

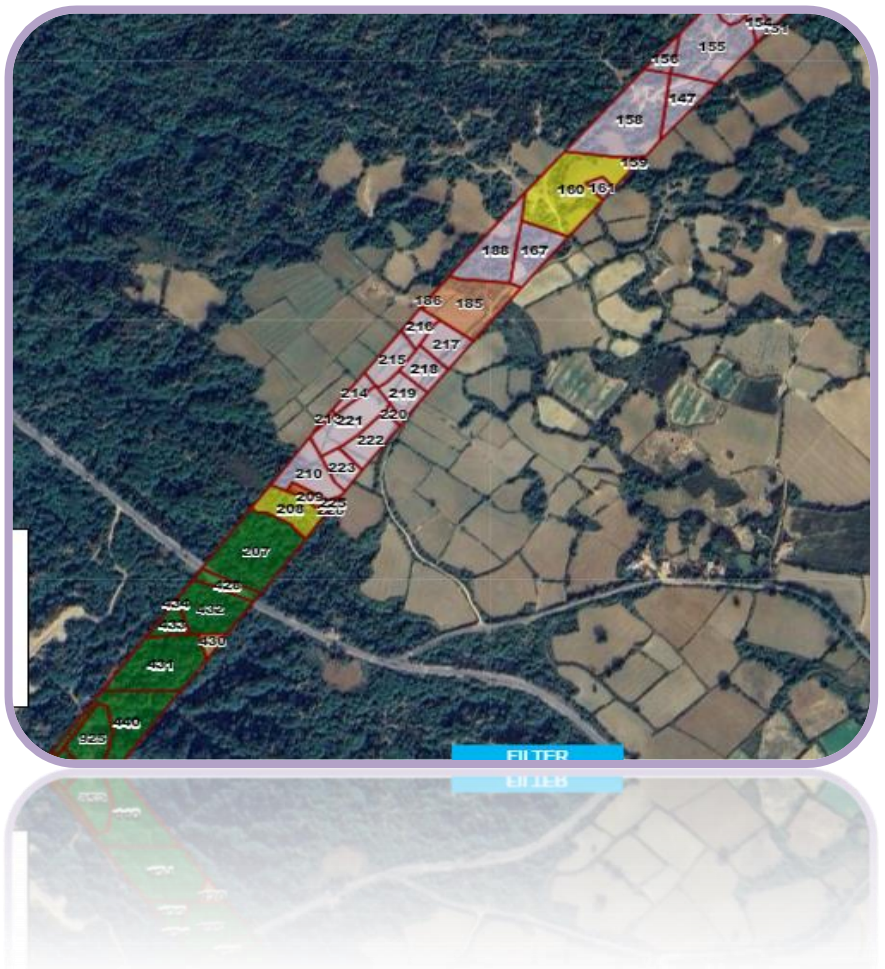


standard operating Procedure of “LAND HANDOVER GIS”

Concept

Land Handover is the process to handed over the land to contractor in GIS Environment.

Land Handover is the process between NH DIV. / RCC (BRO) / PIU - MORTH and Concessionaire where NH DIV. / RCC (BRO) / PIU - MORTH first taken possession with uploading supporting documents and put Remarks, after that Concessionaire Accept or Reject of that plot. The process of taken possession in 3 scenarios based upon certain conditions.



1) NH DIV. / RCC (BRO) / PIU - MORTH Login

A) The below screen will appear in the NH DIV. / RCC (BRO) / PIU - MORTH login where NH DIV. / RCC (BRO) / PIU - MORTH clicking on the **“UPC Number”** highlighted in red box the below screenshot in construction stage. Additionally search on **“Land Handover GIS”** on search tab and go the following page.

The screenshot shows the login dashboard for NH DIV. / RCC (BRO) / PIU - MORTH. The dashboard is divided into three main sections: Pre-Construction, Construction, and O & M. The Construction section is highlighted with a red box. Below the main sections, there are alerts for Pre-Construction, Construction, and O & M.

UPC	Project	Status	Alerts
N/04013/03001/MH-RCW	Nashik-Ahmednagar-RCW	Balance for Award	0
N/05044/03002/MH-RCW	4L PS from existing km 88.400 (Savali Vihar) to km 103.400 (start of Ahmednagar bypass)	Balance for Award	0

UPC	Project	Status	Alerts
N/04013/04001/MH-RCW	Ahmednagar Bypass-RCW	Under Construction (AD issued)	0
N/04013/04001/MH-RCW	4L of Ahmednagar - Mirajgaon - Karmala - Ahmednagar (Bypass)	Under Construction	0

UPC	Project	Status	Alerts
N/05017/04001/MH-RCW	4L Elevated Structure (Flyover) from Sakhar Chowk to SB Chowk on Pune - Aurangabad Road in Ahmednagar city-RCW	CC Issued & O&M by Construction Agency	0

★ Alerts ★

Pre-Construction	Construction	O & M
0 Payments	0 Payments	0 Payments
0 Clearances	0 Time Management	
0 Land		
0 Time Management		

B) By clicking on the **“UPC”** NH DIV. / RCC (BRO) / PIU - MORTH redirected to Land Handover GIS Page.

The screenshot shows the Land Handover GIS Page. The page displays a table with project details and a grid of construction stages. The 'Land Handover GIS' stage is highlighted with a red box.

UPC	N/04013/04001/MH	Status	Under Construction (AD issued)	PIU	PIU- Ahmednagar	RO	RO- Mumbai	Division	Maharashtra	Mode	HAM	Length	40.6
Contractor	GHV (India) Pvt Ltd.	Appointed Date	21/07/2021	Construction Completion Date	20/07/2023	Completion Date	06/01/2024	Physical Progress	80.57 %	Financial Progress	80.57 %		
AE/IE	Dhruv Consultancy Services Limited - Arkitechno Consultants (India) Pvt Ltd												

Construction									
Permits & Clearances	Appointed Date	Design And Drawing	Construction Progress	Quality & Safety	Monitoring & Reporting	Commissioning	Road Safety	Monitoring & Reporting O&M	Project Life Cycle Document
Applicable Permits	OnBoarding Contractor	Design and Drawing of Project	Land Handover Progress	Quality Assurance Plan	AE/IE MPR - Construction	Punch List Monitoring	Road Safety Month/Week	NSV Report	Appointments Details
RUE/ROB/AD (Applicable & Approved)	Land Handover GIS	Submission Work Program	Utility Shiftings	Issuance of NCR	Contractor's Progress Document		Road Safety Audit - Data Submission	NSV Priority Maintenance Form	Completion Stage Project Document
Utility Shifting (Data and Documents)		Methodology	eWorks Diary	Test - Daily Lab Testing Report	Drone Videos Legacy		Blackspot 2011-14	Site Order Book	Construction Plan Details

c) NH DIV. / RCC (BRO) / PIU - MORTH Click on Action Button and click on **“Update”** button which highlighted in red box and redirected to next page and all the respective projects summary shown in this page.

Land Handover GIS

PDF Excel Show 10 entries Search:

S.No	Action	UPC	Total Area (ha)	Total Area(Possessed) (ha)	Total Area(Partially possessed) (ha)	Total Area(Not Possessed) (ha)	Total Area handedover to Contractor (ha)	Total No. of Survey Plot	Total No. of survey Plot Possessed	Total No. of Survey Plot handedover to Contractor
1	Update	N/04013/04001/MH	485.893520095200	27.831428090380	65.049154311340	393.012937863480	11.073977511290	3317	111	55
2		N/04013/05003/MH	272.014507873280	12.712589305590	33.812273107050	225.669645459620	7.007398895190	1836	53	31
3	Actions	N/05017/04001/MH	328.360704975000	2.789804428800		323.570900549480	2.789804428800	1380	6	6

Showing 1 to 3 of 3 entries Previous 1 Next

D) Detail Plot information with **Status of plot** displayed here and NH DIV. / RCC (BRO) / PIU - MORTH click on **“Proceed to GIS Page for LA Status Updation”**

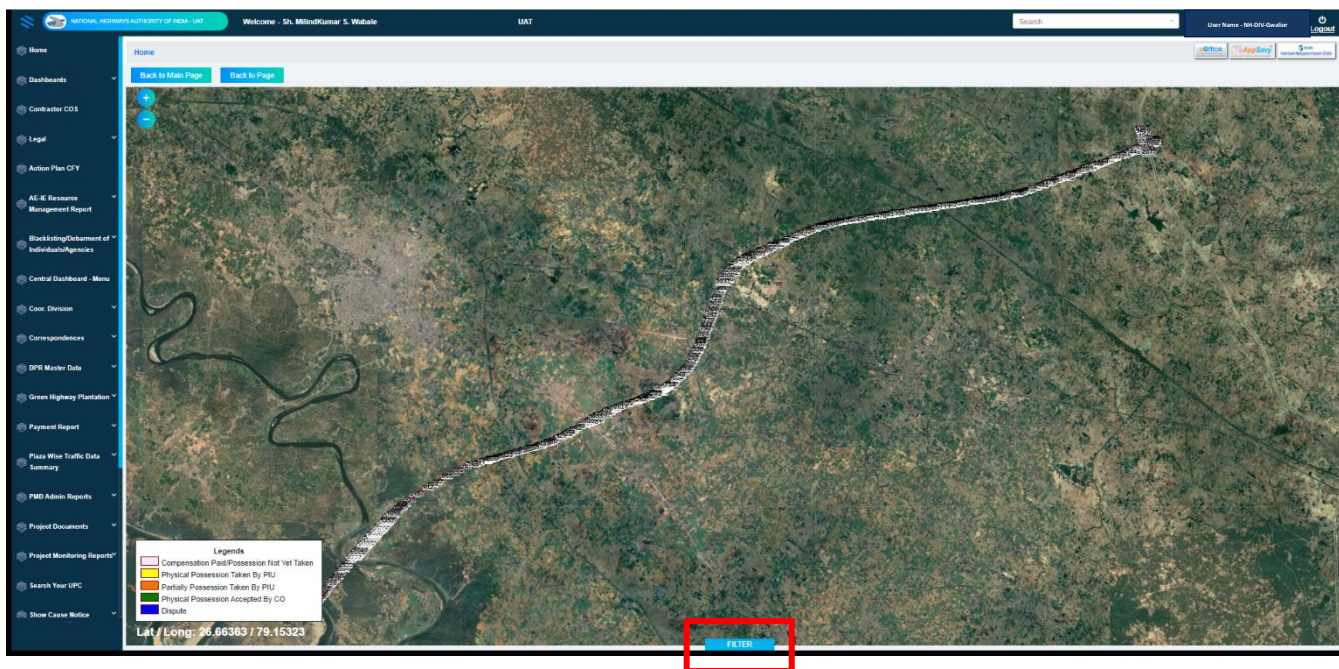
Land Handover GIS

PDF Excel Show 10 entries Search:

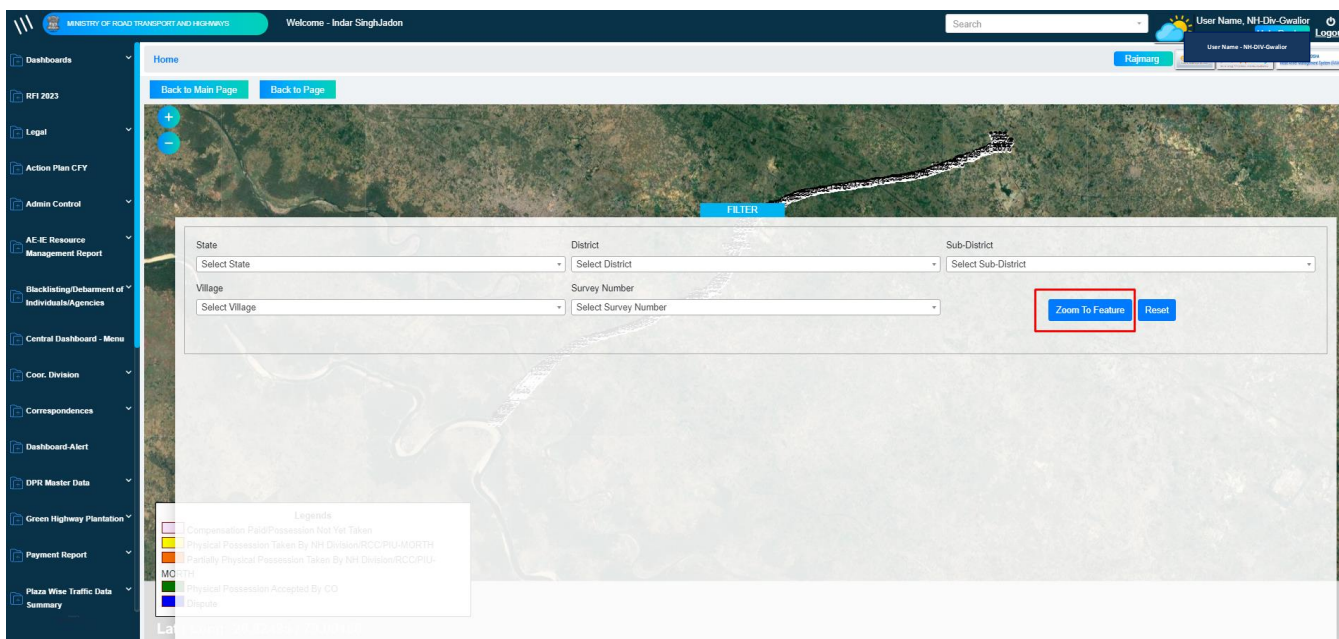
Proceed to GIS Page for LA Status updation Back to Grid

S.No	UPC	Status	State	District	Tehsil	Village	Khasra No / Plot No	Type	Nature	Ownership	Area (ha)	Area (Sq. mt.)	LA Status(PIU)	Ready for Handover	Remarks by PIU	LA status Submitted by PIU (DateTime)	Handover Status(CO)	Remarks by CO
1	N/04013/04001/MH	Submitted by PIU	-	Etawah	Bharthna	Medioduh	777	Private			0.80378104810	8037.81048100000	0	Yes	Final Testing Entry	07/04/2023 08:21:44 PM		
2	N/04013/04001/MH	Submitted by PIU	-	Etawah	Bharthna	Medioduh	777	Private			0.80378104810	8037.81048100000	0	Yes	Final Testing Entry	07/04/2023 08:21:44 PM		
3	N/04013/04001/MH	Submitted by PIU	-	Etawah	Bharthna	Birari	1344	Private			0.19904781807	1990.47818074000	Not possessed	Yes	no tap la status	07/04/2023 08:31:47 PM		
4	N/04013/04001/MH	Submitted by PIU	-	Etawah	Bharthna	Birari	1344	Private			0.20009250784	2000.92507838000	Not possessed	Yes	no tap la status	07/04/2023 08:31:47 PM		
5	N/04013/04001/MH	Submitted by PIU	-	Etawah	Bharthna	Nigohika	481	Private			0.18157715567	1815.77155668000	Partially possessed	Yes	remarks	07/04/2023 08:58:37 PM		
6	N/04013/04001/MH	Submitted by PIU	-	Etawah	Bharthna	Nigohika	481	Private			0.18157715567	1815.77155668000	Partially possessed	Yes	remarks	07/04/2023 08:58:37 PM		

e) This page displayed plot information in GIS environment and click on Filter button highlighted in Red Box



f) NH DIV. / RCC (BRO) / PIU - MORTH select on filter option and select the **State, District, Sub District, Village and Khasra No** and click on Zoom to Feature button Which is highlighted in Red Box or using zoom button with pan.



g) After Zoom to Feature button, it displayed particular plot on map with details

The screenshot shows the 'Land Handover GIS' map interface. A satellite map displays a plot highlighted in yellow. A legend in the bottom left corner identifies the plot types: Compensation Paid/Possession Not Yet Taken (pink), Physical Possession Taken By PIU (yellow), Partially Possession Taken By PIU (orange), Physical Possession Accepted By CO (green), and Chipkali (blue). A right-hand panel displays details for the selected plot, including Project Code, LA Status, Remarks, and various area measurements.

h) The status of that information and documents shown on the detail plot information grid, also user download the document. The activity log details also represent if contractor reject the plot and all the history shown.

Land Handover GIS

PDF Excel

Show 10 entries

S.No	UPC	Status	State	District	Tehsil	Village	Khasra No / Plot No	Type	Nature	Ownership	Area (ha)	Area (Sq. mt.)	LA Status(PIU)	Ready for Handover	Remarks by PIU	LA status submitted by PIU (Date/Time)	Handover Status(CO)	Remarks by CO	Handover status submitted by CO (Date/Time)	CALA reference Doc. (PIU)	Handover Reference Doc by Contractor	Area of Actual possession (ha)	View Activity Log
1	N/04013/04001/NH	Submitted by PIU	Elawah	Bharthna	Mediduthi	777	Private				0.80378104810	8037.81048100000	0	Yes	Final Testing Entry	07/04/2023 06:21:44 PM				+	-		
2	N/04013/04001/NH	Submitted by PIU	Elawah	Bharthna	Mediduthi	777	Private				0.80378104810	8037.81048100000	0	Yes	Final Testing Entry	07/04/2023 06:21:44 PM				+	-		
3	N/04013/04001/NH	Submitted by PIU	Elawah	Bharthna	Birari	1344	Private				0.19994781807	1999.47818074000	Not possessed	Yes	no tap la status	07/04/2023 06:31:47 PM				+	-		
4	N/04013/04001/NH	Submitted by PIU	Elawah	Bharthna	Birari	1344	Private				0.20009250764	2000.92507638000	Not possessed	Yes	no tap la status	07/04/2023 06:31:47 PM				+	-		
5	N/04013/04001/NH	Submitted by PIU	Elawah	Bharthna	Nigha Ika	481	Private				0.18157715567	1815.77155666000	Partially possessed	Yes	remarks	07/04/2023 06:56:37 PM				+	-	0.16157715567	View Activity Log
6	N/04013/04001/NH	Submitted by PIU	Elawah	Bharthna	Nigha Ika	481	Private				0.18157715567	1815.77155666000	Partially possessed	Yes	remarks	07/04/2023 06:56:37 PM				+	-	0.16157715567	View Activity Log
7	N/04013/04001/NH	Submitted by PIU	Elawah	Elawah	Jaholi	185	Govt				0.34479127354	3447.91273543000	Partially possessed	Yes	ok	07/08/2023 12:59:44 AM				+	-	0.321	View Activity Log
8	N/04013/04001/NH	Submitted by PIU	Elawah	Elawah	Jaholi	209	Private				0.04886232024	488.62320238100	Partially possessed	No	co not deemed	18/05/2023 10:36:06 AM				+	-	32.363	View Activity Log
9	N/04013/04001/NH	Submitted by PIU	Elawah	Elawah	Jaholi	209	Private				0.04886232024	488.62320238100	Partially possessed	No	co not deemed	18/05/2023 10:36:06 AM				+	-	32.363	View Activity Log
10	N/04013/04001/NH	Accept by	Elawah	Bharthna	Birari	1467	Private				0.17023411660	1703.34116602000	Possessed	Yes	ok	01/04/2023	Accept	accept doc	07/04/2023	+	-		

Case Scenario - 1

Case Scenario – When Concessionaire accept or reject the plot after NH DIV. / RCC (BRO) / PIU - MORTH Physically taken possession of that Plot.

Accept Scenario Case on Concessionaire

NH DIV. / RCC (BRO) / PIU - MORTH Login

I) NH DIV. / RCC (BRO) / PIU - MORTH click on LA Status and select “**possessed**” with upload CALA reference doc, Remarks (optional) and The amount of land in possession would be deemed to be ready for handover to the CO should select “**Yes**” and click on Update button.

Result – The plot would possessed by NH DIV. / RCC (BRO) / PIU - MORTH and status changed from “**Compensation Paid/ Possession not Yet Taken**” to “**Physical possession taken by NH DIV. / RCC (BRO) / PIU - MORTH**”. Plot information color change according to status that shown on Legend (view the plot – same process through filter search)

The screenshot shows the NH DIV. / RCC (BRO) / PIU - MORTH login interface. The main area displays a map with a highlighted plot. The sidebar on the right contains the following information:

Information	
Project Code	
LA Status	Possessed
Upload CALA-reference doc	
PIU Remarks	ok
The amount of land in possession would be deemed to be ready for handover to the CO	YES
District: Elavah	
Tahsil: Elavah	
Village: Rampara	
Khata No: 562	
Type: Govt	
Nature:	
Area (sqm)	8223.10829187000
Area (ha)	0.82231082920
Ownership:	

Concessionaire (CO / Contractor Log In)

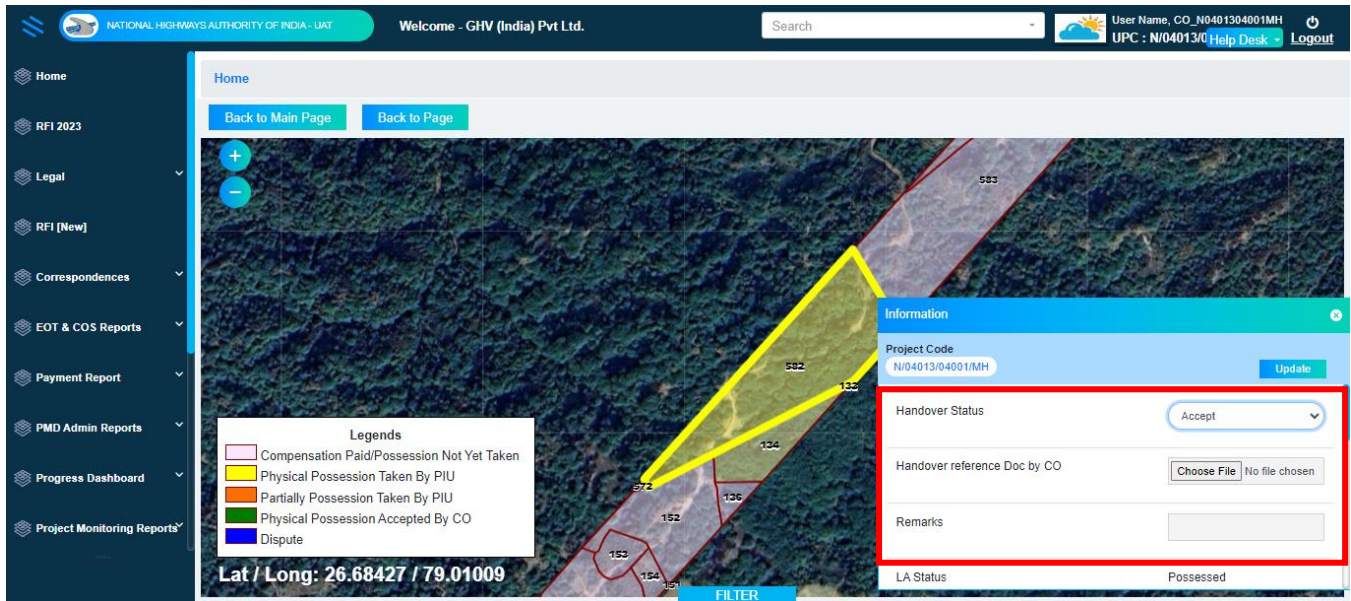
I) The below screen will appear in the Contractor login where Contractor reach to Land Handover GIS Module with the same process that shown in previous.

The screenshot shows the Contractor login interface. The top section displays a project overview table:

UPC	NH/4013/04001/MH - RCW	Status	Under Construction (AD Issued)	PIU	PIU - Ahmednagar	RO	RO - Mumbai	Division	Maharashtra	Mode	HAM	Length	40.5
Contractor	GHV (India) Pvt Ltd.	Appointed Date	21/07/2021	Construction Completion	20/07/2023	Completion Date	20/07/2023	Physical Progress	50.45	Financial Progress	50.45		

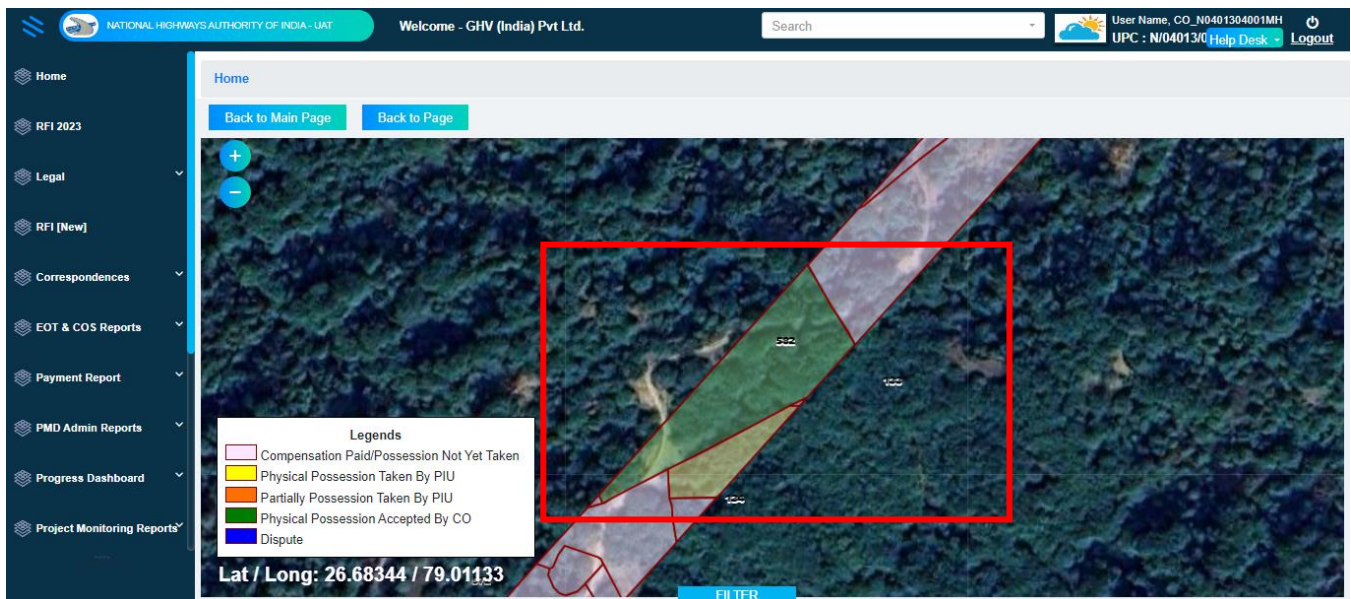
Below the table is a grid of modules. The 'Land Handover GIS' module is highlighted with a red box.

II) Concessionaire click on Handover Status and select “Accept” with upload Handover reference doc by CO and put Remarks (optional). Then click on Update button.



III) Plot information color change according to status that shown on Legend (view the plot – same process through filter search)

Result - The plot successfully accepted by Contractor and plot information color change according from “*Physical possession taken by NH DIV. / RCC (BRO) / PIU - MORTH*” to “*Physical Possession accepted by Concessionaire (CO)*”.



Case 2

Case Scenario – when NH DIV. / RCC (BRO) / PIU - MORTH taken possession but some of reason NH DIV. / RCC (BRO) / PIU - MORTH can't provide handover the plot to contractor

NH DIV. / RCC (BRO) / PIU - MORTH Login

I) NH DIV. / RCC (BRO) / PIU - MORTH click on LA Status and select **“Possessed”** with upload CALA reference doc, Remarks (optional) and **“The amount of land in possession would be deemed to be ready for handover to the CO”** should select **“NO”** and click on Update button.

Result – The plot would possessed by NH DIV. / RCC (BRO) / PIU - MORTH and status changed from **“Compensation Paid/ Possession not Yet Taken”** to **“Physical possession taken by NH DIV. / RCC (BRO) / PIU - MORTH”** but Contractor cant taken any action on that. When NH DIV. / RCC (BRO) / PIU - MORTH again click on that plot and mark possessed and **“The amount of land in possession would be deemed to be ready for handover to the CO”** should select **“YES”** and update after that contractor **Accept/Reject** it.

The screenshot displays the NHAI Land Handover GIS Map interface. The main map shows a plot highlighted in yellow, indicating 'Physical Possession Taken By PIU'. A legend on the left lists the following categories:

- Compensation Paid/Possession Not Yet Taken
- Physical Possession Taken By PIU
- Partially Possession Taken By PIU
- Physical Possession Accepted By CO
- Dispute

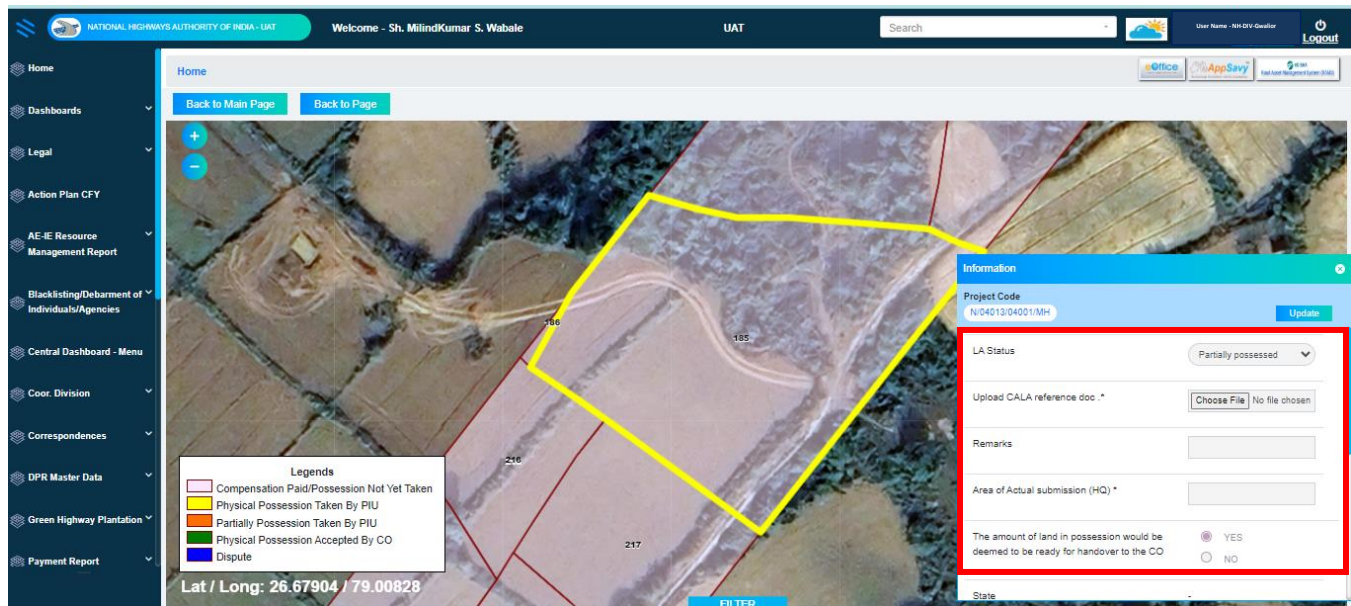
The right-hand panel shows the 'Information' form for the selected plot. The 'LA Status' is set to 'Possessed'. The 'Upload CALA reference doc.' field is empty. The 'PIU Remarks' field contains the text: 'The amount of land in possession would be deemed to be ready for handover to the CO', which is highlighted with a red box. The 'State' is set to 'Etawah' and the 'District' is 'Etawah'.

Case 3

Case Scenario – when NH DIV. / RCC (BRO) / PIU - MORTH taken possession in partially and after successfully taken complete possession, Contractor only Accept/Reject that plot. This possession of land (Partially) NH DIV. / RCC (BRO) / PIU - MORTH taken multiple times and finally taken complete possession.

NH DIV. / RCC (BRO) / PIU - MORTH Login

I) NH DIV. / RCC (BRO) / PIU - MORTH click on LA Status and select “**Partially Possessed**” with upload CALA reference doc, Remarks (optional) & Area of Actual submission (ha) can put by NH DIV. / RCC (BRO) / PIU - MORTH (not more than total area of that plot), again taken multiple possession and finally taken complete possession.



Result – The plot would possess by NH DIV. / RCC (BRO) / PIU - MORTH and status changed from “**Compensation Paid/ Possession not Yet Taken**” to “**Partially Physical possession taken by NH DIV. / RCC (BRO) / PIU - MORTH**” but Contractor can’t take any performance on that whenever NH DIV. / RCC (BRO) / PIU - MORTH can’t complete possession on that. Plot information color change according to status (view – same process through filter search).

