

# Operational Manual for

E-GREEN WATCH

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<http://www.egreenwatch.nic.in>

Integrated e-Governance Portal for Automation, Streamlining & Effective Management of Processes related to utilization of funds under various schemes (including CAMPA)

Designed and developed by

NATIONAL INFORMATICS CENTRE

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**Ministry of Environment and Forests**  
GOVERNMENT OF INDIA

**e-Green Watch**  
Integrated e-Governance Portal for Automation, Streamlining & Effective Management of Processes related to utilization of CAMPA funds

**Live Statistics**

Total land earmarked for CA (Ha.)	45367.208
Total no. of pieces of land registered for CA plantation	1635
Total land earmarked for CA plantation (Ha.)	53585.519
Total no. of registered plantation works	717
Total area covered under plantation (Ha.)	13147.447
Diverted sites that can be viewed on Google	407
CA sites that can be viewed on Google	169
Plantation works that can be viewed on Google	231

**FCA Projects**

- State-Wise FCA (Forest Conservation Act) Projects
- Division-Wise Summary of FCA Projects and Plantation Works
- Range-Wise Summary of FCA Projects and Plantation Works
- Division-Forest Type wise details of Diverted Lands
- Range-Forest Type wise details of Diverted Lands
- Details of Forest Land Diverted for FCA projects
- Details of Land received from UA for Compensatory Afforestation
- FCA Projects-wise Details of Funds: Demanded from User Agency(UA), Received from UA
- State level Summary of Forest Diverted sites that can be viewed on Google
- View & Download KML File of CA Land

**FCA Projects**

- Andhra Pradesh
- Madhya Pradesh
- Sikkam
- Tripura
- Karnataka
- Others.

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## **Executive Summary**

i-CCMES/e-Green Watch is an integrated e-governance portal for automation, streamlining & effective management of processes related to utilization of CAMPA funds and all other funds earmarked by States under various centrally or state sponsored schemes for plantation and other forestry related works.

### **System Description:**

Before the system was designed there was no integrated system in place for the effective and technology-enabled monitoring and evaluation of works in forestry sector and most of the monitoring was done using independent systems functioning in silos. Integrated and Holistic Approach was missing.

### **Target Audience**

The system is designed and targeted to be mainly used by all Range Offices, Division Offices, State Forest Departments, MoEF, Forest Survey of India, Agencies responsible for the evaluation of Forestry works. This is the first such system that facilitates a common platform for all stakeholders for the effective and transparent execution and monitoring of all plantation and forestry related works being carried out anywhere in the country under any centrally or state sponsored scheme.

The system has also been seamlessly integrated with Forestry related GIS infrastructure designed and developed by FSI and it helps the foresters in selection of sites for plantation, monitoring and evaluation of plantation activities being done on those sites.

The system also has several sub-systems that help the foresters in making several important decisions related to site and species selection. It has built-in databases related to various activities and other information related to forestry and plantation sector.

The relational database contains-

- the plantation species,
- characteristics of plantation work site (soil type, rainfall, temperature, slope, water availability)
- history of the success of the plantation of species on similar conditions

Therefore, this system will help in following:

- confirm and ensure the suitability of the area for plantation
- suitability of the species proposed to be used for plantation
- This system will minimize the chances of failed plantations as it will warn the foresters about the risks and non-suitability of the site/species as per the site conditions.

The project will also help in creating a geo-spatial database of all plantations and other works. It will now be very easy to ensure that more than one plantation work is not approved on the same site.

The system also exploits the satellite imagery being freely served by Google Earth (As a POC) to allow the public to view the satellite image of the plantation and other work sites. The change detection feature allows the users to view the satellite imagery over a period of time. It will now be easily possible to detect the failed plantations or the plantation works that have not even initiated.

High resolution satellite imagery will be procured to further allow the change detection and satellite imagery based monitoring of the plantation and other works.

It has a data base of the various soil types, species of plants, and allow the tracking and evaluation of success of the plantation. The results of the plantation are continuously being appended into the database and it further makes the system **intelligent**.

The system also disseminates detailed information on all works, their estimates, expenditure, progress reports, inspection/evaluation reports, satellite imagery, work photographs etc. in public domain to promote transparency in operations and social audit. Following data/transactions are captured in the system

**Master Data Management:**

- Administrative units/boundaries: State, District, Tehsil, Village, Khasra
- Forest boundary: State, Circle, Division, Ranges, beat, compartment
- Species: National, Local
- SOR: year-wise
- Scheme Specific Budget Heads

**Fund Management:**

- Funds transferred by National CAMPA to State CAMPA.
- Funds bifurcated (by state CAMPA) into different heads like, CA, NPV, ACA, PA, Safety zone etc.

**FCA Management:**

- List of all projects, all Diverted land details, all CA land details, demand from UA, amount received from UA

**Assets and Worksites Management:**

- Asset registration, Plantation details on non-CA/others and CA sites.
- **Sites:** Area, KML, Rainfall, Temperature, Soil Type, Water source, slope, etc.

**Works and Estimates:**

- Estimate preparation and

**Progress Reporting and Monitoring:**

- Online Plantation Journal (Cleaning, Casualty, Gap Plantation etc.),
- Registration of work Progress (Physical and financial),
- uploading of photos and imagery,
- site inspection reports, work evaluation (internal and external)














**View on FSI server: with forest cover, forest type**

**FSI-Works Evaluation and Monitoring: Evaluation report of FSI.**

**APOs:** could be prepared by using the system

View on Google: Polygons could be seen on Google. **Change Detection:** with\_high resolution images received from NRSC.

## (I) ICONS AND SYMBOLS USED IN THE SOFTWARE

1		Expand Main menu
2		Close Main menu
3		Add details
4		Edit details for a component
5		View details
6		View summary
7		Add mapping
8		Remove mapping
9		Upload Scanned file/document
10		View photographs of work-sites
11		Details of Diverted and CA land not available on Google Earth
12		GPS Files not uploaded
13		To upload KML file (Polygon) of the land
14		To upload points of polygon of the land
15		View the diverted or CA land on Google Earth

**(II) GLOSSARY**

FCA, 1980	Forest Conservation Act, 1980
CA	Compensatory Afforestation
CAMPA	Compensatory Afforestation Fund Management and Planning Authority
UA	User Agency i.e. Agency that has requested for diversion of forest Land under FCA, 1980
NPV	Net Present Value
GPS	Global Positioning System
CA work site	Land received from the user Agency for Compensatory Afforestation. In case the UA is not able to provide the land then CA can be proposed on Degraded Forests having double the area of diverted Land.  Land for CA can be in any other division and can be in more than one division
CAT	Catchments Area Treatment
PAF	Protect Area Funds
SZ	Safety Zone

### (III) STEPS TO BE FOLLOWED BY STATE FOREST DEPARTMENTS

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- Confirm that the master data related to the species, divisions and Ranges is complete
- Obtain the user name and passwords for all divisions and ranges from NIC, MoEF
- Confirm the registration of all FCA projects in the State
- Conduct the workshops/trainings for the division staff in association with NIC, MoEF and FSI
- Ensure the availability of the geography (boundaries) of all worksites (CA and others) in KML format.
- Confirm the details of the funds received from National CAMPA have been correctly registered in e-Green Watch Portal.
- Regularly monitor the status of the usage of the system by divisions by viewing the user activity report
- Regularly monitor the registration of the works, estimates, expenditure, work progress by the division/range user.

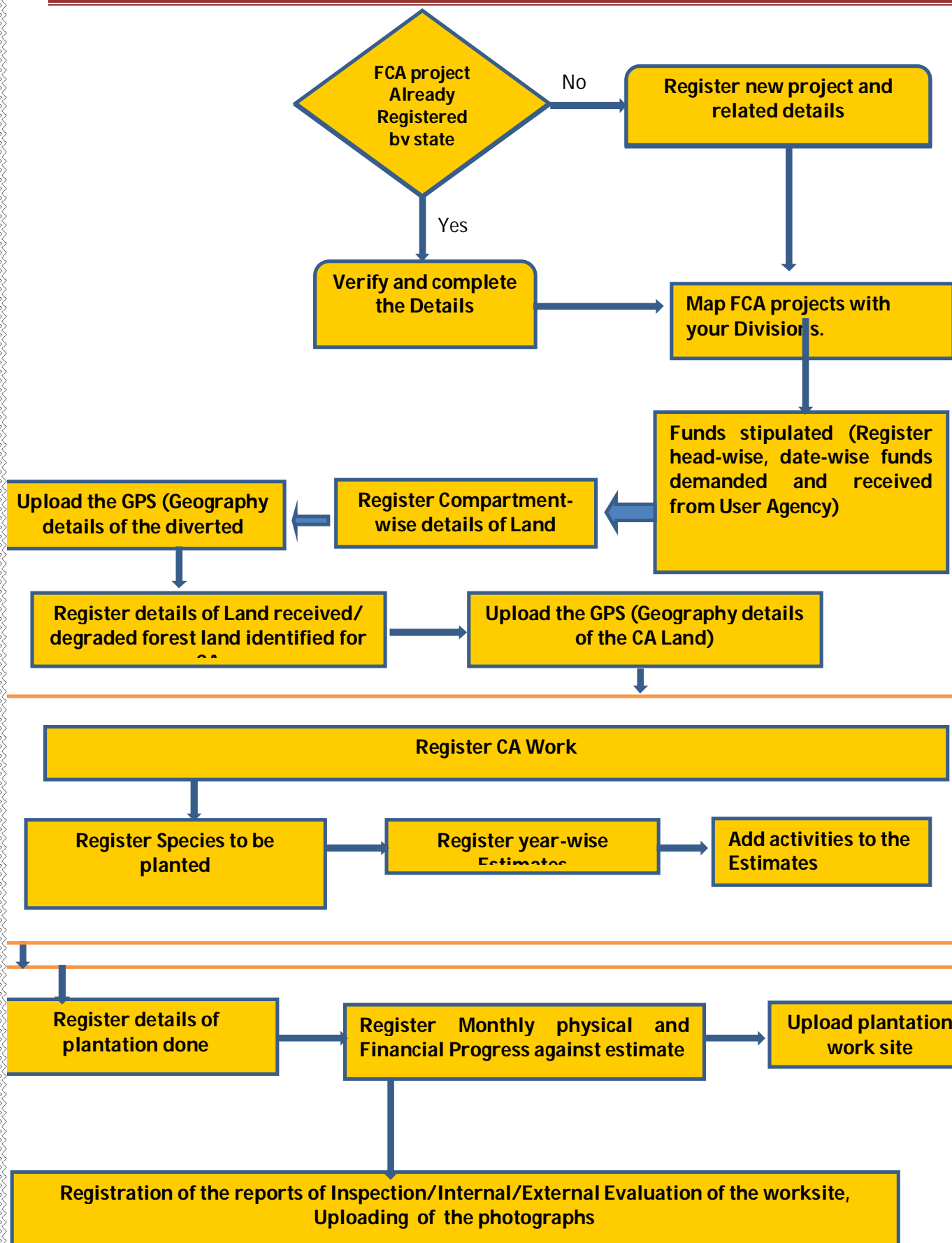


## (IV) OVERVIEW OF OPERATIONS FOR DIVISIONS

1. Check for the list of the FCA projects already registered on the portal and ensure that all the projects related to your division have been registered. Please confirm that the projects where the forest land has been diverted in your division or land for CA lies in your division needs to be registered.
2. Register the missing FCA projects related to your division
3. Map the FCA projects with your division. After mapping only the mapped projects will be shown to you.
4. Register following details related to the all the mapped projects:
  - a. Details of the head-wise amount to be collected from the User Agency
  - b. Head-wise details of the amount actually collected form the User Agency
  - c. Range-wise details of the land diverted against the project. Separate entries to be made for RF , PF , Proposed PF etc.
  - d. Upload the scanned copy of the map and GPS files of the diverted lands in KML format.
  - e. Details of details of the land received from User Agency for CA and their mapping with the ranges
  - f. Details of the Degraded Forest lands identified for CA against the FCA Projects.
  - g. Upload the scanned copy of the map and GPS files of the CA lands in KML format.
5. Register other plantation work sites that are not related to CA but where the plantation work is proposed to be carried out or is being carried out using the CAMPA funds under heads like NPV, Safety Zone, CAT.
6. Register the existing assets or proposed assets where the CAMPA funds are proposed to be used for creation of the asset or for the maintenance/extension of the asset.
7. Register all plantation works that are being carried out or are proposed to be carried out using the CAMPA funds. Each work will be carried out on a site. In case the work is proposed to be carried out using CA funds, then you will have to select the CA site that was registered that was registered while registering the FCA project. In case the plantation work is being carried out using the NPV/Safety Zone/CAT plan or any other head, the you will have to select the work site that was registered using the 'Other work site management' menu.
8. For each work, register the work estimates for each year. Estimates will be registered in two steps, first register the estimate brief and then register the details of the activities that are proposed to be carried out under the estimate.
9. There will be one estimate for each financial year. If a plantation work is proposed for five year duration, there will be five estimates, one for each year.
10. Progress reporting and monitoring: System also has a provision for the reporting and monitoring of the works being carried out using CAMPA funds. Following facilities are available for divisions/ranges for this purpose:

- i. Report the details of plantation actually done
- ii. Report the financial progress for each estimate. Details of the expenditure in that month, in the current financial year and cumulative financial expenditure on the work during all previous years.
- iii. Registration of the status of the plantation i.e. survival of the plantation, gap plantation, average height of the plants, height of tallest plant, height of shortest plant
- iv. Uploading of the photographs of the plantation worksites.

(V) DETAILED FLOWCHART



## CHAPTER-1 LOGGING-IN INTO E-GREEN WATCH

- Download and install latest version of the browser (Firefox, IE or Chrome) on your machine
- Type <http://www.egreenwatch.nic.in> in the address bar of the browser
- View the portal home page and various reports and other information available under various tabs
- **Login using the user name and password. If you don't have user and password, get the same from your state nodal officer**

Login in the page by clicking the login button on the top right side of the screen this link will redirect you on the login page where you have to provide your username and password.



Enter User Name, Password and Characters in the space provided.

Login...

User Name:

Password:



Enter characters being displayed in above image.

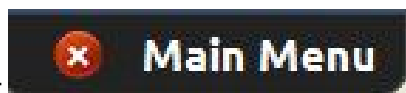
[Click here to see the details of 0 users who are online.](#)

Forgotten your password? [Click here](#) to get new password.

- After logging in you will find menu with a + sign on the to-right hand corner of the screen



- Click on the + menu icon to expand it. You will find the following modules



- Click on the X menu icon to Close it
- Click on each of the module and browse various options before the start of the actual work

## MENUS

### **FCA projects Management.**

- 1) Map FCA Project with your division
- 2) Register New FCA Project
- 3) Register details of Funds to be collected.
- 4) Register details of Funds received from UA
- 5) Register details of Land Diverted
- 6) Register details of Land received for CA
- 7) View the Summary of FCA Project.
- 8) Upload GPS of the CA and Diverted

Lands

### **Registration of Assets and other work sites:**

- 1) Register other plantation sites
- 2) Register Assets/other non-plantation work sites



### **Module for registration of Plantation Works and their estimates**

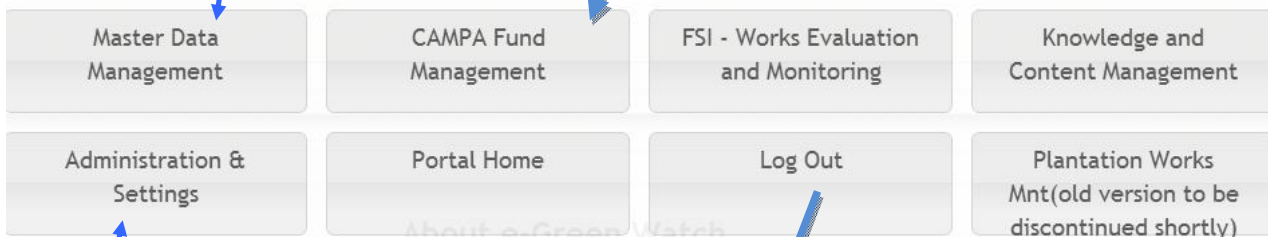
- 1) Register Works.
- 2) Register Details of Species.
- 3) Register Estimates (year-wise)
- 4) Register Activities under estimates

### **Module for enter the progress of plantation.**

- 1) Register detail of plantation done.
- 2) Register Work Progress.
- 3) Register Work Inspection
- 4) Upload Photographs

View Master data.

- Details of Funds released by National CAMPA to Sate CAMPA
- Funds received by State CAMPA



- Change Password
- Update recovery Information
- Upload your photo

- Click on LOGOUT button to log-out gracefully

## CHAPTER-2 - FCA PROJECT MANAGEMENT

FCA project Management system allows all the divisions to register the details of all the projects under which the forest land has been diverted as per the provisions of the Forest Conservation Act, 1980.

Basic profiles of most of the FCA projects have already been imported into the system. The divisions have to perform following actions:

1. Confirm that all the projects of their divisions have been registered and are listed in the listing.
2. View the list all projects in their State and map the projects related to their division. Division will map the project with their division in following two conditions:
  - a. Land has been diverted in their division
  - b. Land for Compensatory Afforestation (CA) has been received/identified in their division.
3. After mapping of all projects, divisions are required to correct and complete the profiles and register following details related to the project:
  - a. Project name, Type, Year, User Agency, Total Land Diverted
  - b. Details of the pieces of the land Diverted - Division-wise, range-wise, RF/PF wise
  - c. Head-wise funds to be received from the User Agency
  - d. Head-wise funds received from the User Agency
  - e. Details of the pieces of Lands received from UA for CA (in case of Private Projects)
  - f. Details of the pieces of Diverted forest Identified by Government for CA (in case of Govt. Projects where Govt. undertakes that there is no land for CA with them)
  - g. In case the diverted land for against the FCA project lies in different divisions, each division will register the details of land diverted in their division.
  - h. Upload the KML file for all diverted lands and CA lands.

**Menu items for FCA project Management are as under**

**FCA Projects, Diverted Land, CA Land Manager**

Home FCA-1980 Projects Diverted Lands CA Lands Reports

- Map FCA Projects related to your division
- View FC Act-1980 Project Basic Details
- Register FC Act-1980 Project Basic Details
- Edit FC Act-1980 Project Basic Details
- Demand from UA for CA, NPV etc
- Amount Received from UA against FCA projects
- FC Act-1980 Project Summary  
(Geographic Details, CA Land, Diverted Land, Demand & Amount Received)
- Lock FC Act-1980 Project Details

**Mapping and Basic entries related to the FCA Project**

**Step 1:- Map FCA Projects to the division**

The functionality will help in mapping “FCA Projects” with the division this is a one-time process which helps the user in find the Project under one head for data entry.

You can search the projects on the basis of the following options

- Project types
- Project yea
- Part of the project name

Please use year, project type or enter some text in the text box to search for the FCA project.

State : Madhya Pradesh

Select FCA Project Year :

Select FCA Project Type :

Search by Project  
Name/Area/Agency/Purpose

FCA Projects related to my Division

Map FCA Projects with my Division

View all FCA Projects

**After searching you will get the list of the projects as per your criteria.**

FCA Project	Project Type	FCA Project Ye	Total Land Diver	Agency Name	Purpose of Diversion	Add Mappin
hopal Jabalpur National High Way	Dispensary/Hospital	1980	23.009	CPWD	High way expansion	
asan Ultra Mega Power Project	Mining	2008	133.28	Ms. Sasan Power Limited	mining	
VANGNESE MINING	Mining	2000	9.918	MS. ANISH P. (PRAFULLA CHANDRA J.) TRIVEDI	MINING	
VANGNESE ORE INDIA LTD. BHARVELI MINES (MOIL)	Mining	2007	29	MANGANESE ORE INDIA LTD.	EXTRACTIONS OF MANGANESE ORE	
ASAN ULTRA MEGA POWER PROJECT O.B. DUMP	Others	2011	133.19	SASAN ULTRA MEGA POWER	Extraction of Coal	

click icon to add the project under division.

State	FCA Project	Project Type	FCA Project Y	Total Land Diver	Agency Name	Purpose of Diversion	Remove Mappin
MP	MURAI TANK	Irrigation	2003	18.466	Irrigation Dipartment	Irrigation - MURAI TANK	
MP	MADHAR TANK	Irrigation	1993	179.68		Irrigation - MADHAR TANK	
MP	PISHANHARI	Irrigation	1986	27.01		Irrigation - PISHANHARI	
MP	PARAGARH	Irrigation	1986	18.466		Irrigation - PARAGARH	

Click icon to remove the project already mapped under the division.



## Step 2:- View Basic Registrations of FCA-1980 projects

FCA-1980 Projects Diverted Lands CA Lands Reports

Map FCA Projects related to your division

View FC Act-1980 Project Basic Details →

Register FC Act 1980 Project Basic Details

View existing FCA Projects entered by State and Divisions Searching mechanism provided for this purpose.

S.No.	State	Project Name	Project Type	Year	Total Land Diverted (In Ha.)	Agency Name	Purpose		
1	MP	Mahuar Pariyojana	Irrigation	2004	340.846	EE jal sansadan shivpuri	Tank		
2	MP	guna itaba Rail line	Railway	1994	159.160	Railway	Rail line		
3	MP	Guna - Etawah Railway Line	Railway	2007	8.870	Dy. Chief Engineer (Const.) North Center Railway Gwalior	Guna - Etawah Railway Line		

You can also search the projects on the basis of the following options

- Project types
- Project year
- Part of the project name
- This module shows the basic details of the FCA Project entered at the time of registration and shows the status of the fund demanded and collected. It also shows the total Diverted Land and CA Land.

S.No.	Project Name	Project Year	Project Type	Purpose of Diversion	Total Land Diverted	
1	Mahuar Pariyojana	2004	Irrigation	Tank	340.846	EE jal shivpuri, , 0,

Details of diverted land and CA land in view mode

Details of Diverted forest land							
S.No.	Area Diverted (In Hac)	Division	Range	Forest Type	Location	View Geography	
1	340.846	Shivpuri(T)	Karera	Protected Forest (PF)	navle 366 ,367,	GPS not Available.	

Details not entered shown in green strips.

**Details of Lands received from user agency for Compensatory Afforestation**  
 No records as per the desired criteria are available in the database or the desired information is not available/entered by the user.

**Details of the amount demanded from UA against the FCA project**  
 No records as per the desired criteria are available in the database or the desired information is not available/entered by the user.

**Details of the amount received from UA against the FCA project.**  
 No records as per the desired criteria are available in the database or the desired information is not available/entered by the user.

**Step 3:- Details of Funds to be received from UA against the approved FCA-1980 projects**

Map FCA Projects related to your division  
 View FC Act-1980 Project Basic Details  
 Register FC Act-1980 Project Basic Details  
 Edit FC Act-1980 Project Basic Details  
 Demand from UA for CA, NPV etc  
 Amount Received from UA against FCA projects


**Total amount head wise demand from the user agency.**

**Total amount head wise received from the user agency for plantation on CA land.**

Enter the details of the head wise breakup of funds demanded from the user agency for CA.

**Step 4:- Details of Funds to be Collected from UA against the FCA-1980 projects**

To register the details of the funds to be collected from the UA, first search for the project and then click on

the  icon to register the head wise breakup of amount received for CA.

FCA Project

Here you can enter the details of the demand for more amount against the FCA project from UA. before adding pl. confirm that the record has not already been entered

Order No.  Order Date

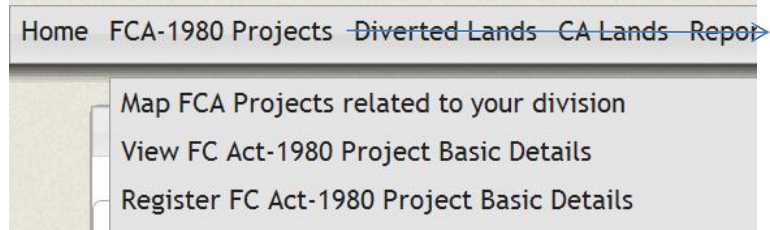
S.No.	Head Name	Demand issued by Forest Dept. to UA for CA, NPV etc (in Rs.)
1	NPV	<input type="text"/>
2	CA	<input type="text"/>
3	CAT	<input type="text"/>
4	ACA	<input type="text"/>
5	PCA	<input type="text"/>
6	PAF	<input type="text"/>
7	SZ	<input type="text"/>
8	Others	<input type="text"/>

## **Register new FCA-1980 Project**

If any of the FCA project of your division is not available in the existing list of the projects, you can add new project by using the '**Add New FCA Project**' item available under the '**FCA-1980 Project**' menu.

After registering the project, register the details of the funds demanded from UA and details of the funds received from the UA.

## **FCA Projects, Diverted Land, CA L**



**Following information will be required for registering the new FCA project**

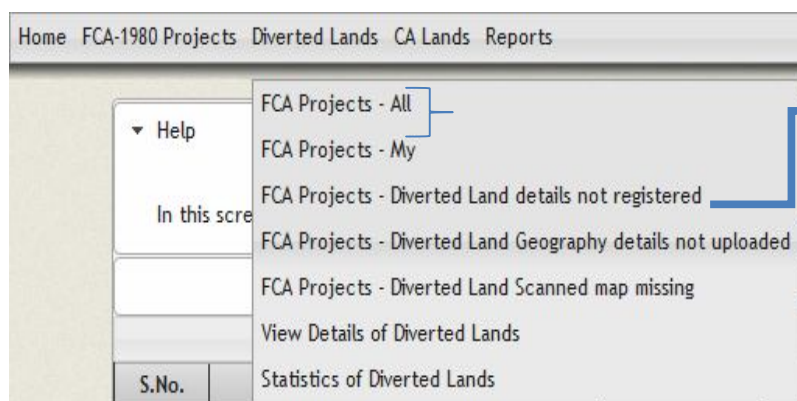
- **FCA Project file No**
- **Project Name**
- **Project Year**
- **Project type**
- **Purpose of diversion**
- **Total land Diverted (in Ha.),**
- **Details of the User Agency**

## **DIVERTED LANDS**


**Registration of details of Diverted Lands** – In this module you can register the details of Diverted land given to user agency with location details like range, compartments, land type, khasra no, GPS location and scanned map. In case of GPS, scanned map details not available the file can be separately uploaded. The map of the diverted land and its KML file will allow the remapping and facilitate change detection.

**All divisions will have to register the details of the land diverted in their respective divisions.**

**In this module following actions has to be carried out.**



**The menu help in registering the details of Diverted Forest land**

To add the details of the diverted land, first search for the FCA project and then select it using the  icon

Stal	FCA Project	Project Ty	FCA P	Total Lz	Agency	Diversion F	Add Dive	GPS of Di	Map of Di	View
MP	MURAI TANK	Irrigation	2003	18.466	Irrigation Di	Irrigation - MURAI TANK				
MP	MADHAR TANK	Irrigation	1993	179.68		Irrigation - MADHAR TANK				
MP	PISHANHARI	Irrigation	1986	27.01		Irrigation - PISHANHAR				

Click folder icon to add the details of the Diverted

**While registering the details of the diverted lands, you will be required to register following details. It may be noted the separate entries are to be made for various pieces of lands diverted in different ranges. Similarly different entries are to be made for different forest types:**

- Range where the land has been diverted
- Names of the compartments \*
- Forest Type \*:(RF,PF, Proposed PF, revenue Forest, Unclassified Forest))
- Area of Diverted Forest land (In Hact.) \*
- Location Details of the diverted land (compartments etc)\*
- Shape of the land diverted: Polygon/Strip
- GPS details of the diverted land (in KML file)
- Scanned copy of the map of the diverted land in jpg format

**Diverted Land Details**

▶ Help

Project Name : **MADHAR TANK**

Project Type : **Irrigation**

Total Land Diverted : **179.680**

**Please select the location (Range) of the diverted Forest Land**

Select Circle \* Shivpuri(T)

Select Division \* Shivpuri(T)

Select Range : \* --Select --

Site Name/Compartment Detail :

Area of Diverted Forest land (In Hact.) \*

Forest Type \* --Select --

Location Details of the diverted land (compartments etc) \*

Shape of Diverted land : \* --Select --

Previously Diverted Area (In Hact.): 179.680


GPS Details of diverted Land  No file chosen

Upload Scanned copy of Map  No file chosen

**(please upload KML file only.)**

**(please upload JPG/jpg file only.)**

List and Details of the pieces of Forest Lands diverted against FCA projects

S.No.	State	FCA Project	FCA project Year	Area Diverted (In Hac)	Division	Range	Location Details	
1	MP	MADHAR TANK	1993	179.680	Shivpuri(T)	Kolaras	madher 239 240,	
			Total	179.680				

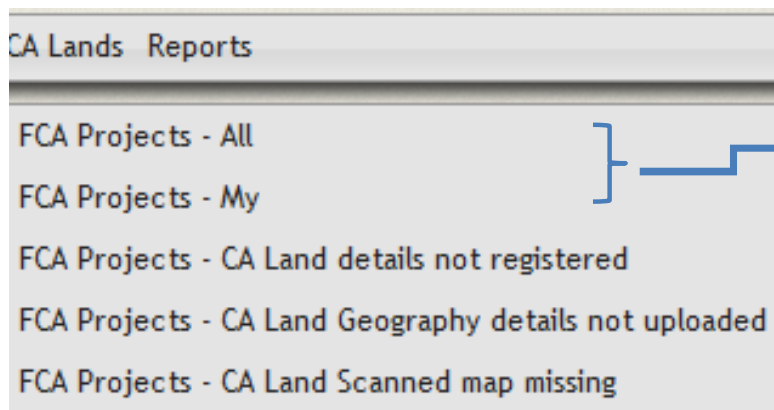
After successful registration of the diverted lands, the entry will be shown in the same screen at bottom

**Note: Scanned copies of the map of the diverted lands and their GPS file in KML format can also be uploaded separately after the registration of the details of the diverted land**


## CA LANDS

**Registration of details of Lands received from UA for Compensatory Afforestation** – In this module divisions can register the total land received from user agency for Compensatory Afforestation. It may also be possible; that the CA has been stipulated on degraded forest land of the Forest department itself.

All Divisions will register the range-wise and site-wise details of the land that has been received From UA for CA. Each piece of land has to be registered separately and its Map and GPS file in KML format has also to be uploaded. All divisions will have to register the details of the land diverted in their respective divisions.



The menu help in entering the details of land given by user agency for Compensatory Afforestation

To register the details of the CA land, first search the FCA project using various options and the click on the  icon to register the details of the lands received for CA.

In this form enter the CA land given by user agency with following details are to be registered:

- Land type \* : Revenue land/Privare Land Acquired//Degraded Forest/Revenue Forest Land
- Range \*
- Site Name/Compartment/Block Details : \*
- Location Details(Optional)
  - o Notification Status on case of revenue Land
  - o Gazet Notification No. \*
  - o Gazet Date
  - o Notification Order No. \*
  - o Notification Date
  - o Khasra details in case of the revenue Land
- Shape of Land received for CA:\*
- Area of Land Recevied for CA (In Hact.) \*
- Upload GPS File
- Upload Scanned copy of Map of the land received for CA

In case, GPS, scanned map details not available these can be separately uploaded. This will help in facilitatihng the change detection. Using the following menus available under CA Lands:-

FCA Projects - CA Land Geography details not uploaded  
FCA Projects - CA Land Scanned map missing

### 3. WORKSITES AND ASSETS MANAGEMENT SYSTEM

## Works Sites and Assets Management System

Home Plantation work sites Assets/Other work sites Summary/Reports

The details of the lands received / identified for CA has already been registered under the FCA project menu. Division may also undertake plantation work on their existing lands using the NPV funds. It is also possible for the divisions to create the infrastructure like buildings, roads etc using the NPV funds.

Work sites and Asset management system will allow the divisions to register all such lands/building/assets. Once registered, it will be possible to register works and estimates for such lands/assets

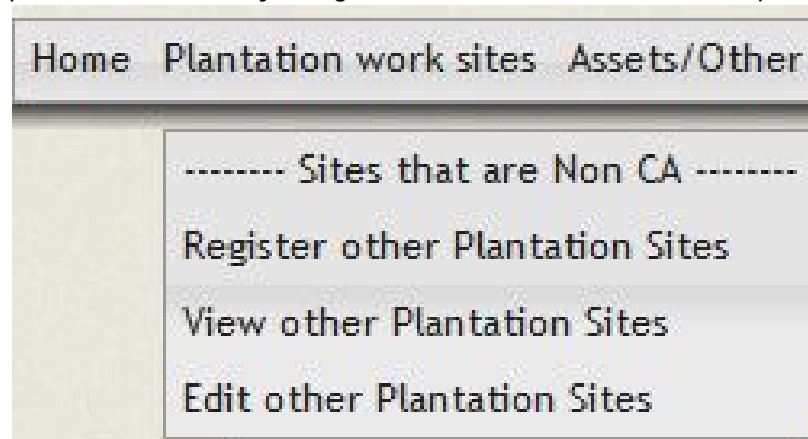
Following types of the work sites/assets can be registered using this system:

- Forest lands where plantation is to be carried out using NPV funds and NOT using CA funds.
- Existing Assets like building/guest house /roads etc
- Proposed Assets

It may be noted that the site specific works will be registered only after the worksite has been registered as you will require selecting the site/asset.

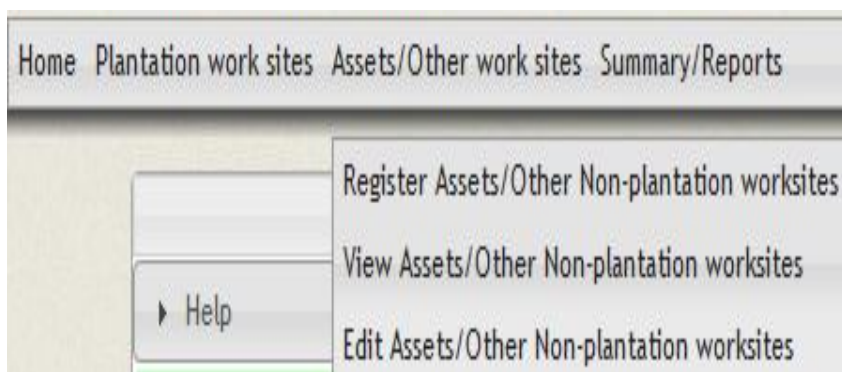
#### REGISTRATION OF OTHER PLANTATION SITES (NOT RELATED TO CA)

This form will allow you to register the pieces of Government/Private/Degraded Forest Land identified for Plantation works and that are not included in the list of CA lands. If any work site was received from user agency for CA against FCA project, then please do not register the site from here. Pieces of Government land/Degraded forest that where plantation is proposed as Compensatory Afforestation (CA) should also NOT be registered here and they should be registered using the '**CA Land Management Module**' menu. It may be noted that you will not be able to register any plantation work until you register the work-site. The module helps us to view and edit the plantation sites.



## ASSET/SITE-SPECIFIC WORK-SITE REGISTRATION

All the site specific works will be carried out on the registered work-sites/assets. Hence it is important to register all the work-sites/assets where you proposed to carry out some work. This is a one-time process. It will also help the state to maintain the online database of all the assets of the department in a centralized manner. It may be noted that if the asset does not exist it is proposed to be created it may be registered as a proposed Asset. After, the proposed asset is register, you will be able to register the work estimates for this work site and create the site. It may be noted that you will not be able to register any site-specific work like construction/upgradation/maintenance of building, roads etc. until you register the work-site





## 4.0 PLANTATION WORKS AND ESTIMATES MANAGEMENT

### Works & Estimates

In this module, you can register the plantation works that are being carried out in your division/range. Following options are available under this module:

1. Plantation Works	2. Plantation Work Estim
1.1 Register Works	
1.2 View Work Profiles	
1.3 Edit Work Profiles	
1.4 Upload Work's GPS Details	
1.5 Register Details of Species to be Planted	
1.6 View Details of Species to be Planted	
1.7 Edit Details of Species to be Planted	

#### Step 1:- Registration of work

You can register a plantation work for following type of scenarios:

- Plantation work on a CA site received from any UA against approved FCA project and using the CA funds. It may be noted that CA site should be registered and only then the work will be registered.
- Plantation work on any other site (Non-CA) and using the funds received under NPV, SZ, CAT etc. It is required that the site should be registered and then only the work can be registered.

While registering any plantation work, following information is required:


1	Range : *
2	Site Type :* CA Site/Other Site
3	Plantation Site to be selected from the registered sitelist:*
4	Site Area (in Ha.) :
5	Enter Location Details:*
6	Total Area Proposed for Plantation in (Hact.):*
7	Enter List of Bocks & Compartments where plantation work is proposed to be carried out:
8	APO/Project Year : *
9	Work Duration (in years):
10	Work Code :
11	Plantation Work Name(English):*
12	Plantation Work (Local Language):*
13	Introduction:*
14	Objective:*
15	Methodology:*
16	Method of Planting:*
17	Plantation Type:*

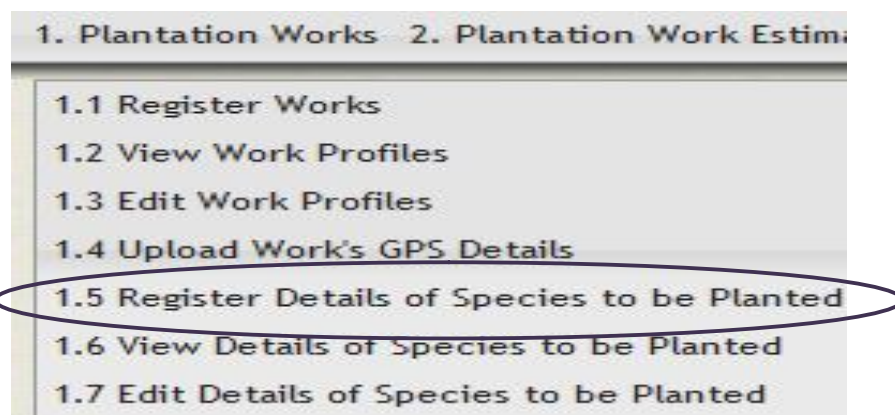
18	Total No. of Species Proposed to be Planted:*
19	Total No. of Plants to be planted: *
20	Select Scheme Head Select Scheme Head: *
20	Remarks

Process for selecting the worksite:

Click on the **Select Work Site** to select the worksite. In case the work site has not been registered click on **Site Not Registered and Add New Site** to register a new work site.

Step 2:- Register Detail of species to be planted

After successfully registering a plantation work, you now need to register the details of the species that are proposed to be planted. Click on '**Register Details of Species to be Planted**' men. You will get a page that will show the plantation works. Please use various options like project year and range to filter the list of works. Click on the  icon to register the details of the species to be planted. List of all species have already been inserted in the software. You will have to only view and selecte the species. List of the species of the plantation is also attached with this manual. Please examine all the species very carefully. If some of the species that are planted in your area is missing, please send the list of such species by mail to [sjain@nic.in](mailto:sjain@nic.in). These species will be added in the master database.



After registering the list of the species that are to be planted, you can edit them and view them using menu items 1.6 and 1.7.

## E-green watch/ICCEMS (egreenwatch.nic.in) – Operation Guidelines

State : Madhya Pradesh

Division : -- Select --

APO Year : --Select--

Circle : --Select --

Range : -- Select --

**Works List**

View 1 - 25 of 85

Work Name	Range	Code	Work-Site	Site Nature	Duration	Type	Method	Location	Area(in Ha.)	Species	scheme head	Add/Edit Spe
1 Vijay Sagar Compensatory Afforestation	Singrampu		RF 192	CA Work site	10	Mixed	Manual	Location Vijay Sagar	2	7	CA	
2 Vaikalpik Vraksharopan	Sarni		District Gwalio, Range Gwalior Block Susera Com. P-1, Baragaon Com. P-27	CA Work site	7	Mono	Manual	P 490	32.92	1	CA	

Click folder icon to add the no of Species to be planted in the plantation work. Provide the information in the below format.

While registering the species tot be planted, you wil Have to register he following for each species:

Name of the species	
No of polybag seedlings to be planted	
No of Stumps to be planted	
Direct Seed Sowing Numbers	
Spacing between plants in meters	

### Add/Edit Details of Species being planted in the Plantation Work

Work /Project : Vaikalpink Plantation

State : MP

Division : Balaghat North(T)

Plantation Work Site : 1550

Circle : Balaghat (T)

Range : West Baihar

Species Count : 1

arked with (\*) are Mandatory. Click here to add New Species

Select Species : \*

No. of Stumps planted : \*

others planted:

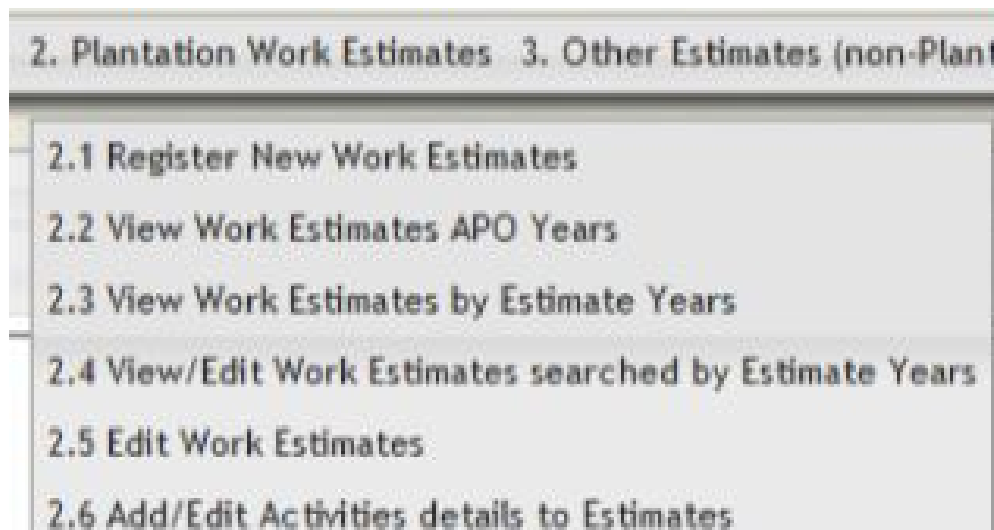
No. of Polybag Seedlings planted:\*

No. Direct Seed Sowing\*

Spacing between plants (in meter):\*  \*  (ex- Max Rang  
Range 1 i.e. enter like 0.23, Plea



## 5.0 WORK ESTIMATES

After registering the work, the estimates for each year has to be registered. If a plantation work is to be carried out during five year, then we will have to prepare the five estimates i.e. one estimate for each year. All the monitoring, physical and financial will be carried out against the estimates.



Use 2.1 '**Register New Work Estimate**' to register a new work estimate. You will get the list of works. Filter the works

on the basis of various options. Click on the  icon to register the work estimate for the selected work.

Works List												
Work Name	Range	Code	Work-Site	Site Nature	Duration	Type	Method	Location	Area(in Ha.)	Species	scheme head	Add/Edit Esti
1 Vijay Sagar Compensatory Afforestation	Singrampu		RF 192	CA Work site	10	Mixed	Manual	Location Vijay Sagar	2	7	CA	
2 Vaiklpik Vraksharopan	Sarni		District Gwalior, Range Gwalior Block Susera Com. P-1, Baragaon Com. P-27	CA Work site	7	Mono	Manual	P 490	32.92	1	CA	

Click folder icon to add the yearly estimate to be prepared for the plantation work.

Following details will be required while registering the work estimate:

1. Estimate reference no
2. Estimate date
3. Estimate type: Fresh/Revised
4. Description of the estimate
5. Sancion Status (sanctioned/not sanctioned)
6. Sanction no
7. Sanction date
8. Physical Target
9. Financial Target

Plantation Work : Vijay Sagar Compensatory Afforestation		Total Proposed Area(In Ha.) : 2.000	
State : MP		Circle : Sagar(T)	
Division : Damoh(T)		Range : Singrampur	
Work APO Year : 2010		Work Duration : 10	

---

Execution : Self <input checked="" type="radio"/> Agency <input type="radio"/>	
Estimate Reference No. : TEST1	Estimate Date : 03/05/2012
Estimate Type : Fresh	Estimate Year : 2010
Estimate Description : Training Test Estimate	

---

Sanction Status : Sanctioned <input checked="" type="radio"/> Not Sanctioned <input type="radio"/>		Sanction Authority : Circle Office	
Sanction No. : SNTTest		Sanction Date : 03/05/2012	

---

Physical Target (Numbers) : 5.00		Financial Target (In Rs.) : 1000.00	
Estimate prepared by : Trainer		Designation : Range Assistant	
Entry Date : 02/05/2012		Designation : Range Officer	
Estimate Verified by : Verifier			
Verification Date : 03/05/2012			

After registering the estimate, you can view it, print it and also edit it.

**Step 4:- Add activity details to the estimates.**

We have created an estimate using the previous menu. This provides only brief outline or summary of the estimate. The software has a facility to register the details of various activities that are to be carried out under the estimate. Use menu 2.6 '**Add activity details to the estimates.**' menu to register the details of the activities.


2. Plantation Work Estimates 3. Other Estimates (non-Plant)

- 2.1 Register New Work Estimates
- 2.2 View Work Estimates APO Years
- 2.3 View Work Estimates by Estimate Years
- 2.4 View/Edit Work Estimates searched by Estimate Years
- 2.5 Edit Work Estimates
- 2.6 Add/Edit Activities details to Estimates

Add activities to estimate

Works List


Page 1 of 2 25 View 1 - 25 of 38

	Work Name	Range	Code	Work-Site	Site Nature	Location	Area(in Ha.)	scheme head	Select Estimates
1	Vijay Sagar Compensatory Afforestation	Singrapur	RF 192	CA Work site		Location Vijay Sagar	2	CA	

Click the search icon to select the work estimate

Estimate List

Page 1 of 1 25 View 1 - 1 of 1

Work Name	Range	Ref No	Estimate Type	Sanction Status	Physical	Financial	Prepared By	Verified By	Add Activit
Vijay Sagar Compensatory Afforestation	Singrapur	TEST1	Fresh	Sanctioned	5	1000	Trainer	Verifier	

Click folder icon to add the estimate wise activity data

Following information will be required while registering the activities of the estimates:

- Activity (to be selected from the drop down menu)
- Area to be covered under the activity (in Ha.)
- Activity type (labour/material)
- Item type (SOR, NON-SOR)
- Item code in case of SOR
- Item Details
- Quantity
- Unit Rate
- Remarks

### Add/Edit Activity Details

State : MP

Circle : Sagar(T)

Division : Damoh(T)

Range : Singrampur

Plantation Work : Vijay Sagar Compensatory Afforestation

Work Estimate No : TEST1

Work Duration : 10

APO Year : 2010-11

Plantation Area : 2.000

Estimate Year : 2011

[Click here](#) to Add New Activities for Plantation Works

Select Activity :\* - Select -

Area to be Covered under Works Activity\* (in Ha.)

Component Type:\*  Material  Labour

Item -Type :\*  SOR  NON-SOR

Select SOR :\* - Select -

Select SOR Chapter :\* - Select -

Select Item Code:\* - Select -

Select Sub Item :\* - Select -

Unit (for NON-SOR):\* - Select -

Item Details :\*

Enter Item Quantity/Total man days, Unit Rates Fraction point values should be upto 3 digit ex- 0.961 . otherwise our Program will Fixed it to Decimal fraction

Item Quantity :\*

Unit Rate :\* Total

Remarks

Save

Cancel

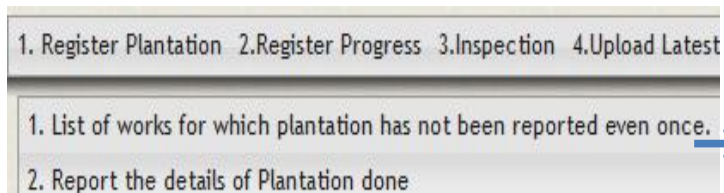
You can continue to add all activities that are the part of your estimate.

## 6. WORKS PROGRESS REPORTING AND MONITORING:

**Using this module Ranges, Divisions can register the progress of the plantation works that are being taken up in their domain. Range office can also register the progress quarterly.**



In this module, we have to register the progress of the works, monthly progress of the plantation and inspection Reports.



Shows work wise site for reporting "Plantation"

Plantation Works : Report Details of Plantation Done

▼ Help

Click on Icon to add the details of plantation Done.

State : Madhya Pradesh      Circle : - Select All -

Division : - Select All -      Range : - Select All -

Estimate Year: --Select--

View Registered Plantation Works as per above Criteria

S.No.	Division	Range	Work Name	Work Duration	Plantation Site	Plantation Site Type	Plantation Work Area	Estimate Year	Estimate Description	Scheme Head	Count Species
1	Damoh(T)	Singrapur	Vijay Sagar Compensatory Afforestation	10	Vijay sagar	CA Work site	2.000	2011	Training Test Estimate	CA	7
2	Gwalior(T)	Behat	Sirsod	7	New School Building, Near Court, Gwalior	CA Work site	1.000	2008		CA	1

Step 1:- Plantation Works Report Details of Plantation Done

Click folder icon to report the detail of plantation done.



**Add/Edit Details of Species being planted in the Plantation Work**

Help

State : Madhya Pradesh      Circle : Gwalior(T)  
 Division : Gwalior(T)      Range : Behat  
 Work : Sirsod      Work Duration: 7  
 Estimate Description :      Estimate Ref No.: 1  
 Estimate Year : 2008      Species Count : 1  
 Plantation Site : New School Building, Near Court, Gwalior

**NOTE : Fields marked with (\*) are Mandatory.**

Select Species : \* - Select -      Plantation Type Done:\* - Select - (like- fresh or Gap)  
 Number of Plants Planted : \*  
 Plantation Done in Month : \* - Select -      Plantation Done in Year : \* - Select -

Save      Cancel

In this module the detail of plants planted on the CA land has been reported.

**Step 2:- List of Plantation works for reporting the Work Progress**

1. Register Plantation 2. Register Progress 3. Inspection 4. Upload Latest Photos 5. Other Estimate

1. List of works for which the progress has not been reported even once  
 2. Register Work Progress (Physical and Financial)

Shows work wise site for progress

**List of Plantation works for reporting the Work Progress**

Help

State : Madhya Pradesh      Circle : - Select All -  
 Division : - Select All -      Range : - Select All -  
 Estimate Year : - Select -

View Registered Plantation Works as per above Criteria

S.No.	Division	Range	Work Name	Work Duration	Plantation Site	Plantation Site Type	Plantation Work Area	Estimate Year	Estimate Description	Scheme Head	Count Species
1	Damoh(T)	Singrapur	Vijay Sagar Compensatory Afforestation	10	Vijay sagar	CA Work site	2,000	2011	Training Test Estimate	CA	7
2	Gwalior(T)	Behat	Sirsod	7	New School Building, Near Court, Gwalior	CA Work site	1,000	2008		CA	1

Click the folder to add the progress details of the plantation done on the CA Land

Add/Edit Work Progress Reports

» Help

State : Madhya Pradesh  
 Division : Damoh(T)  
 Work Name : Vijay Sagar Compensatory Afforestation  
 Estimate Description : Training Test Estimate  
 Estimate Year : 2011  
 Plantation Site : Vijay sagar  
 Plantation Area : 2.000

Circle : Sagar(T)  
 Range : Singrampur  
 Work Duration: 10  
 Estimate Ref No.: TEST1  
 Species Count : 7

Total plants to be planted : 3200

Select Financial Year : 2010-11

Select Quarter : I-Quarter

Register Progress

Current Stage of Plantation : \* - Select Stage -

Total Area Covered as on now (in Ha.):\*

Average height of plants (in feet) :\*

Minum Height of the shortest Plant (in feet) :\*

Maximum Height of the tallest Plant (in feet) :\*

Total plants planted as on now :\*

Total no of plants survived :\*

Survival percentage :\* 0

Total expenditure during quarter(Rs):\*

Total Cumulative expenditure in current fin. year (in Rs and as on reporting date):\*

Total Cumulative expenditure in all year (in Rs. and as on date):\*

Register the Work Progress

Cancel

In this module details of the plants planted and their survival has to be reported by the range officer.

**Step 3:- List of Estimates for reporting the Inspection**

- 3. Inspection
  - 4. Upload Latest Photos
  - 5. Other Estimates (non-Plantation)
  - 6. ...
1. List of works for which the Inspection has not been reported even once
2. Register Work Inspection

Register the outcome of the inspection of the Plantation work.

List of Plantation works for reporting the Work Progress

State : Madhya Pradesh      Circle : - Select All -

Division : - Select All -      Range : - Select All -

Estimate Year : --Select--

View Registered Plantation Works as per above Criteria

S.No.	Division	Range	Work Name	Work Duration	Plantation Site	Plantation Site Type	Plantation Work Area	Estimate Year	Estimate Description	Scheme Head	Count Species
1	Damoh(T)	Singrapur	Vijay Sagar Compensatory Afforestation	10	Vijay sagar	CA Work site	2.000	2011	Training Test Estimate	CA	7
2	Gwalior(T)	Behat	Sirsod	7	New School Building, Near Court, Gwalior	CA Work site	1.000	2008		CA	1

Click the folder to add the Inspection details of plantation done on the CA Land project

Add/Edit Details of Inspection

State : Madhya Pradesh      Circle : Sagar(T)

Division : Damoh(T)      Range : Singrapur

Work : Vijay Sagar Compensatory Afforestation      Work Duration: 10

Estimate Description : Training Test Estimate      Estimate Ref No.: TEST1

Estimate Year : 2011      Species Count : 7

Plantation Site : Vijay sagar

**NOTE : Fields marked with (\*) are Mandatory.**

Inspection date :\*

Inspection done by :\*

Designation :\* - Select -

Site selection : - Select -

Species selection :\* - Select -

Selection of the plant size :\* - Select -

Density selection :\* - Select -

Over all status of the plantation :\* - Select -

Inspecting authority remarks :

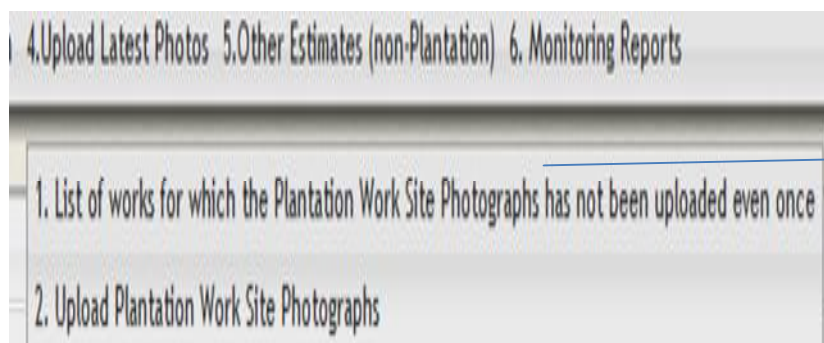
Save      Cancel

In this module the reports of the inspections carried out on has to be registered.

## 7.0 UPLOADING PHOTOGRAPHS OF WORKSITES

Using this module, you can upload the photographs of the plantation site. This photograph will be viewed by the authorities and public. Divisions/ranges will upload the scanned copy of the printed photographs. They can also upload the photographs taken using the mobile phones/digital cameras. Please note that the file size should not be more than 100 KB. The system will allow the uploading of photos in JPF format. If case the file size is large, it can be compresses/resized using any image processing tool.

It may be noted that two photographs (one close view and one far view) for each of the stage is to be uploaded.



The module is useful to upload the snaps of the plantation of the sites stage wise so that the progress can be visually shown.

List of Estimates for uploading the plantation Photographs													
Help													
State : Madhya Pradesh										Circle : - Select All -			
Division : - Select All -										Range : - Select All -			
Estimate Year: --Select--										View Registered Plantation Works as per above Criteria			
S.No.	Division	Range	Work Name	Work Duration	Plantation Site	Plantation Site Type	Plantation Work Area	Estimate Year	Estimate Description	Scheme Head	Count Species	Last Inspection Date	Uplod Photo
1	Damoh(T)	Singrapur	Vijay Sagar Compensatory Afforestation	10	Vijay sagar	CA Work site	2.000	2011	Training Test Estimate	CA	7	Never Reported	
2	Gwalior(T)	Behat	Sirsod	7	New School Building, Near Court, Gwalior	CA Work site	1.000	2008		CA	1	Never Reported	

**View/Upload Photo of Plant Stage** ✕

Stage\* :

Photo Distance\* :

Remarks :

Date Of Photo\* :

Please Upload Photo in JPG/JPEG should not be more than 100 KB (  )

Upload Photo :

- Select -
- Select -
- Advance Works
- 1st year 1st Weeding
- Digging of Pits
- Fresh Planting
- Maintenance-Gap Plantation
- Maintenance-1 st Weeding
- Maintenance-2 nd Weeding
- Maintenance-3 rd Weeding
- Maintenance-4th Weeding
- 1st year 2nd Weeding
- 1st year 3rd Weeding
- 1st year 4th Weeding
- Fencing
- Fencing

**View/Upload Photo of Plant Stage** ✕

Stage\* :

Photo Distance\* :

Remarks :

Date Of Photo\* :

- Select -

Near

Far

Please Upload Photo in JPG/JPEG format. Please check size of image before uploading. size of image should not be more than 100 KB (Kilo Bytes).

Upload Photo :

Functionality helps in upload photos of the different stages of the plantation and work carried out on the land.

**List of the species :**

List of the species that has already been registered in the system. In case any species is missing, please send a mail providing the list of species to be added to [sjain@nic.in](mailto:sjain@nic.in)

1	Abies Alba	51	Betula Cylindrostachys
2	Acacia Arabica	52	Bijasal
3	Acacia Ariciliformis	53	Billudu
4	Acacia Auricuiformis	54	Bischofia Javanica
5	Acacia Auriculiformis	55	Bogada
6	Acacia Catechu	56	Bojja
7	Acacia Concinna	57	Bombax Ceiba
8	Acacia Nilotica	58	Bombox Ceiba
9	Acacia Polycantha	59	Booruga
10	Acer Cambelli	60	Borasis Flebilifer
11	Achras Zapota	61	Boswellia Serrata
12	Adatoda Vasica	62	Brassaia Actinophylla
13	Adena Cardifolia	63	Brownea Grandiceps
14	Adenantha Pavonina	64	Butea Monosperma
15	Aegle Marmelos	65	C.Glanduliferum Meissn
16	Agave Sisalana	66	C.Siamia
17	Agave Tequilana	67	Calistemon Lanceolatus
18	Ailanthus Grandis Prain	68	Calophyllum Inophyllum
19	Ailantus Excelra	69	Calotrophis Gigantium
20	Alangium Lamarckit	70	Caryota Urens
21	Alberia Lebbac (Dirshanam)	71	Cassia Fistula
22	Albezzia Amara	72	Cassia Siamea
23	Albezzia Labbeck	73	Castanopsis Tribuloides
24	Albzzia Spp.	74	Casuarina
25	Alnus Nepalensis	75	Casurina Equisitifolia
26	Aloe Barbadeusis	76	Cedrela Febrifuga Blume
27	Alstonia Scholaris	77	Ceiba Pentandra
28	Amlaki	78	Chinduga
29	Anacardium Occidentale	79	Chista
30	Andrpgraphis Paniculata	80	Chukrasia Tabularis
31	Angelhardtia Spp.	81	Cinnamomum Zeylanicum
32	Annona Reticulata	82	Couropita Guianensis
33	Anona Squamosa	83	Cryptomeria Japonica
34	Anthocephalus Cadamba	84	Cycas Circinalis
35	Arjun	85	Dalbergia Latifolia
36	Artocarpus Heterophyllum	86	Dalburgia Sisoo
37	Artocarpus Hirsuta	87	Delonix Regia
38	Azadirachta Indica	88	Dendrocalamus Strictus
39	Babul	89	Diasporus Melanoxylon
40	Bahera	90	Duabanga Grandiflora
41	Bamboo	91	Duabanga Sonneratioides
42	Bamboo Plantation	92	Ecocarpus Spp.
43	Bambusa Arundaneceae	93	Edakula Pala
44	Bambusa Bamboo	94	Emblica Officianalis
45	Bambusa Vulgaris	95	Emblica Officinalis
46	Bandi Chinduga	96	Emblica Sps
47	Bankeri	97	Erumaddi Teak
48	Battagenupu	98	Erythrina Indica
49	Bauhinia Parviflora	99	Eucalyptus
50	Beilschmiedia Gammieana King	100	Eucalyptus (Clones)

101	Eucalyptus (Seed Orgin)	151	Lagistromia Lanceolata
102	Eucalyptus Sps	152	Leucosceptrum Canum Sm.
103	Evodia Fraxinifolia	153	M. Montana A.D.C
104	Faleodo	154	M.Champaca
105	Feronia Elephantum	155	M.Montana Blume
106	Ficus Bengalensis	156	Maddi
107	Ficus Infectoria	157	Madhuka Indica
108	Ficus Lacor	158	Magnolia Grandifolia
109	Ficus Mysorensis	159	Mammea Longifolia
110	Ficus Racemosa	160	Mangifera Indica
111	Ficus Religiosa	161	Marri
112	Ficus Tomentosa	162	Melia Azadirachta
113	Fraxinus Paxiana Ling	163	Melotus Philippensis
114	Gannara	164	Mesua Ferra
115	Garcinia Combogia	165	Michelia Champaka
116	Garcinia Indica	166	Michelia Excelsa
117	Gatcha	167	Michelia Lanuginosa
118	Gatha	168	Millingtonia Hortensis
119	Gliricidia Maculata	169	Mimusops Elengi
120	Gloriosa Superba	170	Misc. Species
121	Gmelin Arborea	171	Mokka Vepa
122	Gmelina Arborea	172	Moreya Koengii
123	Gmelina Aroborea	173	Moringa Olifera
124	Greviia Robusta	174	Morus Laevigata
125	Grewia Tiliaefolia	175	Muntingia Calabura
126	Guaiacum Officianale	176	Myristica Fragrance
127	Gummadi	177	Nalla Maddi
128	Gummadi Teak	178	Nalla Puniki
129	Hardwickia Binnata	179	Narayepi
130	Hartaki	180	Neem
131	Holoptolia Integrifolia	181	Neeroddi
132	Ippa	182	Neeruddi
133	Ixora Parviflora	183	Nemali Naara
134	Jacaranda Mimosifolia	184	Neredu
135	Jatropha Curcas	185	Nil
136	Jeedi	186	Nyctanthes Arbor-Tristis
137	Jeelugu	187	P. Cerasoides D.Don
138	Juglan Regia	188	P. Nepalensis (Ser) Stendel
139	Juglans Regia Linn	189	Pakia Biglandulosa
140	Juniperus Communis	190	Patcha Turai
141	Juwwi	191	Pedamanu
142	Kala Jamun	192	Peddegi
143	Kanuga(Bio-Diesel)	193	Peltoform Pterocarpum
144	Karai	194	Phoebe Attenuata Nees.
145	Karanj	195	Phunsey Bantey
146	Kiggelia Pinnata	196	Pine
147	Kovela	197	Pinus Griffithi Michell
148	Kukka Neredu	198	Plahua
149	Kunkudu	199	Plumeria Alba
150	Lagerstroemia Parviflora	200	Plumeria Sps