

Rudaya Enterprise Suite 19.3.1 Construction Setup Guide

Release RES 19.3.1 · Version 19.3.1 · Windows 64-bit

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RUDAYA POWERS PVT. LTD.

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Follow these steps in order to run construction projects in Rudaya Enterprise Suite (RES) 19.3.1: project scope, bill of quantities (BOQ) and estimate, contractor work orders, and progress billing with retention. Most contractors can complete setup in two working days and add their first live project on day three.

Before you start

The Construction package (**Construction > Projects & Job Costing**) keeps each project's scope, BOQ estimate, contractors, materials, work orders and progress bills together, with a cost summary per project. A project can start from an approved customer Sales Order, so the agreed scope flows in without retyping.

Have these ready:

What	Why you need it
A Windows server or PC for the Suite	Rudaya runs on your own hardware; staff use it from a web browser
Your RES licence, including Construction	The screens appear only when the package is licensed and switched on
Company details, GSTIN and PAN	Company profile and tax settings
List of current projects: code, name, client, site address, planned start and finish	Projects
BOQ for each project: work items, units, quantities and rates	Estimates
Contractors and subcontractors: name, GSTIN, contact	Work orders
Materials you buy: name, unit and standard rate	Work orders and costing
Staff list with duties	One sign-in and role per person

Who does what. Your administrator does Parts A and B once. Project managers and site engineers then follow Parts C and D for every project.

New in RES 19.3.1. Order Tracking (Sales > Order Tracking) follows each Sales Order to closure and shows the projects created from it, certified billing and bills awaiting certification; the order cannot be closed until every project is completed. A progress bill waiting for certification is emailed to users with construction.manage (never the preparer), with reminders; the preparer gets the outcome. Also in 19.3.1 for every edition: Standard Quote and Standard Invoice layouts, approval email alerts, removing a user with handover, and installer windows that fit laptop screens. See the RES 19.3.1 User Manual.

New in RES 19.3. The 30-day trial and Enterprise Plus licences also open GST Dashboard, Tax Classification, Purchase Register analysis, cash-flow forecasts and FX actuals under Finance (User Manual, section 9). An upgrade from RES 19.1 or RES 19.2 needs no new activation. The steps in this guide are unchanged from RES 19.2. Since RES 19.2: Setup does not require the PostgreSQL ODBC driver, and bank connections, AI suggestions in Finance using a local model and e-invoice settings are optional additions.

Part A: Install and activate (administrator, once)

Step 1. Install Rudaya Enterprise Suite

You need a 64-bit Windows computer or server, a Windows administrator account, port 5111 free, and a current Edge, Chrome or Firefox browser.

Install in this order: PostgreSQL 17, then Rudaya. Each step must finish before the next one starts. The PostgreSQL ODBC driver is optional.

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1a. Install PostgreSQL 17

1. Download the PostgreSQL 17 installer for Windows x64 from postgresql.org/download/windows.
2. Run it as administrator. Keep port **5432** and set a strong password for the `postgres` administrator account. Keep this password safe; Rudaya Setup asks for it.
3. Finish the installation. Stack Builder is not needed.

1b. PostgreSQL ODBC driver (optional)

1. Rudaya does not use the ODBC driver. Install it only if another program on this computer needs it: download the 64-bit Windows installer psqlodbc_x64.msi from the official PostgreSQL ODBC site.
2. Run it as administrator and accept the defaults.
3. To check it, open ODBC Data Sources (64-bit) from the Start menu. On the Drivers tab, PostgreSQL Unicode(x64) is listed.

The driver is not included in the Rudaya installer. Rudaya Setup shows it as optional and continues without it. Upgrading from RES 19.1, 19.2 or 19.3: run the 19.3.1 Setup as administrator and choose Upgrade; your data, settings and activation are kept and no new activation is needed.

1c. Install Rudaya Enterprise Suite

1. Download `RudayaEnterpriseSuite-19.3.1-Setup.zip` from rudayapowers.com (Trial & downloads).
2. Check the download. In PowerShell, in the download folder, run `Get-FileHash -Algorithm SHA256 .\RudayaEnterpriseSuite-19.3.1-Setup.zip`. The result must match the checksum on the download page exactly.
3. Extract the ZIP, right-click `RudayaEnterpriseSuite-19.3.1-Setup.exe` and choose **Run as administrator**. If Windows shows “Windows protected your PC”, choose **More info**, check the file name, then **Run anyway** (only if the checksum matched).
4. Choose **Install**. On **Connection & data**, choose **connect to an existing PostgreSQL 17 server** and enter address `localhost`, port `5432`, the `postgres` account and its password.
5. Enter a database name and an application database account (for example `rudaya_app`), review the summary and choose **Install**.
6. When installation finishes, the **Setup Wizard** opens in your browser.

Step 2. Complete the Setup Wizard

1. Accept the licence agreement and create the first **application administrator**.
2. Enter your company details.
3. **Activate your licence:** download the activation request, email it to sales_rudaya@rudayapowers.com asking for **Construction**, then import the signed response Rudaya sends back. Never email passwords.
4. In **Industry Bundles and Core modules**, select **Construction**, finish, and sign in at http://localhost:5111.

The wizard session lasts 15 minutes, but saved steps are kept; choose **Open Setup Wizard** in the installer to continue. A 30-day trial is available. Packages can be switched on later under **Administration > Licensing > Installed packages**.

Site offices: engineers on other PCs reach the Suite over your network once your administrator enables HTTPS (script Enable-RudayaIntranetHttps.ps1). Contact Rudaya support for help.

Part B: Company and users (administrator, once)

Step 3. Company and commercial settings

1. In **Administration > Settings**, complete the company profile and logo.
2. In **Commercial Settings**, save your base currency (INR), payment-term defaults and quotation validity.
3. Enter your **GSTIN** and check it against your registration certificate (live GST lookup is not configured).

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Step 4. Users and roles

Give each person their own account in **Administration > Users & roles**.

Person	Role to start from	Does in Construction
Owner or IT person	Admin	Settings, users
Project manager	A role with Construction management access	Projects, BOQ, contractors, approvals
Site engineer	A role with Construction access	Draft work orders and progress bills
Sales or estimating	Sales Engineer / Sales Manager	Quotations and sales orders for clients
Accountant	Finance	Invoices, payables, reports

If an action shows a permission message, grant access under **Users & roles > Governed permission assignments**, with a recorded reason.

Step 5. Import your clients

In **Sales > Customers**, download the **customer import template**, fill it in, **Preview**, then import. Existing rows are skipped, never duplicated. Add contacts, tax registrations, sites and payment terms on each customer afterwards.

Part C: Projects, contractors and materials (project manager)

All of Part C is in **Construction > Projects & Job Costing**.

Step 6. Add your contractors

Under **Contractors**, choose **Add contractor** and enter the **Contractor name**, **GSTIN** (optional), **Contact name** and **Phone**. Choose **Save contractor**. Repeat for every contractor and subcontractor.

Step 7. Add your materials

Under **Materials**, enter the **Material name**, unit and **Standard unit rate** (e.g. Cement, bag, 420). Choose **Save material**.

Step 8. Create a project

The best route is from the client's approved **Sales Order** (quotation, approval, acceptance), so the agreed scope and prices come across exactly.

1. Choose **New project**.
2. Under **Sales Order source**, pick the client's Sales Order. For an older project with no Sales Order in Rudaya, choose **Legacy project without a Sales Order**.
3. Enter the **Project code**, **Project name**, **Customer**, **Site address**, **Planned start** and **Planned finish**.
4. Under **Project scope**, enter the quantity of each Sales Order line that belongs to this project. Leave a line blank to exclude it.
5. Choose **Create project**.

Step 9. Build the BOQ and estimate

Open the project and go to **Bill of quantities & estimate**.

- Lines from the Sales Order show the **Net sales price** and **Agreed sales value**. This agreed BOQ cannot be edited or extended by hand.

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- For your own cost estimate, choose **New estimate line**: **Work description**, unit, quantity and **Estimated unit rate**, then **Add estimate line**.

The **Project estimate & cost summary** at the top then shows the BOQ estimate against work orders, progress bills, retention and net progress value.

Part D: Running a project (project manager and site engineer)

On each project, work orders are drafted and then issued by a different authorised user; progress bills are raised each period with retention held back and certified the same way.

Step 10. Raise work orders

In **Work orders > New work order**:

1. Select the **contractor** and the **material** (or scope).
2. Enter a **Work order number**, quantity and **Unit rate**.
3. Choose **Save draft work order**.
4. A different user with the Construction manage permission opens it and issues it (**Issue**). To cancel instead, give a **Cancellation reason**. The person who prepared the work order cannot issue it; they see *You prepared this work order, so a different authorised user must issue it.*

Step 11. Raise progress bills with retention

At the end of each billing period, in **Progress bills > New progress bill**:

1. Enter the **Progress bill number** and, if it relates to one, the **Related work order**.
2. Enter **Period from** and **Period through**.
3. Enter the **Gross progress amount** and the **Retention (%)** from the contract, e.g. 5.
4. Choose **Save draft progress bill**. The list shows **Gross**, **Retention held** and **Net value**.
5. A different user with the Construction manage permission certifies the bill (**Certify**). The person who prepared it cannot certify it.

Step 12. Track the project

- The **Project estimate & cost summary** shows the BOQ estimate, draft work orders, draft progress bills, retention tracked and net progress value.
- Open the **project report** for a full view of one project.
- The **Construction tender review workbench** prepares a rule-based preview, e.g. an illustrative retention percentage, from saved records. It only saves a planning draft; it is not a certified bill.

Step 13. Bill the client

Customer invoices are raised in **Finance > Invoices** from the client's quotation or Sales Order (enter the quotation ID, **Load quotation**, **Create draft invoice**, then **Issue and generate PDF**). Use the net progress value as your guide for each period's invoice.

Part E: Workflow design (administrator and managers)

This part shows how Construction work flows through Rudaya Enterprise Suite, who does each step, and where a second person must approve. Agree it with your managers and set up the approvals once, before go-live.

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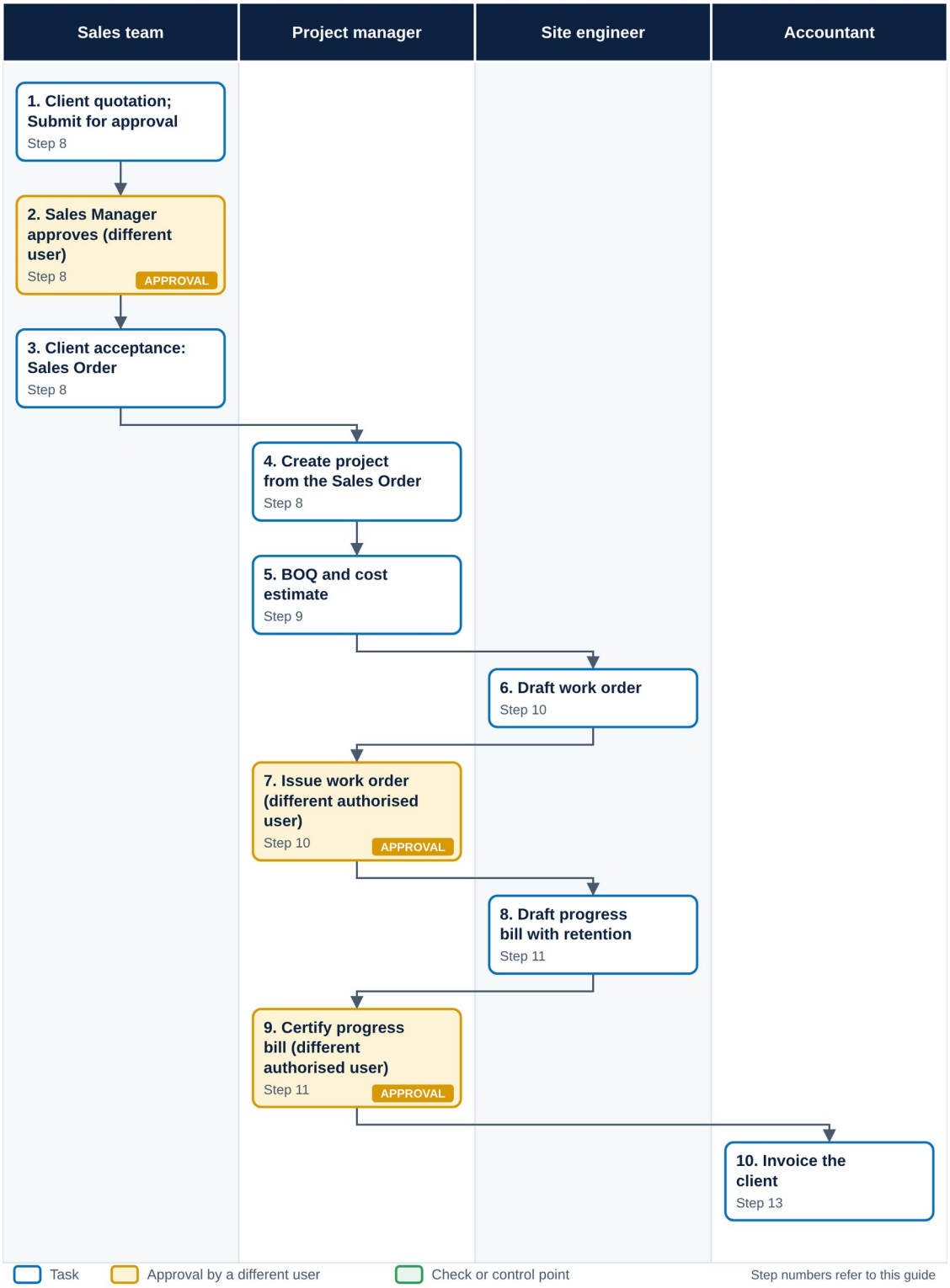
Process flow

A project starts from the client's approved Sales Order. On site, the site engineer drafts work orders and progress bills; a different user with the Construction manage permission must issue each work order and certify each progress bill.



Read the flow top to bottom. Each column is a person or team; step numbers refer to this guide.

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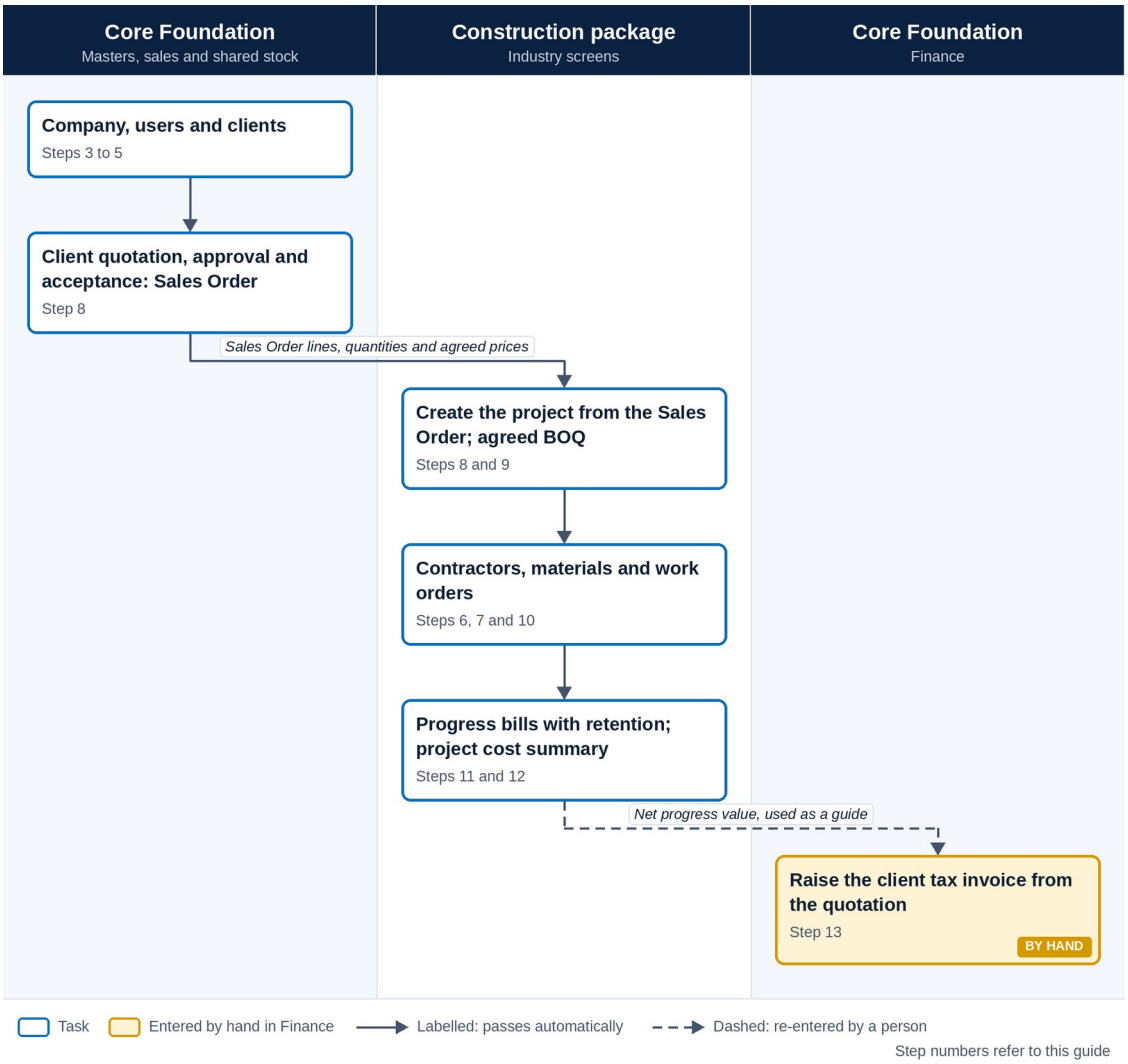
Core Foundation integration workflow

Construction runs on Core Foundation. The client, the quotation and the Sales Order are Core records; the project, BOQ, work orders and progress bills are Construction records; the client tax invoice is raised in Core Finance.

This diagram is separate from the process flow above. The process flow shows who does each step; this one shows where each step is done and what passes between Core Foundation and Construction.



Read the flow top to bottom. The left and right columns are Core Foundation; the middle column is Construction. A labelled arrow shows what passes automatically; a dashed arrow shows what a person enters again. Step numbers refer to this guide.

What Core Foundation provides. Each Core Foundation item that Construction depends on, and how the information passes.

Core Foundation item	How Construction uses it	How it passes
Customers (Sales > Customers)	The client on the quotation, Sales Order and project.	Automatic
Quotation and Sales Order	Source of the project scope and the agreed BOQ. Lines that came from the Sales Order cannot be edited; a change needs a revised quotation and Sales Order.	Automatic
Finance > Invoices	Client tax invoices are raised from the quotation. Progress bills are not tax invoices.	By hand

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Core Foundation item	How Construction uses it	How it passes
Users, roles and approvals	One sign-in for each person. Construction access is given through roles; issuing a work order and certifying a bill need a different authorised user.	Automatic

What stays separate in RES 19.3. Plan for these points before go-live.

- **Kept in Construction only.** Contractors, materials, work orders and progress bills. They are not Core suppliers, catalogue products or accounting entries.
- **No posting to accounts or GST.** Progress bills do not post. Use the net progress value as the guide for each invoice you raise in Finance > Invoices.
- **Direct sales orders.** They are not invoiced from the Invoices screen. Use the quotation route for projects you will invoice in Rudaya.

Approvals and checks

Rudaya enforces a maker–checker rule on the server for quotations, direct sales orders, supplier bills, supplier payments, bank postings and the approval policies themselves: the person who prepares a record cannot approve it. There is no central approval inbox. Waiting requests are listed in each area, for example Finance > Adjustment approvals and Requests waiting under Finance > Payables > Bill & payment controls.

Approval or check	Prepared by	Approved or checked by	Where
Quotation	Sales Engineer saves it and chooses Submit for approval	A different user with approval permission (Sales Manager) enters a reason and chooses Approve or Reject	Sales > Quotation Center
Work order	Site engineer chooses Save draft work order	A different user with the Construction manage permission issues it. The person who prepared it cannot issue it	Construction > Projects & Job Costing > Work orders
Progress bill	Site engineer chooses Save draft progress bill	A different user with the Construction manage permission certifies it. The person who prepared it cannot certify it	Construction > Projects & Job Costing > Progress bills
Supplier bill and its payment (once switched on)	Finance user records the supplier bill or payment	A different user holding finance.bill.approve approves the bill; another holding finance.payment.authorise authorises the payment. No built-in role holds these permissions	Finance > Payables > Bill & payment controls (Requests waiting)
Finance adjustment	Finance user prepares the adjustment	A different user approves it under the finance adjustment approval policy	Finance > Adjustment approvals

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Approval or check	Prepared by	Approved or checked by	Where
Bank Intelligence posting (if used)	Creator prepares the draft; a reviewer records a human review; the creator submits for posting approval	A different user approves under the bank posting approval policy; a user with posting permission chooses Post exact approved settlement	Finance > Bank Intelligence

Approval settings in RES 19.3.1

RES 19.3.1 has no screen for drawing a custom approval chain. Approvals are controlled by these settings:

Setting	Where	How it works in 19.3.1
User grades and positions	Administration > Users & roles > User grades and approval authority	Active
Workflow grade rules (a permission needs a minimum grade)	Same panel	Active
Monetary approval limits per user	Same panel	Saved only; not enforced in 19.3.1
Direct Sales Order approval policy	Sales > Quotation Center > Direct Sales Orders	Active once set
Purchase order approval policy	Sales order procurement > Approval policy	Active once set
Finance adjustment approval policy	Finance > Adjustment approvals	Active once set
Bank posting approval policy	Finance > Bank Intelligence > Approval policy	Active once set
Supplier bill approval and supplier payment authorisation	Finance > Payables > Bill & payment controls	Off until two people switch them on; then permanent

Each “active once set” policy is proposed by one person and approved by a different person, with an approval window and a validity period. Until a policy exists, that kind of approval cannot be completed.

Set up approvals (administrator, once)

1. Decide who prepares and who approves for every row in the approvals table. Each approval needs at least two people, because no one can approve their own record.
2. In Administration > Users & roles, give preparers and approvers different roles. For example, Sales Engineer prepares quotations and Sales Manager approves them.
3. In Users & roles > User grades and approval authority, give each person a grade and position, and add workflow grade rules where a permission should need a minimum grade. You can record monetary approval limits there, but 19.3.1 does not enforce them yet.
4. Give the Construction manage permission to at least two people, for example the project manager and a deputy. Whoever prepares a work order or progress bill cannot issue or certify it, so another manage-permission holder must.
5. Supplier bill approval and supplier payment authorisation need the permissions finance.bill.approve and finance.payment.authorise, which no built-in role holds. Create two custom roles, one for each, and give

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them to different people. Grant any other extra permissions under Users & roles > Governed permission assignments, with a recorded reason.

6. Set up each approval policy you will use: Direct Sales Order (if you take orders without a quotation), purchase order (if you use procurement), finance adjustment, and bank posting (if you use Bank Intelligence). One person proposes the policy with its approval window and validity; a different person approves it.
7. When you are ready, two people switch on supplier bill approval and payment authorisation in Finance > Payables > Bill & payment controls. Once on, they cannot be switched off.
8. Test the workflow with two accounts before go-live: prepare a record as one user, approve it as another, and check that the first user cannot approve their own record.
9. Show each approver where their requests wait, because there is no single inbox.

Small team? You still need two people for every approval. If only one person works in an area, choose a second approver, such as the owner, before go-live.

Part F: Go live

Go-live checklist

☐ Construction switched on (Administration > Licensing > Installed packages)

☐ Company details, INR currency and GSTIN saved

☐ One account per person, with Construction access where needed

☐ Clients imported; contractors and materials saved

☐ Each running project created, with its scope and BOQ

☐ Test run done: work order issued, progress bill with retention, project summary

☐ Regular backups scheduled in Administration > Backup & Recovery

What is not included in RES 19.3.1

- **Progress bills are not tax invoices** and do not post to accounts or GST. Raise the client's tax invoice in Finance > Invoices.
- **The agreed BOQ is fixed.** Lines that came from the client's Sales Order cannot be edited; changes need a revised quotation and Sales Order.
- **Planning results are drafts.** The tender review workbench never creates work orders or bills.
- **Direct sales orders are not invoiced** from the Invoices screen. Use the quotation route for projects you will invoice in Rudaya.

Troubleshooting

You see	What to do
Construction shows **Not installed**	Switch it on under Licensing > Installed packages; check your licence includes it
No construction projects have been added yet	Create your first project (Step 8)
The agreed BOQ is immutable Sales Order scope	Add your own cost lines as estimate lines, or revise the quotation and Sales Order
Check the current project records before retrying	Choose **Refresh construction records**, check the record, then try again once
A permission message	Ask your administrator to grant Construction access
A message with a reference ID	Send the reference ID and a screenshot to support

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Support

- Email **sales_rudaya@rudayapowers.com** or call **+91 020-46761610**.
- Video tutorials: the Rudaya Enterprise Suite YouTube channel.
- Include the product version shown in the app, your workspace name and a screenshot. Never send passwords, licence keys or customer data.

Based on the RES 19.3.1 User Manual, the RES 19.3.1 Installation Guide (released 21 November 2026) and the Construction screens as they are in RES 19.3.1.

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