082019	AVR_2019819_1533	AvR Demo M...	DR0013 - D65,D...	2019-08-19	WAMINE	Open	2019-08-19
PDF EXCEL	Zonnebloem	D07_2019829_95	D072 TEL	DR0013 - D65	2019-08-21		Open	2019-08-29
PDF EXCEL	Nick	MIN_2019829_1427	Mine 1 DEMO	DR0013 - D65	2019-08-30	Famesa	Open	2019-08-30

Records(s) per page: 10 | 1 - 3 of 3 Record(s)

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DAILY ACTIVITY REPORT:



DRIMS | Reports | Project Reports

From* 2019-08-14 To* 2019-09-13 Search Project

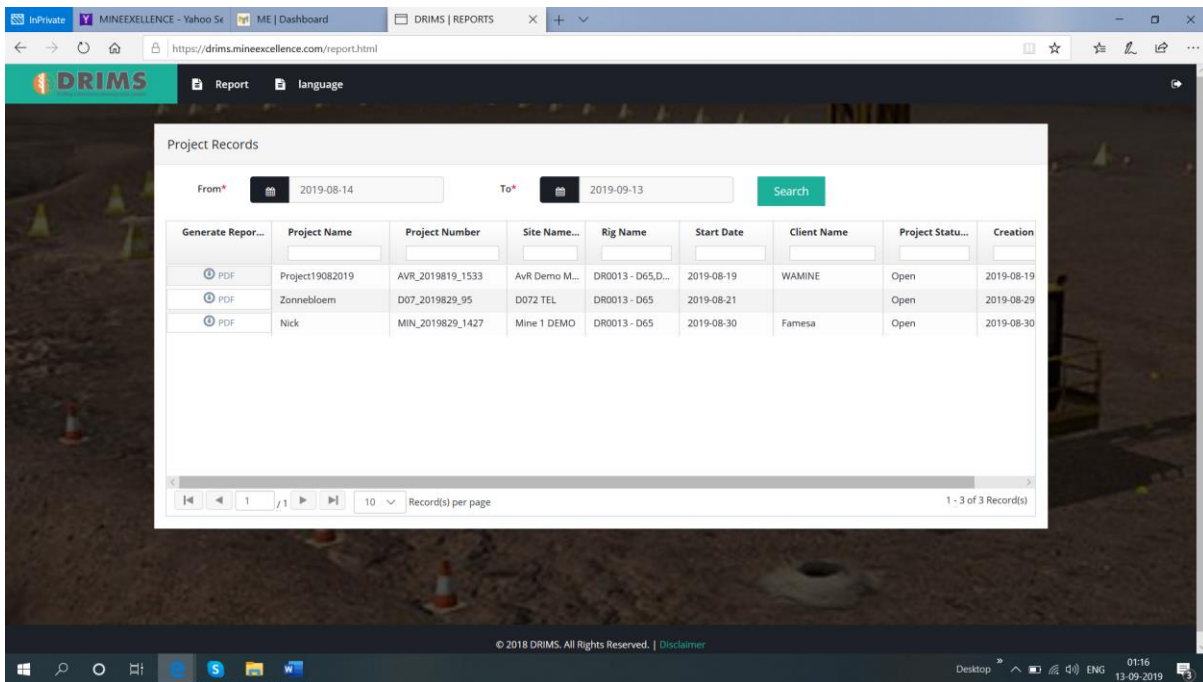
Project Name* -- Please Select -- Activity Name* -- Please Select --

Date Range* -- Please Select -- Shift -- Please Select --

Project Start Date* Project End Date Download

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DRILL LOG REPORT:



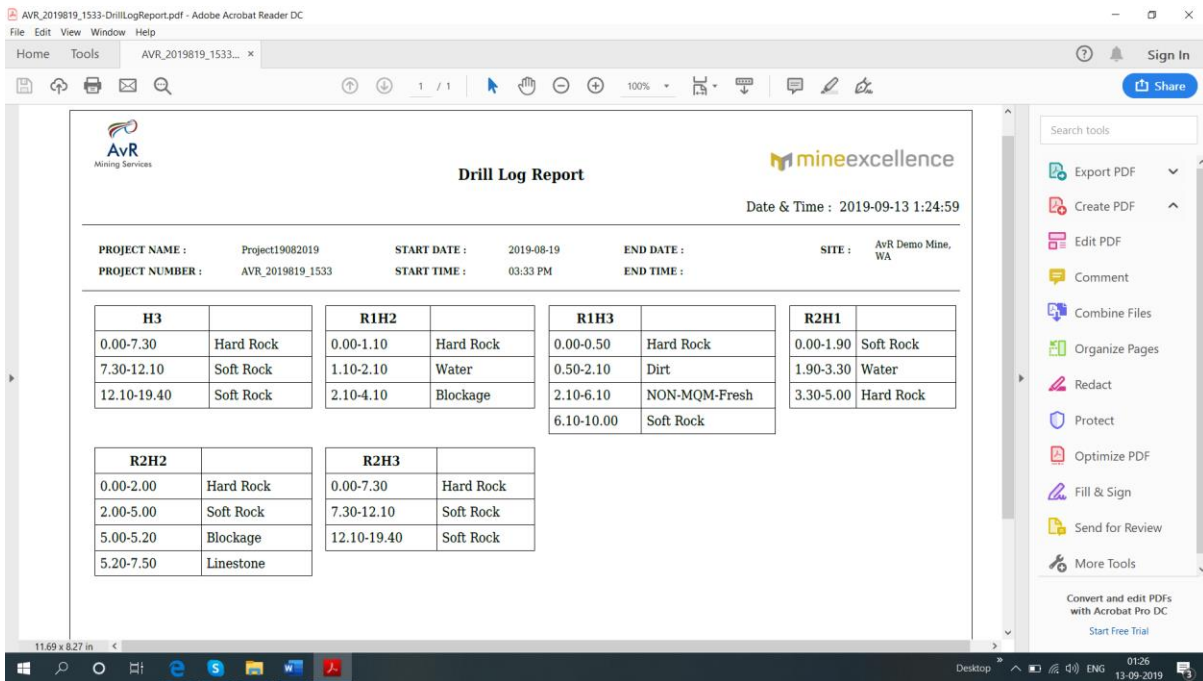
Project Records

From* 2019-08-14 To* 2019-09-13 Search

Generate Report...	Project Name	Project Number	Site Name...	Rig Name	Start Date	Client Name	Project Status...	Creation
PDF	Project19082019	AVR_2019819_1533	AvR Demo M...	DR0013 - D65,D...	2019-08-19	WAMINE	Open	2019-08-19
PDF	Zonnebloem	D07_2019829_95	D072 TEL	DR0013 - D65	2019-08-21		Open	2019-08-29
PDF	Nick	MIN_2019829_1427	Mine 1 DEMO	DR0013 - D65	2019-08-30	Famesa	Open	2019-08-30

Records per page: 10 (1 / 1) 1 - 3 of 3 Record(s)

You can download the report in PDF format:



Drill Log Report

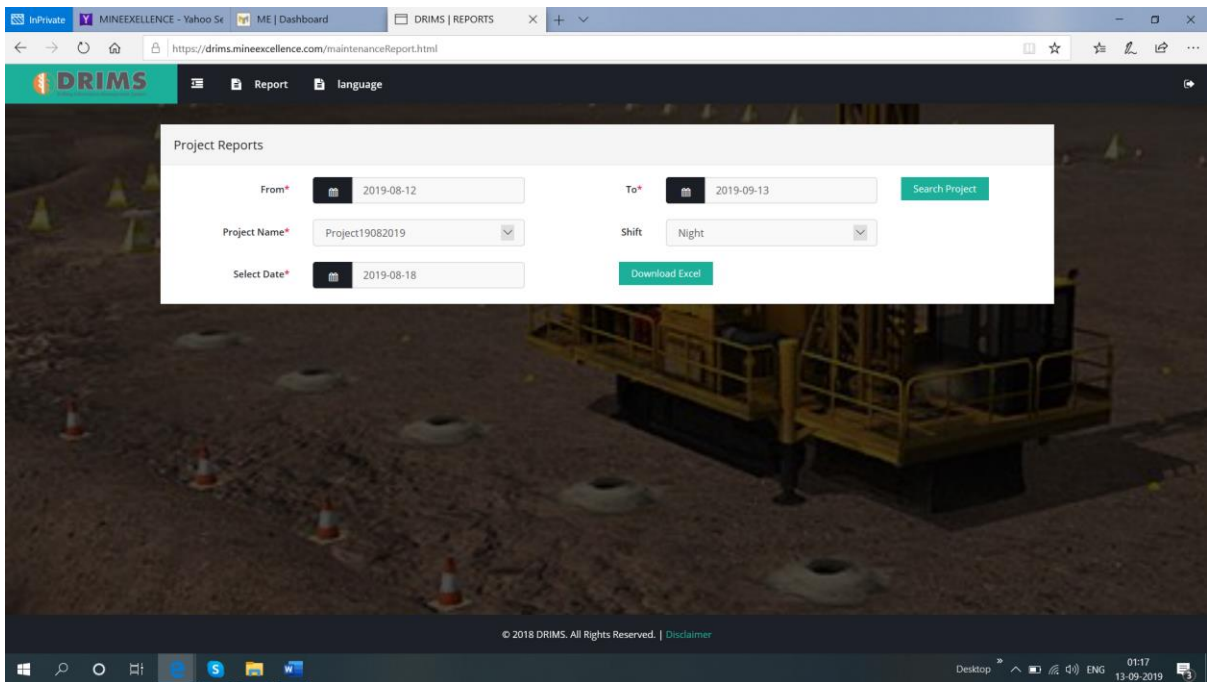
Date & Time : 2019-09-13 1:24:59

PROJECT NAME : Project19082019 START DATE : 2019-08-19 END DATE : SITE : AvR Demo Mine, WA
PROJECT NUMBER : AVR_2019819_1533 START TIME : 03:33 PM END TIME :

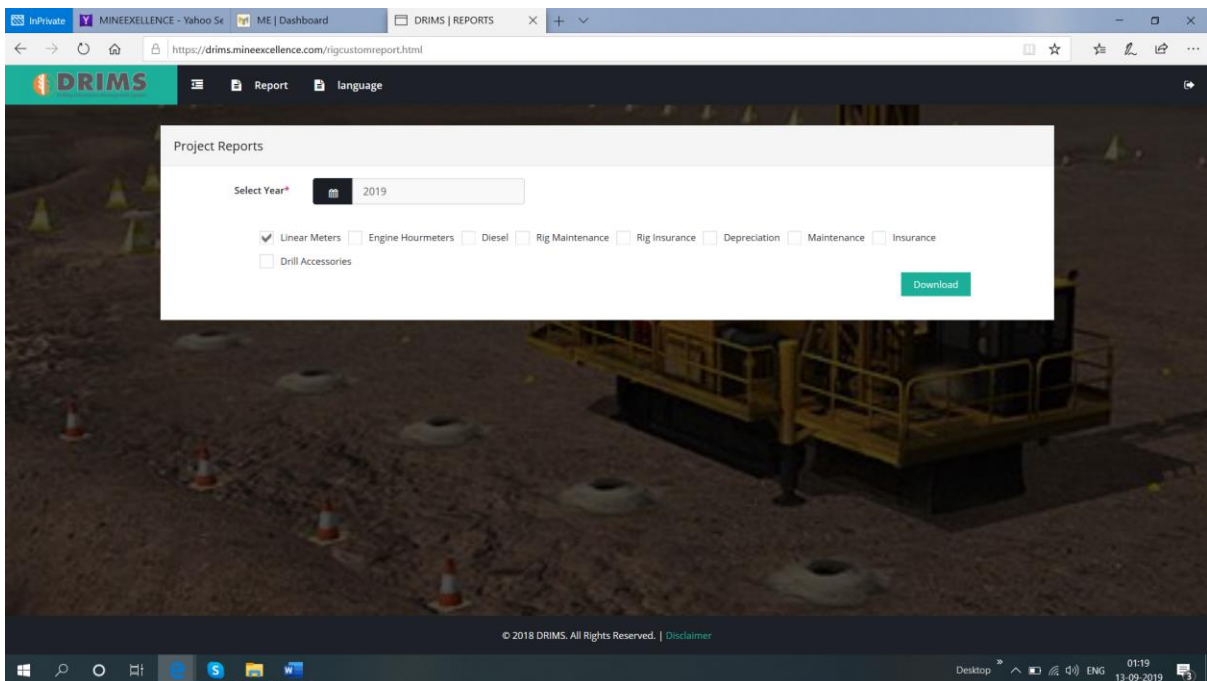
H3	R1H2	R1H3	R2H1
0.00-7.30 Hard Rock	0.00-1.10 Hard Rock	0.00-0.50 Hard Rock	0.00-1.90 Soft Rock
7.30-12.10 Soft Rock	1.10-2.10 Water	0.50-2.10 Dirt	1.90-3.30 Water
12.10-19.40 Soft Rock	2.10-4.10 Blockage	2.10-6.10 NON-MQM-Fresh	3.30-5.00 Hard Rock
		6.10-10.00 Soft Rock	

R2H2	R2H3
0.00-2.00 Hard Rock	0.00-7.30 Hard Rock
2.00-5.00 Soft Rock	7.30-12.10 Soft Rock
5.00-5.20 Blockage	12.10-19.40 Soft Rock
5.20-7.50 Limestone	

DAILY REPORT:



CUSTOMIZE REPORT:

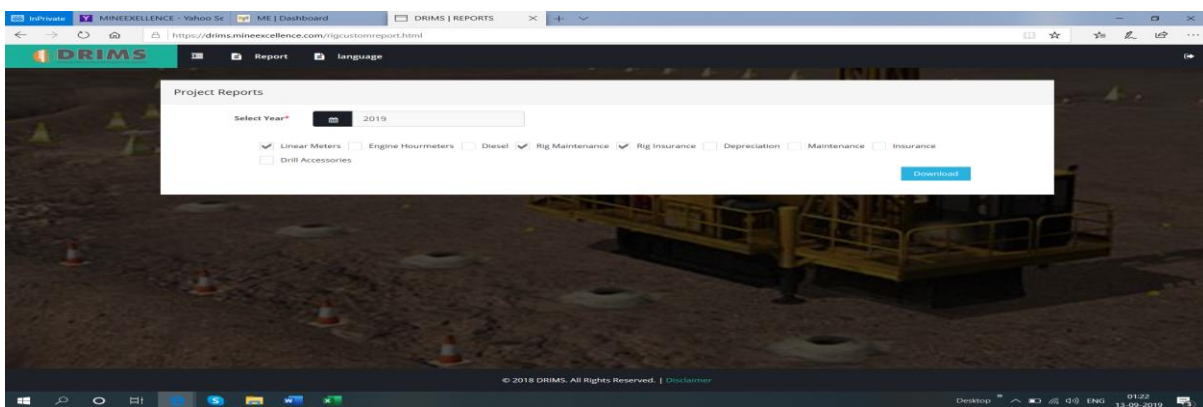


Click on download and then:

CustomReport-2019 [Protected View] - Excel

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

	A	B	C	D	E	F	G	H	I	J
	LINEAR METERS									
	DR0013 - D65	DR0036 - D65	DR0049 - DML	DR1041 - PV271	DR0062 - SK	DR0063 - SK	DR9099 - Spares	Rig23-D65	DJ123-D1	
1										
2										
3	January									
4		-250	-200	-150						
5	March									
6	April									
7	May									
8	June									
9		50	300							320
10		130			160					
11	September									
12	October									
13	November									
14	December									
15	TOTAL	-70	80	-150	0	160	0	0	0	320
16	AVERAGE	-23.33333333	26.66666667	-150		160				320
17										
18										
19										
20										
21										
22										
23										



For multiple selection a new excel with multiple sheets can be downloaded

CustomReport-2019 [Protected View] - Excel

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

	A	B	C	D	E	F	G	H	I	J	
1	RIG MAINTENANCE										
2		DR0013 - D65	DR0036 - D65	DR0049 - DML	DR1041 - PV271	DR0062 - SK	DR0063 - SK	DR9099 - Spares	Rig23-D65	DJ123-D1	
3	January										
4	February										
5	March										
6	April					200					
7	May										
8	June	1300									
9	July										
10	August	200									
11	September										
12	October										
13	November										
14	December										
15	TOTAL	1500	0	0	0	200	0	0	0	0	
16	AVERAGE	750				200					
17											
18											
19											
20											
21											
22											
23											

Linear Meters Rig Maintenance Rig Insurance

Ready

01:22 13-09-2019