

Weighbridge User Manual

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1.0 Login Module

Step 1: Open your browser and enter the following URL:

<https://eravanna.ukmdtss.in/login>

As you click on this link, the interface will look like this:

The screenshot shows the login interface for the Directorate of Geology & Mining, Government of Uttarakhand. The page features a header with the department's name and logo. Below the header, a welcome message states: "Welcome to the Uttarakhand Directorate of Geology & Mining Please login with your credentials to access the portal. Authorized users only." There are three login options represented by icons: MM-11/Form-K, Form-J/Form-N, and ISTP. To the right, the "Login" section includes a "Username" input field, a "t e x t f" captcha image, a "Get OTP" button, and a "Go to Homepage" link. The footer contains copyright information: "© 2025-26 Directorate of Geology and Mining, Uttarakhand | All Rights Reserved" and "Powered by ITI LIMITED (A Government of India Undertaking)".



The screenshot shows the "Verify OTP" page for the Directorate of Geology & Mining, Government of Uttarakhand. The page features a header with the department's name and logo. Below the header, a paragraph describes the state's mineral resources: "Uttarakhand is a Himalayan mountainous state where a rich reservoir of minerals and minor minerals is abundantly present. The major minerals include magnesite, limestone, and base metals (such as gold, silver, lead, etc.), while the minor minerals comprise local rock minerals like soapstone, silica sand, barite, etc. Additionally, riverbed minerals such as sand, gravel, and boulders are also available." There are three login options represented by icons: MM-11, Form-J, and ISTP. To the right, the "Verify OTP" section includes a "Mobile Number" input field (displaying "XXXXXX5386"), a "Username" input field (displaying "SP60000176"), a "One-Time Password (OTP)" input field (displaying "*****"), and an "OTP will expire in" timer showing "04:52". There is a "Verify OTP & Login" button and a "Go to Homepage" link. The footer contains copyright information: "© 2025-26 Directorate of Geology and Mining, Uttarakhand | All Rights Reserved" and "Powered by ITI LIMITED (A Government of India Undertaking)".

2.0 Step by Step Flow

Step 2: The login page will appear on the screen.

Step 3: Enter your **Username** in the username field.

Step 4: Enter the **Captcha** shown on the screen.

Step 5: Click on the **Get OTP** button.

Step 6: The OTP verification page will open.

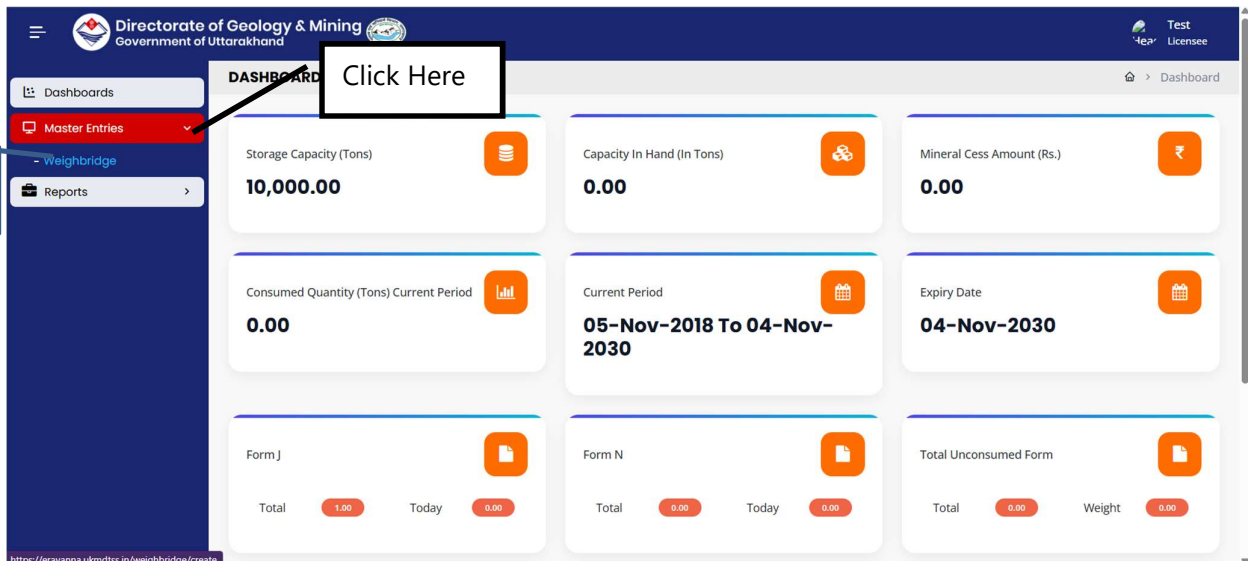
Step 7: Check the registered mobile number shown on the screen.

Step 8: Enter the **OTP** received on your registered mobile number.

Step 9: Click on **Verify OTP & Login**.

Step 10: After successful OTP verification, the user will be logged in to the portal.

3.0 Weighbridge Mapping



The screenshot shows the 'WEIGHBRIDGE' mapping form. The sidebar menu on the left includes 'Dashboards', 'Master Entries', 'Generate Challan', 'Generate MM-II / Form-K', 'Weighbridge', 'Security Paper Request', and 'Reports'. The main form area contains the following fields:

- Lessee ID*: MO00000369
- Weighbridge Number*: [Empty field]
- Contact Person Name*: [Empty field]
- Contact Number*: [Empty field]
- Geolocation Latitude*: [Empty field]
- Geolocation Longitude*: [Empty field]

Annotations include:

- A box labeled 'Enter Here' pointing to the 'Lessee ID' field.
- A box labeled 'Click Here' pointing to the 'Weighbridge' menu item.
- A box labeled 'Click Here' pointing to the 'Submit' button.
- A box labeled 'Enter Weighbridge number' pointing to the 'Weighbridge Number' field.
- A box labeled 'Click Here' pointing to the 'Geolocation Longitude' field.

The footer of the page includes the text: '© 2025-26 Directorate of Geology & Mining, Uttarakhand | All Rights Reserved' and 'Powered by ITI LIMITED (A Government of India Undertaking)'.

3.1 Step 1: Open Login Page

- User opens the system login page.

3.2 Step 2: Enter Mobile Number

- User enters their **registered mobile number**.

3.3 Step 3: Click on “Get OTP”

- User clicks on **Get OTP / Send OTP** button.

3.4 Step 4: Receive OTP

- System sends an **OTP (One Time Password)** to the user’s mobile number.

3.5 Step 5: Enter OTP

- User enters the received OTP in the OTP field.

3.6 Step 6: Click on “Login”

- User clicks the **Login** button after entering OTP.

3.7 Step 7: Dashboard Opens

- After successful login, user is redirected to the **Dashboard**.
- Dashboard shows details like:
 - Maximum Capacity Per Annum
 - Remaining Capacity
 - Capacity in Hand
 - Current Period
 - Expiry Date
 - Royalty Amount
 - MM-11
 - Form K

3.8 Step 8: Click on “Master Entries”

- From the left menu, user clicks on **Master Entries**.

3.9 Step 9: Select “Weighbridge”

- Under Master Entries, user clicks on **Weighbridge** option.

3.10 Step 10: Weighbridge Form Opens

- The **Weighbridge entry form** is displayed.

3.11 Step 11: Fill Form Details

User enters the following details:

- **Lessee ID** (auto-filled)
- **Weighbridge Number**
- **Contact Person Name**
- **Contact Number**
- **Geolocation Latitude**
- **Geolocation Longitude**

3.12 Step 12: Click on “Submit”

- User clicks the **Submit** button after filling all required fields.

3.13 Step 13: Data Validation

- System validates the entered data.

3.14 Step 14: Record Saved

- If all details are correct, the data is saved successfully.

3.15 Step 15: Success Message

- System shows a message like:
 - **“Weighbridge details submitted successfully.”**

4.0 Weighbridge List

The screenshot shows the 'WEIGHBRIDGE REPORTS' page. On the left sidebar, the 'Reports' menu is highlighted, and a callout box labeled 'Click' points to the 'Weighbridge List' link. In the main content area, a callout box labeled 'Click Here' points to the top of the table. The table has columns: ID, WB Number, Dealer Reg.No., Type, Weighbridge Owner, WB Person Name, WB Contact Number, WB Latitude, WB Longitude, WB Status, and Created At. A single entry is shown with ID 1, WB Number TESTWB01, Dealer Reg.No. SC00023859, Type Licensee, Weighbridge Owner Yes, WB Person Name Rohit, WB Contact Number 8888888888, WB Latitude 20.36565465, WB Longitude 20.36565465, WB Status Token, and Created At 27-04-2026 10. A callout box labeled 'Click here generate token' points to the 'Token' status. The footer includes the URL 'https://eravanna.ukmdtss.in/reports/weighbridge/list', copyright information, and 'Powered by ITI LIMITED (A Government of India Undertaking)'.

ID	WB Number	Dealer Reg.No.	Type	Weighbridge Owner	WB Person Name	WB Contact Number	WB Latitude	WB Longitude	WB Status	Created At
1	TESTWB01	SC00023859	Licensee	Yes	Rohit	8888888888	20.36565465	20.36565465	Token	27-04-2026 10



The screenshot shows the 'API TOKEN' page. On the left sidebar, the 'Reports' menu is highlighted. The main content area contains a form with fields for 'Weighbridge Number*' (TESTWB01) and 'Lessee/Licensee ID*' (SC00023859). Below these are the 'API Token*' and 'Refresh Token*' fields, both containing long alphanumeric strings. A red 'Regenerate' button is at the bottom. A callout box labeled 'Click generate API' points to the 'Regenerate' button. The footer includes copyright information and 'Powered by ITI LIMITED (A Government of India Undertaking)'.

Weighbridge Number* TESTWB01 Lessee/Licensee ID* SC00023859

API Token* a7dc5bdf-1287-4955-8d33-488554ee1eb5jZTP0o2vGsE7cXgnWqLEWBNhhjr5evk0M9ee6qIRFp89WGNwOGIVaXi

Refresh Token* 3jSSLMZegtiD7H5YqXCM23MTzx4ChE4W2W2SEIJWGxQzmCFsaXNFTDONtzSVYjd4d70cd32-7ce2-416d-90b7-e4i

Regenerate

4.1 Step by step user flow

Step 1: Open Reports Menu

User will login into the portal and click on the **Reports** option from the left-side menu.

Step 2: Click Weighbridge List

Under the Reports menu, user will click on Weighbridge List.

Step 3: View Weighbridge Report

After clicking, the **Weighbridge Reports** page will open.

Here user can see details like:

- WB Number
- Dealer Reg. No.
- Type
- Weighbridge Owner
- WB Person Name
- Contact Number
- Latitude / Longitude
- WB Status
- Created Date

Step 7: Regenerate API Token

User will click on the **Regenerate** button to generate or refresh the API token.

Step 8: Use Token for Integration

After token generation, the API token can be used by the weighbridge system/integrator to push weighment data to the system.

[illegible]

≡
Directorate of Geology & Mining
 Government of Uttarakhand
 TEST Licensee

Dashboards
Master Entries
Reports

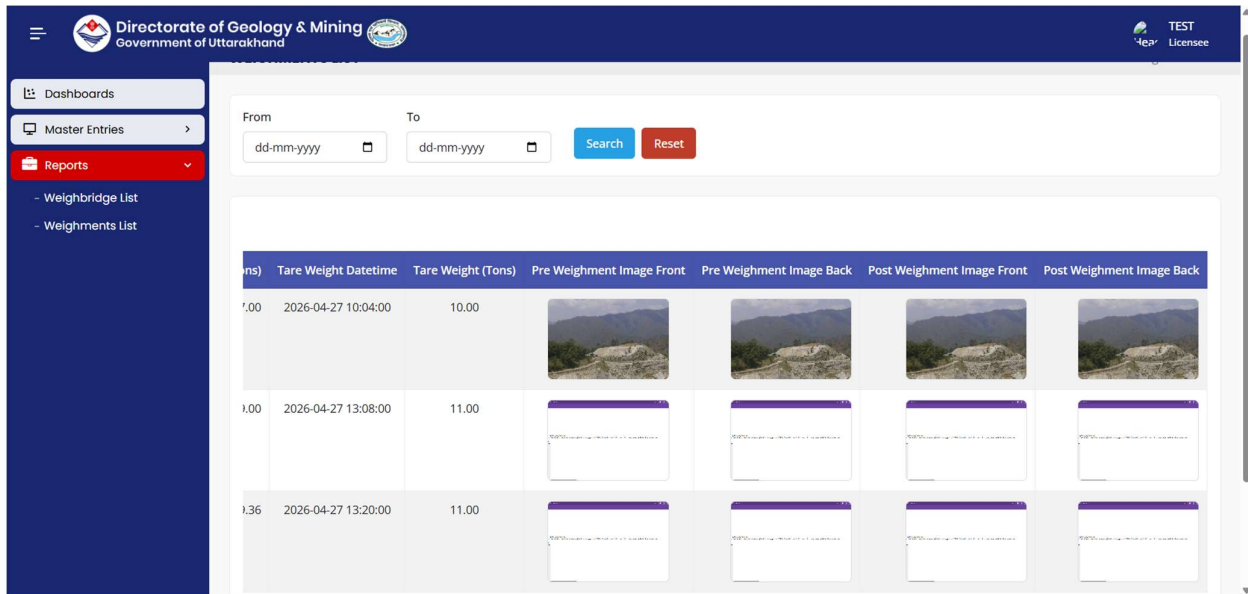
- Weighbridge List
- Weighments List

From To

Search
Reset

DF
Print

Weightment Slip No.	Vehicle Number	Gross Weight Datetime	Gross Weight (Tons)	Net Weight (Tons)	Tare Weight Datetime	Tare Weight (Tons)	Pre Weighment Photo
SLIP-78945660001	UK04CB9976	2026-04-27 10:04:00	17.00	27.00	2026-04-27 10:04:00	10.00	
S12376	UK04CB9045	2026-04-27 13:08:00	50.00	39.00	2026-04-27 13:08:00	11.00	
39086868094658096480965	HR55B2714	2026-04-27 13:20:00	50.36	39.36	2026-04-27 13:20:00	11.00	



Step 1: Login

- The user logs into the system using credentials (ID/Password or role-based login)
- The dashboard is displayed after successful login

Step 2: Open Reports Section

- Go to the **left sidebar**
- Click on **Reports**
- Two options will appear:
 - **Weighbridge List**
 - **Weighments List**

Step 3: Apply Date Filter

At the top of the page:

- Select **From Date**
- Select **To Date**
- Click on **Search**

Step 4: Understand Basic Data Table

The table shows summary details:

- Weighment Unique ID
- Lessee ID
- Form Number
- Mineral Type
- Weighbridge Number

Step 5: View Detailed Weighment Data

Scroll down to see detailed information:

- Weighment Slip Number
- Vehicle Number
- Gross Weight Datetime
- Gross Weight (Tons)
- Net Weight (Tons)
- Tare Weight Datetime
- Tare Weight (Tons)

Important logic:

- **Gross Weight = Vehicle + Mineral**
- **Tare Weight = Empty Vehicle**
- **Net Weight = Only Mineral Weight**

Step 6: Verify Images

Each record includes images:

- Pre-Weighment Image (Front)
- Pre-Weighment Image (Back)
- Post Weighment Image (Front)
- Post Weighment Image (Back)

API Document Weighbridge

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1.0 Weighbridge API Integration

This API integration is designed for **Weighbridge Systems** to securely communicate with the **Centralized Backend Platform**.

It enables:

- Automated submission of **weighment data**
- Secure authentication using **API Key / Tokens**
- Accurate capture of **gross, tare, and net weight**
- Vehicle & mineral transaction traceability
- Regulatory compliance & audit readiness

1.1 Base URL

<https://eravanna.ukmdtss.in/>

1.2 API – Refresh Token (Weighbridge Authentication)

Purpose

Used by the **weighbridge system** to refresh or validate its session using a **refresh token**.

End Point

POST /api/weighbridge/refresh-token

S#	Key	Value
1	Content-Type	application/json

Request Body

```
{  
  "WBNo": "0086",  
  "refresh_token":  
  "gjTxCnREScvphSzbYmYh5vuMbDzWz6Er6aunUsoEbp57W0oV59qfRIhI8DCwXzit06c5aa3a-b93b-  
  46b0-83c0-18595fe292dc1762161482"  
}
```

Description of Fields

S#	Field	Description
1	WBNo	Unique Weighbridge Number
2	refresh_token	Token issued earlier for session continuity

Expected Response

```
{
  "status": "success",
  "message": "Token generated successfully please use new api token for further data submission.",
  "data": {
    "api_token": "1413b6f7-b8ab-4f78-907b-03d90f3bff92SMDu0FGVnf5YfLmf4cyw2cTKCBYSVMgWMMyAxV92woiS3k7zt9pA6zY7PqtsWJeoO1766229919",
    "refresh_token": "BK32UhGVH0PB27JxHgX0dUpuc9S2GfHt6lJOqneust76nqLixolo2xdoSwEuVKp1461c1d17-2cd4-4062-9933-14434b603d541766229919",
    "token_expiry": "2025-12-21T11:25:19.729053Z",
    "WBNo": "WP004"
  }
}
```

1.3 API – Submit Weighment Data (Core API)

Purpose

To **store weighment transaction data** captured at the weighbridge.

Endpoint

POST /api/weighment/store

Headers

S#	Key	Value
1	Content-Type	application/json
2	x-api-key	API key issued to Weighbridge

1.4 Request Payload (Your Code – Mapped & Validated)

```
{
  "lessee_id": "LS05454545D",
  "weighment_data_unique_id": "2",
  "weighment_slip_no": "002",
  "weighbridge_number": "0086",
  "mineral_id": "2",
  "vehicle_number": "UP62AU2559",
  "gross_weight_datetime": "2025-11-07T12:34:00",
  "gross_weight_in_ton": "30",
  "tare_weight_datetime": "2025-11-07T12:30:00",
  "tare_weight_in_ton": "17",
  "net_weight_in_ton": "13",
  "pre_weighment_image_front": "",
  "pre_weighment_image_back": "",
  "post_weighment_image_front": "",
  "post_weighment_image_back": "",
  "remark": "store the weighment data",
  "timestamp": "638842171064104565",
  "rf_id_tag_id": "",
  "anpr_vehicle": "",
  "anpr_camera": ""
}
```

Field-Level Mapping with Official Document

S#	API Field (Used)	Official Meaning
1	lessee_id	Lessee Identifier
2	weighment_data_unique_id	DataUniqueld
3	weighment_slip_no	WeighSlipNo
4	weighbridge_number	WBNo
5	mineral_id	Name / ID of Mineral
6	vehicle_number	VehicleNumber
7	gross_weight_datetime	GrossWeightDateTime
8	gross_weight_in_ton	GrossWeight
9	tare_weight_datetime	TareWeightDateTime
10	tare_weight_in_ton	TareWeight
11	net_weight_in_ton	NetWeight
12	pre_weighment_image_front	Pre_Front Camera Image (Base64)
13	pre_weighment_image_back	Pre_Rear Camera Image (Base64)
14	post_weighment_image_front	Post_Front Camera Image (Base64))
15	post_weighment_image_back	Post_Rear Camera Image (Base64)
16	remark	Remarks
17	timestamp	System Generated Timestamp
18	rf_id_tag_id	RFID Tag Identifier
19	anpr_vehicle	ANPR Detected Vehicle Number
20	anpr_camera	ANPR Camera Camera Image (Base64)

Note: All fields should be mandatory

- **Gross Weight (in tons):** Total weight of the vehicle including mineral and tare weight
- **Tare Weight:** Weight of the unloaded (empty) vehicle
- **Net Weight:** Weight of the mineral only (excluding tare weight)

Success Response

```
{  
  'status' => 'success',  
  'status_code' => 'SC000',  
  'message' => 'Data received successfully.'}
```

Meaning

Weighment data successfully stored

Unique **stamp/receipt number** generated for audit & traceability

Error Response

```
{
```

```
status' => 'error',  
'error_code' => 'ER004',  
'message' => 'Gross weight must be greater than tare weight'}
```

Error code & type

Error Code	Reason
ER001	Validation failure
ER002	Invalid API token
ER003	Token expired
ER004	Gross $\leq$ Tare weight
ER005	Future timestamp
ER006	Timestamp older than 10 minutes
ER007	Weighbridge not mapped
ER008	Vehicle not found
ER009	Vehicle not approved
ER010	RC expired
ER011	Duplicate weighment within 3 hours
ER012	Duplicate weighment slip number
ER013	Something went wrong & server error
SC000	Data received successfully

Possible Reasons

Invalid API Key

Duplicate weighment_data_unique_id

Missing mandatory fields

Token expired / invalid

Invalid weighbridge number

Important Technical Notes

All timestamps must be **ISO 8601 format**

Images should be **Base64 encoded**

weighment_data_unique_id must be **globally unique**

Weight units must remain **consistent (Ton / Kg as per backend config)**

API is **idempotent-safe** (duplicate protection recommended)

How Refresh Token Works (Step-by-Step)

Step 1: Login / Authenticate

You receive:

- api_token
- refresh_token

Use API Token

You use the **api_token** to:

- Submit weighment data
- Call secured APIs

API Token Expires

When token_expiry time is reached:

- API calls start failing (Unauthorized / Token expired)

Use Refresh Token

You send **refresh_token** to a refresh endpoint

POST /api/token/refresh

Server Returns New Tokens

Server gives:

- New api_token
- New refresh_token
- New expiry time