

# **Mineral Management System (Licensee – User Manual)**

"The **Mineral Management System** is a digital platform for tracking, regulating, and optimizing mineral exploration, extraction, and distribution processes to ensure transparency, efficiency, and compliance with regulations."

**Prepared For** 



Directorate of Geology and Mining, Uttarakhand **Prepared By** 



**ITI** Limited



# **Table Of Content**

|                | roduction  |    |
|----------------|--|----|
|                | Steps how to portal & interface                                | 2  |
| 3<br>1.1.1     | Carde Displayed  | 2  |
|                | Cards Displayed  |    |
| 1.1.2          | Dashboard Metrics Displayed (Post-selection: "All License ID") |    |
| 1.1.3          | Flow When "All License ID" is selected                         | 4  |
|                | t Generated Form-J QTY   |    |
|                | Navigation   |    |
| 2.1.1          | Filters and Inputs   |    |
| 2.1.2          | Table Columns  | 5  |
|                | ply for form-J/form-N QTY by transit pass                      |    |
|                | Navigation   |    |
| 3.1.1          | Enter Required Inputs  |    |
| 3.1.2          | Summary of Fields and Options                                  | 7  |
|                | nrate Eravanna Form-J/Form-N                                   |    |
| 4.1 I<br>4.1.1 | Navigation   |    |
|                | -, -,  |    |
|                | eighbridge   |    |
| 5.1.1          | NavigationForm Fields to Fill                                  |    |
|                | ense Report  |    |
|                | Navigation   |    |
| 6.1.1          |  |    |
| 7.0 Lic        | ensee Qty Approval Request                                     | 17 |
|                | Navigation   |    |
| 8.0 We         | eighbridge List Reports  | 18 |
|                | Navigation   | 18 |
| 8.1.1          | Step-by-Step User Flow   | 18 |
| 9.0 Re         | quest for Security Paper                                       | 19 |
|                | Navigation   |    |
| 9.1.1          | Key Sections on the Screen                                     |    |
| 9.1.2          | Security Paper Request Summary Table                           | 26 |
| 9.1.3          | Lessee/Licensee Request Detailed View                          | 26 |
| 914            | Payment and Delivery Status Table                              | 26 |

### 1.0 Introduction

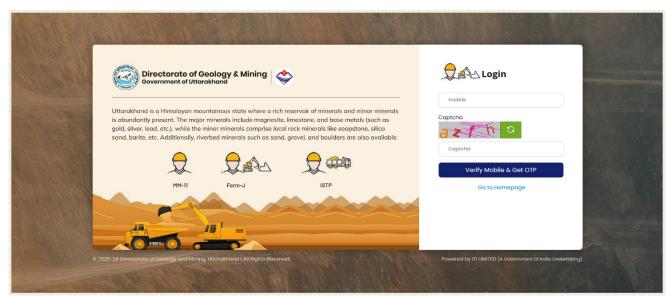
The UK Mineral MART platform (an initiative by Directorate of Geology & Mining, Government of Uttarakhand) offers a fully digital, transparent, and efficient e-commerce solution for the purchase and sale of minerals. It serves as a common marketplace where buyers (consumers), sellers (suppliers), and transporters can seamlessly interact for mineral trading.

## 1.1 Steps how to portal & interface

Go to search engine like Google & Bing

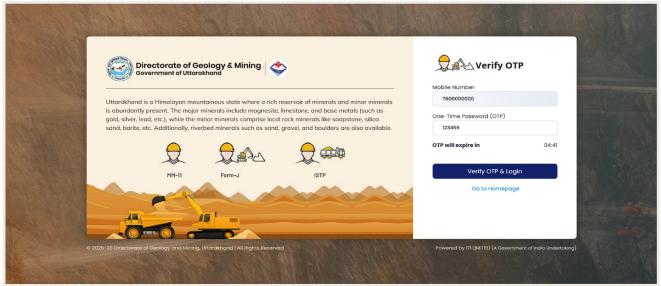
Enter url: <a href="https://mm.ukmdtss.in/">https://mm.ukmdtss.in/</a>

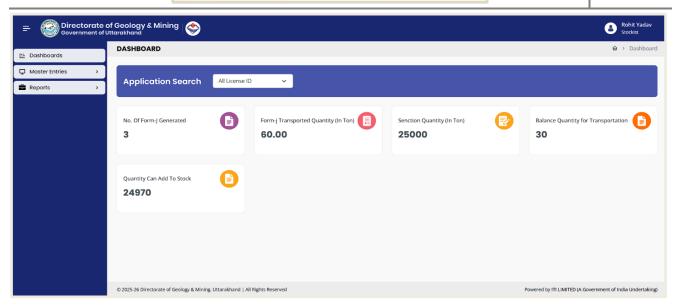
After that, you will see the portal screen





#### Enter valid OTP & Verified





### **Purpose**

To monitor, manage, and control the transportation and stock management of mined minerals under a government-issued license.

# 1.1.1 Cards Displayed

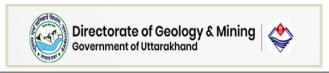
| S# | Metric                               | Value | Meaning  |
|----|--------------------------------------|-------|--|
| 1  | No. of Form-J Generated              | 3     | Number of transport forms (Form-J) created for dispatch.                         |
| 2  | Form-J Transported Quantity (In Ton) | 60.00 | Total quantity dispatched using generated Form-Js.                               |
| 3  | Sanction Quantity (In Ton)           | 25000 | Total quantity approved by government or authority for transportation.           |
| 4  | Balance Quantity Transportation      | 30    | Quantity left that can still be transported (based on sanctioned quota).         |
| 5  | Quantity Can Add to Stock            | 24970 | Unutilized stock that can be added to inventory (likely: Sanction - Dispatched). |

# 1.1.2 Dashboard Metrics Displayed (Post-selection: "All License ID")

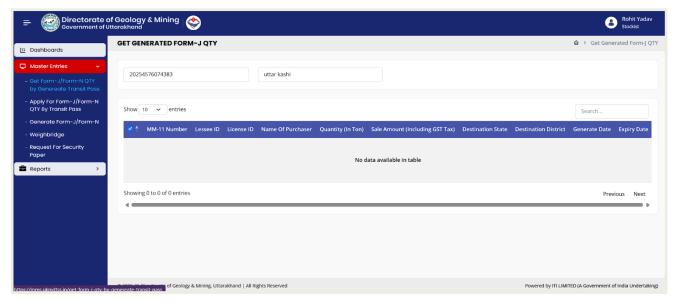
| S# | Field                                   | Value | Description   |
|----|---|-------|---|
| 1  | No. of Form-J<br>Generated              | 3     | Total Form-J generated for <b>all licenses comb</b> ined.                       |
| 2  | Form-J Transported<br>Quantity (In Ton) | 60.00 | Total transported quantity via Form-J across all licenses.                      |
| 3  | Sanction Quantity (In Ton)              | 25000 | Total sanctioned quantity across all licenses.                                  |
| 4  | Balance Quantity for<br>Transportation  | 30    | Quantity still left for transportation (based on total sanction - transported). |
| 5  | Quantity Can Add To<br>Stock            | 24970 | Remaining quantity (not yet added to stock but permitted).                      |

# 1.1.3 Flow When "All License ID" is selected

| S# | Action                                       | System Behavior  |
|----|--|--|
| 1  | User selects "All License ID" from dropdown. | The system fetches and combines data from <b>all licenses</b> registered to this stockist. |
| 2  | Dashboard loads or refreshes automatically.  | Each of the following fields is updated with <b>cumulative totals</b> from all licenses.   |



# 2.0 Get Generated Form-J QTY



### **Purpose**

To view the details of all generated Form-J entries (transit passes) associated with a specific License ID and Destination.

Form-Js are documents required for the transportation of minerals, and this interface helps stockists track what has already been generated.

# 2.1 Navigation

Click Get Generated Form-j QTY inside Master Entries

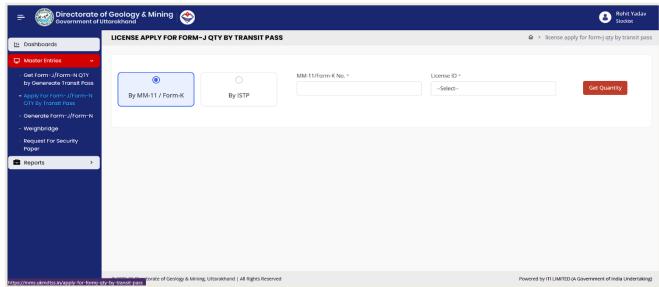
## 2.1.1 Filters and Inputs

| S | <b>5</b> # | Field                | Description                                     |
|---|------------|----------------------|---|
|   | 1          | License ID           | 20254576074383 entered manually or auto-filled. |
|   | 2          | Destination District | uttar kashi entered by user as destination.     |

### 2.1.2 Table Columns

| S# | Column Name                 | Description                             |
|----|-----------------------------|---|
| 1  | MM-11 Number                | Unique mining dispatch number           |
| 2  | Lessee ID                   | ID of the mine lessee                   |
| 3  | License ID                  | ID linked to the mining license         |
| 4  | Name of Purchaser           | The buyer/receiver of the mineral       |
| 5  | Quantity (In Ton)           | Quantity of minerals dispatched         |
| 6  | Sale Amount (Including GST) | Commercial value of the dispatch        |
| 7  | Destination State           | Destination state of mineral transport  |
| 8  | Destination District        | Destination district (e.g., Uttarkashi) |
| 9  | Generate Date               | Date the Form-J was issued              |
| 10 | Expiry Date                 | Validity end date of the Form-J         |

# 3.0 Apply for form-J/form-N QTY by transit pass



### **Purpose of This Page**

To apply for transportation **quantity allocation** (Form-J) using a valid MM-11 or Form-K number OR via ISTP (Integrated Transit System Pass).

This step is mandatory before generating an actual **Form-J** for dispatch.

## 3.1 Navigation

Click Apply For Form-J/Form-N QTY By Transit Pass inside Master Entries

#### **STEP 2: Select Application Mode**

The page offers two options to apply:

- By MM-11 / Form-K (default selected)
- By ISTP (alternative option)

These are two different methods to identify the transaction or source of minerals.

## 3.1.1 Enter Required Inputs

| S# | Field            | Required | Description   |
|----|------------------|----------|---|
| 1  | MM-11/Form-K No. | Yes      | Official transaction or movement number generated during mining operations. |
| 2  | License ID       | Yes      | Select the appropriate mining license to link this application.             |

#### **Click Get Quantity**

- After filling both fields, clicking the "Get Quantity" button triggers a backend fetch.
- The system checks if this MM-11/Form-K number is valid and linked to:
- An approved mining transaction
- The selected License ID



### STEP 5: System Response

- If Valid:
- System displays:
- Available quantity
- GST and rate info
- Option to proceed to Form-J/Form-N generation

#### If Invalid

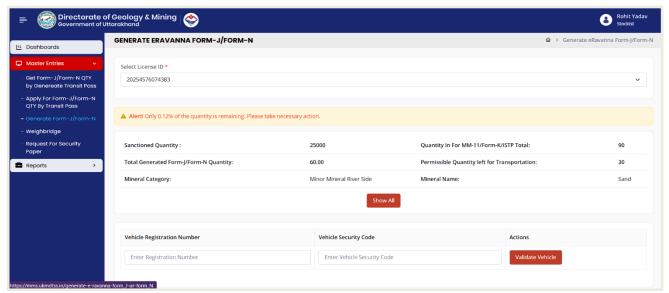
- System shows:
- Error (e.g., "Invalid MM-11 No. or License ID not matched")
- Or no data response

## 3.1.2 Summary of Fields and Options

| S# | UI Element                            | Purpose  |
|----|---------------------------------------|--|
| 1  | Radio Buttons (By<br>MM-11 / By ISTP) | Choose the method for quantity application                   |
| 2  | MM-11/Form-K No.<br>Field             | Unique document number proving valid extraction              |
| 3  | License ID Dropdown                   | Choose the license under which the stockist is operating     |
| 4  | Get Quantity Button                   | Triggers backend verification and fetches allocated quantity |



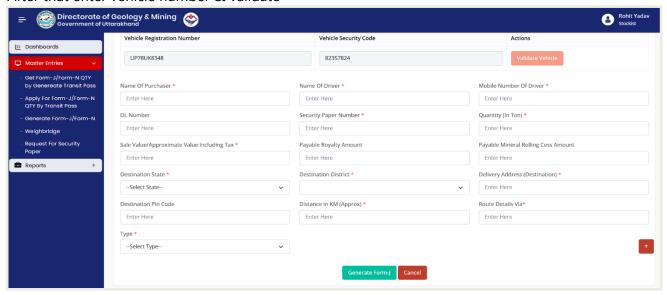
# 4.0 Genrate Eravanna Form-J/Form-N



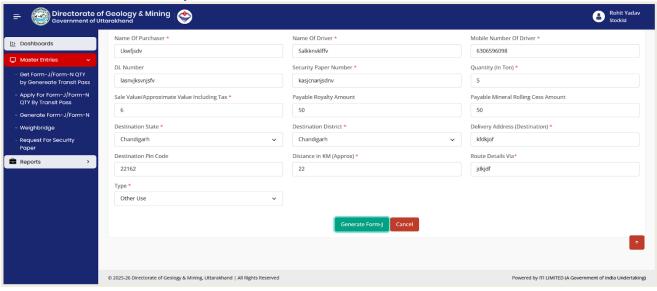
# 4.1 Navigation

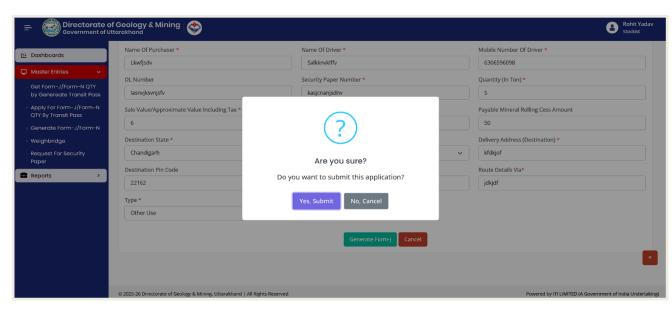
Click Genrate Eravanna Form-J/Form-N inside Master Entries

#### After that enter vehicle number & validate



### Then fill all form's mandatory columns







### Complete User Flow: Generate Form-J / Form-N

Step 1: Navigate to the Application

- Go to: Generate Form-J/Form-N via the sidebar.
- Page title: "LICENSE APPLY FOR FORM—J QTY BY TRANSIT PASS"
- Choose Method:
- Select: "By MM-11/Form-K"
- Enter:
- MM-11/Form-K No.
- License ID (Dropdown)
- Click "Get Quantity"

Step 2: License & Quantity Info

The system displays:

- Sanctioned Quantity (e.g., 25,000)
- Total Generated Form-J/Form-N Quantity (e.g., 60)
- Permissible Quantity left (e.g., 30)
- Mineral Category and Name (e.g., Sand)

If stock is low: "Only 0.12% of the quantity is remaining" warning appears.

Step 3: Vehicle Verification

- Vehicle Registration Number
- Vehicle Security Code
- Click "Validate Vehicle"

Step 4: Fill Form Details (Mandatory Fields)

After vehicle validation, a detailed form appears. You must fill the following:

Purchaser & Driver Details:

- Name Of Purchaser
- Name Of Driver
- Mobile Number Of Driver
- DL Number (Driver License)
- Security Paper Number

#### Transport Info:

- Quantity (in Ton)
- Sale Value Including Tax
- Payable Royalty Amount
- Payable Mineral Rolling Cess Amount

#### **Destination Details:**

- Destination State
- Destination District
- Pin Code
- Delivery Address
- Distance in KM (Approx)
- Route Details Via
- **Type** (Dropdown e.g., Other Use)

### Step 5: Form Generation

Click "Generate Form-J"



- Confirmation Pop-up appears:
- "Are you sure? Do you want to submit this application?"
- Click "Yes, Submit"

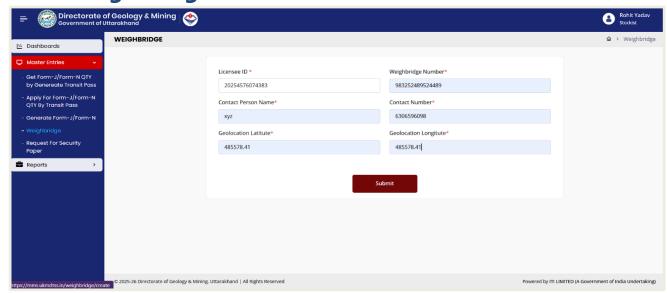
### Step 6: Form Generated

- Form-J is generated successfully. It includes:
- Form No., Registration No., License Address
- **Destination, Route, Distance**
- **Royalty, Rolling Cess, Total Amount**
- Vehicle Info, Driver Info
- Generated On, Valid Upto
- QR Code for verification

### 4.1.1 Summary Table of Required Fields

| S# | Section              | Field Name                                 |
|----|----------------------|--|
| 1  | Purchaser Info       | Name Of Purchaser                          |
| 2  | Driver Info          | Name Of Driver, Mobile, DL, Security Paper |
| 3  | Transport<br>Details | Quantity, Sale Value, Royalty, Cess        |
| 4  | Destination          | State, District, Pin, Address, Distance    |

#### Weighbridge 5.0



Once the Form-J is generated, the next step (if required) is to register or manage weighbridge data:

### **Purpose**

The Weighbridge module in the Directorate of Geology & Mining system is used to record the accurate weight of vehicles carrying minerals. It plays a crucial role in maintaining transparency and regulatory compliance in the mining and transportation process.

## 5.1 Navigation

Click Weighbridge inside Master Entries

#### 5.1.1 Form Fields to Fill

| S# | Field Name            | Description                       |
|----|-----------------------|-----------------------------------|
| 1  | Licensee ID           | Auto-filled or entered manually   |
| 2  | Weighbridge Number    | Unique number of the weighbridge  |
| 3  | Contact Person Name   | Person managing the weighbridge   |
| 4  | Contact Number        | Mobile number                     |
| 5  | Geolocation Latitude  | GPS Latitude (use decimal format) |
| 6  | Geolocation Longitude | GPS Longitude (decimal format)    |

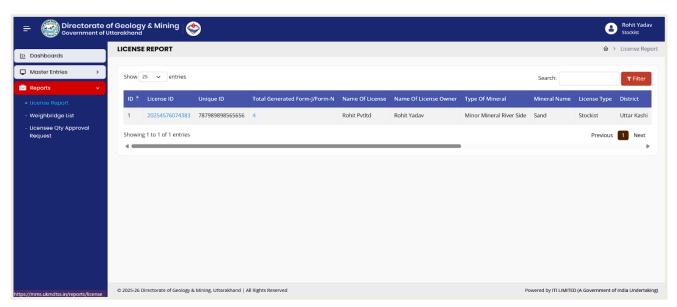
### **Final Step: Submit Weighbridge Info**

After filling all required fields correctly, click the **Submit** button.

If latitude/longitude values are invalid (not in the correct format), the field may be highlighted in red.



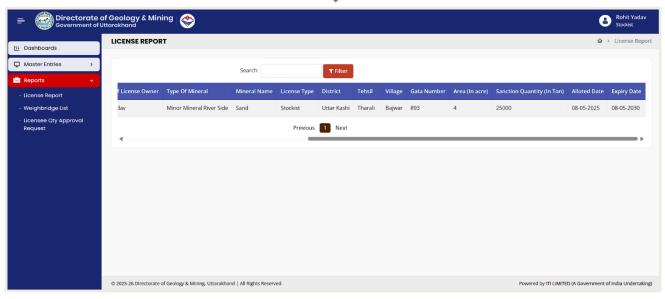
# 6.0 License Report



# **6.1 Navigation**

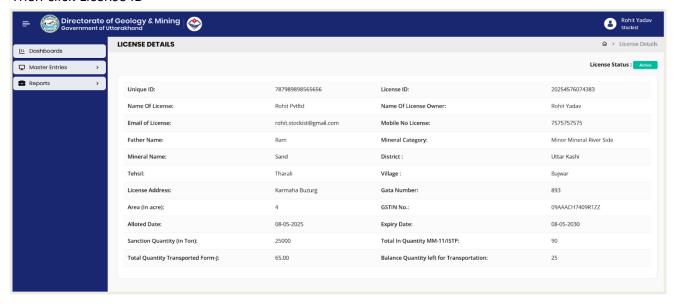
Click License Report Inside Reports



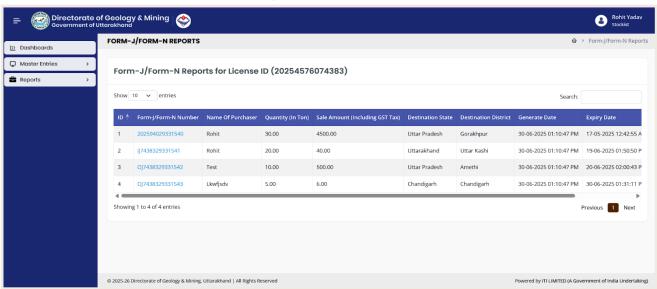




#### Then click License ID



#### After that click on Total Generated Form-J/Form-N



#### Then click Form-J/Form-N Number





### Purpose:

To efficiently monitor, manage, and validate mining license details, transported mineral quantities, and regulatory compliance through structured reporting modules.

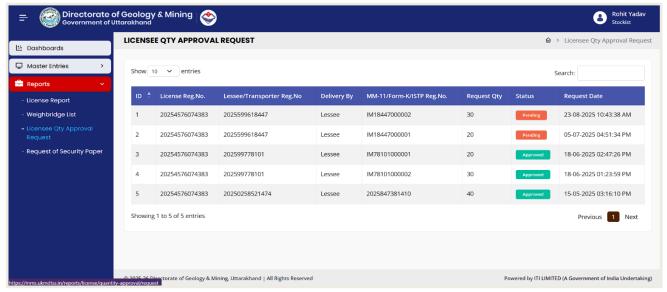
# **6.1.1 Step-by-Step User Interaction Flow**

| S# | Action   | Description   |
|----|--|---|
| 1  | Login  | User logs into the official portal as a registered stockist.  |
| 2  | Navigate to 'Reports'                              | Accesses the reporting dashboard from the left panel.   |
| 3  | Select 'License Report'                            | Clicks on the relevant license section to review issued licenses.   |
| 4  | View License Summary                               | Displays list of licenses with key details: License ID, Owner, Type of Mineral, District, Forms generated, etc. |
| 5  | Click License ID                                   | Selects license 20254576074383 to access full details.  |
| 6  | Review License Details                             | Shows detailed fields: \  |
|    | - License Owner, Address, GSTIN, Area, Gata No.\   |   |
|    | Sanctioned Quantity: 25,000 Tons \                 |   |
|    | - Allotment Period: 08-05-<br>2025 to 08-05-2030 \ |   |
|    | Transported: 65 Tons \                             |   |
|    | Balance Quantity: 25 Tons \                        |   |
|    | Registered Email and Mobile<br>Number              |   |
| 7  | Access Form-J/Form-N Reports                       | User navigates to transportation and sales record generated under this license.                                 |
| 8  | Inspect Individual Forms                           | Clicks on Form No. 202594029331540 for deeper insight.  |
| 9  | Review Transportation Sheet                        | Key data shown: \   |
|    | -Vehicle Number, DL, Driver<br>Name\               |   |
|    | Distance: 650 km, Duration: 32.5 hours\            |   |
|    | - Destination: Gorakhpur\                          |   |
|    | - Route: NH-27\                                    |   |
|    | - Royalty, GST, Mineral Rolling<br>Cess\           |   |

### **Key Highlights & Observations:**

- The portal is **highly structured**, ensuring traceability from license issuance to material dispatch.
- Transparent quantity tracking 4 Form-Js issued, 65 tons moved, only 25 tons left.
- **Real-time audit-ready** interface supports destination tracking and GST compliance.
- End-to-end traceability: From quarry (Bajwar) to consumer delivery location (Gorakhpur).

# 7.0 Licensee Qty Approval Request



#### **Purpose**

The Weighbridge module in the Directorate of Geology & Mining system is designed to capture and maintain the weight details of vehicles transporting minerals. It ensures that the recorded weight matches the approved quantity, thereby:

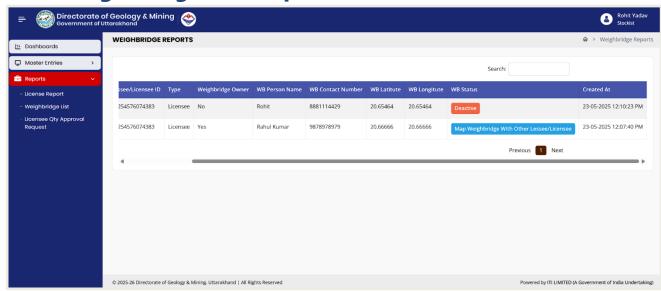
- Providing accurate and transparent data on mineral transportation.
- Supporting regulatory compliance by preventing overloading or unauthorized dispatch.
- Maintaining a digital record of gross, tare, and net weight for every trip.
- Enabling cross-verification with licensee quantity approvals for better monitoring.
- This module plays a vital role in ensuring accountability, transparency, and lawful mining practices in Uttarakhand.

## 7.1 Navigation

Click License QNT approval request Inside Reports

| S# | Field Name                     | Purpose / Description   |
|----|--------------------------------|---|
| 1  | ID                             | Auto-generated serial number for each request entry.            |
| 2  | License Reg. No.               | Unique registration number of the mining license.               |
| 3  | Lessee/Transporter<br>Reg. No. | Registration number of the lessee or authorized transporter.    |
| 4  | Delivery By                    | Specifies who is responsible for delivery (e.g., Lessee).       |
| 5  | MM-11 / Form-K / ISTP Reg. No. | Reference number of the mining transit permit or related form.  |
| 6  | Request Qty                    | Quantity of mineral requested for approval (in units).          |
| 7  | Status                         | Approval status of the request (e.g., Pending, Approved).       |
| 8  | Request Date                   | Date and time when the quantity approval request was submitted. |

# 8.0 Weighbridge List Reports



## 8.1 Navigation

Click Weighbridge Inside Reports

#### **Purpose of This Module**

To manage and monitor the linkage between stockists and weighbridges for real-time sand/mineral transportation verification, activation/deactivation of weighbridge access, and geographic traceability using latitude/longitude.

This helps in:

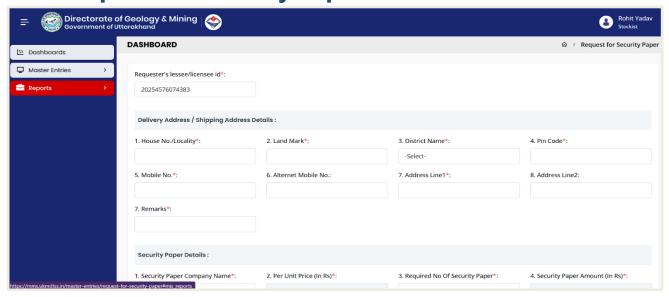
Mapping weighbridges for multi-license usage

## 8.1.1 Step-by-Step User Flow

| S# | Action  |  |
|----|---|--|
| 1  | Login   |  |
| 2  | Navigate to 'Reports'   |  |
| 3  | Click on 'Weighbridge List'   |  |
| 4  | View Weighbridge Report Table   |  |
| 5  | Manage Weighbridge Status   |  |
|    | <ul> <li>If it is owned by another licensee, the user may Map Weighbridge With Other Lessee/Licensee.</li> <li>Filter/Search Entries</li> </ul> |  |



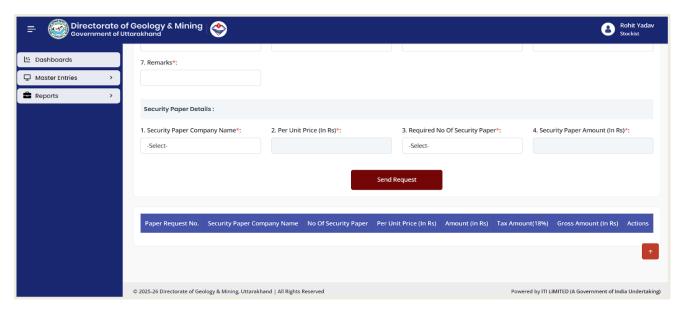
### **Request for Security Paper** 9.0

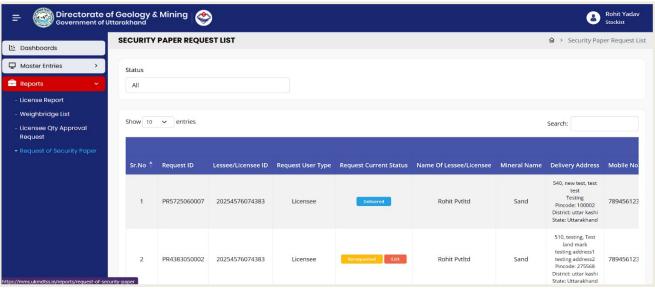


## 9.1 Navigation

Click Request for security paper inside Master Entries







#### **Purpose**

This screen allows a Stockist to initiate a formal Security Paper Request by filling out essential details shipping address and the number/type of security papers needed.

#### **User Flow (Step-by-Step)**

### 1. Stockist Fills the Security Paper Request Form

- Login as a Stockist
- Navigate to Master Entries → Request For Security Paper.
- Fill in the form with two major sections:
  - Shipping Address / Delivery Details
  - **Security Paper Details**
- Click on Send Request button.

System stores this request and makes it visible to the DMO (District Mining Officer) for review.

### 2. DMO Receives and Approves the Request

- DMO logs in to their panel.
- The submitted request appears under their dashboard for approval.
- After review, DMO approves the request.

### 3. Payment Option Appears on Stockist Panel

- Once approved, the Stockist logs in again.
- The payment option becomes visible for the approved security paper request Stockist proceeds to make the payment online.

### 4. Request Forwarded to Security Paper Seller

- After successful payment, the system automatically forwards the request to the respective **Security Paper Company (Seller).**
- Seller can then proceed to **fulfill the request** based on details provided.

### 3. Payment Option Appears on Stockist Panel

- Once approved, the Stockist logs in again.
- The payment option becomes visible for the approved security paper request Stockist proceeds to make the payment online.

#### 4. Request Forwarded to Security Paper Seller

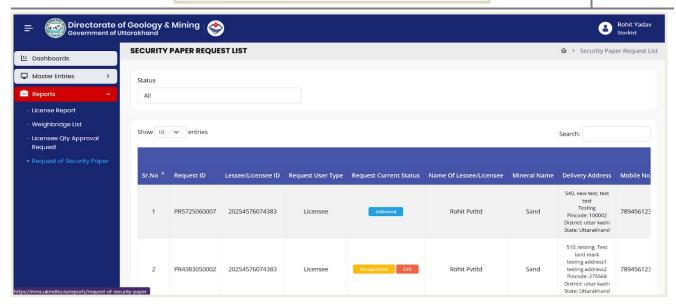
- After successful payment, the system automatically forwards the request to the respective **Security Paper Company (Seller).**
- Seller can then proceed to **fulfill the request** based on details provided.



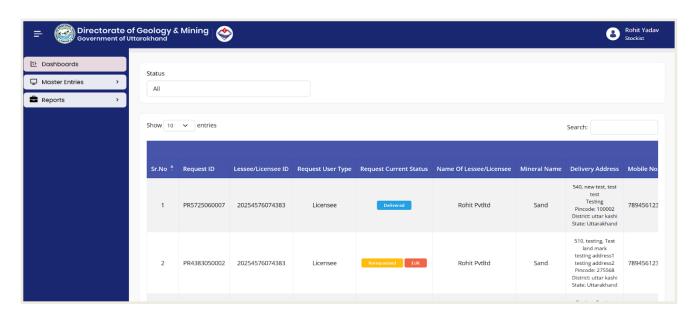
# 9.1.1 Key Sections on the Screen

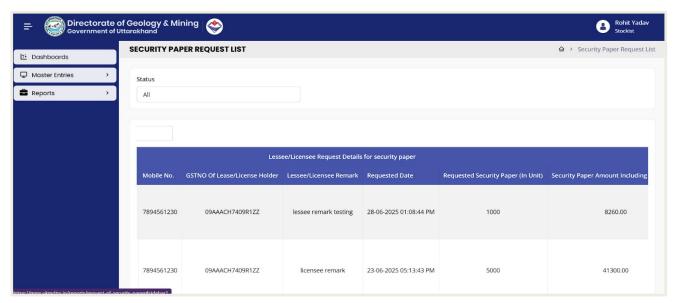
| S# | Section                               | Field Name                     | Purpose / Description                                       |
|----|---------------------------------------|--------------------------------|---|
| 1  | Delivery Address<br>/ Shipping Detail | House No. / Locality           | Exact location of the Lessee for delivery of security paper |
|    |                                       | Land Mark                      | Nearby known point to assist in locating the address        |
|    |                                       | District Name                  | Dropdown to select the district of delivery                 |
|    |                                       | Pin Code                       | Postal code of the delivery address                         |
|    |                                       | Mobile No.                     | Primary contact number of the Lessee                        |
|    |                                       | Alternate Mobile No.           | Secondary contact number (optional)                         |
|    |                                       | Address Line 1                 | Main part of the address                                    |
|    |                                       | Address Line 2                 | Additional address information (optional)                   |
|    |                                       | Remarks                        | Any specific notes or instructions related to the delivery  |
| 2  | Security Paper<br>Details             | Security Paper Company Name    | Dropdown to select from authorized security paper providers |
|    |                                       | Per Unit Price (in Rs)         | Unit price of one security paper                            |
|    |                                       | Required No. of Security Paper | Quantity of security papers requested                       |
|    |                                       | Security Paper Amount (in Rs)  | Total price calculated (Unit Price × Quantity)              |
| 3  | Action Button                         | Send Request                   | Submits the request to the DMO for approval                 |
| 4  | Request<br>Summary Table              | Paper Request No.              | Unique request number for tracking                          |
|    |                                       | Security Paper Company Name    | Name of the selected vendor                                 |
|    |                                       | No. of Security Paper          | Quantity requested  |
|    |                                       | Per Unit Price (in Rs)         | Price per security paper                                    |
|    |                                       | Amount (in Rs)                 | Total cost before tax                                       |
|    |                                       | Tax Amount (18%)               | GST or applicable tax calculated on total                   |
|    |                                       | Gross Amount (in Rs)           | Final amount including tax                                  |
|    |                                       | Actions                        | Button to proceed with payment or view details              |
|    |                                       |                                | ·   |

Inside the Report section, we click on 'Request for Security Paper

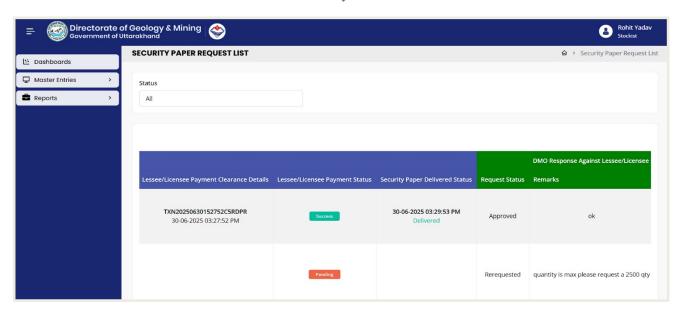




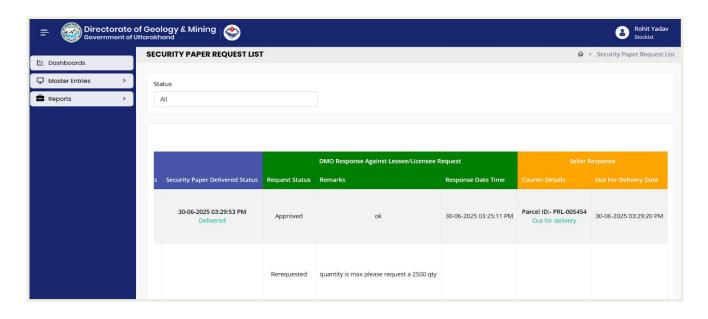












#### **User Flow**

Systematic Flow for Report Tracking:

- 1. Navigate to Reports → Request of Security Paper
  - Stockiest can view a list of all requests made for security papers.
  - This includes their statuses, payment info, delivery tracking, and responses from DMO & seller.
- 2. View Request List
  - Displays request-wise summary: Request ID, Status (Approved), Address, Contact, etc.
- 3. Click to View More Details
  - Expanded view shows: GST No., Remarks, Request Date, Requested Quantity, Amount, Payment Info.
- 4. Payment Clearance & Delivery Status
  - Displays if the payment is done (Success), and whether the security paper is delivered.
- 5. DMO and Seller Response Tracking
  - Includes official DMO approval, remarks, and seller's dispatch details (courier & delivery date).



# **9.1.2 Security Paper Request Summary Table**

| S# | Field Name                      | Purpose / Description  |
|----|---------------------------------|--|
| 1  | Lessee/Licensee Payment Txn No. | Unique transaction ID of the payment                             |
| 2  | Lessee/Licensee Payment Status  | Payment result status (e.g., Success)                            |
| 3  | Security Paper Delivered Status | Whether the requested security paper has been delivered (Yes/No) |
| 4  | DMO Request Status              | Approval status by the District Mining Officer                   |
| 5  | DMO Remarks                     | Any additional comment provided by the DMO                       |
| 6  | DMO Response Date Time          | Date and time of DMO approval                                    |
| 7  | Seller Courier Details          | Tracking or shipment reference from seller                       |
| 8  | Out for Delivery Date           | Date on which courier was dispatched                             |
| 9  | Seller Courier Details          | Tracking or shipment reference from seller                       |
| 10 | Out for Delivery Date           | Date on which courier was dispatched                             |

# 9.1.3 Lessee/Licensee Request Detailed View

| S# | Field Name                         | Purpose / Description                                      |
|----|------------------------------------|--|
| 1  | GSTNO of Lease/License Holder      | GST number of the lessee/licensee                          |
| 2  | Lessee/Licensee Remark             | Notes or comments made while requesting the security paper |
| 3  | Requested Date                     | Timestamp when the request was submitted                   |
| 4  | Requested Security Paper (In Unit) | Quantity of security paper requested                       |
| 5  | Security Paper Amount (Incl. Tax)  | Total price including applicable GST (18%)                 |
| 6  | Lessee/Licensee Payment Txn No.    | Unique payment transaction number generated post-approval  |
| 7  | Payment Date Time                  | Date and time when payment was successfully made           |

# **9.1.4 Payment and Delivery Status Table**

| S# | Field Name                         | Purpose / Description  |
|----|------------------------------------|--|
| 1  | Lessee/Licensee Payment Txn<br>No. | Unique transaction ID of the payment                             |
| 2  | Lessee/Licensee Payment<br>Status  | Payment result status (e.g., Success)                            |
| 3  | Security Paper Delivered Status    | Whether the requested security paper has been delivered (Yes/No) |
| 4  | DMO Request Status                 | Approval status by the District Mining Officer                   |
| 5  | DMO Remarks                        | Any additional comment provided by the DMO                       |
| 6  | DMO Response Date Time             | Date and time of DMO approval                                    |
| 7  | Seller Courier Details             | Tracking or shipment reference from seller                       |
| 8  | Out for Delivery Date              | Date on which courier was dispatched                             |