



BHULOG User Manual

Version 1

BHULOG Geotech Solutions
Dadar, Mumbai, INDIA.



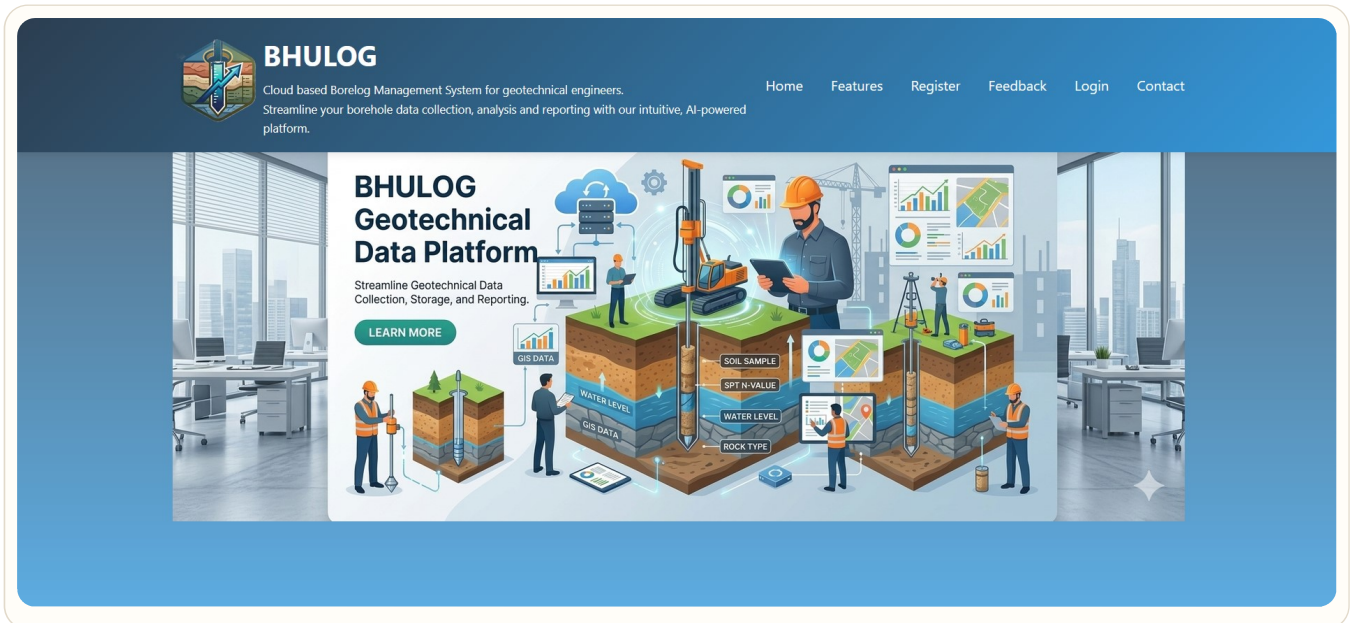
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Home Page



BHULOG is an Indian cloud-based Borelog Management System designed to streamline borehole data collection, analysis, and reporting for geotechnical engineers. The platform utilizes intuitive, AI-powered tools to simplify workflows between field sites and the main office.

Core Features :

Automated Data Processing: Creates detailed borelogs with instant soil classification and water level calculations.

Real-Time Collaboration: Offers secure cloud storage for unlimited projects with multi-user sync.

Mobile Field Access: Enables field teams to log data on-site using any mobile device.

Advanced Analytics Tools: Automatically generates professional reports, subsurface cross-sections and 3D models.

Enterprise Security: Ensures GDPR compliance with secure audit trails for all data modifications.

Please Register for 15 days free trial.



Submit Feedback/ Free Registration

**BHULOG**
Cloud based Borelog Management System for geotechnical engineers.
Streamline your borehole data collection, analysis and reporting with our intuitive, AI-powered platform.

[Home](#) [Features](#) [Register](#) [Feedback](#) [Login](#) [Contact](#)

15 days Free Account Registration

Full Name *

Email Address *

Mobile No. *

Required User ID *

Company Name *

Please Send Us Your Feedback & Suggestions

Your Name

Email Address

Subject *

Message *

15 Days Free Account Registration This onboarding form enables prospective users to sign up for a trial account: **Full Name:** Enter your complete legal or professional name. **Email Address:** Provide a valid corporate or professional email. **Mobile No.:** Input a direct active phone number. **Required User ID:** Specify your preferred login identification name. **Company Name:** Input your organization or engineering firm name. **Mandatory Fields:** Asterisks denote fields required for processing registration.

Feedback & Suggestions Form This portal handles direct communication with the development and support teams: **Your Name:** Identify yourself for personalized communication support. **Email Address:** Provide a contact email for response delivery. **Subject:** Outline the main topic of your message. **Message Box:** Describe your feedback, bug report, or request.



Login Screen

Follow these steps to access your BHULOG Geotech Solutions account:

Enter Username: Input your assigned system identification name.

Enter Password: Input your confidential account password.

Request OTP: Check your registered email inbox for a secure One-Time Password (valid for 15 days).

Enter OTP: Type the received code into the designated field.

Verify Captcha: Enter the alphanumeric characters shown in the image box.

Ignore Case: The captcha field is completely case-insensitive.

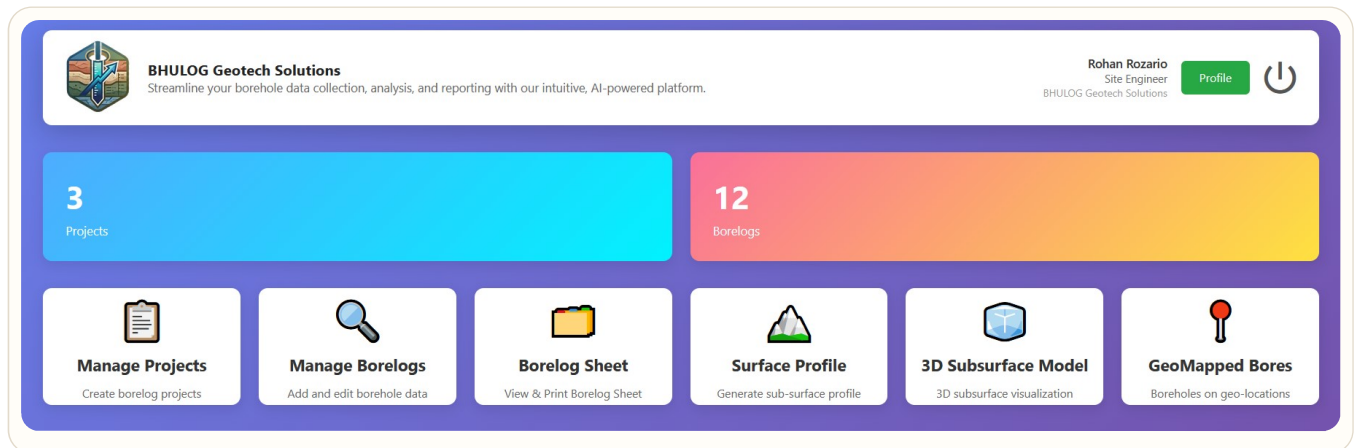
Refresh Captcha: Click the circular icon if the image text is difficult to read.

Click Login: Select the Login button to access the platform.

For changing Password a link is provided just below the Login Button.



Dash Board



Upon successful login, you are redirected to the main user dashboard, which provides an overview of your active projects and core navigation shortcuts.

Header Panel:

The top header bar displays account session information and system access controls:

- User Information:** Displays the logged-in engineer's name and role.
- Profile Button:** Click to update personal account details.
- Logout Icon:** Safely terminate the current session.

Analytics Summary Cards:

Two prominent counter banners display real-time database statistics at a glance:

- Projects Counter:** Shows total active borehole project folders.
- Borelogs Counter:** Shows total individual logs across all projects.

Navigation Module:

Six interactive control tiles provide direct access to the platform's primary tools:

- Manage Projects:** Create and organize borehole project folders.
- Manage Borelogs:** Add, update, and edit field borehole data.
- Borelog Sheet:** View and print standardized geological borelog sheets.
- Surface Profile:** Automatically generate detailed sub-surface soil profiles.
- 3D Subsurface Model:** Open 3D visualization tools for underground mapping.
- GeoMapped Bores:** View precise borehole locations on an interactive map.



Manage Profile



Rohan Rozario

Site Engineer

Username

rohan

Email

rohanrozario99@gmail.com

Phone

9354051287

Status

Active

Valid Until

01 Aug 2029

Member Since

12 Jun 2026

My Statistics

3

Projects

6

Borelogs

6

Layers

Company Information

BHULOG Geotech Solutions

Address

Dadar, Mumbai

Email

support@bhulog.in

Phone

9869275850

Edit Profile

Full Name *

Rohan Rozario

This screen serves as a centralized profile dashboard for a User to view their professional metrics and manage account details.

Key Sections:

User Overview Card: Displays personal information, role badge, account status, membership dates and a custom logo.

My Statistics: Tracks high-level work metrics including total projects, borelogs and geological layers.

Company Information: Outlines the current employer's corporate identity, office location, and central contact channels.

Edit Profile: Provides editable text fields directly below the stats for quick personal information updates.

In this interface the user can also change the login password and regenerate the OTP if required.



Edit Profile

Edit Profile

Full Name *

Email

Phone

[Update Profile](#)

Regenerate OTP

Email

Last OTP generated on :

Regeneration of OTP can be done only once in 24 Hrs.

[Regenerate OTP](#)

The profile management screen allows users to keep their contact details current and request system verification codes.

Edit Profile Form

Update your primary account details and communication preferences using the following fields:

Full Name: Modify your registered professional name.

Email Address: View your primary system email account.

Phone Number: Update your active mobile contact number.

Save Changes: Click Update Profile to apply your adjustments.

Regenerate OTP Module

Request a new one-time password for account validation or security purposes:

Target Email: Displays the address receiving the code.

Generation History: Tracks the date of your last request

.Frequency Limit: Requests are limited to once per 24 hours.

Send Request: Click Regenerate OTP to trigger an email.



Change Password

Regenerate OTP

Email

rohanrozario99@gmail.com

Last OTP generated on :

2026-06-14

Regeneration of OTP can be done only once in 24 Hrs.

Regenerate OTP

Change Password

Current Password *

.....

New Password * (min. 6 characters)

Confirm New Password *

Change Password

Key Features in Edit Profile :

OTP Regeneration: Allows users to request a new One-Time Password (OTP) if the previous one expired or was not received.

Frequency Restriction: Limits OTP generation to once every 24 hours to prevent spam and unauthorized access attempts.

Password Update: Features a standard password reset form requiring the user's current password for security verification.

Validation Rules: Ensures account safety by requiring a new password of at least 6 characters and a confirmation field to prevent typing errors.



Manage Projects

Manage Projects

Dashboard+ Add Project

Filter Projects

Package

e.g. PKG-01

Exploration / Location

Site or area name

Contractor

Contractor name

Apply

Clear

Project List

Showing 1–3 of 3 projects Rows: 10

PROJ ID	PACKAGE	EXPLORATION	CONTRACTOR	BORE GEO	BORELOGS	ACTIONS
#2104	Rock Proj.	NCR DELHI	MAX ENTERPRICES	Non-Linear	0 5	Edit Map XY GeoBot
#2098	TRIAL proj	NCR DELHI	SAPHIRE REAL ESTATE DEVELOPERS	Linear	0 1	Edit Map XY GeoBot
#2096	RJR	NCR DELHI	ALMONDZ GLOBAL INFRA CONSULTANT LTD.	Non-Linear	0 6	Edit Map XY GeoBot

<

1

>

This screen provides a comprehensive project management dashboard designed to track and organize geotechnical engineering assignments.

Key Modules

Advanced Project Filtering: Enables users to quickly narrow down data by package ID, site location, or assigned contractor.

Project List Table: Displays essential overview data including unique project IDs, linear or non-linear types, and total borelog counts.

Actionable Control Panel: Features top-level buttons to immediately create new projects or return to the main dashboard.

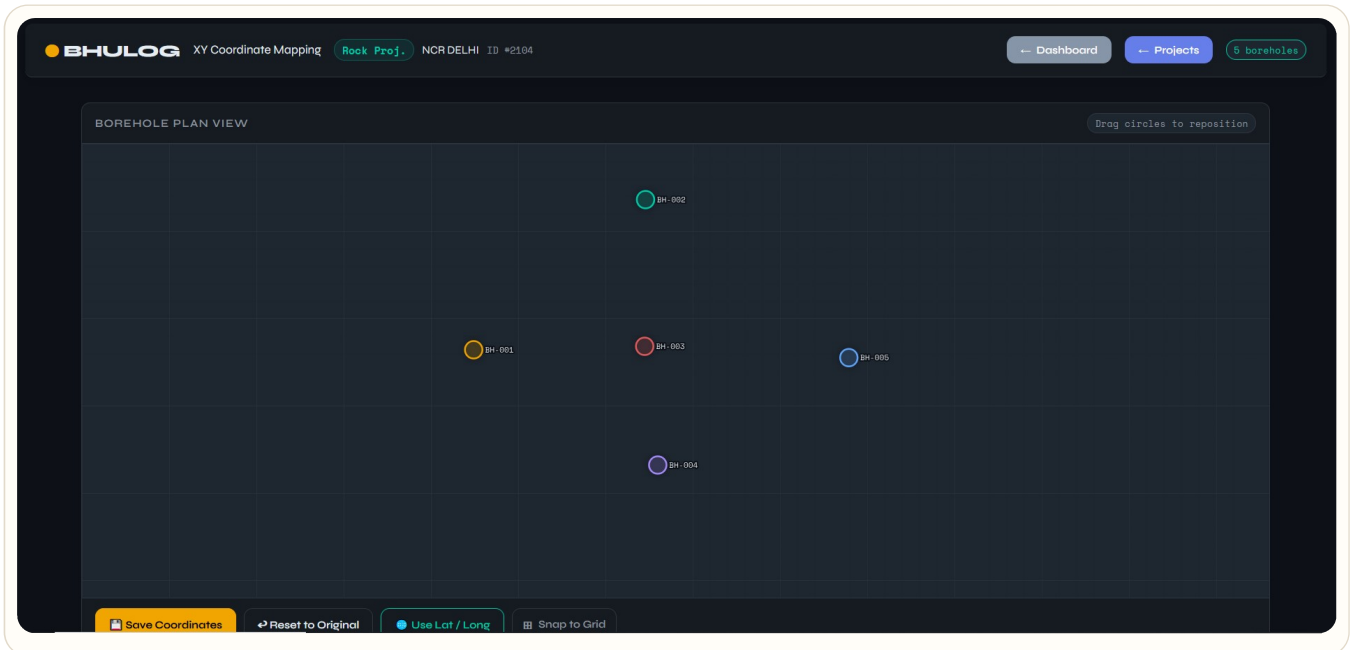
Row-Level Utility Tools:

Equips each project entry with quick-action links to modify details, map coordinate data, or launch the automated GeoBot assistant .

The GeoBot Assistant will auto-generate a detailed Geo-technical Investigation Report based on all the details of the project like borelog data,soil test, rock core test and water chemical test reports.



Map X-Y locations of bore holes



This screen provides an interactive graphical layout for mapping and adjusting the precise X and Y coordinates of project boreholes.

Key Capabilities

Interactive Plan View: Features a drag-and-drop grid canvas allowing users to manually reposition specific borehole nodes.

Contextual Status Bar: Tracks real-time project indicators including project ID, location, and the total number of boreholes.

Flexible Coordinate Systems: Toggles between standard Cartesian layouts and precise Latitude/Longitude geographic mapping systems.

Precision Placement Tools: Equips engineers with quick actions to snap nodes to the grid, undo layout changes, or save modified coordinates.

The user has to simply drag the borehole circles and place them at the required spot. The user can also opt to place the boreholes with respect to the geo locations of the boreholes if available in the system.



Add Project

The screenshot displays the 'Add Project' modal window overlaid on the 'Manage Projects' dashboard. The modal contains the following fields:

- Package ***: Text input with placeholder 'e.g. PKG-01'
- Bore Geometry**: Dropdown menu with 'Linear' selected
- Exploration ***: Text input with placeholder 'Exploration area / site'
- Contractor ***: Text input with placeholder 'Type contractor name...'

At the bottom of the modal are two buttons: '✓ Add Project' (green) and 'Cancel' (grey). The background dashboard shows a table with the following data:

PROJ ID	PACKAGE	EXPLORATION
#2104	Rock Proj.	NCR DELHI
#2098	TRIAL proj	NCR DELHI
#2096	RJR	NCR DELHI

This interface features a modal popup window overlaying the main dashboard to smoothly facilitate the creation of a new geotechnical engineering project.

Key Functional Elements

Structured Data Entry: Prompts users for essential project details including specific package codes, exploration site locations, and contractor names.

Bore Geometry Selection: Includes a dedicated dropdown menu to define structural alignments, such as choosing a linear or non-linear profile.

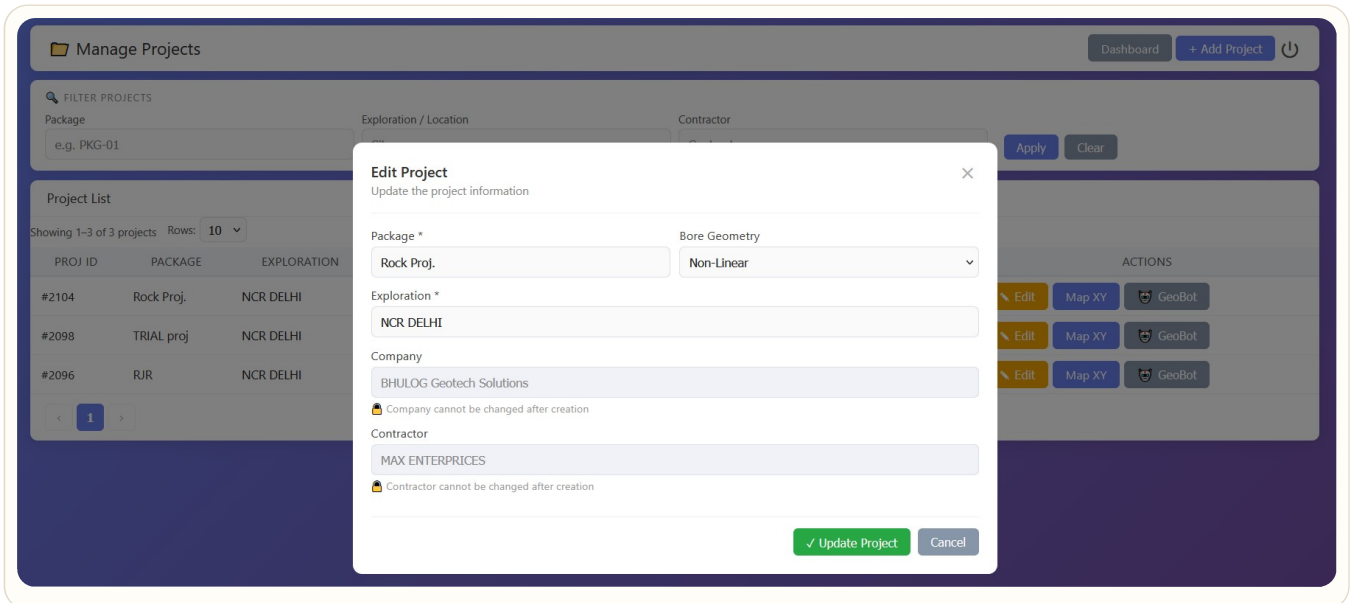
Mandatory Field Indicators: Restricts submission and ensures data completeness by marking critical input parameters with asterisks.

Clear Action Triggers: Features highly visible call-to-action buttons to instantly execute project addition or discard the form changes.

The Contractor selection is the most important field in this interface. Make sure that the right contractor is selected while creating a new project. There is no provision to edit the Contractor after creation of the project. If desired Contractor is not available in the Contractor Master then ask the Admin to add the required Contractor.



Edit Project



This interface features an "Edit Project" modal popup window designed to modify existing project information while maintaining strict data integrity.

Key Functional Elements:

Editable Parameters: Allows users to dynamically update core project tracking details like the package name, exploration site location, and bore geometry type.

Locked System Fields: Restricts changing critical fields like Company and Contractor after initial project creation to ensure data consistency.

Informational Alerts: Displays clear warning icons and text beneath locked fields to explain exactly why that information cannot be modified.

Commit Actions: Uses a prominent green "Update Project" action button to save modifications alongside a clear cancellation button to safely exit without changes.

The Contractor name is kept non-editable to ensure consistency with the names printed in the boresheet.



Geotech Report - Project level

BHULOG PROJECT GEOTECHNICAL REPORT

Saved Report-D

Print

Re-generate

Close

BHULOG GEOTECH SOLUTIONS report generated on 23 Jun 2026, 11:27 AM [Not yet Approved]

GEOTECHNICAL ENGINEERING INVESTIGATION REPORT

Project: NCR DELHI **Project ID:** 2104 **Client:** BHULOG Geotech Solutions **Number of Boreholes:** 5

1. PROJECT INVESTIGATION SUMMARY

MASTER BOREHOLE TABLE

BOREHOLE ID	RL AT COLLAR (M)	TOTAL DEPTH (M)	GROUNDWATER DEPTH (M)	DRILLING METHOD
BH-001	20.00	35.0	11.0	Rotary Wash Method
BH-002	20.00	35.0	11.0	Rotary Wash Method
BH-003	65.00	35.0	11.0	Rotary Wash Method
BH-004	20.00	35.0	9.0	Rotary Wash Method
BH-005	20.00	35.0	11.0	Rotary Wash Method

This interface generates and displays the automated Geotechnical Investigation Report generated by the GeoBot engine using integrated site borelog and testing data.

Key Functional Features:

Document Status Bar: Tracks generation timestamps, draft status, and active approval tracking across the organization.

Project Metadata Header: Summarizes core project attributes including regional location, unique project IDs, and total mapped boreholes.

Master Borehole Table: Compiles critical structural metrics like Reduced Level (RL) at collar, total depth, and groundwater levels.

Drilling Method Logging: Tracks localized field execution methodologies used at each unique hole location for compliance checking.

Report Utility Controls: Equips engineers with dedicated quick-action buttons to print documents, re-generate fresh data, or exit.

This report after approval by the Admin will be visible on the BHULOG mobile App also. This is a purely AI generated report based on borelo and test result data provided from the system. A sample report is placed as Annexure at the end of the User manual.



Manage Borelogs

Manage Borelogs

Dashboard

+ Add Borelog

Clone Borelog

FILTER / SEARCH

Package / Location / Contractor

Bore Number / Bore ID

Search

Reset

Borelog List

12 records - Page 1 of 2

PROJECT	BORE ID	BORE NO. / CONTRACTOR	RL VALUE (M)	FINAL DEPTH (M)	STATUS	GW LEVEL (M)	ACTIONS
Rock Proj.	5	BH-005 MAX ENTERPRICES	20.000	35.000	Active	11.000	EditLoggersRawData
Rock Proj.	4	BH-004 MAX ENTERPRICES	20.000	35.000	Active	9.000	EditLoggersRawData
Rock Proj.	3	BH-003 MAX ENTERPRICES	65.000	35.000	Active	11.000	EditLoggersRawData
Rock Proj.	2	BH-002 MAX ENTERPRICES	20.000	35.000	Active	11.000	EditLoggersRawData
Rock Proj.	1	BH-001 MAX ENTERPRICES	20.000	35.000	Active	11.000	EditLoggersRawData
RJR	6	BH-006 ALMONDZ GLOBAL INFRA CONSULTANT LTD.	0.000	25.000	Active	12.000	EditLoggersRawData
TRIAL proj	1	BH-001 SAPPHIRE REAL ESTATE DEVELOPERS	0.000	20.000	Active	9.000	EditLoggersRawData
RJR	5	BH-005 ALMONDZ GLOBAL INFRA CONSULTANT LTD.	0.000	30.000	Active	15.000	EditLoggersRawData
RJR	4	BH-003 ALMONDZ GLOBAL INFRA CONSULTANT LTD.	0.000	50.000	Active	2.000	EditLoggersRawData

This interface serves as a centralized management dashboard for tracking, organizing, and modifying field data for all project boreholes.

Key Functional Features:

Multi-Criteria Search: Enables targeted filtering using specific package names, geographic locations, contractors, or unique borehole IDs.

Borehole Metric Overview:

Consolidates essential subsurface technical parameters including collar RL values, final drilling depth, and groundwater levels.

Granular Record Allocation: Organizes complex geological data entries, including casing depths, field logs, sample recoveries, and RQD indices.

Mass Replication Utilities: Speeds up setup workflows via dedicated action triggers to clone existing logs or append new entries.

Deep-Dive Data Access: Equips rows with dedicated shortcuts to directly modify parameters, manage personnel logs, or review raw testing data.



Clone Borelog

The screenshot displays the 'Manage Borelogs' interface. At the top, there are buttons for 'Dashboard', '+ Add Borelog', and 'Clone Borelog'. Below these is a search bar with filters for 'Package / Location / Contractor' and 'Bore Number / Bore ID'. The main area shows a 'Borelog List' table with columns for PROJECT, BORE ID, BORE NO., and ACTIONS. A modal window titled 'Clone New Borelog' is open, featuring a 'Project *' dropdown, a 'Bore Number *' text field, and a 'Bore ID (to be cloned from)' dropdown. Below these are checkboxes for 'Casing', 'Log', 'Strata', 'FieldTest', 'Sample', 'Recovery', and 'Remarks'. The modal has 'Clone Borelog' and 'Cancel' buttons at the bottom.

PROJECT	BORE ID	BORE NO.	ACTIONS
Rock Proj.	5	BH-005 MAX ENTERPRICES	Edit Loggers RawData
Rock Proj.	4	BH-004 MAX ENTERPRICES	Edit Loggers RawData
Rock Proj.	3	BH-003 MAX ENTERPRICES	Edit Loggers RawData
Rock Proj.	2	BH-002 MAX ENTERPRICES	Edit Loggers RawData
Rock Proj.	1	BH-001 MAX ENTERPRICES	Edit Loggers RawData
RJR	6	BH-006 ALMONDZ GLOBAL INFRA CONSULTANT LTD.	Edit Loggers RawData
TRIAL proj	1	BH-001 SAPHIRE REAL ESTATE DEVELOPERS	Edit Loggers RawData
RJR	5	BH-005 ALMONDZ GLOBAL INFRA CONSULTANT LTD.	Edit Loggers RawData

This interface features a "Clone New Borelog" modal window designed to rapidly duplicate existing borehole setups into new records.

Key Functional Features

Project Allocation Dropdown: Allows engineers to assign the newly duplicated record to a specific active engineering project.

Target Identification Input: Provides a mandatory text field to assign a unique identifier code to the new borehole entry.

Source Selection Mechanism: Pulls existing data structures by targeting a specific reference borehole from the project inventory.

Granular Component Mapping: Uses selective checkboxes to replicate specific data subsets including casings, log structures, and strata layouts.

Selective Field Exclusion: Offers options to exclude transient field test data, sample details, recoveries, or specific engineering remarks.

Using this option users can very quickly replicate a borehole from any of their existing projects.



Add Borelog

Add New Borelog

Project * Bore Number * Status *

Chainage (meters) * Groundwater Level (meters) GW Level (text)

Final Depth (meters) R.L. Value Bore Drilling Method

Commencement date * Completion date * Scaling date

Reference No. Scale Vertical Scale Horizontal

Drawn by Checked by X Co-ordinate Y Co-ordinate Lat Long

X and Y Co-ordinates are required for 3D visualisation.

This interface features an "Add New Borelog" modal window designed to input and log a new borehole's geological data into a project.

Key Functional Features

Core Identification Parameters: Requires project selection, unique borehole identification codes, and active operational status flags.

Geotechnical Metric Inputs: Log structural measurements including chainage, groundwater levels, final drilling depths, and R.L. values.

Timeline Tracking Fields: Captures project lifecycles using structured date fields for drilling commencement, completion, and scaling records.

Scale and Reference Fields: Configures standard reference tracking parameters alongside vertical and horizontal graphical mapping scales.

Spatial Mapping Inputs: Records precise X and Y coordinates necessary for automatic, accurate 3D visualization modeling.



Edit Borelog

Edit Borelog

Project: 2104 - Rock Proj. Bore Number *: BH-005 Status *: Active

Chainage (meters): 10 Groundwater Level (meters) *: 11.000 GW Level (text): na

Final Depth (meters): 35.000 R.L. Value: 20.000 Bore Drilling Method: ROTARY WASH METHOD

Commencement date: 20 / 06 / 2026 Completion date: 20 / 06 / 2026 Scaling date: 30 / 06 / 2026

Reference No.: na Scale Vertical: 1:100 Scale Horizontal: N.T.S.

Drawn by: Rohan R Checked by: Jose X Cord: 879 Y Cord: 245 Lat: 28.6139 Long: 77.2090

Update Borelog **Cancel** X and Y Co-ordinates are required for 3D visualisation.

This interface features an "Edit Borelog" modal window designed to modify existing subsurface geological parameters and coordinate data for a specific borehole.

Key Functional Features:

Project and Identity Locking: Pre-populates original project associations while keeping critical fields like borehole numbers editable for corrections.

Geotechnical Metric Updates: Allows immediate modifications to physical data points including chainage, groundwater levels, and final drilling depths.

Timeline Adjustment Calendars: Features date pickers to update project timelines for drilling commencement, field completion, and scaling dates.

Spatial Coordinate Modifiers: Modifies precise X and Y coordinates along with Lat/Long entries essential for maintaining automated 3D modeling.

Personnel Log Tracking: Features text inputs to update project responsibility records by assigning who drafted and checked the technical data logs.



Add Raw BoreLogs

Raw Borelog Data

Project: 2104 - Rock Proj.
Location: NCR DELHI
Bore Number: BH-005

Log Data

Bore No. BH-005 Date 28 / 06 / 2026 Depth From 0.00 Depth To e.g. 1.50

Strata Description *
Type description and click Search... Search

Soil Type *
Select Soil Type

Water Colour Casing 150mm Sample D/S Sample No. 1 No. of pieces Pen. time

CMS-1 15 CMS-2 15 CMS-3 15 CMS-4 15

BLS-1 0 BLS-2 0 BLS-3 0 BLS-4 0

SPT-NVal =R Recovery length Recovery % RQD length RQD %

Remarks

Add Log Cancel

This interface features a "Raw Borelog Data" modal form designed for real-time field data entry by site engineers during drilling operations.

Key Functional Features:

Depth Interval Logs: Tracks specific strata layers by capturing sequential starting and ending depths as drilling progresses.

Strata and Soil Classification: Integrates a searchable description database alongside a dedicated soil type selection menu.

Sampling Metric Inputs: Captures critical sample types, sample numbers, casing dimensions, and recorded penetration times.

Field Test Records: Features structured fields to log consecutive blow counts (CMS/BLS parameters) and automated Standard Penetration Test (SPT) N-values.

Core Recovery and Quality Metrics: Tracks physical sample recovery lengths, percentages, and Rock Quality Designation (RQD) indicators.

This interface provides a single screen to enter all the component loggers for a bore hole. This feature is also available on the BHULOG mobile App for the site engineer to enter the borelog data on realtime. Most of the validations are in-built i this interface like SPT N value and CMS/BLS values etc. For strata description the system also provides an auto-complete option for searching similar strata description used in the past.



Loggers Menu

Manage Borehole Logs

Dashboard Borelogs BoreSheet

Borelog Information

Project: 2104 - Rock Proj.
Location: NCR DELHI
Bore Number: BH-005
Final Depth: 35.000 m
Groundwater Level: 11.000 m

Borehole Logger Management Menu

Log Details Casings Data Strata Details Field Test Sample & Depth Recovery & RQD Remarks Documents Soil Test Rock Cores Water Test

This screen allows users to manage individual borehole engineering logs within the system.

Key Sections

Header Navigation: Contains shortcuts to the main Dashboard, Borelogs list and BoreSheet view.

Borelog Information: Displays primary metadata including project ID, location, bore hole number, final depth (35.000 m), and groundwater level (11.000 m).

Management Menu: Provides a specialized toolbar to access or edit specific sub-sections of the borehole profile.

Menu Functions:

Log Details: Edit general administrative details and timestamps.

Casings Data: Record installation depths and types of structural casings.

Strata Details: Log geological layers and soil profiling sequences.

Field Test / Sample & Depth: Document in-situ field testing metrics and physical core sample depth intervals.

Recovery & RQD: Input Rock Quality Designation values and core recovery percentages.

Lab Testing Tabs: Dedicated portals for entering Soil Test, Rock Cores, and Water Test laboratory analysis data.

Supporting Data: Access system Remarks and upload reference Documents.



Manage Bore Casings

Manage Casings

Dashboard

Borelogs

Loggers

Project: 2104 – Rock Proj.

Location: NCR DELHI

Bore Number: BH-004

Casing Data Entry

Existing

New row

+ Add Row

#	ID	START (M)	END (M)	THICKNESS	CASING DIA	CASING TEXT	DELETE
1	1	0.000	2.000	2.000 m	150mm		

Edit any cell above, then click Save All Changes. Click + Add Row to append a new casing entry.

Reset

Save All Changes

This interface allows users to record, modify, and manage structural casing dimensions for individual boreholes.

Functional Breakdown:

Context Summary: Displays vital tracking data including Project ID, Location, and the active Bore Number (BH-004).

Casing Data Entry Table: A dynamic data grid used to track casing installations sequentially by depth and diameter.

Key Data Fields:Start / End (M): Defines the exact depth intervals in meters where the casing is installed.

Thickness: Calculates or displays the physical material wall thickness of the pipe.

Casing Dia: A dropdown menu to select standard casing diameters (e.g., 150mm) used to secure the borehole.

Casing Text: A text field for adding custom notes, material specifications, or serial numbers.

Action Controls:Add Row: Appends a blank line item to document consecutive casing runs.

Delete (Trash Icon): Instantly removes a specific entry row from the current session.

Reset: Discards unsaved modifications and reverts to the last saved state.

Save All Changes: Submits the completed data grid to the database.



Manage Log/Layers

Manage Soil Layers

Dashboard

Borelogs

Loggers

Project: 2104 – Rock Proj.

Location: NCR DELHI

Bore Number: BH-005

Layer Data Entry

Existing

New row

+ Add Row

#	ID	START (M)	END (M)	THICKNESS	SOIL TYPE	Γ (KN/M ³)	Φ (°)	DELETE
1	1	0.000	5.000	5.000 m	Topsoil	0.00	0	ii
2	2	5.000	15.000	10.000 m	Sand Gravels	0.00	0	ii
3	3	15.000	20.000	5.000 m	Sand Clay Silty Gravel	0.00	0	ii
4	4	20.000	24.000	4.000 m	Soft Rock	0.00	0	ii
5	5	24.000	35.000	11.000 m	Hard Rock	0.00	0	ii

Edit any cell, then Save All Changes. γ & ϕ required only for Retaining Wall Analysis.

Reset

Save All Changes

Visual Log

Topsoil

Sand Gravels

Sand Clay Silty Gravel

Soft Rock

GW: 11.00m

This interface allows users to profile geological strata by logging soil layers and engineering properties down the borehole column.

Core Sections

Borehole Context: Keeps track of operational metadata including Project, Location, and Bore Number (BH-005).

Layer Data Entry Table: A multi-column tabular form to log geological strata.

Start / End (M): Defines the precise depth boundaries of each layer in meters

.Thickness: Auto-calculates the layer depth span.

Soil Type: Dropdown menu to classify the material (e.g., Topsoil, Sand Gravels, Soft Rock).

Engineering Parameters: Fields to capture Unit Weight (Γ in KN/m³) and Friction Angle (Φ in degrees), primarily utilized for retaining wall analysis.

Visual Log Preview: A dynamic, color-coded stratigraphic column rendered on the right side.

It updates in real-time to visualize layer sequences and overlays environmental benchmarks like the Groundwater Level line (GW: 11.00m).

Command Buttons: Standard operational controls to Add Row, Delete rows, Reset inputs, or Save All Changes.



Manage Strata details

Manage Strata Layers

Dashboard

Borelogs

Loggers

Project: 2104 – Rock Proj.

Location: NCR DELHI

Bore Number: BH-004

Strata Data Entry

Existing

New row

+ Add Row

#	LAYER ID	START (M)	END (M)	THICKNESS	STRATA DESCRIPTION	DELETE
1	1	0.000	2.000	2.000 m	Brown soil	
2	2	2.000	3.000	1.000 m	GREYISH SILT CLAY WITH GRAVELS	

Edit any cell above, then click **Save All Changes**. Click + **Add Row** to append a new entry.

Reset

Save All Changes

This interface allows users to input descriptive geological data for distinct stratigraphic layers identified during borehole drilling.

System Components

Metadata Header: Confirms the target borehole profile using Project ID, Location, and Bore Number (BH-004).

Strata Data Entry Grid: A structured workflow table designed to capture literal, descriptive soil classifications.

Layer ID: Tracks sequential identifiers for consecutive underground layers.

Start / End (M): Captures precise depth boundaries in meters for each geological layer change.

Thickness: Auto-populates the exact numerical difference between the starting and ending depths.

Strata Description: A flexible text input area to record descriptive field observations (e.g., Brown soil, GREYISH SILT CLAY WITH GRAVELS).

Action & Utilities:

Magnifying Glass Button: Launches a quick-lookup assistant or preset library to pick standardized geological descriptions.

Row Editing Controls: Standard buttons to Add Row at the top right, Delete (Trash Icon) single rows, Reset pending entries

or Save All Changes to finalize the log.

The user is also provided a search button where the system will provide a list of strata description from the past data based on the word entered in the strata description field. The user can then select one of the strata description from the list without actually typing the full description.



Manage Samples

Manage Sample Data

Dashboard

Borelogs

Loggers

Project: 2104 – Rock Proj.

Location: NCR DELHI

Bore Number: BH-004

Sample Data Entry

Existing

New row

+ Add Row

#	ID	START (M)	END (M)	THICKNESS	SAMPLE TYPE	SAMPLE NO.	DELETE
1	NEW	0.000	e.g. 1.500	—	SPT	1	

Edit any cell above, then click **Save All Changes**. Click + **Add Row** to append a new sample entry.

Reset

Save All Changes

This interface allows users to catalog geotechnical physical core samples collected from specific depth intervals during drilling operations.

Component Overview:

Project Header: Displays tracking metadata linking the sample data directly to Project 2104, Location NCR DELHI, and Bore Number BH-004.

Sample Data Entry Table: A line-item layout configured to log sample intervals and classifications.

Start / End (M): Captures the starting and ending depths in meters for the specific sampling run.

Thickness: Auto-calculates the physical vertical span of the recovered sample core.

Sample Type: A dropdown selection menu to classify the collection method or sample nature (e.g., Standard Penetration Test or SPT).

Sample No.: A numerical counter field to sequentially index the samples retrieved from the active borehole.

Control Actions:
Add Row: Appends a new sample row highlighted in orange to signify a pending, unsaved entry.

Delete: Removes the selected row entry from the active workspace.

Reset: Reverts all unsaved data field inputs to their original state.

Save All Changes: Permanently commits the new sample data rows to the system database.



Manage Field Test

Manage Field Data

[Dashboard](#) [Borelogs](#) [Loggers](#)

Project: 2104 – Rock Proj.
Location: NCR DELHI
Bore Number: BH-004

Field Data Entry

☐ Existing ☒ New row

[+ Add Row](#)

ID	START (M)	FIELD DESCRIPTION	SAMPLE	SPT.NO.	CMS1	CMS2	CMS3	CMS4	BLS1	BLS2	BLS3	BLS4	NV	DELETE
NEW	0		SPT	1	15	15	15	15						X

Edit any cell above, then click: **Save All Changes**. Click **+ Add Row** to append a new casing entry.

[Reset](#) [Save All Changes](#)

This interface allows users to record dynamic in-situ geotechnical test metrics and blow counts obtained directly during field drilling.

System Components:

Metadata Header: Pairs data points to the active borehole file using Project ID, Location, and Bore Number (BH-004).

Field Data Entry Table: A multi-column log grid tailored for entering Standard Penetration Test (SPT) blow counts and intervals.

Start (M): Captures the precise starting depth in meters where the test was conducted.

Field Description: A text input field for immediate field observations or structural notes.

Sample & SPT No.: Tracks the structural sample type (e.g., SPT) and links it to a sequential sample reference number.

CMS1 to CMS4 (Casing/Core Metrics): Numeric input columns to log blow count measurements across sequential test increments (e.g., standard 15cm intervals).

BLS1 to BLS4 / NV: Supplementary observation columns to log specific blow counts, baseline tests, or torque/vane metrics (NV).

Operational Rules:

Add Row: Highlights a newly appended data entry line in orange to signify an unsaved, active state.

Global Actions: Use Reset to discard pending inputs, Delete (Trash Icon) to drop lines or Save All Changes to sync to the server.

The SPT NV is calculated as the sum of the last two BLS values. If BLS values exceed 50 the the SPT is set to N=R and no further BLS values are allowed.



Manage Recovery / RQD

Manage Recovery & RQD

← Dashboard

← Borelogs

📄 Loggers

Project: 2104 – Rock Proj.

Location: NCR DELHI

Bore Number: BH-004

Recovery & RQD Data Entry

☐ Existing ☒ New row

+ Add Row

#	ID	START (M)	END (M)	THICKNESS	RECOVERY %	RQD %	PIECES	VALUE	DELETE
1	NEW	0.000	e.g. 1.500	—	0–100	0–100	e.g. 1-4		

✎ Edit any cell above, then click **Save All Changes**. Click + **Add Row** to append a new recovery entry.

↶ Reset

💾 Save All Changes

This interface allows users to record core recovery rates and Rock Quality Designation (RQD) percentages to evaluate the structural integrity of rock masses.

Key Components:

Metadata Header: Tags the engineering metrics to Project 2104, Location NCR DELHI, and Bore Number BH-004.

Recovery & RQD Data Entry Table: A multi-column form designed for rock core logging logs.

Start / End (M): Captures the precise top and bottom depths in meters for each core run.

Thickness: Automatically calculates the total length of the specific core run.

Recovery %: Accepts integer inputs from 0–100 to log the percentage of total core physical recovery.

RQD %: Accepts integer inputs from 0–100 to record the cumulative percentage of sound core pieces longer than 10 cm.

Pieces: A text input to document the exact count or configuration of recovered rock fragments (e.g., 1-4).

Value: A field to log supplementary engineering remarks, weathered status, or structural classifications.

Actions: Add Row: Initiates a new line item highlighted in orange for immediate data input. Delete:

Clicking the red trash icon clears the corresponding row from the data table.

Reset: Wipes all uncommitted inputs and reverts the table to its last saved database state.

Save All Changes: Submits the completed core recovery and quality parameters to the server.



Manage Borehole Remarks

Manage Remarks

[Dashboard](#) [Borelogs](#) [Loggers](#)

Project: 2104 – Rock Proj.
Location: NCR DELHI
Bore Number: BH-004

Remarks Data Entry

Existing New row

+ Add Row

#	ID	START (M)	END (M)	THICKNESS	REMARKS	DELETE
1	NEW	0.000	e.g. 1.500	—	Enter remarks...	

Edit any cell above, then click **Save All Changes**. Click + **Add Row** to append a new remarks entry.

[Reset](#) [Save All Changes](#)

This interface allows users to attach qualitative engineering notes, field observations, or drilling anomalies to specific depth intervals along the borehole.

Key Components:

Metadata Header: References the entry to Project 2104, Location NCR DELHI, and Bore Number BH-004.

Remarks Data Entry Table: A streamlined form designed for logging descriptive context.

Start / End (M): Sets the precise upper and lower depth boundaries in meters where the remark applies.

Thickness: Automatically calculates the total vertical interval of the specified note.

Remarks: An expandable text field to type custom descriptions, drilling observations, or unusual occurrences (e.g., core loss, tool changes).

Control Actions:

Add Row: Appends an active new line item highlighted in orange for data input.

Delete: Clicking the red trash icon instantly clears the corresponding row.

Reset: Flushes all uncommitted field edits and rolls back to the last saved database state.

Save All Changes: Commits the finished text observations permanently to the active borehole profile.



Manage Document Attachment

The screenshot displays the 'Bore Documents' interface. On the left, a sidebar contains 'Borelog Information' (Project: 2104 — Rock Proj., Location: NCR DELHI, Bore Number: BH-004, Final Depth: 35.000 m, Groundwater Level: 9.000 m) and 'Uploaded Documents'. The main area shows a modal titled 'Upload New Document'. This modal includes a 'Borelog' dropdown menu set to 'BH-004', a 'Document Name *' field with a placeholder 'e.g. SOIL TEST, LAB REPORT, RAW DATA...', a 'Document Title *' field with a placeholder 'e.g. Borehole Completion Report, Lab Test Results...', and a 'File *' section with a dashed box for file upload. Below the dashed box is a cloud icon and the text 'Click or drag & drop a file here' followed by 'PDF, Word, Excel, Images, ZIP — max 50 MB'. At the bottom of the modal are 'Upload' and 'Cancel' buttons. The background interface has a top navigation bar with 'Dashboard', 'Borelogs', 'Loggers', and '+ Upload Document' buttons.

This interface provides a dedicated upload modal for attaching auxiliary reference documents directly to an individual borehole profile.

Upload Rules & Constraints:

File Type Support: Accepts document and media formats including PDF, Word, Excel and Images.

Maximum File Limit: Users are strictly permitted to attach a maximum of 4 documents per borehole profile.

Size Limit Restrictions: Each individual uploaded file must not exceed a maximum size of 2 MB

Key Form Fields
Borelog Reference: An uneditable field that auto-populates with the active profile ID (e.g., BH-004) to prevent cross-uploading errors.

Document Name: A required field to tag the specific category of the asset (e.g., SOIL TEST, LAB REPORT, RAW DATA).

Document Title: An mandatory descriptive text field to clearly title the asset for team indexing (e.g., Manual Boresheet, Test Reports, Log Photos).

Drag & Drop Target Area: A dashed drop zone allowing users to instantly upload files via mouse dragging or standard system file explorers.

Workflow Actions:

Upload: Submits the attached file and metadata fields to finalize the database linkage.

Cancel: Discards the chosen file attachments and closes the active window modal without saving.



Manage Rock Core Test report

Manage Rock Core Data

Dashboard

Borelogs

Loggers

Project: 2104 – Rock Proj.

Location: NCR DELHI

Bore Number: BH-004

Rock Core Test Entry

Existing

New row

+ Add Row

#	ID	CORE NO.	START (M)	END (M)	THICK	DIA (CM)	HEIGHT (CM)	H/D	FAILURE LOAD	UCS (MPA)	POROSITY %	WATER ABS %	DRY DENSITY	POINT LOAD IDX	REMARK
1	NEW		— select depth —	—	—										

Edit any cell above, then click **Save All Changes**. Pick a **Start / End depth** from the layer drop-down; blank cells are stored as NULL.

Reset

Save All Changes

This interface allows laboratory and field engineers to log laboratory test results conducted on extracted rock core specimens.

Core Architecture:

Metadata Header: Connects test results to the active borehole file using Project ID (2104), Location (NCR DELHI), and Bore Number (BH-004).

Rock Core Test Entry Grid: A comprehensive database table built to capture physical geometry, structural loads, and durability indexes.

Core No. & Depth: Tracks specimen index codes and features a drop-down depth selection to accurately bind tests to specific geological layers.

Specimen Geometry: Fields to capture the core's Diameter (DIA (CM)), Height (HEIGHT (CM)), and the auto-calculated or manually verified Height-to-Diameter ratio (H/D).

Strength Metrics: Numeric data inputs for peak mechanical load values (FAILURE LOAD), Unconfined Compressive Strength (UCS (MPA)), and the Point Load Strength Index (POINT LOAD IDX).

Physical Properties: Dedicated logging fields for material density and fluid interactions, including POROSITY %,

Water Absorption (WATER ABS %), and DRY DENSITY.

System Design Logics:

Blank Cells: Cells left empty by the operator are safely committed to the database as NULL values rather than defaulting to zero.

Control Set: Standard structural controls to append entry slots (Add Row), discard unsaved inputs (Reset), or push changes to the servers (Save All Changes).



Manage Soil Test Report

This interface provides a centralized modal window for laboratory technicians to log physical, index, and engineering properties from processed soil samples.

Data Collection Categorization:

Sample Reference: Captures the mandatory Depth Interval (m) via a dropdown picker and tracks the corresponding Sample Type to link the lab test directly to a field sample.

Density & Moisture: Input fields for key phase relationships including Wet Density (γ_{wet}), Dry Density (γ_{dry}), Moisture Content %, and Specific Gravity (G_s).

Grain Size Analysis (%): Standard particle-size distribution entry fields divided into Gravel, Sand, Silt and Clay percentage composition.

Atterberg Limits: Text entries to capture soil plasticity thresholds, including Liquid Limit (LL), Plastic Limit (PL), and Plasticity Index (PI).

Classification & Swell / Consolidation: Features a dropdown to assign the engineering Soil Class (USCS) alongside numeric inputs for Shrinkage %, Swell Pressure, and Free Swell Index.

Layout Action Controls
Save Record: Validates required fields and commits the laboratory parameters to the active borehole dataset.

Cancel / Close (X): Exits the active entry window modal and reverts to the underlying Lab Test Records dashboard without committing changes.



Manage Water Chemical Test

Manage Water Chemistry Data

Dashboard

Borelogs

Loggers

Project: 2104 – Rock Proj.

Location: NCR DELHI

Bore Number: BH-004

Water Chemistry Entry

Existing

New row

+ Add Row

#	ID	DEPTH (M)	PH	SULPHATES (PPM)	CHLORIDES (PPM)	REMARKS	DEL
1	NEW	e.g. 5.000	0-14				

Edit any cell above, then click **Save All Changes**. Only **Depth** is mandatory; blank cells are stored as NULL.

Reset

Save All Changes

This interface allows users to log chemical analysis metrics for groundwater samples collected at specific borehole depth intervals.

Functional Breakdown:

Borehole Identification: Links chemical parameters directly to Project 2104, Location NCR DELHI, and Bore Number BH-004.

Water Chemistry Entry Grid: A row-by-row data entry system focused on key environmental and corrosion-related testing metrics.

Depth (M): Captures the precise extraction depth in meters. This is the only mandatory field required to validate and save a row.

PH: Accepts numeric entries restricted to the standard 0-14 acidity-alkalinity scale.

Sulphates (PPM) & Chlorides (PPM): Numeric input fields to log chemical concentration levels in Parts Per Million, essential for concrete durability assessments.

Remarks: A text field to add descriptive observations regarding sample clarity, odor, or sampling conditions.

System Operations:

Null Value Handling: Blank parameters are explicitly preserved and saved in the database as NULL values rather than zero.

Table Actions: Standard workspace controls to append rows (Add Row), discard uncommitted typing (Reset), clear rows (Trash Icon), or commit records (Save All Changes).



Search Borelogs

Search Borelogs

Dashboard

FILTER / SEARCH

Package / Location / Contractor
e.g. PKG-001, Highway...

Bore Number / Bore ID
e.g. BH-01, BH-02...

Search

Reset

Borelog List

12 records

PROJECT	CONTRACTOR	BORE NO.	STATUS	COMPLETION DATE	ACTIONS
Rock Proj.	MAX ENTERPRICES NCR DELHI	BH-001	Active	2026-11-14	GeoBot Borelog Documents
Rock Proj.	MAX ENTERPRICES NCR DELHI	BH-002	Active	2026-06-20	GeoBot Borelog Documents
Rock Proj.	MAX ENTERPRICES NCR DELHI	BH-003	Active	2026-06-20	GeoBot Borelog Documents
Rock Proj.	MAX ENTERPRICES NCR DELHI	BH-004	Active	2026-06-30	GeoBot Borelog Documents
Rock Proj.	MAX ENTERPRICES NCR DELHI	BH-005	Active	2026-06-20	GeoBot Borelog Documents
TRIAL proj	SAPHIRE REAL ESTATE DEVELOPERS NCR DELHI	BH-001	Active	2026-06-06	GeoBot Borelog Documents
RJR	ALMONDZ GLOBAL INFRA CONSULTANT LTD. NCR DELHI	BH-001	Active	2026-09-14	GeoBot Borelog Documents Retain-Wall
RJR	ALMONDZ GLOBAL INFRA CONSULTANT LTD. NCR DELHI	BH-002	Active	2026-06-04	GeoBot Borelog Documents

Showing 12 records

This interface serves as the central directory for searching, filtering, and accessing all borehole engineering logs stored within the system.

Search & Filter Utilities:

Dynamic Lookup Fields: Users can query specific records using two distinct search boxes:

Package / Location / Contractor: Filters records by project parameters (e.g., PKG-001, Highway).

Bore Number / Bore ID: Directly targets a specific borehole profile (e.g., BH-001, BH-002).

Query Actions: Clicking Search executes the filter parameters, while Reset clears the text fields to refresh the complete master list.

Borelog Master List TableThe main data grid presents a high-level overview of all matching project records (displaying 12 active records):

Core Identifiers: Displays the project classification, contractor name, regional location, and specific Bore No.

Log Status: Indicates the operational phase of the borehole asset (e.g., Active).

Completion Date: Logs the official timestamp or submission date for each entry.

Direct Action Controls:

Each row item contains a dedicated suite of quick-access portals:

GeoBot: Launches specialized AI tools, structural logging utilities, or real-time diagnostic helpers.

Borelog: Directs the user to the comprehensive data-entry profile view (managing layers, tests, and casings).

Documents: Opens the document management modal to view or attach file payloads.

Retain-Wall: A specialized engineering analysis shortcut available on specific modules to evaluate structural retaining wall parameters.



Bore Sheet

Print Borelogs

Dashboard

Borelogs

One-Page

Page 1

Page 2

Page 3

Client	MAX ENTERPRICES				
Project	NCR DELHI				
Bore Hole No.	BH-001				
Final Depth	35.000 M				
Drilling Method	ROTARY WASH METHOD		R.L.	20.000 M	
Location			Chainage Mtr.	10	
G.W.L.	na		Date of Commencement	20-06-2026	
			Date of Completion	14-11-2026	

B O R E L O G

CASING	DEPTH (M)	R.L. (M)	THICKNESS OF LAYER	LOG	VISUAL DESCRIPTION OF STRATA	FIELD TEST	TYPE OF SAMPLE	CORE DRILLING								REMARKS
								RECOVERY %				R.Q.D. %				
								25	50	75	100	25	50	75	100	
	0.00	20.000														
			5.00													

This interface serves as the official reporting module, transforming field and laboratory data entries into a standardized, client-ready Bore Sheet.

Layout Navigation & Controls:

Navigation Shortcuts: Quick links at the top left allow users to instantly return to the main Dashboard or the Borelogs search matrix.

Page Layout Selectors: Dedicated formatting toggles allow users to control the export view:

One-Page: Compresses the dataset into a single-page overview summary

.Page 1, 2, 3: Splits lengthy borehole logs across multiple formatted pages for clear physical printing.

Borehole Administrative Header

The top section aggregates critical site metadata and project constraints:

Project Specifics: Logs the Client (MAX ENTERPRICES), Project Area (NCR DELHI), specific Bore Hole Number (BH-001), and localized geographic site coordinates (Location).

Technical Constraints: Displays engineered drilling metrics including Final Depth (35.000 M), Drilling Method (ROTARY WASH METHOD), and Groundwater Level (G.W.L.).

Operational Timestamps: Tracks survey metrics like Reduced Level (R.L.), Chainage Meter (10), Date of Commencement (20-06-2026), and Date of Completion (14-11-2026).

Comprehensive Log GridThe reporting layout consolidates previously recorded modules into a unified engineering graph:

Structural Geometry: Visualizes installed Casing runs alongside continuous Depth (M) and R.L. (M) intervals.

Stratigraphy & Lithology: Auto-calculates the Thickness of Layer and renders a color-coded stratigraphic Log column next to the literal Visual Description of Strata.

Sampling & Testing Logs: Dedicates tracking columns to position in-situ Field Test results, Type of Sample, and Core Pieces indexing.

Rock Mass Quality Charts: Plots a graphical trend line tracking core integrity parameters, explicitly scaling Recovery % and R.Q.D. % from 25 to 100.

Field Notes: Appends localized depth anomalies or soil transitions directly into the Remarks column.

The print option gets activated only after the Bore Sheet is approved by the Admin. The One page option gives a single page output whereas the other options give individual page of 15 meters each.



Geotech Report Borelog

BHULOG GEOTECHNICAL INVESTIGATION REPORT

Freshly Generated-D

Print

Re-generate

Close

BHULOG GEOTECH SOLUTIONS

report generated on 28 Jun 2026, 11:05 AM [Not yet Approved]

GEOTECHNICAL ENGINEERING INTERPRETATION REPORT

Project: NCR Delhi Borehole ID: BH-001 Report Date: [Insert Date]

1. BOREHOLE SUMMARY

PARAMETER	VALUE
Project	NCR Delhi
Borehole ID	BH-001
Total Depth	35.0 m
Reduced Level (RL)	20.0 m (Datum)
Groundwater Depth	11.0 m (Static)
Drilling Method	Rotary Wash

This interface serves as the final report viewer and review dashboard for automated engineering summaries.

Top Status & Command Bar:

Generation Status Badge: Displays a real-time tracking indicator showing the document is Freshly Generated-D.

Print: Triggers the system print dialog to export the text document as a hard copy or save it directly as a formatted PDF.

Re-generate: Refreshes the document text to parse and sync any recent field database edits.

Close: Safely exits the report viewer canvas and returns the user to the active project workspace.

Report Banner & Administrative Header

Approval Status Flag: Contains a tracking stamp showing the creation date (28 Jun 2026, 11:05 AM) along with a critical review status label: [Not yet Approved].

Report Metadata: Formally structures the document type as a Geotechnical Engineering Interpretation Report and indexes core variables including Project Location (NCR Delhi), Borehole ID (BH-001), and a placeholder for the [Insert Date].

Borehole Summary Section

A structured tabular view summarizing the core mechanical and geographic baselines for the targeted excavation:

Project: Confirms regional site localization boundaries (NCR Delhi).

Borehole ID: Uniquely indexes the specific physical drill location (BH-001).

Total Depth: Displays the complete downward excavation length (35.0 m).

Reduced Level (RL): Benchmarks the surface starting height relative to the regional topographic level (20.0 m

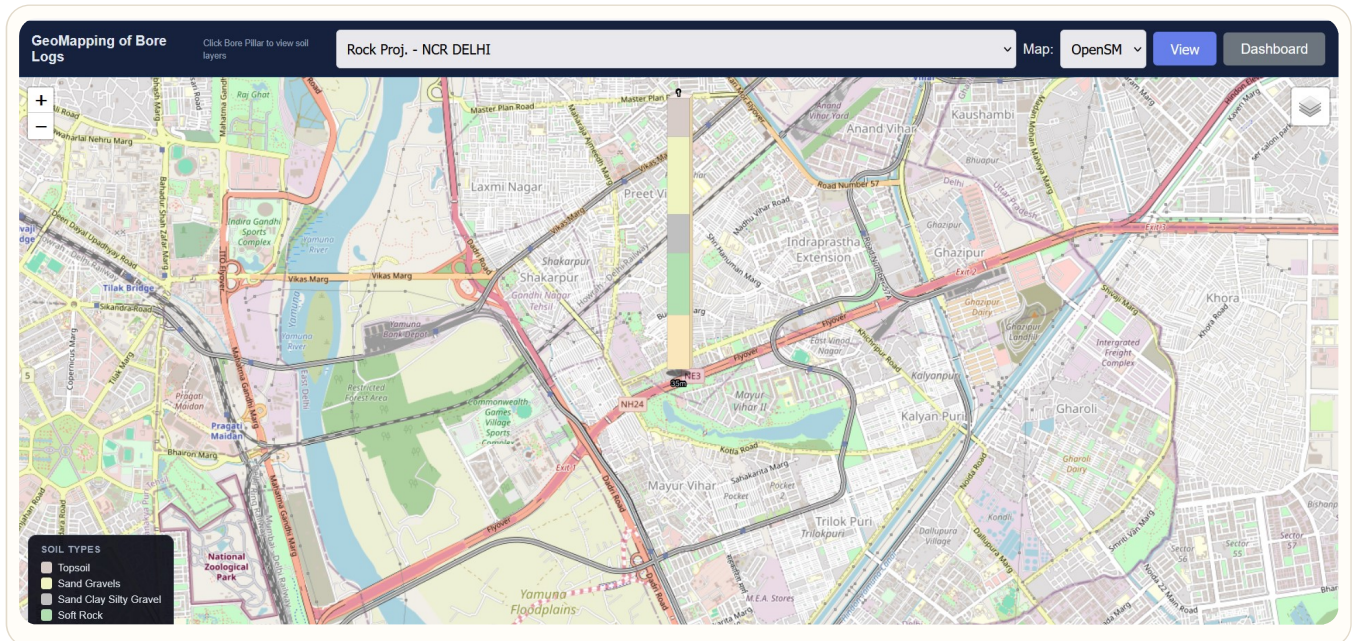
(Datum)).

Groundwater Depth: Notes the settled structural water level encountered inside the column (11.0 m (Static)).

Drilling Method: Documents the specific mechanical method utilized to pierce underlying geology (Rotary Wash).



Geomapping of Boreholes



Screen Overview:

The GeoMapping of Bore Logs interface allows users to visualize geotechnical and soil profile data geographically across specific project zones. It integrates map navigation with spatial soil layer logs to assist in geological and structural planning.

Project Selection: Use the project dropdown menu at the top center (e.g., Rock Proj. - NCR DELHI) to load borehole data specific to a region or contract.

Map Base Options: Switch between different map views (such as OpenSM) using the Map dropdown in the top right corner.

Navigation Tools: Use the standard zoom controls (+ and -) located in the top-left corner to navigate the map.

Interactive Bore Pillars: Click directly on any highlighted bore pillar marker on the map (such as the NE3 marker near NH24) to open and view detailed vertical soil layer distributions.

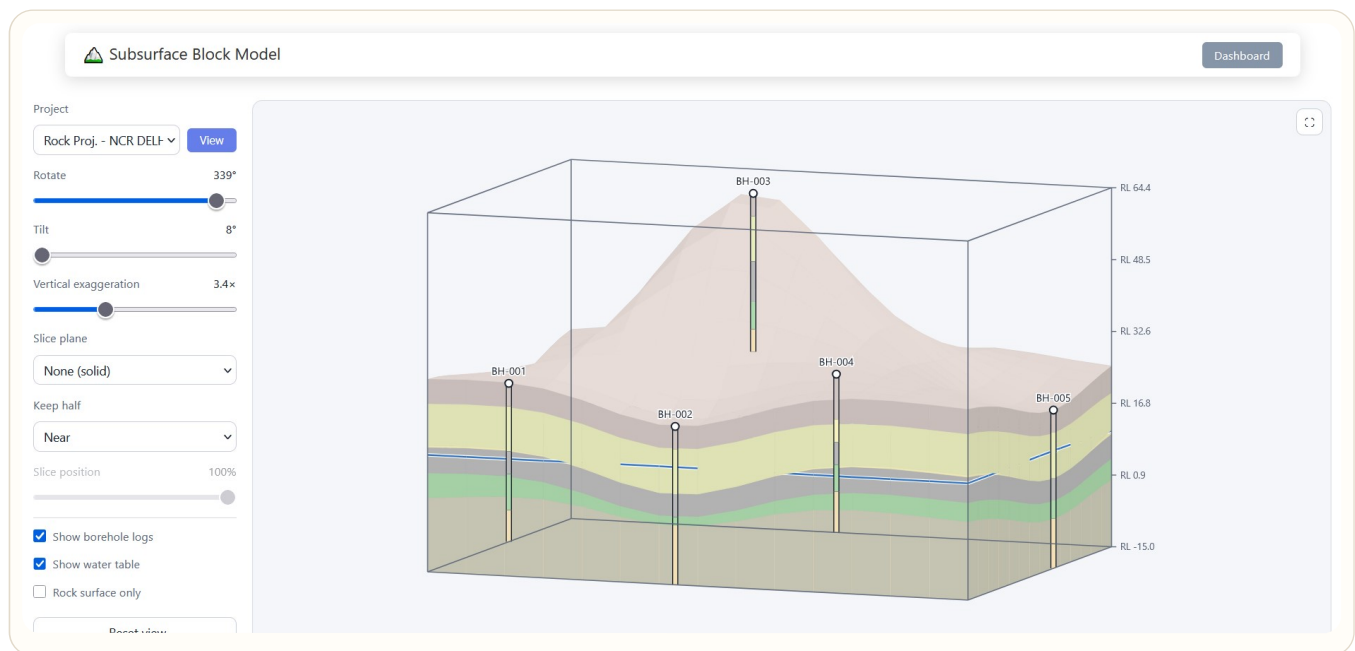
Soil Type Legend: Refer to the fixed panel in the bottom-left corner to quickly decode soil classifications, including:

Topsoil, Sand Gravels, Sand Clay Silty Gravel, Soft Rock, etc.

The latitude and longitudes location values of the bore hole are saved in the borelog master.



3D Subsurface Model 1



The Subsurface Block Model screen provides a dynamic 3D rendering of geotechnical data, interpolating borehole logs into a volumetric block diagram to visualize continuous geological strata, topography, and water tables across a project area.

Key Features & Controls:

Project Selector: Use the dropdown menu to choose your target project (e.g., Rock Proj. - NCR DELHI) and click View to load its 3D block model.

3D Camera Adjustments: Use the sliders in the left panel to manipulate the model's orientation:

Rotate / Tilt: Orbit the block model to view subsurface formations from different spatial angles.

Vertical Exaggeration: Scale up the vertical height relative to horizontal distance to emphasize thin soil or rock layers.

Cross-Sectional Slicing: Use the Slice plane options to cut open the block model along specified axes, adjusting the Slice position slider

and Keep half parameters to inspect internal layer structures.

Layer Visibility Toggles: Use the checkboxes at the bottom left to filter visible elements:

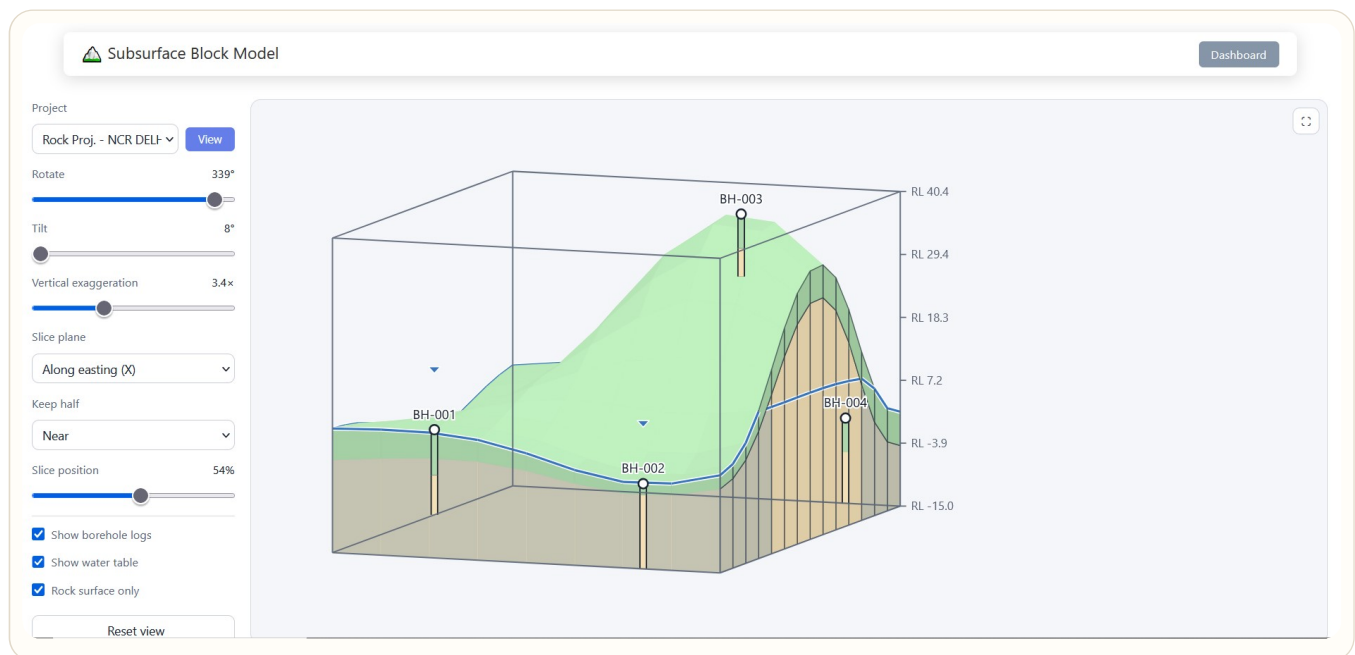
Show borehole logs: Overlays the individual physical borehole columns (e.g., BH-001 through BH-005) inside the model.

Show water table: Renders the continuous blue water table surface cutting through the strata.

Rock surface only: Strips away soil overburden to reveal the isolated bedrock topography.



3D Subsurface Model 2



This specific view demonstrates the interface's slicing capabilities, allowing users to cut open the 3D block model to inspect internal geological layers, changing water tables, and cross-sections of individual borehole logs.

Active Modifications & Layer Controls:

Slice Plane Isolation: The Slice plane is set to Along easting (X) with a Slice position of 54%. This isolates a precise cross-sectional plane through the model, removing the front block to expose the internal profile.

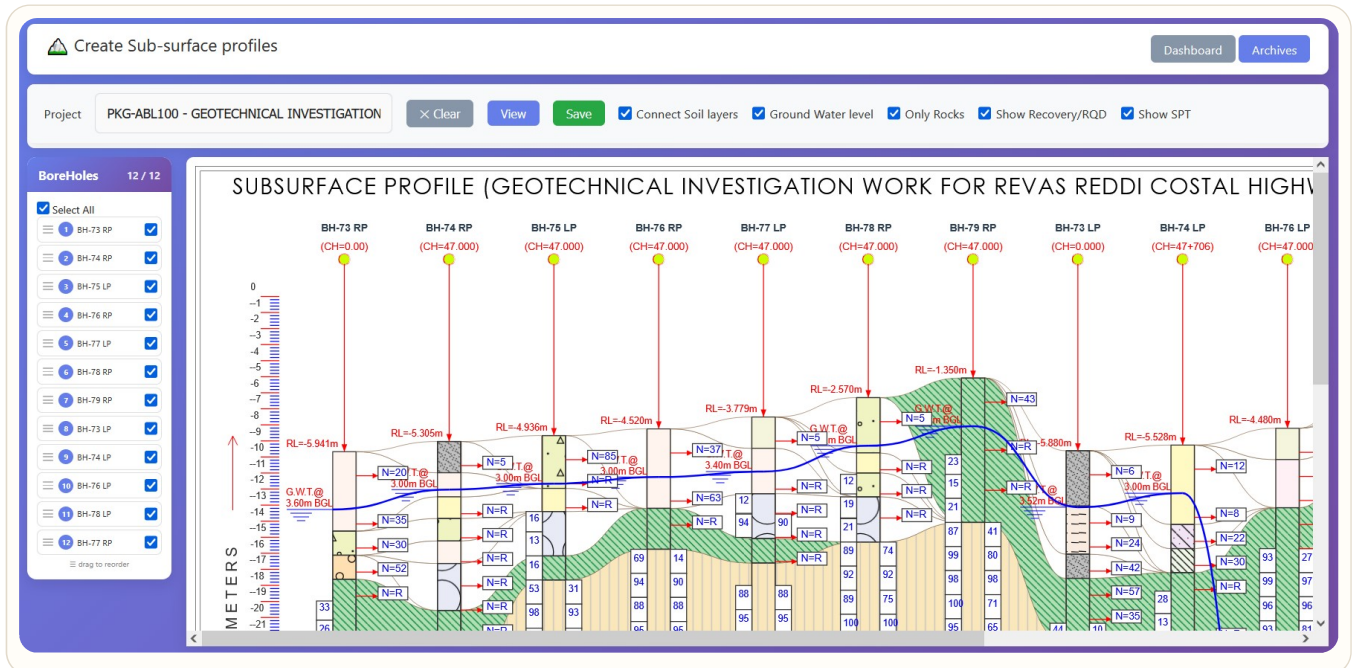
Bedrock Focus: The Rock surface only checkbox is enabled. This filters the 3D block to display the continuous rock layers and bedrock topography while masking upper soil layers.

Reduced Borehole Array: Because of the active slice plane position, only four active borehole markers (BH-001, BH-002, BH-003, and BH-004) intersect the visible cutting plane, showing their depths relative to the rock line.

Reduced Reduced Level (RL) Scale: The right vertical axis dynamically scales to match the sliced coordinates, tracking elevations from RL 40.4 down to RL -15.0.

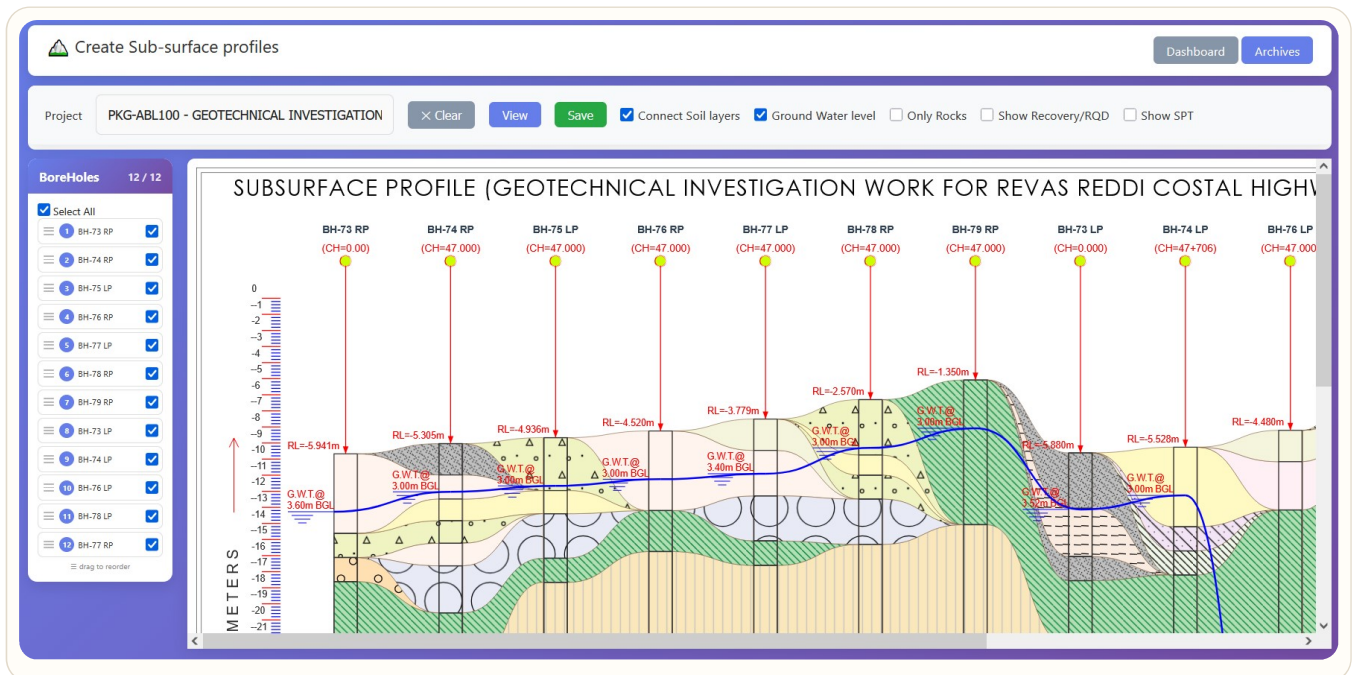


Create Subsurface Profiles





Subsurface Profile



The Create Sub-surface Profiles screen enables users to generate, visualize, and configure continuous cross-sectional geological profiles by connecting data from multiple selected boreholes along a project alignment.

Key Features & Controls

Project Context: Displays the active project name (e.g., PKG-ABL100 - GEOTECHNICAL INVESTIGATION) in the top control bar.

BoreHole Selection Panel: Use the left sidebar to manage the boreholes included in the profile:

Checkbox Selection: Check or uncheck individual boreholes (e.g., BH-73 RP) to instantly add or remove them from the cross-section.

Drag to Reorder: Click and drag borehole entries to rearrange their sequential order from left to right across the profile.

Profile Configuration Flags:

Toggle visualization layers using the checkboxes across the top menu:

Connect Soil Layers: Links matching soil strata continuously between adjacent boreholes.

Ground Water Level: Displays the computed blue water table line relative to the ground surface.

Only Rocks: Filters out soil data to isolate and focus strictly on rock formations.

Show Recovery/RQD: Displays core recovery and Rock Quality Designation metrics.

Show SPT: Overlays Standard Penetration Test (N-values) values directly onto the soil columns.

Action Buttons: Manage your session using the primary navigation buttons:

View: Refreshes and renders the profile visualization based on current selections.

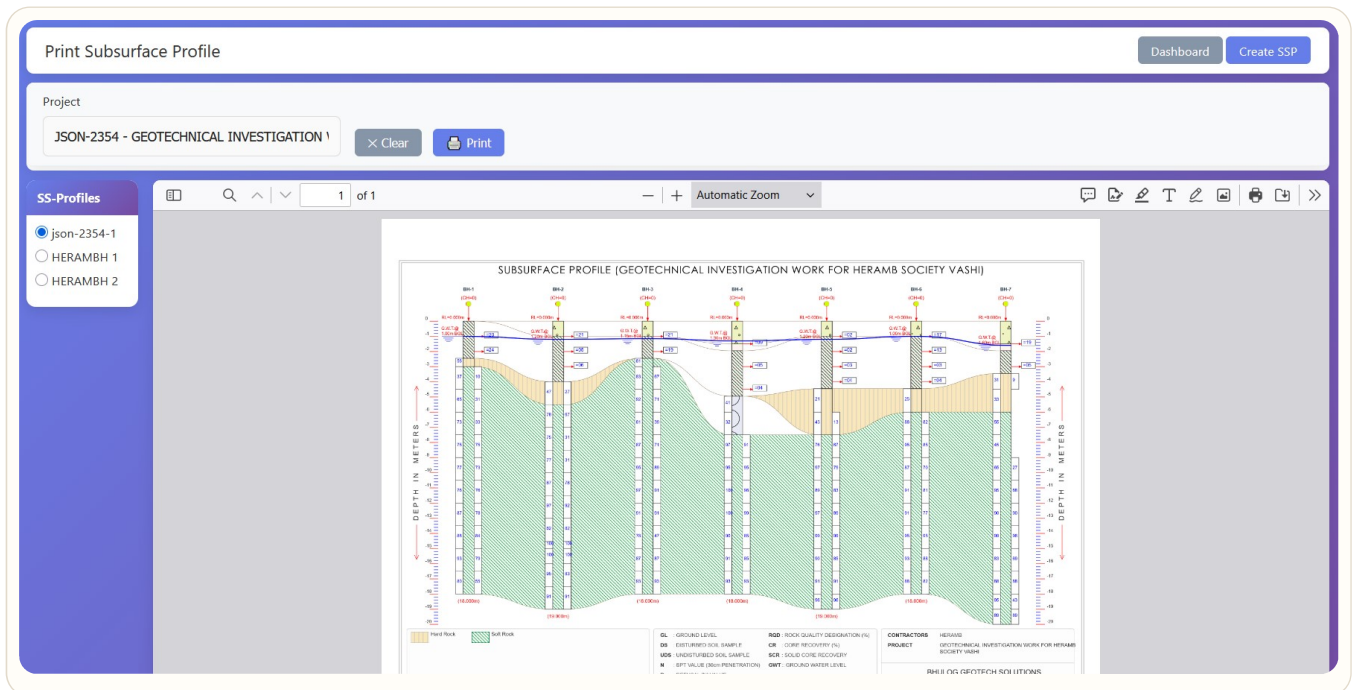
Save: Saves the customized sub-surface profile layout.

Clear: Resets all current configurations.

Dashboard / Archives: Quick links to return to the main mapping view or access saved historical profiles.



Print Subsurface Profiles



The Print Subsurface Profile interface provides a print-ready document preview panel where users can review, inspect, and export generated cross-sectional geotechnical reports for final distribution or inclusion in project documentation.

Key Features & Controls:

Project Selection: Displays the current project context (e.g., JSON-2354 - GEOTECHNICAL INVESTIGATION) with a Clear button to reset the selection.

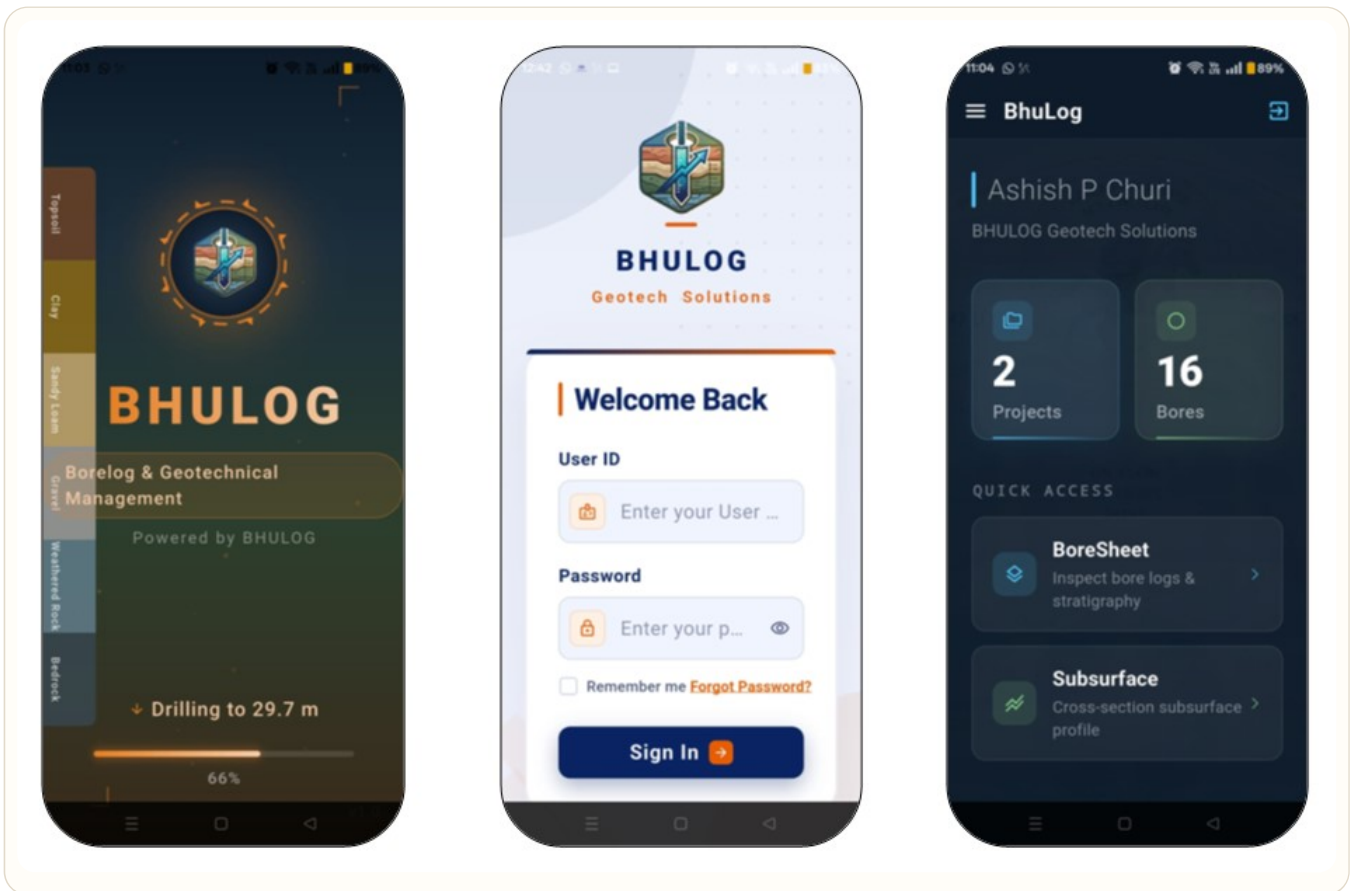
Profile Selection Sidebar: Use the SS-Profiles left panel to switch between different saved cross-sections (e.g., json-2354-1, HERAMBH 1, HERAMBH 2) to instantly load their respective print previews.

Document Action Tools: **Print:** Click the primary blue Print button in the top action bar to send the document directly to your local printer system or save it natively as a PDF.

PDF Viewer Controls: Use the interactive toolbar above the document to zoom, navigate multi-page reports, add text annotations, highlight specific borehole layers, or download the raw file.



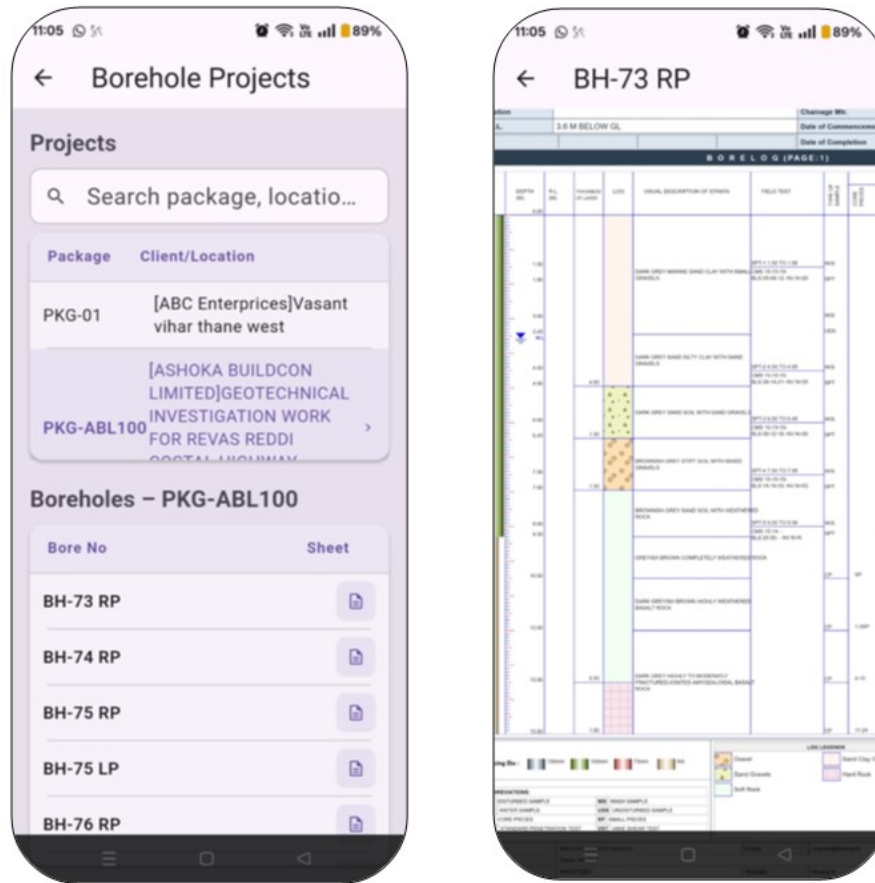
Bhulog Mobile App



The BHULOG mobile app is available on the Google Play Store. The login credentials will be the same as used in the BHULOG web application.



Bore Sheet

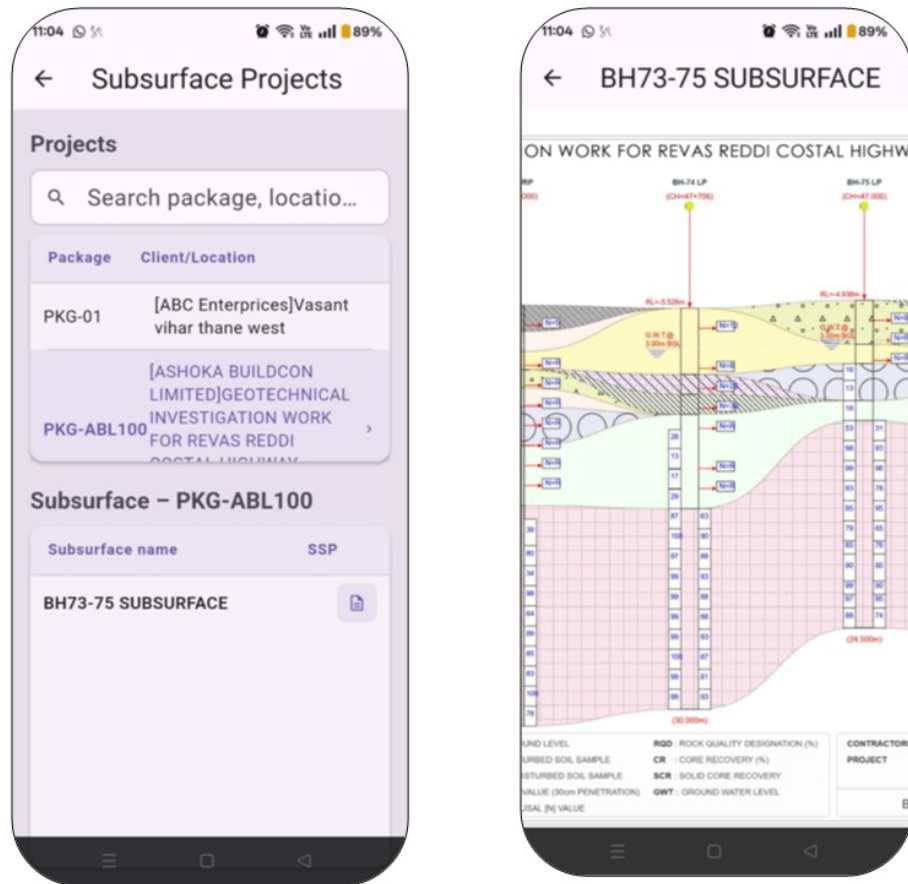


All approved Bore Sheets will be accessible from the app. A search option is provided to search the Project and on clicking on the project the list of bores of the selected project is displayed with two action buttons. One for viewing the Bore Sheet and other for viewing the Subsurface profile.

The app is also available to Clients for which the User IDs will be generated by the Geotech Agency.



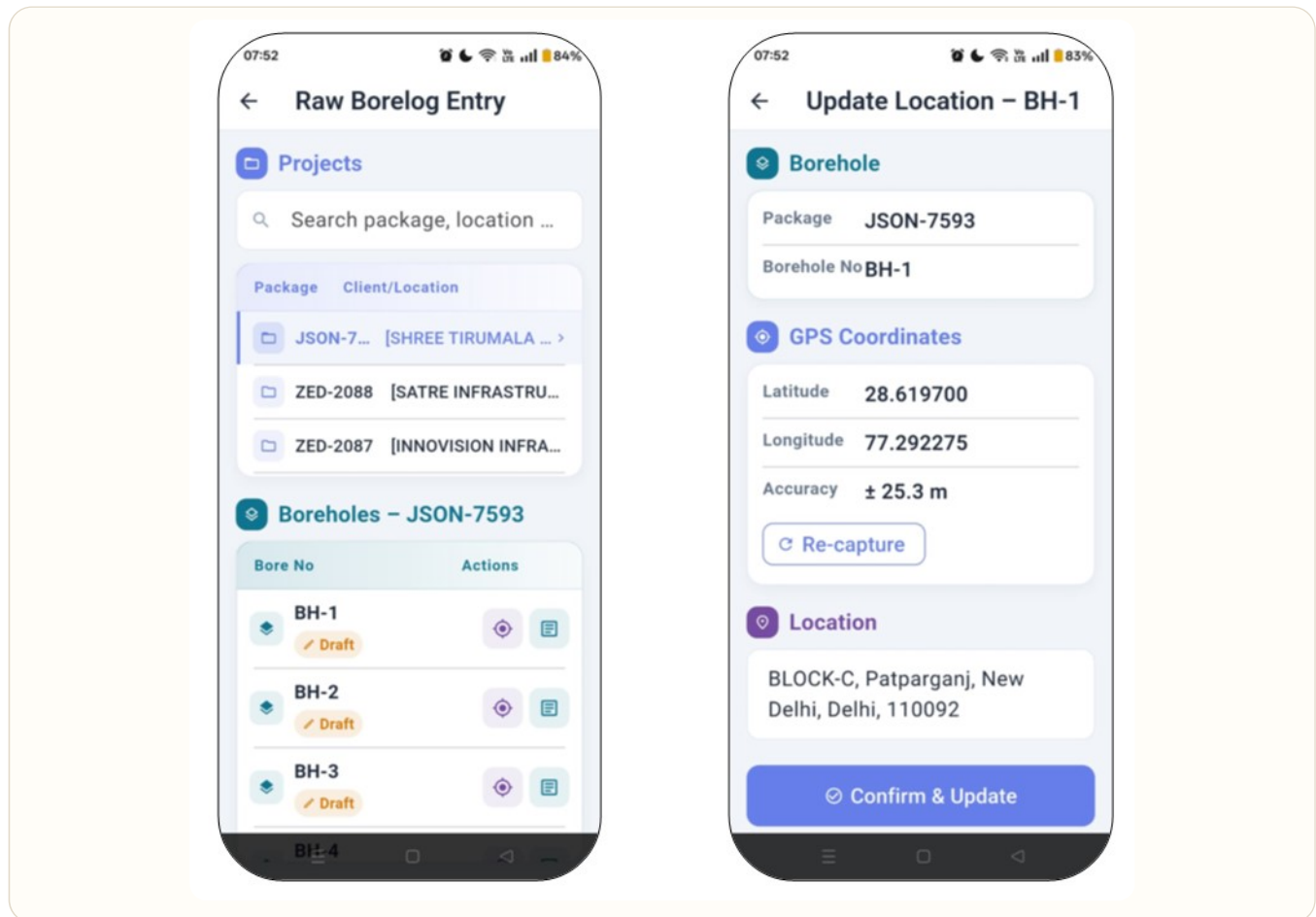
Subsurface Profile



All approved Subsurface profiles will be accessible from the app. A search option is provided to search the Project and on clicking on the project the list of bores of the selected project is displayed with two action buttons. One for viewing the Bore Sheet and other for viewing the Subsurface profile.



Raw Bore Entry



An interface is also available for Site Engineers to enter the Bore logger details as and when the drilling proceeds. Based on the online bore data a draft Bore Sheet can also be viewed in the mobile app based on the data entered on real time basis.

Before starting the Bore entry the Site engineer has to update the lat/long details of the exact bore hole location by just clicking on the GeoMap button from the actual location of the bore hole using the Mob App. The location will be automatically updated in the database. For this the location feature of the mobile should be switched ON.



Add/Edit Loggers

The image displays two screenshots of the BHULOG mobile application interface for adding a new log. The left screenshot shows the 'Add New Log' screen with the following sections:

- New Borelog Layer**: Bore No. BH 01 RHS MNB
- Identification & Depth**:
 - Date: 2026-07-10
 - Depth Fr...: 0
 - Depth...: [field]
- Soil & Strata**:
 - Strata Descript...: [field]
 - Soil Type *: Select Soil Type
- Buttons: Cancel, + Add Log

The right screenshot shows the 'Add New Log' screen with the following sections:

- Pen. time**: [field]
- SPT - CMS (max 15)**:
 - 1: 15, 2: 15, 3: 15, 4: 15
- SPT - BLS (max 50)**:
 - 1: 0, 2: 0, 3: 0, 4: 0
- SPT N-Value (auto)**: N=R
- Recovery & RQD**: [field]
- Buttons: Cancel, + Add Log

A very user friendly interface is provided for raw bore entry by the site engineers with all possible validation and auto generated SPT-N values.