

Da Vinci Smart Manufacturing

BRD S08.01 _Lab Analysis_Raw_Material Analysis

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1.0	Leopoldo Rivera Sahana Badal	S08.03 First draft	22/05/2025

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1. Raw Material Analysis

1.1. Raw Material Analysis List Screen

This is designed to provide a comprehensive and user-friendly interface for managing raw material analysis records, including the ability capture, track records in draft (pending) and submitted (complete) states. Below is a detailed layout for this screen.

1.1.1 Header Section

- **Title:** "Raw Material Analysis"
- **Search Bar:** To search by Analysis ID (YY_MAT ID_Sample ID)
- **Filters:**
 - Analysis Date and Time
 - Date Range Picker for
 - Status Filter
 - Multiselect Dropdown
 - Draft/Submitted/Rejected
 - Material Type Filter
 - Multiselect Dropdown
 - Values - Quartz, Coal, Coke, Wood, Charcoal
 - Material ID
 - Multiselect Dropdown
 - Material IDs from Analysis table
 - Clear Filter - This will clear all the applied filters
 - All Filter drop downs should be sorted alphabetically / numerically
 - Filter options will not reset unless the user navigates to a different menu or module. This means any filters applied will persist as long as the user remains within the same menu option, ensuring continuity until a module change occurs.
- **Action Buttons in Header:**
 - **Add New Analysis:** Button to create a new analysis record

1.1.2 Analysis List Section The main area of the screen will feature a data table displaying the raw material analysis records. The table will have the following columns:

Table Default Sorting : Analysis Date and Time in descending order.

- **Material Analysis ID:**
 - A unique System generated ID in the format (YY_Material ID_SampleID)
 - Sorting: Yes
 - Frozen - Yes
- **Material ID:**
 - Entered when creating an analysis record
 - Sorting: Yes
 - Frozen: No
- **Material Name:**
 - Auto-populated based on Material ID
 - Sorting: Yes
 - Frozen: No
- **Material Type :**
 - Shows the Material Type, the material ID belongs to
 - Sorting: Yes
 - Frozen: No
- **Sample Date and Time:**
 - Entered when creating an analysis record
 - Sorting: Yes
 - Frozen: No
- **Sample Type:**
 - Entered when creating an analysis record
 - Sorting: Yes
 - Frozen: No
- **Status:**
 - Draft - During the creation of an analysis record, it can be saved as a draft. This will be indicated by a Draft status.
 - Submitted - During the creation of an analysis record, if the user submits the record, it will be indicated by a Submitted status.
 - Rejected– On the list screen, a user can mark a submitted record as rejected, which will be indicated by a Rejected status
 - Sorting: Yes
 - Frozen: No
- **Note:** Horizontal scroll is required to be able to navigate through all columns and visualize all data but always respecting the frozen columns.
- **Action Buttons:** Based on the status, icon will be displayed on hover:
 - **Draft:**
 - Add Details – Additional details can be included into the analysis record prior to submission.
 - Delete – Selected analysis record will be permanently deleted

Raw Material Analysis Submitted: 5 Draft: 5 Rejected: 35 Add Analysis

Search Filters Share Export View

Analysis ID	Material ID	Material Name	Sample Date & Time	Sample Type	Status	
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	
24_MH36_315_66	MH36_315	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	
24_MBO2_216_1245	MBO2_216	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Rejected	
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Draft	
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Draft	+
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	Delete
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Rejected	

Showing 10 of 80 < 1 2 3 ... 8 > Rows Per Page: 10

Raw Material Analysis Submitted: 5 Draft: 5 Rejected: 35 Add Analysis

Search Filters Share Export View

Analysis ID	Material ID	Material Name	Sample Date & Time	Sample Type	Status	
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	
24_MH36_315_66	MH36_315	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	
24_MBO2_216_1245	MBO2_216	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Rejected	
24_MQ17_312_999	MQ17_312				Submitted	
24_MQ17_312_999	MQ17_312				Draft	
24_MQ17_312_999	MQ17_312				Submitted	
24_MQ17_312_999	MQ17_312				Draft	+
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	Delete
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted	
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Rejected	

Showing 10 of 80 < 1 2 3 ... 8 > Rows Per Page: 10

Delete Analysis

Are you sure you want to delete 25_MBO6_171_77 ? This action cannot be reverted.

Cancel Proceed

- View - Record details can be viewed in non-editable mode
- **Submitted:**
 - View – Record details can be viewed in non-editable mode
 - Edit – Record details can be edited
 - Mark as Rejected – Record status can be changed to Rejected
- **Rejected:**
 - View – Record details can be viewed in non-editable mode
- **Pagination Controls:** Navigation buttons to browse through multiple pages of records, if applicable (for more than 10 records).
- Rows Per page : Default 10, Dropdown values: 10, 20, 30, 40, 50
- Once one spout analysis with the same furnace ID, Date and time has been linked, the remaining records with other reprises both in the status New and Draft will be automatically be changed to Rejected status. Once unlinked in production screen, they will revert to New status.

Export Function: The export function must extract ALL the information including chemical results of the list of records shown based on the combined results of filter selection, sort and search criteria. as the following example:

Analysis ID	Material ID	Material Name	Material Type	Sample Date & Time	Sample Type	Status	Create d By	Modifi ed By
25_MH20_217_1234	MH20_217	HC Clean Carbon 2/12	Coal	16/06/2025 03:43 AM	Original	Draft	super user super user	super user super user
25_MB02_170_12122	MB02_170	Charbon bois Bosnie	Charcoal	15/05/2025 09:23 AM		Submitted	super user super user	super user super user
25_MB02_170_9	MB02_170	Charbon bois Bosnie	Charcoal	14/05/2025 06:24 AM	Original	Submitted	super user super user	sbadal Sahan a Badal

Exported File Name: DDMMYY_RawMaterialAnalysis

Customize Columns: Users can enable or disable all columns based on their preference. Only the enabled columns will be visible in the list. Columns marked as 'frozen' will be enabled by default and cannot be modified.

Analysis ID	Material ID	Material Name	Sample Date & Time	Sample Type	Status
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MH36_315_66	MH36_315	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MB02_216_1245	MB02_216	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Rejected
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Draft
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Draft
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Rejected

1.2. Add Raw Material Analysis Screen

This screen will allow users to input and manage analysis records, organized into two sections: Basic Information and Analysis Values. Mandatory fields will be marked with an asterisk (*). Below is a detailed layout incorporating the requirements.

Header: Back Icon | Add Raw Material Analysis

1.2.1. Basic Details:

- **Material Type*:**
 - A dropdown list to select the type of material.
 - Mandatory - Yes
 - Default value - No
 - Field Type - Single Select Dropdown Values: Charcoal, Coal, Coke, Wood, and Quartz.
 - Validation - No
- **Material ID*:**
 - Mandatory - Yes
 - Default value - No
 - Field Type - Single Select Dropdown
 - Values: Based on the selected Material Type this dropdown is populated with the corresponding active material IDs from the master data.
 - Validation - No
- **Material Name**
 - Auto-populated based on the selected Material ID.
 - Mandatory - Yes
 - Validation: It cannot be edited.
- **Material Description**
 - Auto-populated based on the selected Material ID.

- Mandatory - Yes
- Validation: It cannot be edited.
- **Batch ID:**
 - User input field to enter the batch ID
 - Mandatory - No
 - Default Value - None
 - Validation - All (Including special characters & space), min 0 max 50 characters, zero and space allowed.
- **Sample Date and Time*:**
 - Date and time picker to specify when the analysis was conducted.
 - Mandatory - Yes
 - Default value- Current Date and time will be displayed as default.
 - Field Type Single Date and time picker
 - No Validation
- **Sample ID*:**
 - A user input field to enter the sample ID.
 - Mandatory - Yes
 - Default value- None
 - Validation -Currently: alphanumeric with "-" & "_" without space. min 1 max 20 characters.
- **Sample Type**
 - Single select Dropdown, Values - Original and Resample
 - Mandatory - No
 - Default value- None
- **Sample Source:**
 - Single select Dropdown, Values: None, Cup, Probe, Cast, Grab, Pile, Bag, Truck, Car, Barge, Container
 - Mandatory - No
 - Default value- None
- **Shipment ID:**
 - A user input field for entering the shipment ID.
 - Mandatory - No
 - Default value- None
 - Validation - All (Including special characters & space), min 0 max 50 characters, zero and space allowed.
- **Comments:**
 - Users can input any additional comments.
 - Mandatory - No
 - Default Value - None
 - Field Validation - All (Including special characters), 100 characters

← Add Raw Material Analysis

Basic Details

Material Type: Quartz | Material ID: Select Material ID | Material Name: | Material Description:

Batch ID: Enter Batch ID | Sample Date & Time: Select Date | Sample ID*: Enter Sample ID | Sample Type: Select Sample Type

Sample Source: Select Sample Source | Shipment ID: Enter Shipment ID | Comments: Enter Comments

Analysis Values : Chemistry Elements

Elements	Analysis Values (%)	Elements	Analysis Values (%)	Elements	Analysis Values (%)
Al	0	Hf	0	S	0
As	0	Hg	0	Sb	0
Au	0	In	0	Sc	0
B	0	K	0	Se	0
Be	0	La	0	Si	0

1.2.2. Analysis Values Section:

- This section captures specific analysis values, which vary based on the selected Material Type.
- Values for this section is visible once the material type dropdown is selected.
- Mandatory - No
- Default value: 0
- **Chemical Elements:** This section will have user input fields for each chemical element (e.g., Carbon, Nitrogen, etc.) relevant to the selected material type.
Chemical elements for all raw materials List:
Fe, Si, C, Mn, Cr, Ni, Mo, V, Ti, Al, W, Nb, Co, Zr, B, P, S, Cu, Sn, Pb, Mg, Ca, Zn, As, Sb, Se, Te, Re, Ta, Hf, Sc, Y, La, Ce, Nd, Pr, Sm, Gd, Dy, Er, Be, Li, Na, K, Sr, Ga, Ge, Cd, In, Hg, Pt, Au
- **Physical Elements:** Physical properties related to the selected material type (e.g., Ash, Moisture, etc.)
Physical Elements for all raw materials list: Ash, Moisture, Volatiles.
- **Size Analysis:** Size-related analysis for various screen sizes (e.g., > 125mm, > 100mm etc.). The total of all analysis values (expressed as percentages) will be displayed above the size table. For saving as a draft, values between 0% to 100% are accepted. Upon submission, only 0% or 100% is accepted for desired material types that have been configured with sizing elements in the master data. It is not mandatory to capture this on the sizing report.

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← Add Raw Material Analysis

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Analysis Values : Physical Elements

Elements (in %)	Low	Aim	High
Ash	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Elements (in %)	Low	Aim	High
Moisture	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Elements (in %)	Low	Aim	High
Volatiles	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Analysis Values: Size Analysis

Elements	Analysis Values (%)
> PAN (mm)	<input type="text" value="0"/>
> 1 (mm)	<input type="text" value="0"/>
> 2 (mm)	<input type="text" value="0"/>
> 3.15 (mm)	<input type="text" value="0"/>
> 4 (mm)	<input type="text" value="0"/>

Elements	Analysis Values (%)
> 5 (mm)	<input type="text" value="0"/>
> 6.30 (mm)	<input type="text" value="0"/>
> 8 (mm)	<input type="text" value="0"/>
> 9.50 (mm)	<input type="text" value="0"/>
> 10 (mm)	<input type="text" value="0"/>

Elements	Analysis Values (%)
> 12.50 (mm)	<input type="text" value="0"/>
> 19 (mm)	<input type="text" value="0"/>
> 25 (mm)	<input type="text" value="0"/>

1.2.3. Action Buttons

- **Save Draft:** Saves the record as a draft (Status: Draft) and validates for a unique analysis ID.
- **Submit:** Submits the record as complete (Status: Submitted) and validates for a unique analysis ID.
- **Cancel:** Cancels the current operation and returns to the list screen

1.3. Edit Raw Material Analysis

This screen provides interface for editing existing analysis records, allowing users to update editable fields while keeping essential identifying information non-editable. The ability to save drafts, submit completed records, and view a change history log provides flexibility and transparency in managing the analysis process. Below is a detailed layout incorporating these requirements.

Header: Back Icon | Raw Material Analysis ID - 25_MB02_170_12122

1.3.1. Basic Details:

- This section captures the essential details about the material being analyzed.
- **Material Type:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Material ID:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No

- Mandatory: Yes
- **Material Name**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Material Description:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Sample Date and Time:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Batch ID:**
 - Editable and pre-populated with the existing value.
 - Mandatory - No
 - Default Value - None
 - Validation - All (Including special characters & space), min 0 max 50 characters, zero and space allowed.
- **Sample ID:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Sample Type**
 - Editable and pre-populated with the existing value.
 - Single select Dropdown, Values - Original and Resample
 - Mandatory - No
 - Default value- None
- **Sample Source:**
 - Editable and pre-populated with the existing value.
 - Single select Dropdown, Values: None, Cup, Probe, Cast, Grab, Pile, Bag, Truck, Car, Barge, Container
 - Mandatory - No
 - Default value- None
- **Shipment ID:**
 - Editable and pre-populated with the existing value.
 - Mandatory - No
 - Default value- None
 - Validation - All (Including special characters & space), min 0 max 50 characters, zero and space allowed.
- **Comments:**
 - Editable and pre-populated with the existing value.
 - Users can input any additional comments.
 - Mandatory - No
 - Default Value - None
 - Field Validation - All (Including special characters), 100 characters

1.3.2. Analysis Values Section:

- Values for this section is visible once the material type dropdown is selected.
- Mandatory - No
- Default value: 0
- **Chemical Elements:** Editable and pre-populated with the existing value.
- **Physical Elements:** Editable and pre-populated with the existing value.
- **Size Specifications:** Editable and pre-populated with the existing value.

1.3.3. Action Buttons

- **Save:** Saves the edited record values (Status: Submitted, will have change history recorded)
- **Cancel:** Cancels the current operation and returns to the list screen

Analysis ID	Material ID	Material Name	Sample Date & Time	Sample Type	Status
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MH36_315_66	MH36_315	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MBO2_216_1245	MBO2_216	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Rejected
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Draft
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Draft
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 3Q/120	15/10/2024 03:14 PM	Original	Rejected

Raw Material Analysis ID - 24_MQ17_312_999

Basic Details

Material TypeMaterial IDMaterial NameMaterial Description

QuartzMQ17_312Mina Sonia 30/120Mina Sonia 30/120

Batch IDSample Date & Time*Sample ID*Sample Type

115/10/2024 03:14 PM999Original

Sample SourceShipment IDComments

CarSH123Enter Comments

Analysis Values : Chemistry Elements

Elements	Analysis Values (%)	Elements	Analysis Values (%)	Elements	Analysis Values (%)
Al	1.8	Hf	0	S	0
As	0.2	Hg	0	Sb	0
Au	2.0065	In	0	Sc	0

Cancel

Save Changes

1.4. Add Details Screen

Header: Back Icon | Raw Material Analysis ID - 25_MB02_170_12122

1.4.1. Basic Details:

- This section captures the essential details about the material being analyzed.
- **Material Type:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Material ID:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Material Name**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Material Description:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Sample Date and Time:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Batch ID:**
 - Editable and pre-populated with the existing value.
 - Mandatory - No

- Default Value - None
- Validation - All (Including special characters & space), min 0 max 50 characters, zero and space allowed.
- **Sample ID:**
 - Non-editable and pre-populated with the existing value.
 - Default value - No
 - Mandatory: Yes
- **Sample Type**
 - Editable and pre-populated with the existing value.
 - Single select Dropdown, Values - Original and Resample
 - Mandatory - No
 - Default value- None
- **Sample Source:**
 - Editable and pre-populated with the existing value.
 - Single select Dropdown, Values: None, Cup, Probe, Cast, Grab, Pile, Bag, Truck, Car, Barge, Container
 - Mandatory - No
 - Default value- None
- **Shipment ID:**
 - Editable and pre-populated with the existing value.
 - Mandatory - No
 - Default value- None
 - Validation - All (Including special characters & space), min 0 max 50 characters, zero and space allowed.
- **Comments:**
 - Editable and pre-populated with the existing value.
 - Users can input any additional comments.
 - Mandatory - No
 - Default Value - None
 - Field Validation - All (Including special characters), 100 characters

1.4.2. Analysis Values:

- Values for this section is visible once the material type dropdown is selected.
- Mandatory - No
- Default value: 0
- **Chemical Elements:** Editable and pre-populated with the existing value.
- **Physical Elements:** Editable and pre-populated with the existing value.
- **Size Specifications:** Editable and pre-populated with the existing value.

1.4.3. Action Buttons

- **Save:** Saves the edited record values (Status: Draft)
- **Submit:** Saves the edited record values (Status: Submitted, will have change history recorded)

- **Cancel:** Cancels the current operation and returns to the list screen

Analysis ID	Material ID	Material Name	Sample Date & Time	Sample Type	Status
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MH36_315_66	MH36_315	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MB02_216_1245	MB02_216	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Rejected
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Draft
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Draft
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Rejected

Basic Details

Material Type: Quartz | Material ID: MQ17_312 | Material Name: Mina Sonia 30/120 | Material Description: Mina Sonia 30/120

Batch ID: 1 | Sample Date & Time*: 15/10/2024 03:14 PM | Sample ID*: 999 | Sample Type: Original

Sample Source: Car | Shipment ID: SH123 | Comments: Enter Comments

Analysis Values : Chemistry Elements

Elements	Analysis Values (%)
Al	1.8
As	0.2
Au	2.0065
Hf	0
Hg	0
In	0
S	0
Sb	0
Sc	0

Buttons: Cancel, Save as Draft, Submit

1.5. View Raw Material Analysis

This screen allows users to **view details** of an existing analysis record. All fields are displayed in **read-only mode** by default. Users have access to additional utilities for editing, exporting, and viewing change history.

1.5.1. Header Actions

- **Back Icon | Raw Material Analysis ID - 25_MH20_217_1234 | Edit Icon:** Allows users to switch from view mode to edit mode to update the record.

- **Export Icon:**
 - Enables users to export the analysis details as a CSV file.
 - The tooltip should read “Download CSV”.
 - Downloads the record in CSV format.
 - This option is not available for records in Draft status.
 - The file must include the following headers and display the values as the following example:
 - **Export File Name:** Composed by the following elements:
 - Raw Material Analysis ID
 - “Results”
 - Example: 25_MH20_217_1234_Results

Element Group	Element	Analysis Values (%)	Modified By	Modified At	Created By	Created At
Chemistry Elements	Al	888	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	As	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Au	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	B	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Be	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Chemistry Elements	C	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Ca	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Cd	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Ce	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Co	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Cr	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Cu	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Dy	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Chemistry Elements	Er	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Fe	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Ga	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Gd	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Ge	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Hf	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Hg	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	In	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Chemistry Elements	K	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	La	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Li	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Mg	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Mn	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Mo	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Na	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Nb	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Chemistry Elements	Nd	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Ni	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	P	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Pb	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Pr	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Pt	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Re	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	S	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Chemistry Elements	Sb	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Sc	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Se	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Si	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Sm	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Sn	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Sr	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Ta	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Chemistry Elements	Te	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Ti	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	V	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	W	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Y	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Zn	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Chemistry Elements	Zr	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Physical Elements	Ash	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Physical Elements	Moisture	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Physical Elements	Volatiles	7	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 1 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 2 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 3.15 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 4 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 5 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 6.30 (mm)	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Size Specificati ons	> 8 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specificati ons	> 9.50 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specificati ons	> 10 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specificati ons	> 12.50 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specificati ons	> 16 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specificati ons	> 19 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specificati ons	> 25 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specificati ons	> 30 (mm)	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
Size Specifications	> 37.5 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 50 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 63 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 80 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 90 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 100 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> 125 (mm)	0	super user super user	15/05/2025 09:24 AM	super user super user	15/05/2025 09:24 AM
Size Specifications	> PAN (mm)	0	super user	15/05/2025	super user	15/05/2025

			super user	09:24 AM	super user	09:24 AM
--	--	--	------------	----------	------------	----------

- **View Change History:** This button opens a modal or section showing a chronological list of all changes made to the record, including:
 - Timestamp of change
 - Field(s) modified
 - Previous and updated values
 - Name of the user who made the change
 - **This option is not available for records in Draft status.**
- **Export Icon - Downloads the records in CSV format, the tooltip should read “Download CSV”.**

1.5.2. Basic Information Section (Read-Only)

- Material Type
- Material ID
- Material Name
- Material Description
- Sample Date & Time
- Sample ID
- Sample Type
- Sample Source
- Batch ID
- Shipment ID
- Comments

1.5.3. Analysis Values Section (Read-Only)

This section shows the essential details and analysis values about the material being analyzed recorded in the add analysis screen. All fields are non-editable.

All values are formatted up to **four decimal places and three integers up to 100**, max value capped at **100.0000**.

</

← Raw Material Analysis ID - 24_MQ17_312_999

Basic Details

Material Type

Quartz

Material ID

MQ17_312

Material Name

Mine Sonia 30/120

Batch ID

1

Sample Date & Time

15-10-2024 | 03:14 PM

Sample ID

999

Sample Source

Car

Shipment ID

SH123

Comments

Analysis Values : Chemistry Elements

Elements	Analysis Values (%)	Elements	Analysis Values (%)	Elements	Analysis Values (%)
Al	1.8	Hf	0	S	
As	0.2	Hg	0	Sb	
Au	2.0065	In	0	Sc	
B	0.9935	K	0	Se	
Be	94.55	La	0	Si	
C	0.45	Li	0	Sm	

RAW MATERIAL ANALYSIS CHANGE HISTORY

Date	Username	Element	Old	New
05/01/2025 09:00 AM	JSmithOperator	Al	0	1.9
04/01/2025 09:00 AM	superadmin	Ca	0	1
		Al	0	1
02/01/2025 07:00 AM	superadmin	Coarse Particles (>45um)	0	2.45
01/01/2025 09:00 AM	superadmin	Cl	0	1

1.6. Mark Analysis record as Rejected

Some records with the status **“Submitted”** can be **manually marked as “Rejected”** using a designated icon in the list view.

When selected, a confirmation popup will appear with the message:

“Are you sure you want to mark record 25_MB02_170_12122 as Rejected? This action cannot be reverted.”

Only roles with delete option will be able to Mark an analysis record as rejected.

Raw Material Analysis

Submitted 5

Draft 5

Rejected 35

Add Analysis

Q Search

Filters

Share | Export View

Analysis ID	Material ID	Material Name	Sample Date & Time	Sample Type	Status	
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted	
24_MH36_315_66	MH36_315	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted	
24_MBO2_216_1245	MBO2_216	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Rejected	
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted	
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Draft	
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted	
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Draft	
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted	
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted	
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Rejected	

Showing 10 of 80

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1

2

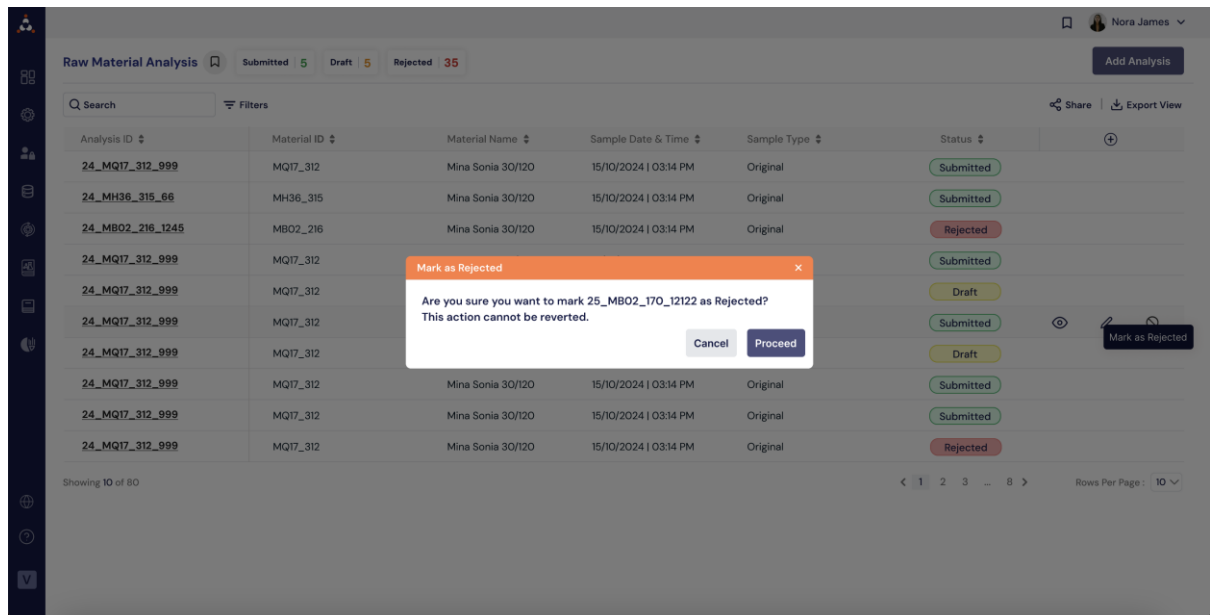
3

...

8

>

Rows Per Page: 10



The screenshot displays the 'Raw Material Analysis' interface. At the top, there are tabs for 'Submitted' (5), 'Draft' (5), and 'Rejected' (35). A search bar and filters are available. The main table lists analysis records with columns: Analysis ID, Material ID, Material Name, Sample Date & Time, Sample Type, and Status. A dialog box titled 'Mark as Rejected' is open, asking for confirmation to mark a specific record as rejected, with 'Cancel' and 'Proceed' buttons.

Analysis ID	Material ID	Material Name	Sample Date & Time	Sample Type	Status
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MH36_315_66	MH36_315	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MB02_216_1245	MB02_216	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Rejected
24_MQ17_312_999	MQ17_312				Submitted
24_MQ17_312_999	MQ17_312				Draft
24_MQ17_312_999	MQ17_312				Submitted
24_MQ17_312_999	MQ17_312				Draft
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Submitted
24_MQ17_312_999	MQ17_312	Mina Sonia 30/120	15/10/2024 03:14 PM	Original	Rejected

*** Across the system, time is stored in the database in UTC format and presented on the frontend in the plant's time zone. It is assumed that the time displayed in the X-ray files is also in the plant's time zone.**