

Budget Estimation (INS-69)

↳ [INS-1225] As a BCO creator, I want to create or compile and submit the budget estimation for Expenditure to BCO Verifier. Created: 08/Dec/25 Updated: 20/Dec/25 Due: 24/Dec/25

Status:	In Review
Project:	IFMIS-NG-SCRUM
Components:	Budget
Affects versions:	None
Fix versions:	None
Parent:	Budget Estimation

Type:	Story	Priority:	Medium
Reporter:	KAMAL SARYAM	Assignee:	KAMAL SARYAM
Resolution:	Unresolved	Votes:	0
Labels:	Estimation_Expenditure_BCO_Creator		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	
Issue links:	Blocks is blocked by INS-1111 As a DDO Creator, I want to submit th... In Review is blocked by INS-1112 As a DDO Verifier, I want to verify t... In Review is blocked by INS-1113 As a DDO Approver, I want to review a... In Review is blocked by INS-1226 As a BCO Verifier, I want to verify ... In Review is blocked by INS-1227 As a BCO Approver, I want to review... In Review is blocked by INS-1228 As a Admin Creator, I want to review ... In Review
Sprint:	
FRS ID:	A.31, A.32, A.33, A.34, A.35, A.37, A.38, A.46, A.47, A.53, A.55, A.56
Team:	
Start date:	08/Dec/25
Work Item Reviewer:	ASHISH NANDANWAR
Approvers:	ASHISH NANDANWAR

Description**1. User Story**

As a **BCO Creator**,

I want to create , review, edit, and consolidate scheme-wise budget estimations.

so that:

- I can view DDO-wise submission status under each scheme.
- I can generate system-based estimates for DDOs who have not submitted their budget.
- I can accept DDO submissions individually or in bulk for consolidation.
- I can edit estimates submitted by DDOs, if required.
- I can consolidate multiple DDO submissions into a single BCO-level estimate for each Budget Line.
- I can open new budget line for approval and enter token amount 1 Thousand.
- I can enter outcome related information such as SC/ST/Women/Youth ,SDG, MDPI, Youth, Geography, Sector etc for applicable schemes.
- I can view overall ceiling validation and enter extra amount if required at BCO level.
- I can submit consolidated estimates to the BCO Verifier for further review.

1. Pre-Conditions

- System configuration exists for **auto-generation of estimates** based on previous year data.
- Budget Estimation cycle is initiated by the Finance Department.
- DDO Approvers may or may not have submitted their budget estimates for the relevant financial year.
- Budget Lines are mapped to Schemes and DDOs under the BCO.
- Scheme master data is available indicating:
 - Various Outcome such as SC/ST/Women/Youth ,SDG, MDPI, Youth, Geography, Sector mapping is applicable
- Ceiling limits are defined by Finance Department at Department.
- Past expenditure, BE, RE, MTE, and actuals data are available through system integrations (AG / IFMIS / HRMS).

1. Process Flow – BCO Creator**Navigation**

- Login → Budget Estimation → Budget Preparation
- System displays a **Scheme-wise list of Budget Lines** mapped to the BCO.
- Each Budget Line shows:

- Scheme Name
- HoAs
- Number of DDO submissions received.
- Consolidation status (Draft / In Progress / Submitted)

View DDO-wise Submissions

- On selecting a Scheme → Budget Line:
 - System displays DDO-wise estimates in a tabular view:
 - DDO Code & Name
 - RE (Current Year)
 - BE1, BE2, BE3
 - Breakup entered (Yes/No)
 - Submission status
 - Accepted by BCO (Yes/No)

Review & Edit DDO Data

- BCO can open any DDO submission to:
 - View complete budget details and breakup data
 - Edit RE / BE values if required
 - Edit breakup details (item-wise / salary-wise etc.)
 - Add or modify remarks
- All edits are captured in audit trail.

System-generated Estimates for Non-submitted DDOs

- For DDOs with status **Not Submitted**, BCO can:
 - Generate system-based estimates using:
 - Previous year BE/RE
 - Salary auto-calculation rules
 - Based on trend/average logic
 - All values shown are in Thousands.
- Generated submissions are marked as **System Generated**.
- BCO can review, edit, and accept these estimates.

Accept & Freeze DDO Submissions

- BCO can:
 - Accept individual DDO submissions
 - Accept multiple selected DDO submissions
 - Accept all DDO submissions at once
- On acceptance:
 - Submission is included in consolidation
 - Submission becomes read-only for DDO.
- BCO can freeze submissions to prevent further DDO edits by accepting system generated submission.

Consolidation at BCO Level

- All values entered are in Thousands.
- Consolidation includes only BCO-accepted DDO submissions.
- System-generated submissions are included only after BCO acceptance.
- Consolidation includes:
 - Aggregation of RE, BE1, BE2, BE3
 - Consolidated breakup totals
- **New Budget Line open by BCO**
- New Budget line may be added by BCO Creator for approval and only token amount is entered (1000 Rs=1 Thousand)
- New Budget line will have different colour to show it is new budget line for approval. Further edits will not be permitted at any level.

Planning Fields (Conditional by Scheme)

- Based on Scheme configuration, system conditionally displays:
 - Outcome mapping such as SC/ST/Women/Youth ,SDG, MDPI, Youth, Geography, Sector mapping is applicable
 - These fields appear only for schemes where planning tagging is applicable.
- Planning fields are entered once per scheme at consolidated level, not for DDO or for each budget lines.

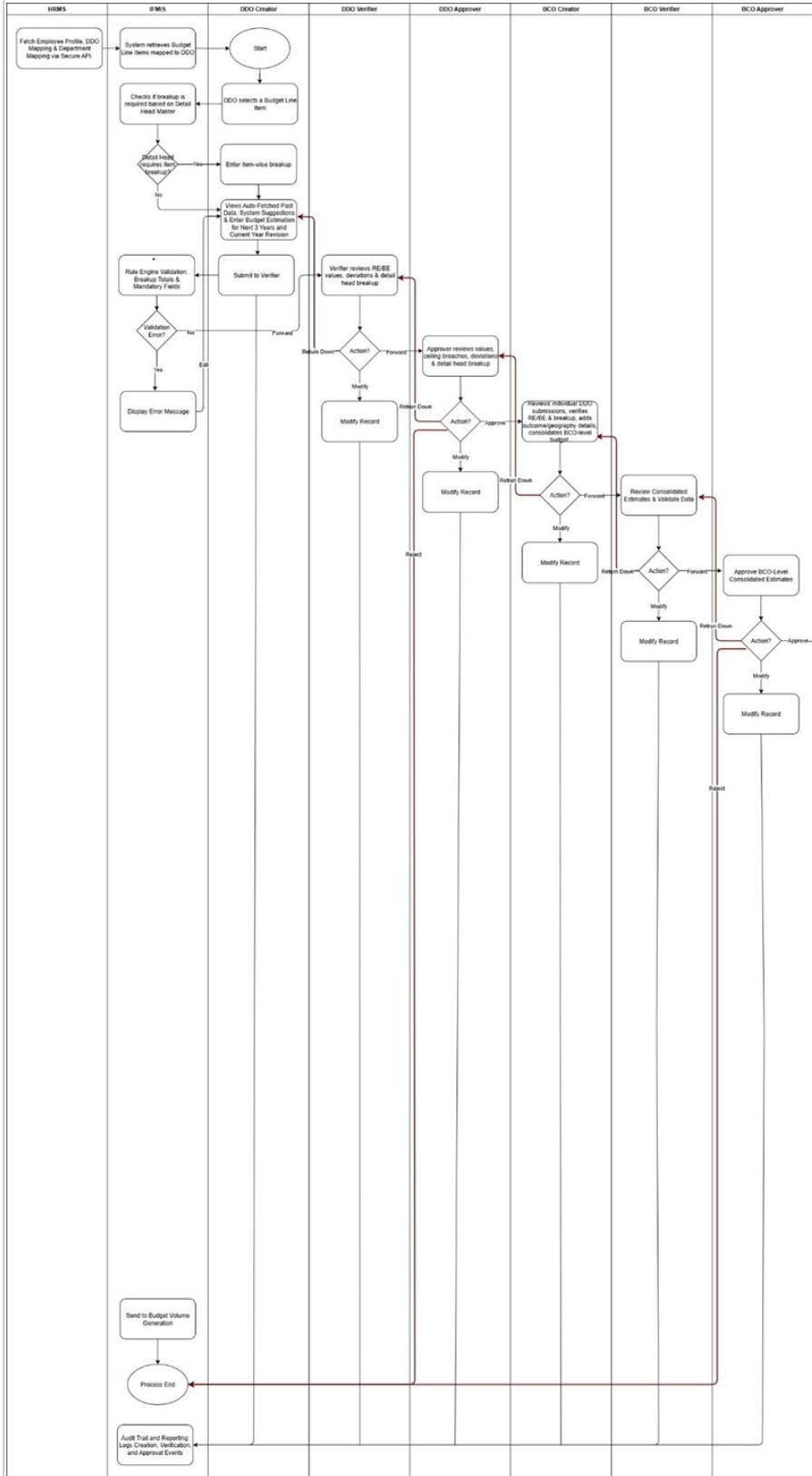
Ceiling Validation

- System validates overall ceiling applicable to the BCO.
- If consolidated BE exceeds ceiling:
 - System flags "Exceeds Ceiling"
 - Separate entry for exceeded ceiling amount and justification with supporting document become mandatory.
- Ceiling is not checked at individual budget-line level, only at overall consolidated level.

Save & Submit

- BCO can:
 - Save consolidated estimates as Draft
 - Submit consolidated estimates to BCO Verifier
- On submission:
 - Status updates to *Submitted*
 - Workflow moves to BCO Verifier

1. Process Flow Diagram



1. Rule Engine / Business Rules

Rule ID	Rule Name	Category	Trigger / Event	Input Parameters / Data Fields	Logic / Formula / Condition	Effective From	Owner Department / Editable By	Parameter Name	Data Type
RM_BCO_01	DDO Submission Visibility	Access / Data Rule	On opening BCO Worklist	BCO Code, Scheme Code	Show only budget lines & DDO submissions mapped to logged-in BCO	Budget Cycle Start	Budget Admin	Mapping Rule	Text
RM_BCO_02	Scheme-wise Budget Line Display	UI Behavior	On Scheme selection	Scheme Code	Display budget lines only under selected scheme	Budget Cycle Start	System	Scheme Filter	Enum

RM_BCO_03	DDO-wise Consolidation Rule	Calculation	On Consolidation action	DDO-wise RE, BE1, BE2, BE3	Consolidated Value = Σ (DDO values)	Budget Cycle Start	Budget Module	Consolidation Formula	Numeric
RM_BCO_04	Planning Fields Visibility Rule	Conditional UI	On Budget Line load	Scheme Code	Show Outcome/Geography/Tags only if scheme.requiresPlanning = Yes	Budget Cycle Start	Planning Dept	Planning Flag	Boolean
RM_BCO_05	DDO Submission Acceptance Rule	Workflow / Data Governance	On BCO clicking "Accept" on DDO submission	DDO Submission ID, Acceptance Flag	Only submissions explicitly accepted by BCO are marked as eligible for consolidation	Budget Cycle Start	Budget Module	Acceptance Flag	Boolean
RM_BCO_06	System-generated Submission Rule	Data Generation	On Generate System Estimate	DDO Code, Previous Year BE/RE, Salary Rules	System creates draft submission using historical and rule-based data	Budget Cycle Start	Budget Module	Submission Source	Enum
RM_BCO_07	Automatic Freeze on Acceptance Rule	Data Lock / Governance	On BCO accepting any submission (DDO/System)	Acceptance Flag, Submission ID	If Acceptance Flag = True → Submission status set to Frozen	Budget Cycle Start	System	Freeze Flag	Boolean
RM_BCO_08	Bulk Acceptance Rule	Workflow	On "Accept Selected / Accept All" action	List of Submission IDs	All selected submissions are accepted and auto-frozen in one transaction	Budget Cycle Start	Budget Module	Bulk Action	Enum
RM_BCO_09	Consolidation Inclusion Rule	Calculation	On Consolidation calculation	Accepted Submission List	Consolidated values = Σ (Accepted Submissions only)	Budget Cycle Start	Budget Module	Inclusion Criteria	Text
RM_BCO_10	DDO Edit Restriction After Freeze	Access Control	On DDO trying to edit submission	Freeze Flag	If Freeze Flag = True → DDO edit blocked; view-only mode	Budget Cycle Start	Workflow Admin	Edit Permission	Boolean
RM_BCO_11	Outcome % Validation	Validation	On saving Outcome data	Outcome % values	Σ Outcome % ≤ 100	Budget Cycle Start	Planning Dept	Max Outcome %	Numeric (%)
RM_BCO_12	Geography % Validation	Validation	On saving Geography mapping	Geography % values	Σ Geography % ≤ 100	Budget Cycle Start	Planning Dept	Max Geography %	Numeric (%)
RM_BCO_13	Social Tag % Validation	Validation	On saving Social Tags	SC/ST/Women/Child/Youth %	Σ SC/ST/Women/Child/Youth % ≤ 100	Budget Cycle Start	Planning Dept	Max Social Tag %	Numeric (%)
RM_BCO_14	Ceiling Validation (Overall)	Validation	On Submit	Consolidated BE1, BCO Ceiling	If BE1 > Ceiling → Flag exceed	Budget Cycle Start	Finance Dept	Ceiling Amount	Numeric
RM_BCO_15	Ceiling Justification Rule	Conditional Validation	On Submit	Exceeds Ceiling Flag	If Exceeds Ceiling = Yes → Justification + Attachment mandatory	Budget Cycle Start	Finance Dept	Justification Required	Boolean
RM_BCO_16	Breakup Aggregation Rule	Calculation	On consolidation	Breakup totals from DDOs	BCO Breakup = Σ DDO breakup values	Budget Cycle Start	Budget Module	Breakup Formula	Numeric
RM_BCO_17	Mandatory Field Check	Validation	On Save / Submit	Required fields list	All mandatory fields must be filled	Budget Cycle Start	Budget Admin	Mandatory Fields	Text
RM_BCO_18	Audit Trail Rule	Audit	On Edit / Save / Submit	Old & New values	Capture before-after values with user & timestamp	Budget Cycle Start	System	Audit Flag	Boolean

1. Acts, Rules and Circulars Referenced

- Budget Manual of Madhya Pradesh (2012), Page 149, Point 12
- Madhya Pradesh Financial Code, Volume-I, Page 362 of 378 – Annexure III: Reference Rules & Acts

1. Acceptance Criteria

- BCO can generate system-based estimates for DDOs who have not submitted.
- BCO can accept DDO submissions individually or in bulk.
- Only accepted DDO submissions are included in consolidation.
- BCO can freeze DDO submissions, preventing further DDO edits.
- System-generated submissions remain editable until accepted by BCO.
- Each budget line clearly shows DDO-wise submissions and their status.

- BCO Creator can open and review each DDO submission individually.
- BCO Creator can edit RE, BE, breakup, salary and remarks for DDO submissions.
- All edits made by BCO Creator are recorded in audit trail.
- System automatically calculates consolidated RE, BE1, BE2, BE3 from all DDO submissions.
- BCO Creator can view DDO-wise totals vs consolidated totals on the same screen.
- Consolidated values are system-derived and consistent with DDO data.
- Planning data is entered once at consolidated level, not per DDO.
- System validates overall BCO-level ceiling on submission.
- If consolidated BE exceeds ceiling:
 - "Exceeds Ceiling" flag is auto-set.
 - Justification text becomes mandatory.
 - Supporting document upload becomes mandatory.
- If ceiling is not exceeded, justification fields remain hidden.
- BCO Creator can save work as Draft without triggering validations.
- On successful submission, request moves to BCO Verifier.
- Submitted records become read-only for BCO Creator.
- BCO can view submission status for all DDOs under a scheme.

1. Internal Module Integration

- e-HRMIS
- Purchase Inventory

1. External Module Integration

Not Applicable

10. Fields: Refer [Budget_Estimation_BCO_Fields.docx](#)

11. Wireframe

The wireframe illustrates the BCO Creator interface for budget consolidation. It shows a navigation bar at the top with 'Budget Estimation' and 'Budget Preparation'. The main area is titled 'BCO Creator – Scheme-wise Budget Consolidation'.

Scheme-wise Budget Lines: Displays two schemes: National Health Mission (HDA 2210-01-101, 3/5 submissions, In Progress) and Education Infrastructure (HDA 2202-02-109, 5/5 submissions, Draft).

DDO-wise Submissions – NHM: A table showing DDO submissions with columns: DDO, RE, BE1, BE2, BE3, SOURCE, STATUS, ACCEPTED, and ACTION. Two entries are shown: DDO-101 Health (RE 12.50, BE1 14.00, BE2 15.20, BE3 16.00, SOURCE DDO, STATUS Submitted, ACCEPTED Yes) and DDO-104 CHC (RE 8.20, BE1 9.00, BE2 9.50, BE3 10.00, SOURCE System, STATUS Generated, ACCEPTED No).

Consolidated Totals (Accepted Only): Shows Total RE 12.50, Total BE1 14.00, and Total BE2 15.20.

Planning & Outcome Mapping (Scheme Applicable): Allows mapping outcomes to SDGs. An example entry shows SC / ST Development mapped to SDG 3 – Health.

Ceiling Validation: A section where users can enter BCO Ceiling (₹ Cr) and Consolidated BE1 (₹ Cr). A warning message states: "BE1 exceeds ceiling. Justification and attachment are mandatory." The user has entered 13.50 for BCO Ceiling and 14.00 for Consolidated BE1, with the 'Exceeds Ceiling' checkbox checked.

Additional Demand Justification: A text input field for providing justification for exceeding the ceiling.

At the bottom right are 'Save Draft' and 'Submit toVerifier' buttons.

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