

## Table of Contents

1.0. Introduction	3
1.1. Purpose	3
1.2. Scope of the Project	3
1.3. Overview of the Document	3
2.0. Log in	4
2.1. Forgot Password	5
3.0. Home	6
3.1. Change Password	6
4.0. Part-A : General Information	7
4.1. Lease Details	7
4.2. Lessee Details	8
4.3. Approvals/ Consent from Governmental Agencies	9
4.4. Contribution/ Payments	10
5.0. Part-B : Sustainable Mining	11
5.1. Module 1 - Systematic and Sustainable Mining	11
5.2. Module 2 - Protection of Environment and Conservation of Water	12
5.3. Module 3 - Health Safety and Welfare of Workers	13
5.4. Module 4 – Statutory Compliance	14
6.0. Certificate	15
7.0. Provisional Rating	16
8.0. Download as PDF	17

# SOLUTION OF THE SECONDARY OF THE SECONDA

#### STAR RATING OF MINOR MINERALS

#### 1.0. Introduction

#### 1.1. Purpose

The purpose of this document is to present a detailed description of the Star Rating System of Minor Minerals. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the users and the developers.

#### 1.2. Scope of the Project

This software system will be a Star Rating System for Minor Minerals. This system will be designed to take inputs from the miner and according to that give points and then followed by a Star Rating.

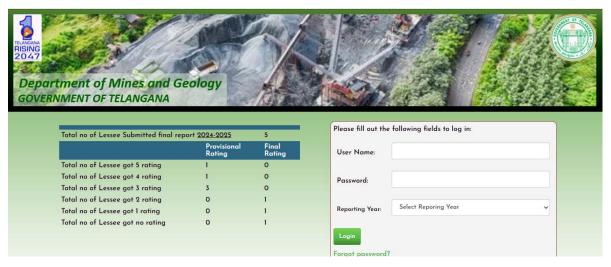
#### 1.3. Overview of the Document

This document gives an overview of the functionality of the product. It describes the requirements and is used to establish a context for the technical requirements specification in the next chapter.

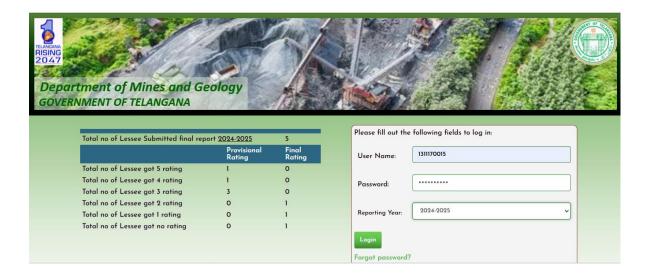
It also serves as a user manual for Lessees for them to enter the information required for completing their self-assessment.



#### 2.0. Log in



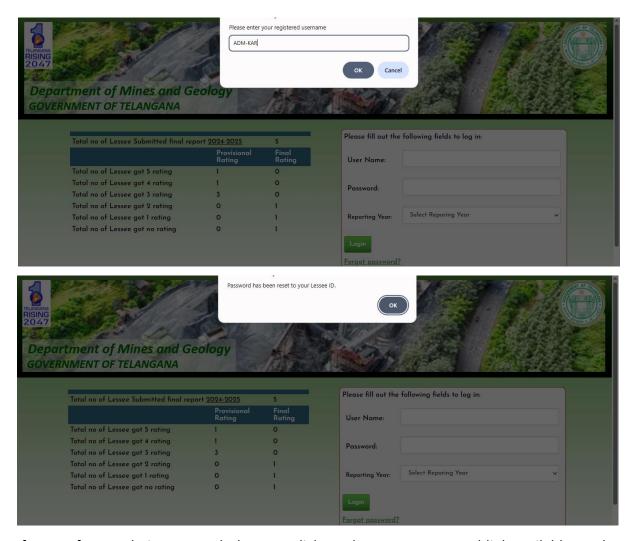
The login page allows lessees to access the system by providing three key details: Username, Password, and Reporting Year. The Username corresponds to the Lessee ID assigned to each lessee. By default, the Password is also set as the Lessee ID; however, lessees may update their password after their initial login for enhanced security. The Reporting Year field specifies the operational period for which data will be managed. For the current cycle, the Reporting Year is fixed as 2024–2025.



The panel on the left displays the count of lessees who have submitted their final reports for the reporting year 2024–2025, along with their provisional and final star ratings. It provides a quick summary of the number of lessees in each rating category, from 5 stars to no rating.



#### 2.1 Forgot Password



If a user forgets their password, they can click on the Forgot Password link available on the login page. A dialog box will appear asking the user to enter their registered username. Once submitted, the system will automatically reset the password to the corresponding username.

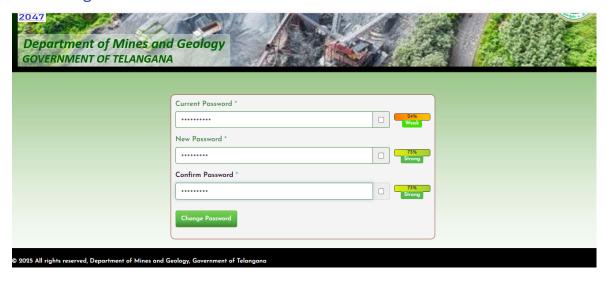
After resetting, the user should log in using their username as the temporary password. Immediately after login, the system will redirect the user to the Change Password page, where they must create a new password before accessing the application.





- Home Navigates to the Home page.
- Welcome Message Displays the logged-in user's name.
- Change Password Opens the Change Password page.
- Current Date Shows the present system date.
- Logout Logs the user out of the system immediately.
- Start Navigates to the assessment.

#### 3.1. Change Password



On the Change Password page, users must enter their current password along with a new password, which must be confirmed by re-entering it. The system displays a password strength indicator to help users choose a secure password. Once the Change Password button is clicked, the password is updated, and the user is automatically logged out, requiring them to log in again using the newly set password.

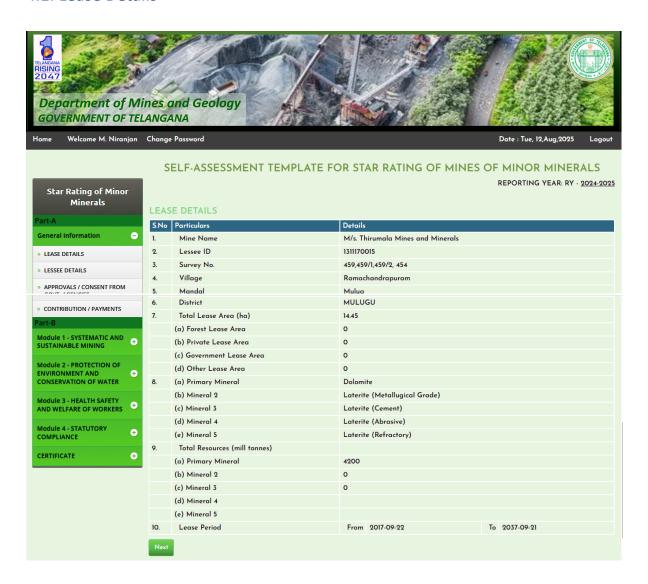


#### 4.0. Part-A: General Information

This section has information about the Mine and the Lessee to whom the Mining Licence has been granted, as recorded with the Department of Mines and Geology.

Lessees are advised to review this data carefully, and alert the department immediately if any discrepancies are noted.

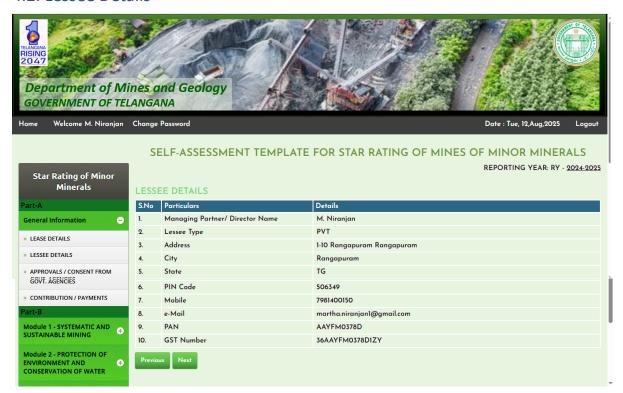
#### 4.1. Lease Details



This section has Lease Details, including information about the location of the mine, the area of the mine, the principal minerals, the total resources, and licence dates.



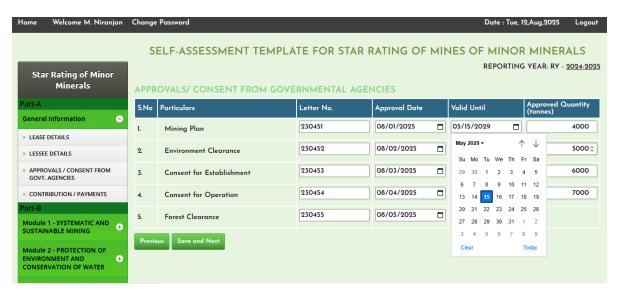
#### 4.2. Lessee Details



This section has information on the Lessee to whom the licence has been awarded.

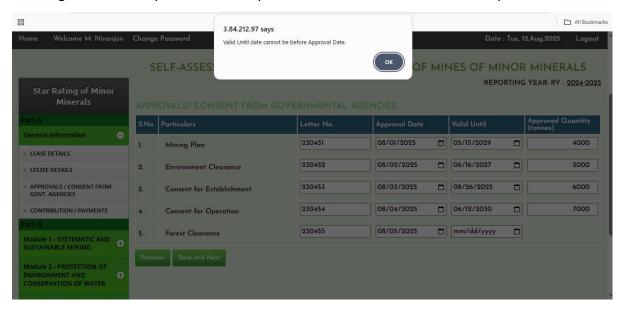


#### 4.3. Approvals/ Consent from Governmental Agencies



This section has information about the Approvals obtained from various Government Agencies. The Lessee is required to fill in the information requested.

In this section, the Approval Date and Valid Until fields are selected using a pop-up calendar, allowing users to easily choose the required dates from an interactive date picker.

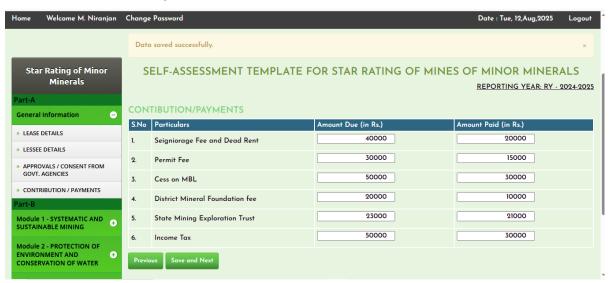


If the **Valid Until** date is set earlier than the **Approval Date**, the system displays a pop-up alert stating "Valid Until date cannot be before Approval Date", preventing the user from saving invalid date entries.

Every field in the form is mandatory except Forest Clearance, and the answers to each question will only be saved when the user clicks the **Save and Next** button.



#### 4.4. Contribution/ Payments



This section has information on the Contribution and Payments associated with the mining licence. The Lessee is required to complete this information as part of the self-assessment.

Both the **Amount Due** and **Amount Paid** fields must be filled in, every field in the form is mandatory, and the data will only be saved after clicking the **Save and Next** button.



#### 5.0. Part-B: Sustainable Mining

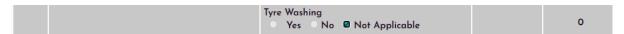
In Part B, points are allocated for each question based on the responses provided, and these points are used for the purpose of calculating the overall star rating.

#### 5.1. Module 1 - Systematic and Sustainable Mining



For *Total Production mineral-wise during the Reporting Year*, points are awarded as: >50% to 100% of approved quantity -7 points, between 30% and 50% -5 points,  $\le 30\%$  or >100% - 0 points. In this case, with 2,352 tonnes approved and 2,000 tonnes actual ( $\approx 85.04\%$ ), 7 points were awarded.

For questions with Yes/No/Not Applicable options, selecting "Yes" awards the applicable maximum points, while selecting "No" awards 0 points.



If "Not Applicable" is selected, the question is skipped and its points are excluded from the star rating calculation.



#### 5.2. Module 2 - Protection of Environment and Conservation of Water



If "Yes" is selected, the user must provide details of how it was achieved. These details will be validated, and based on this validation, the final rating will be awarded.



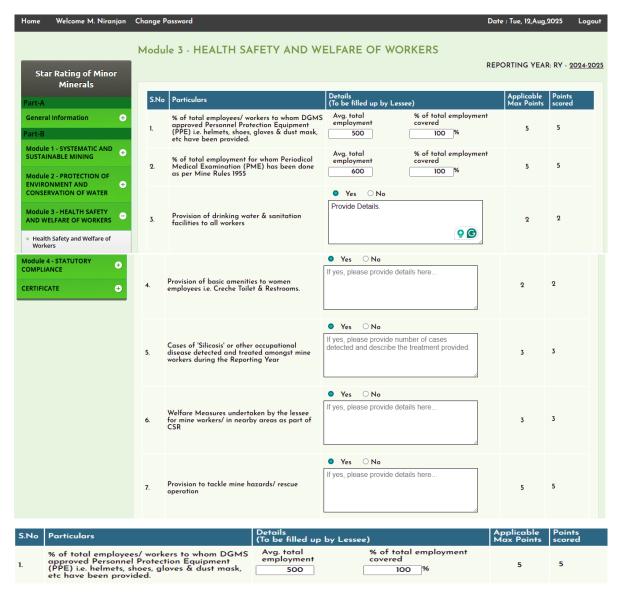
For *Total Plantation/Compensatory Afforestation* during the Reporting Year, points are awarded as: **80% to 100%** of approved quantity -4 points, >**50% and <80%** -2 points, and  $\leq$ **50%** -0 points. In this case, with 4,000 approved and 4,000 actual (100% achievement), the maximum 4 points were awarded.



For Survival Rate of Plants during the 1st Year of Plantation, points are awarded as: **70% to** 100% - 4 points, >50% and <70% - 2 points, and  $\leq 50\% - 0$  points. In this case, with 3,000 plants planted and 3,000 surviving after one year (100% achievement), the maximum 4 points were awarded.



#### 5.3. Module 3 - Health Safety and Welfare of Workers



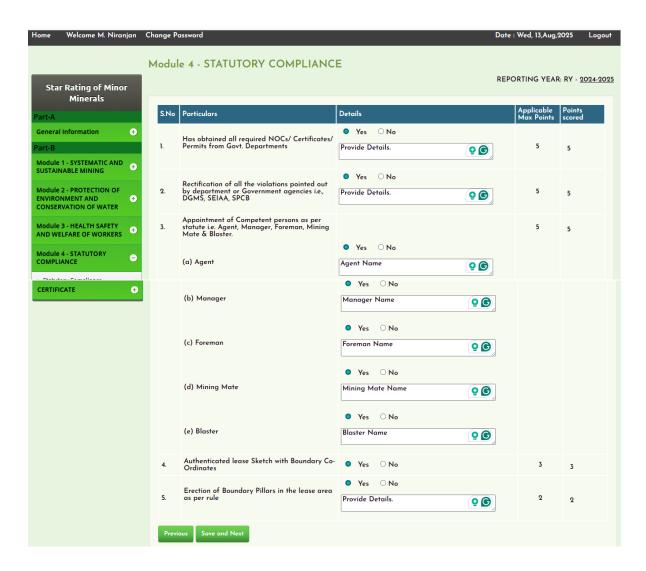
For % of Total Employees/Workers Provided with DGMS-Approved Personal Protective Equipment (PPE), points are awarded as: 100% - 5 points, >50% - 2 points, and  $\leq 50\% - 0$  points. In this case, with an average total employment of 500 and 100% coverage, the maximum 5 points were awarded.



For % of Total Employment Covered under Periodical Medical Examination (PME) as per Mine Rules 1955, points are awarded as: 100% – 5 points, >50% and <100% – 2 points, and ≤50% – 0 points. In this case, with an average total employment of 600 and 100% coverage, the maximum 5 points were awarded.



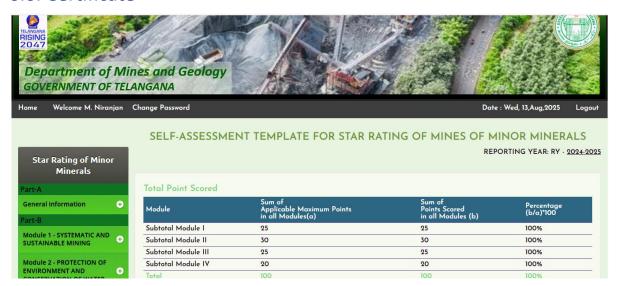
#### 5.4. Module 4 – Statutory Compliance



The Lessee is required to answer the questions in this section, and provide the name of the Agent, Manager, the Foreman, Mining Mate, and Blaster if one has been appointed for this mine.

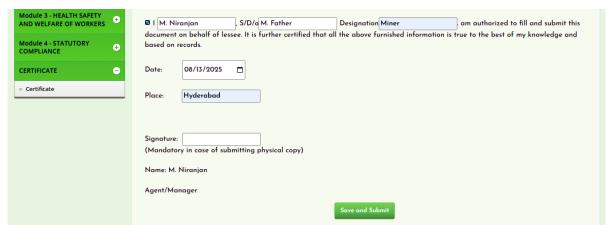


#### 6.0. Certificate



The **Total Points Scored** section provides a consolidated summary of performance across all modules. Each module has a predefined **Applicable Maximum Points** value, representing the highest score that can be achieved for that module based on the criteria set in the assessment framework.

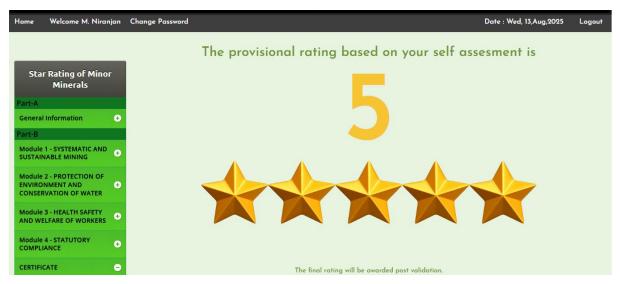
- **Sum of Applicable Maximum Points (a)**: The total possible points that can be earned in the module, considering only the questions relevant to the reporting year.
- **Sum of Points Scored (b)**: The actual points obtained by the lessee in the module based on their responses and validations.
- **Percentage (b/a × 100)**: The percentage score for the module, calculated by dividing the points scored by the applicable maximum points and multiplying by 100.



Before submitting the assessment, the user must check the **Declaration** box and ensure all required details are filled in. Answering every question is mandatory, and the user may log in and modify responses any number of times prior to submission. Once the assessment is submitted, further editing of answers will not be permitted.



# 7.0. Provisional Rating



After submitting the assessment, the system will display the **Provisional Rating**. This rating is preliminary, and a consolidated **Final Rating** will be assigned only after the validation process is completed. Once this screen appears, the user may log out of the system.



# 8.0. Download as PDF



The user can review submitted answers at any time by logging into the system and can download them in PDF format by clicking the **Download as PDF** button available on the certificate page.