National Forest Inventory Programme of India

Manual for Field data collection of Forest Inventory

Forest Survey of India
Ministry of Environment, Forest and Climate Change
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Field Instructions For Data Collection of Forest Inventory



Preface

The history of conducting forest inventory in India goes back to eighteen centuries. Assessment of the Forest Resource on a relatively large area basis (catchment basis) using statistically robust approach and aerial photographs began in 1965 when the Pre investment Survey of Forest Resources (PIS) was launched in the country with FAO/UNDP assistance. The forest inventory was continued in different parts of the country with varying sampling design till 1981 when PISFR was reorganised as Forest Survey of India (FSI). Inventory remained as one of the important activity of FSI even after creation of FSI with a uniform design.

National Forest Inventory (NFI) design was launched by FSI in 2002 to generate national level estimates on growing stock, forest area and other parameters of the forest resources by doing regular inventory in selected sample districts in a cycle of two years. This design was continued till 2016. However, as per the national and international requirement, FSI again modified its sampling design by switching over from districts based design to grids based design. Under the new design, a nationwide uniform grids of 5 Km x 5 Km have been created and each year selected grids are selected for the inventory.

With this new NFI design, FSI will carry out inventory in 6000-7000 plots every year in forest area of the country which is double the number than the old design. It will make the whole country inventoried in five years. New NFI design; along with about fifty traditional qualitative variables like land-use, legal status, terrain, soil, crop and bamboo data, fire and grazing incidences etc will also capture information on some more new parameters such as invasive species and NTFP.

Field manual is a prerequisite for any field inventory for its successful execution. The manual describes the standards, codes, methods and definitions of Forest Inventory and TOF field data items. The objective is to describe field procedures that are consistent and uniform across all units. The information obtained through the inventory is used to estimate forest land area, tree volume, mortality, understory composition and other related resources. This information provides periodic analysis of Forest and TOF resources which are published and available to resource planners, managers and the public.

I take this oppurnity to place on record the efforts made by officers/officials of TFI division. The inputs received from the zonal offices are also acknowledges with thanks. I am sure, this manual will be helpful for planners and data collectors

Dated (Dr. Subhash Ashutosh)
Place: Dehradun Director General

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Acronyms and Abbreviations

B.T	Bark Thickness		
BWF	Bamboo Weight Form		
CAMPA	Compensatory Afforestation Fund Management and Planning Authority		
CM	Centimetre		
CR	Conservation Reserve		
CW	Crown Width		
DBH	Diameter at Breast Height		
DBHOB	Diameter at Breast Height over Bark		
DES	Data Entry Section		
Dia	Diameter		
Div.	Division		
ESACP	European Space Agency Copernicus Programme		
FAO	Food and Agriculture Organization of United Nation		
FD	Forest Division		
FI	Forest Inventory		
FSI	Forest Survey of India		
GIS	Geographical Information System		
Govt	Government		
GPS	Global Positioning System		
На	Hectare		
HQ	Headquarter		
Hrs	Hours		
IV Unit	Investigator Unit		
IRS	Indian Resource Satellite		
IST	India Standard Time		
JTA	Junior Technical Assistant		
Km	Kilometre		
Lat	Latitude		
LISS- IV Mx	Linear Imaging Self- Scanning Sensor IV Maximum		
Long.	Longitude		
LUC	Land Use Class		
MRV	Monitoring ,Reporting & Verification		
NE	North East		
NFI	National Forest Inventory		
NFMA	National Forest Monitoring and Assessment		
NP	National Park		
NRSC	National Remote Sensing Centre		
NSSO	National Sample Survey Orgnisation		
NTFP	Non Timber Forest Products		
NW	North West		
OSM	Open Series Map		
PEF	Plot Enumeration Form		
PF	Protected Forest		
Phy. Zone	Physiographic Zone		

PIS	Pre Investment Survey		
REDD+	Reducing Emissions from Deforestation and Forest Degradation		
RF	Reserve Forest		
RFA	Recorded Forest Area		
SE	South East		
SOI	Survey of India		
Spp. Code	Species Code		
STA	Senior Technical Assistant		
STF	Sample Tree Form		
SW	South West		
TOF	Trees Outside Forest		
TOFR	Trees Outside Forest (Rural)		
TOFU	Trees Outside Forest (Urban)		
UFS	Urban Frame Survey		
UN- CBD	United Nation Convention on Biological Diversity		
UN- CCD	United Nation Convention to Combat Desertification		
UNDP	United Nation Development Programme		
UN- FCCC	United Nation Framework Convention on Climate Change		
UT	Union Territory		
WGS	World Geodetic System		
WL	Wild Life		
WLS	Wild Life Sanctuary		
Wt	Weight		

Abbreviations used for Measurement

Cm	Centimetre
На	Hectare
Hrs	Hours
M	Meter
Wt	Weight
Km	Kilometre
mm	millimetre
Kg	Kilogram

Glossary

Aspect	The compass direction toward which a slope faces.		
Biomass	Forest biomass is organic matter expressed as oven-dry tones per		
Diemass	unit area; it can be referred to as biomass density when expressed		
	as mass per unit area. Approximately 50 % of dry forest biomass is		
	carbon.		
Biotic Influences	Ability of trees to survive in an ecosystem. Living things in the		
	environment such as plants, animals, and bacteria.		
Blaze	To mark a tree, usually by painting or cutting the bark.		
Bole	The trunk of a tree.		
Caliper	A tool to measure the diameter of a tree		
Canopy	The cover of branches and foliage formed by the crowns of trees.		
Canopy Cover	The percentage of the ground covered by a vertical projection of the		
, and the same of	outermost perimeter of the natural spread of the foliage of plants.		
Canopy Density	Percent area of land covered by the canopy of trees. It is expressed		
	as a decimal coefficient, taking closed canopy as unity.		
Carbon Pool	Carbon pools are major components of an ecosystem that can either		
	accumulate or release carbon.		
Clinometer	An instrument used to determine the height of a tree		
Codominant tree	A tree that extends its crown into the canopy and receives direct		
	sunlight from above but limited sunlight from the sides. One or more		
	sides of a codominant tree are crowded by the crowns of dominant		
	trees		
Crop Composition	A silviculturaly growing and tending stands of trees.		
Crown Area	It is the area of horizontal projection of a tree crown on the ground.		
Cull	A sawtimber sized tree that has no timber value as a result of poor		
	shape or damage from injury, insects or disease		
Degraded Forest	Reduction in the capacity of a forest to produce ecosystem services		
	such as carbon storage and wood products as a result of		
	anthropogenic and environmental changes.		
Diameter at breast	Standard measurement of a tree's diameter, usually taken at 1.37		
height (dbh)	meter above the ground.		
DominantTrees	Trees that extend above surrounding individuals and capture		
sunlight from above and around the crown.			
Foliage	A leafy part of a tree or plant.		
Forest Area	The forest area recorded as a forest in the Government records. It is		
E	also referred as "recorded forest area".		
Forest Inventory The measurement of certain parameters of forest to asset			
Faul	growing stock and other characteristics of forest.		
Fork	A tree defect characterized by the division of a bole or main stem		
Cirdling	into two or more stem The complete removal of a strip of bark (consisting of park combined)		
Girdling	The complete removal of a strip of bark (consisting of cork cambiu		
	or "phellogen", phloem, cambium and sometimes going into the xylem) from around the entire circumference of either a branch or		
	trunk of a woody plant		

Green Wash	The extent of wooded areas generally shown in light green colour on the SOI toposheets.		
Growing Stock	The sum (by number or volume) of all the trees growing/living in the forest or a specified part of it.		
Hypsometer	Instruments designed to measure the height of trees		
Illicit Felling	Any felling of trees done in a state forest, without permission granted by authorized bodies		
Intensity of Regeneration	Increasing the planting density by establishing young trees naturally or artificially. The process by which a forest is reseeded and renewed.		
Invasive Species	Species that are non-nature to a particular eco-system and whose introduction and spread causes, or likely to cause socio-cultural, economic or environmental harm (including forest eco system) or harm to human health.		
Litter	Leaf & woody material of trees having diameter < 5 cm which is not decomposed.		
Natural Calamites	A sudden and terrible event in nature (such as a hurricane, tornado, or flood) that usually results in serious damage of forest eco system.		
Origin of Stand	An aggregation of trees or other growth occupying a specific area and sufficiently uniform in species composition, size, age, arrangement, and condition as to be distinguished from the forest or other growth on adjoining areas.		
Reserved Forests	An area so constituted under the provisions of the Indian Forest Act or other State Forest Acts, having full degree of protection. In reserved forests all all activities are prohibited unless permitted.		
Remote sensing	Remote sensing is the acquisition of data, such as forestarea, forest type, canopy cover and height, from sensors on board aircraft or space based platforms.		
Size Class	Tree species designated by size classes through their life development		
Spatial Resolution	The minimum area on the earth's surface that can be captured by a satellite sensor vas being separate from its surroundings and is represented by a "pixel"		
Sustainable Forest Management	The environmentally appropriate, socially beneficial, and economically viable management of forests for present and future generations.		
Tree Outside Forest (TOF)	Trees growing outside recorded forest areas.		
Wild Life Protected Area	Any Protected areas or conservation areas which receive protection because of their recognized natural, ecological or cultural values. Declared under the Wild Life Protection Act-1972.		

Chapter-One

Introduction

The history of conducting forest inventory in India goes back nearly 160 years. Initially, inventories were limited to division/district level for estimating growing stock of harvestable commercial timber for preparation of Working Plan. The similar practice that started in the 1860s, is continuing even today with some modifications by the State Forest Departments. However, forest inventory on a relatively large area basis (catchment basis) using a statistically robust approach and aerial photographs began in 1965 when the Government of India launched the Pre-Investment Survey (PIS) of Forest Resources with the assistance of FAO/United Nations Development Programme (UNDP). The project had twin objectives: (1) to assess the availability of raw material for establishment of wood-based industries; and (2) to establish the nucleus of a national forest survey organisation that would provide continuous and reliable information regarding existing and potential resources as well as a broad description of land use. A trained and committed team from India, as well as foreign experts, were involved in designing the forest inventory and data processing. This was also the beginning of an era in which the assessment of the forest resource was linked to the requirement of wood-based industries. Generally, those areas that had not been surveyed in the past, such as the former Bastar district of Madhya Pradesh, East Godawari catchments, Karim Nagar, Khammam of Andhra Pradesh, West and East Chanda of Maharashtra, Koraput in Orissa, and the Himalayan conifers of Himachal, Jammu and Kashmir, Uttar Pradesh (the area that is now Uttarakhand) and Haryana were inventoried. Aerial photographs were used to prepare thematic maps on a 1:50,000 scale.

The inventory of forest resources in selected areas of the country continued even after 1981 when the PIS was reorganised into the Forest Survey of India (FSI), a national organisation that would undertake forest inventory and wood consumption studies of the country on a regular basis. During the PIS period, about 22.8 million ha of the country's forest area were inventoried. After the creation of the FSI, field inventory was continued in different parts of the country with uniform sampling design. The total area inventoried up to the year 2000 was about 69.2 million ha, which includes some areas that were inventoried twice. Thus, more than 80 per cent of the forest area of the country was inventoried comprehensively during a period of 35 years. Based on these inventories, FSI published about 140 reports. Since most of these inventories were carried out in different time period, it was not possible to generate national level estimates on growing stock, forest area and other parameters using these inventories. FSI, therefore, designed and launched a new National Forest Inventory in 2002 for generating national level estimates of growing stocks on the basis of selected sample districts across the country.

Beside forests, extensive wealth of trees outside forests (TOF) has emerged as an alternative source of timber, fuel and fodder to local people, and also maintain the ecological balance. For planning, management and utilization of large amount of wood resources outside the conventional forests, inventory/assessment of TOF becomes very important.

Realising the importance of TOF, Forest Survey of India started TOF inventory in 1991 following conventional field methods by employing stratified random sampling. The rural areas of a state, or a group of districts, were considered as the study area. Since this area was fairly large, there was every possibility of heterogeneity of the study variable i.e. growing stock. TOF being planted along with agricultural crops is likely to be influenced by the agro-ecological variables. The above-mentioned methodology was providing precise estimates but was very time consuming. It was not able to provide National and State level estimate. To remove these constraints, a new methodology based on remote sensing data was developed in 2002 to generate National level estimates of growing stock of TOF. RRemote sensing data is used to identify and stratify the TOF resources in rural areas. For urban area, a separate methodology was adopted based on the Urban Frame Survey (UFS) blocks prepared by National Sample Survey Organisation (NSSO) for each urban area as the distribution pattern of trees in urban areas is different.

During the initial stages of the inventory, the estimation of the growing stock was the primary objectives. However, in the recent past, the estimation of forest carbon stock in all the pools (above ground biomass, below ground biomass, deadwood, litter and soil organic carbon) have become essential considering the important role of forest ecosystem in mitigating climate change. In the National Forest Inventory followed since 2002, FSI has information on above ground woody biomass of all trees with dbh 10 cm and more. In addition, information on carbon in forest soil (up to 30 cm depth), humus and litter (other than woody branches) is also available with FSI. However, the information on biomass of branches, foliage, flowers, fruits, twigs, barks and roots of measured trees, unmeasured trees below 10 cm dbh, shrubs, herbs, climbers etc, dead wood, litter (branches only) was not available. To capture the biomass of these missing components, FSI conducted a special study in 2008 and developed biomass equations for these missing components of forest biomass.

1.1 Revisiting National Forest Inventory of India

The NFI launched in 2002 was a district based design under which selected districts were inventoried during a cycle of two years to generate the national level estimates of growing stock and other parameters. This design was continued till 2015-16. There were two major limitations of this design. First, the design was not suitable to give precise estimates at the state level. Second, the revisit time of the same districts was 20 years which was fairly long.

In order to overcome the above limitations and also to meet information requirements of sustainable forest management including those under Green India Mission and CAMPA, reporting obligations under the conventions on climate change (UN-FCCC), biodiversity (UN-CBD), combating desertification (UN-CCD), REDD+ and MRV, it was felt that the existing NFI needs to be redesigned. For this purpose, FSI studied the NFI design of many developed countries and also the design of FAO. The common feature found in all these design are 1) all the countries (and FAO) are following systematic sampling for NFI; 2) Nation-wide wall to wall grids are considered; 3) Clusters of plots are considered; 4) Both permanent and temporary plots are being laid out; 5) Use of geomatics, specially remotely sensed data in inventory; and 7) PProvision of repeating the same plot after a short fixed time period.

Thus after a lot of discussion and considering, FSI has switched over to grid based design from a district base design since 2016. The new design is based on uniform grids of size 5 km x 5 km and each year selected grids are selected for inventory of forest and TOF across the country. The plot configuration has also been changed from a single square plot to clusters of circular plots. Before launching of the new design, lot of in-house discussion was held at headquarters and also with zonal offices of FSI. A pilot study was conducted in all zonal offices of FSI to ascertain the size of the plot and distance between central subplot and other sub-plots. Many new parameters such as NTFPs, invasive species, water bodies near sample plots, diseases etc has also been included in the forest inventory.

1.2 Scope and purpose of the manual

This manual has been developed for field data planners and collectors as well as trainers and field inventory supervisors. The first volume of the manual deals with the forest inventory and second volume deals with the TOF inventory. It describes the sampling design used for the survey in forest inventory, layout design of sample plot, formation of field crew, organisation of field work, field forms to record different measurements and detailed instructions to fill up the various field forms.

Chapter-Two

Forest Inventory: Sampling design and organisation of field work

2.1 Scope of Forest Inventory

For the purpose of laying out of the sample plots for forest inventory, entire forest area notified under the government records will be taken. The sample points will be generated by FSI headquarters. For identification of forested grids, digital layers of recorded forest area will be taken. In absence of RFA boundaries, green wash layer, which considered as proxy of RFA will be taken. In the SOI topography sheets, area shown by green colour which is generally referred to as green-wash area represents the forested areas at the time of survey carried out to prepare such topographic sheets. It is also indicated on topographic sheets by double dotted line, printed as RF, PF, thick jungle, thick forest, etc. (Note: any other area reported as forest area by the local Divisional Forest Officer should be brought to the notice of FSI Headquarters along with the map of area.) GIS will be used for laying out of the sample plots.

2.2 Sampling design for NFI

The sampling design described here is the new sampling design, which is in vogue since 2016. Under the new NFI design, nation-wide uniform grids of size 5 km x 5 km have been taken from the NRSC. A depiction of the same has been given in figure-1. For forest inventory, the revisit time has been fixed as 5 years and for TOF inventory, the revisit time has been fixed as 10 years. Accordingly, for forest inventory, all grids are numbered as 1 to 5 and for TOF inventory, the grids are numbered as 1 to 10. The digital layer of RFA/green wash boundaries has been used for determining the grids for forest inventory. Since generation of state level estimates is one of main objectives of the new sampling design, the optimum sample size has been calculated at state level using past inventory data. The optimum number of sample grids have been identified using the digital layer of forest/greenwash. Grids having specified number will be covered in a single survey year. For forest inventory, the optimum number of grids will be randomly selected for inventory in a particular year. The forest cover map based on satellite -based remote sensing data will be utilised for stratum size calculation.

Within the selected forest grid, a random point will be marked using Geographical Information System (GIS) software. This will form the centre of the sample point around which a sub plot of radius 8 m will be laid out. Other three cluster sub-plot will be laid out as per the design described in the subsequent sections and detailed data will be collected from each sub-plot and recorded in the specified field forms. A schematic diagram of plot design has been given in figure-2.

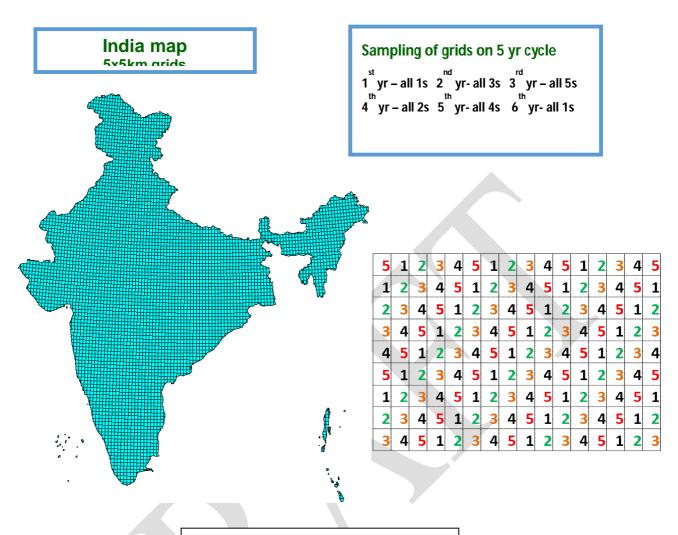


Figure-1 Layout of Gids

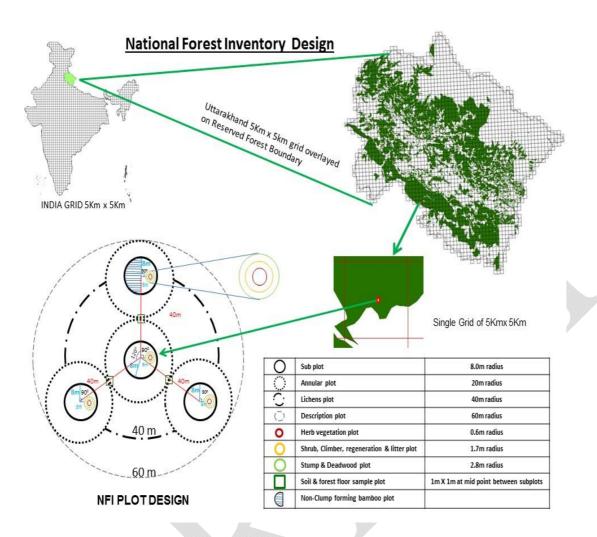


Figure-2: Schematic diagram of sample plot design

2.3 Sampling unit

The cluster of four-cicular sub-plot is the sampling unit for enumeration of trees. A circular plot of 60 m radious around the central sub-plot is used for recording data on plot description. The details of different plots are given in the table 1.

Plot	description	
Central sub-plot Centre of the sample plot		
Sub-plot 2 40 meter horizontal distance at azimuths of 36		
degree from the centre of subplot 1		
Sub-plot 3	40 meter horizontal distance at azimuths of 120	
	degree from the centre of subplot 1	
Sub-plot 4	40 meter horizontal distance at azimuths of 240	
	degree from the centre of subplot 1	
Cicular plot around the plot	60 meter radius from the centre of subplot 1	

centre	
Three concentric micro	Three concentric microplots of 0.6 meter, 1.7
plots of radius	meter and 2.8 meter laid out at a distance of 5
	meter away from the centre of all the subplots at
	90 degree towards east direction .
Three square plot at a	For soil & forest floor, three microplots of 1 X 1
distance of 20 meter from	Meter at 20 meter distance from the centre of
the centre of sub-plot 1	subplot 1
towards sub-plot 2, 3 and 4	·

2.4 Sample size and Precision: The optimum sample size has been determined at state level using past inventories data. The precision of the estimates at national level has been determined as ±5% with 95% confidence limit. The same at state level has been fixed as 10%. Once desired sample size is determined at state level, the requiste forested grids will identify and desired sample points will be laid out randomly.

2.5. Organisational Structure and Responsibilities

The National Forest Inventory (NFI) programme is implemented by FSI through Forest Inventory Division of headquarters and its four zonal offices. The Forest Inventory Division at FSI Headquarters, Dehradun is responsible for preparation of sample designs, generation of sample plots for inventory, designing of field forms, preparation of manual, development of data entry and data processing modules. The fieldwork is executed by four zonal offices located in different parts of the country at Shimla, Nagpur, Bengaluru and Kolkata for organising and conducting field inventory of northern, central, southern and eastern parts of the country, respectively.

The zonal offices are headed by Regional Directors and supported by Senior Deputy Directors/Deputy Directors, Assistant Directors, Senior Technical Assistants (STAs), Junior Technical Assistants (JTAs), Deputy Rangers,

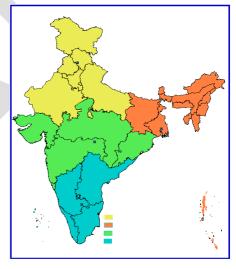


Fig.3: Jurisdiction under different Zones of FSI

Fieldmen and other supporting staff. The responsibilities of officers/officials at zonal offices are broadly given as follows:

SI. No.	Designation	Nature of duties	
1.	Regional Director	Administrative Head and overall incharge of field work	
2.	Sr. Deputy Director/Deputy Director	Supervision and organisation of field work. Liasoning with local forest and district administration, supply of copies of manual,	

SI.	Designation	Nature of duties
No.		field forms to parties and explaining it to them, supply of stores items to staff, planning of base camps & field camps, control over field accounts, checking and compilation of data and forwarding data to Data Entry Section.
3.	Assistant Director/STA	Assist Dy.Director in execution of field work and checking of the field work
4.	Field Crew consisting of four persons. 1.Crew leader – JTA/Dy Ranger; 2.Assisted by – One Dy Ranger/Field man/FTA; 3.One FTA/Skilled person; and 4.One unskilled person. The composition of the field crew may be changed by the concern Regional Director as per field requirement and availability of manpower.	 Study the manual Laying of the sample plot, collection of data from sample plots for field inventory as per the instructions contained in the field manual Maintenance of account and cash book of field work Checking and supply of data for submission to the Zonal Headquarters. Safe custody of maps / albums and equipment
5.	Sr./Jr. Draftsman	Markng sample plots and supply of maps to field parties

The assignment of duties as mentioned above may not be strictly followed and it is left to to the discretion of the Regional DirectorDeputy Director to change duties of various staff depending on the availability of staff and field conditions

The list of selected sample points (latitude and longitude of centre of plot) for forest inventory will be sent by FSI headquarters. The field works will be executed by the zonal offces of FSI. The sample points provided by the headquarters under forest inventory should not be changed to TOF (rural) or visa versa at any circumstances. If the field crew find that the sample plot allotted for forest inventory is falling in any stratum of TOF or vice versa, the sample point may be discarded and should be brought in the knowledge of headquarters for any further action.

2.6 General Preparation of Field Work

The Regional Office will distribute the work of inventory to the crews. Once the area to be inventoried is assigned to crews, the crew leaders should select their camping sites in such a manner that maximum number of sample plots can be covered from a camp in the minimum traverse of distance. They should ensure that the day-to-day programme is so chalked out that they are not required to make wasteful journeys. The crew leaders should ensure that their parties are fully equipped with stores, camp and survey equipment,

rations, medicines, etc. before commencement of field work. It is also to be ensured that each party carries optimum required equipment and kit with them in field as well as in camps so that there is no problem of transport of voluminous luggage.

During the fieldwork, some times the field parties need to travel a long distance on foot specally in hilly areas. It is advisable that each crew should take necessary food items along with sufficient water. In addition, first aid box should also be taken by each crew during the field work.

The crew leader should keep good liaison with the local staff of the State Forest Departments. He/she should also see that the tent camps (if established) are properly, neatly and systematically arranged and the staff maintains decorum and proper discipline in the camps. The restricted maps, photographs and confidential documents in the camp should not be passed on or shown to any un-authorised person. Such documents should be kept in personal custody of crew leader. Loss or damage of any such map along with the place of loss should be reported immediately to the Regional Director of the Zone.

2.7. Equipment and Other Materials Required for Each Field Crew

The crew leader should ensure that before proceeding to the field works, all necessary papers, field forms, manual etc may be taken with them. An indicative list of the equipments is given in table 2.

Table 2: List of equipements

S.No.	Equipements and other materials	Number Required	Additional Comments
1.	Silva compass	1	
2.	GPS handset with extra batteries	1	-
3.	Hypsometer/ Haga altimeter for measuring tree height	1	
4.	30-50m (self-rolling) measuring metallic tape or rope/chain, marked at every 1-5 meters)	1	- Metric
5.	Steel scale (6 and 12 inch)	1 each	
6.	Digital Camera + spare memory	1	
	card + extra batteries + charger		
7.	Bark thickness gauge	1	
8.	Coloured flagging tape	Several rolls	Used for marking
9.	Waterproof Bags	2	To protect equipment against water/rain
10.	Callipers	1	Metric
11.	Weighing Machine	1	Digital
12.	Axe	1	
13.	Pathal/Khukhri	1	
14.	Plastic bags	2	For soil samples &

S.No.	Equipements and other materials	Number Required	Additional Comments
			forest floor
15.	Topographic maps and field maps	As	
		necessary	
16.	Field forms	As	
		necessary	
17.	Field manual	As	
		necessary	
18.	Note books	As	
		necessary	
19.	Pens & markers	As	
		necessary	
20.	Hand calculator	1	
21.	Camping equipment & cooking	As	
	utensils	necessary	
22.	Food items	As	
		necessary	

2.8 Preparation of Field Forms

The crew leaders must ensure that adequate number of field forms (in case data recorder is not available) are carried in field and each member has understood the field manual properly to have a clear understanding of the works to be done carried out in the field. All doubts regarding field work should be fully cleared before proceeding for the field.

2.9 Preparation of Field Maps and GPS

Only the latest published topographic maps of 1:50,000 scale should be used. However, if the maps are not available on this scale, alternative maps like grey prints, or bromide prints or even 1" = 1 mile scale maps can be used during survey. A Due precaution has to be taken that no area is left un-surveyed for non-availability of maps. The maps can be temporarily borrowed, if required, from the local Forest Department also, if these are not available with any other source.

It is pertinent to mention that the basic 5 km x 5 km grid layer has been borrowed from NRSC, which is made using Albers Projection and WGS 1984 datum. But the list of sample points which is sent from HQ is under degree minutes second (positioning format) and appropriate Projection and Datum should be used and GPS may accordingly be set. However, if there is any change in Projection & Datum as indicated by headquarter from time to time, then appropriate change in setting of GPS may be incorporated. The hand held GPS units should be checked and ensured that batteries are new and instrument is working properly. NNecessary training for using GPS should also be given to crew members. The latitudes and longitudes of sample plots should be feed in GPS to navigate to the sample plots.

2.10 How to Reach the Sample Plot

Hand held GPS should be used to approach the plot centre. The list of sample plots, which are to be tackled by the field crew, are available with them in advance. The crew leader should feed the list of inventory points to his GPS and should use "go to" button to locate the nearest available sample points. Having decided the plot location and grid number to be surveyed, the Crew Leader should find a nearest convenient route so that they can reach the plot with minimum traverse by vehicle or foot. After reaching a nearby location of the plot, the next job would be to search a reference point, which can be read on the map as well as locatable on the ground. The reference point is required to re-locate the sample plot by checking crew.

2.11 The Reference Point and its Marking

The reference point selected on a map should be such that it is not a temporary structure, which may disappear within a year or two; usually the following features may be considereded as reference points.

- 1. Bench mark
- 2. Triangulation points
- 3. Village trijunction points
- 4. Old bridges and culverts
- 5. Old temples, mosques and churches
- 6. Crossing of rail track with roads, rivers, streams
- 7. Junction of rivers or streams and roads
- 8. Junction of streams
- Junction of roads
- 10. Prominent bends in roads, rivers, streams
- 11. Old ponds and wells
- 12. Springs
- 13. Prominent topographical features in hilly areas such as spurs, knots etc.
- 14. Mile stone or kilometer stone
- 15. Boundary pillars (of international, state, district and forest).

As far as possible small nalas less than 6-meter width and 'kachha' roads or foot paths should not be selected for reference point. The crew leaders may select any of the above features, which is most prominent on the map.

The location of reference point and its correct description recorded in the form is very important to re-visit the sample plot in future.

After identifying the reference point in the field, a permanent structure or a prominent tree facing the reference point is also identified. The following details are recorded with red paint on the tin plate and fixed on the tree with nails or some other non-insertion way (radium band, etc.):

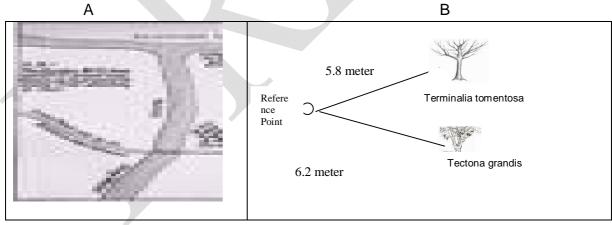
- 1. Grid Code
- 2. Mapsheet Number
- 3. Bearing from reference point to the plot centre as obtained from topographic map (for details see Annexure-X)
- 4. Distance of plot centre from reference point in kilometers as obtained from the topographic map
- 5. Initials of crew leader
- 6. Date of survey
- 7. Distance and bearing from two nearly prominent trees or structures to the reference point.

In addition to these, the following recordings will be made on the reverse Plot Approach Form (which will be explained in the next chapter).

- A) A free hand diagram of nearly 10 cm x 10 cm size showing the reference point and its surrounding prominent features. This is especially useful for locating the junctions of small nalas, roads, etc. which are adopted as reference points by the crew leaders (see illustration below at figure-3).
- B) A rough diagram of nearly 10 cm x 10 cm showing distance and bearing from two nearby prominent trees or structures to the reference point (see illustration below at figure 3).

The names of the trees be given preferably on the diagram.

For example, in sketch 'A' shown below, the tri-junction of the road has been taken as reference point. In sketch 'B', two prominent trees with their names and distance from reference point has been shown.



Sub-plot 1

Fig.3

2.12 Ranging to Sample Plot Centre

At the reference point, the bearing of the compass is set towards the centre of the Subplot-1 of sample plot. The crew leader then moves towards the centre and measures the horizontal distance as provided by the topographic sheet. For the ease in further checking, the trees along the bearing line be given small blazes at breast height.

2.13 Field Plot Measurements and Observations

After reaching the plot centre, some qualitative information is to be recorded occularly within a radius of **60 m** from the plot centre, i.e. centre of Subplot-1 without actually laying out the plot. The information collected is land use, legal status, crop composition, soil, grazing, fire, etc. It is advisable that the **PDF should be filled at the last** as by the time inventory work is completed in all the sub-plots, field crew has a fairly good idea about different parameters which are to be recorded in the PDF.

2.13.1 Layout of Sample Plot in the Field

On the basis of pilot study conducted in four districts, one in each FSI Zone, it is concluded that a cluster of four circular subplots of eight-meter radius in a fixed pattern will be considered as sample plot. The centre of subplot-1 will be the plot centre. Subplot-2, 3 and 4 are located at 40-meter horizontal at azimuths of 360°, 120° and 240° from the center of subplot-1 respectively. Enumeration will be done in all the subplots. The additional data on sample tree form will be collected from Subplot 2 only. However, if there are no trees found in the sub-plot 2, the information is to be collected from subplot 3, if not in subplot 3 then from subplot 4 and if not in subplot 4 then subplot 1 only.

The plot centre is reached after covering desired distance and bearing from the reference point. Shifting of plot centre of forest inventory is not permitted in under any circumstances. After reaching the plot centre, put a stout peg of approximately 10 cm diameter and 1.5-meter height, blaze it at the top and fix it firmly on the ground facing the blazed surface towards the direction from which sample point was approached. Write the sample point reference number and the date on the blazed tree surface. Marking of the tree should be done in such a way that tree is not damaged. Select two nearby prominent trees preferably at right angles from the peg for permanent referencing of the sample point. The following details are recorded with red paint on the tin/aluminium plate and fixed on the tree with nails or some other non-insertion way (radium band etc.) on the tree. Marking of the tree should be done in such a way that tree is least damaged.

- 1. Grid code
- 2. Mapsheet Number
- 3. Initials of crew leader with date

4. Distance and bearing from two nearby prominent trees or structures to the plot centre of Subplot-1. These details are also recorded on Plot Approach Form.

After reaching the plot centre, i.e. the centre of subplot-1, Azimuth at 360°, 120° and 240° at a distance of 40 meters from the centre of subplot-1, centre of subplots 2, 3 and 4, respectively, will be fixed. TAll these centress of subplots should be marked by thin poles or bamboos of 5 cm dia and 1.5 meter in height. A red colour cloth may be tied at the top end of these poles for clear visibility from different spots in the plot.

In case of centre of subplot 1 is inaccesible or water bodies, effeorts should be made by the crew leader to locate the centres of other three subplots approximately using the GPS, the distances and back bearings of the centres of the subplots 2, 3 and 4 each at 40 metres and 180 °, 300° and 160° respectively from the centre of the subplot 1.

2.13.2 Layout of other attached Microplots

2.11.2.1 Micro Plot for Soil and Forest Floor: Within a sample plot, three microplots of 1 m x 1 m will be laid out at 20-meter distance from the centre of subplot-1 in the direction of centre of subplots 2, 3 and 4 for collecting data on soil and forest floor. However, soil data will be collected from any two plots. To lay out these plots, 0.71-meter distance is marked in NE, SE, SW and NW directions and then these points are joined to form the plot.

2.13.2.2 Micro Plot for NTFPs - Herb (0.6 m radius); Shrub, Climber, Litter & Regeneration (1.7 m radius); and Stump and Dead Wood (2.8 m radius). Within a subplots-1,2,3 and 4, three concentric microplots of 0.6 meter, 1.7 meter and 2.8 meter will be laid out at a distance of 5 meter from the center of all the subplots at 90° towards east direction respectively to collect the data on NTFP (herbs, shrubs, climbers), woody litter, regeneration; and stump and dead wood respectively.

2.14 Data Collection

After demarcating the plot and satisfying that it is correctly oriented, the crew leader shall collect the data in prescribed forms. Instructions for filling different forms are given in the next chapter. He shall be personally responsible for data to be collected as per the instruction given in the manual. He shall assign duties to other crew members as per choice (considering efficiency of every member of the team).

The following precautions should be taken while collecting data.

- The data should be collected accurately with the help of the members of the crew and should be recorded neatly in good hand writing in the proper field forms by the crew leader himself, in the field.
- 2. The code numbers should be neatly and correctly recorded in legible manner.

- 3. Over-writing of codes should be avoided. Wherever any mistake is committed in writing, the first entry should be cancelled and a corrected entry should be written duly attested by crew leaders.
 - The digits should be written as :1, 2, 3, 4, 5, 6, 7, 8, 9, 0
- 4. Filling of Forms in Hindi, Urdu or regional languages should not be adopted without approval from the Head of the Office.
- 5. The data will be collected and recorded in the following field forms:

Field	Field Forms	Form Code
Form		
No.		
1.	Plot Approach Form	01
2.	Plot Description Form	02
3.	Plot Enumeration Form	03
4.	Sample Tree Form	04
5.	Bamboo Clump Analysis Form	05
6.	Bamboo Enumeration and Analysis Form (Non-	06
	Clump Forming)	
7.	Bamboo Weight Form	07
8.	NTFPs (Herbs, Shrubs and Climbers) and	08
	Regeneration Form	
9.	Soil and Forest Floor Carbon Form and Soil and	09
	Forest Floor Sample Card	
10.	Stump, Dead Wood and Woody Litter Form	10
11.	Herbs, Shrubs and Climbers Biomass Form	11

- 6. Detailed instructions for filling up of these forms are given in the following chapter.
- 7. If complete data of a subplot does not get accommodated in one sheet, a second sheet as a continuation sheet cshould be used and it should carefully have tagged with the main form after filling all columns and clearly writing words 'continuation sheet' on the second and onwards pages.
- 8. Before leaving the plot, ensure that no instruments or stores are left in the field.
- 9. Ensure that the sample plot is left as clean as it was before entering it.
- 10. Ensure that all members who have assisted in recording the information sign and write their names on the form.
- 11. Ensure that all information is recorded/written and measured in field itself and nothing is taken to camp for compliance. Before leaving a sample plot, it should be ensured that all jobs of recording, filling forms, muster rolls etc. are completed in all respects.

2.15 Quality Assurance

The role of the quality assurance is to ensure that all resource inventory data are collected scientificly and accurately as per the instruction given in the manual. Further the performance of individual crew members will be checked. It also helpful in revealing inadequacies in the instructions and in the training programme. For checking of the field data, checking crews headed by Dy. Director/ Asstt. Director/ STA are formed in every zone for 10% checking of fieldwork of each crew to maintain and improve the quality of field data collection.

2.16 Personal conduct and Safety

Field crew members, as representative of the FSI, are expected to at courteously and diplomatically in all their contacts with public and other agancies. Field crews are expected to project their professional image. Field staff working in the field are subject to many safety hazard. These can be minimized by considering the following.

- 1. Wear protective clothing provided: long sleves shirts, hats, long pants and boots can protect from cuts avrasions and biting insects.
- 2. Every crew should have a first aid kit with essential basic medicines.
- 3. Each crew must have edequate water and eatables.

For forest inventory local forest staff should be consulted before going for the field work.



Chapter-Three

Forest Inventory: Instructions for recording data in different field forms

3.1 Plot Approach Form (Field Form No. 1)

This form will give details, such as mode of travel by vehicle etc. up to the reference point. The bearing from the reference point and the distance from the reference point to the nearest subplot -1 centre will be recorded in degrees and in meters respectively. This form will also indicate the time of starting from camp and arrival at the reference point, time of arrival at the plot(s), time of leaving the sample plot(s) and time of returning to camp. All the timings will be written in hours. For example, 4.30 P.M. will be written as 1630 hrs.

The Crew Leader must fill up the proper identification of the sample plot (like State, Division etc.) by correct codes from the manual for each item. The distances shall be recorded as per specified unit against the item. Descriptive information is to be given in the space provided for the item. Extra sheets may be used (wherever the space given is not sufficient) with proper identification on the sheet.

The different works done by the individual members of crew should also be indicated against the items in the Plot Approach Form. While filling this form, the crew leader should bear in mind that all information in this form is recorded in such a manner that it will help in relocating the plot during checking and re-inventory.

Coding instructions are as under: -

Coding Instructions

S. No.	Item	Description/Definitions
1.	Job No. (Col.1(3))	Three digit code will be filled in by Data Entry Section (DES) of respective zone for record keeping
2.	FSI Zone Code (Col.2(1))	Name of the zone will be coded as under: Code Item 1 Northern Zone 2 Central Zone 3 Southern Zone 4 Eastern Zone
3.	Physiographic Zone Code (Col. 3(2))	Record name of the physiographic zone in two digit as under: NEED NOT TO BE FILLED Code Item 01 Western Himalayas 02 Easterm Himalayas

	T	
		03 North East Ranges
		04 Northern Plains
		05 Eastern Plains
		06 Western Plains
		07 Central Highlands
		08 North Deccan
		09 East Deccan
		10 South Deccan
		11 Western Ghats
		12 Eastern Ghats
		13 West Coast
		14 East Coast
4.	State Code	Record two-digit States code as given in Annexure
٦.	(Col. 4(2))	II.
5.	Forest Division Code	Record two-digit code for Forest Divisions as given
5.		
	(Col. 5(2))	in Annexure III.
6.	District Code	Record two-digit districts code as given in .
	(Col. 6(2))	Annexure III.
7.	Mapsheet Number.	Record six-digit code for denoting a mapsheet as
	(Col. 7(6))	given in the Annexure IV.
8.	Grid Code	Record six-digit code as per the list given by
	(Col. 8(6))	headquarters.
	Name of Camp /District	Calf aurilanatary
9.	Name of Camp/District	Self explanatory.
40	(Col. 9)	
10.	Time (hrs.) at which left	Record time in hours
	the camp/ move to next	(For example 08.30 hrs is written as 0830.)
	plot (IST)	•
	(Col. 10 (4))	
11.	Distance Covered by	Self explanatory.
	Vehicle (km)	Ex: 10 km should be written as 010
	(Col. 11 (3))	
12.	Time Taken in Journey by	Record time in hours
	Vehicle	
	(Col. 12 (4))	
13.	Location of the	Record Latitude of the place upto where journey is
	Place(Latitude)	performed by vehicle.
	(Col. 13 (8))	·
14	Location of the Place	Record Longitude of the place upto where journey
	(Longitude)	is perform by vehicle
	(Col. 14 (8))	
15.	Time(hrs.) at Which	Record time in hours.
.0.	Started on Foot to plot	
	centre	
	(Col. 15 (4))	
	(OUI. 10 (4))	

16.	Distance Covered on Foot	Record the distance upto the Plot Center in Km			
	upto the plot centre	upto two decim		0550)	
17.	(Col. 16 (4)) Time (hrs.) of arrival at the	(Ex 5.5 km should be written as 0550) Record time in hours			
17.	Plot	Record time in	nours		
	(Col. 17 (4))				
18.	Time (hrs) of Departure	Record time in	hours		
	from the Plot				
	(Col. 18 (4))				
19.	Time (hrs.) at which	Record time in	hours		
	Returned to the Camp/				
	move to the next plot				
	(Col. 19 (4))				
20.	Compassing/Navigation		of the person who	has carried out	
0.4	done by	this work			
21.	Plot Laid Out by		of the person who	has carried out	
22	(Col. 21))	this work	of the secretary who	has saviad sut	
22.	Tree Enumeration Done by (Col. 22))	this work	of the person who	nas camed out	
23.	Height measurement taken	And the second s	of the person who	has carried out	
20.	by (Col. 23))	Record name of the person who has carried out this work			
24.	Bark Thickness (B.T.) and	Record name of the person who has carried out			
	other measurements taken	this work			
	by (Col. 24))				
25.	Bamboo enumeration	Record name	Record name of the person who has carried out		
	done by (Col. 25))	this work			
26.	Bamboo weight taken by		of the person who	has carried out	
	(Col. 26))	this work			
27	Herbs/Shrubs/climbers/Re		of the person who	has carried out	
	generation data collected	this work			
28.	by (Col. 27)) Soil / Forest floor data	Pagerd name	of the person who	has carried out	
20.	collected by (Col. 28))	this work	of the person who	nas cameu out	
29.	Details of the reference (in		ıs 1 and 5)		
Refere	Spp. Code	Spp. Name	Distance from	Bearing from	
nce	(Col. 30 (4))	(Col. 31)	reference Tree to	reference Tree to	
Tree		,	Plot Centre (in	Plot Centre (in	
29			meters up to two	degree)	
		decimal places) (Col. 33 (3))			
1.			(Col. 32 (4))		
2.					
30.	Latitude and Longitude of	Latitude (Col. 34	1 (8)		
	the place upto where the	Longitude (Col.	` '		
	crew approached (This				
	item is to be filled up only				
	if the status of sample				
	status or sumple				

	plot is 2/3 /4)	
36.	Crew Leader (Name)	Record name of the crew leader.
	(Col. 36))	
37.	Remarks (upto 50 words)	Remark, if any, may be recorded here upto 50
		words



3.2 Plot Description Form (Field Form No.2)

These form describes completely the sample plot through various qualitative parameters like land use, legal status, topography, slope, aspect, soil, regeneration, fire, grazing, etc. This form will be filled up for every sample plot laid out on ground. An area of about **1.13** hectare i.e. **60** m radius around the centre of the subplot-1 will be considered for filling up this form without actually demarcating it on the ground.

Note: This form should have filled up at the end of the entire enumeration done in all the subplots and other field forms.

Coding instructions are as under: -

Coding Instructions

S. No.	Item	Description			
1.	Job No. (Col. 1(3))	Three digit code will be filled in by Data Entry Section (DES) of respective zone for record keeping			
2.	Survey Code (Col. 2(1))	Record the s	survey code for forest inventory as '1'		
3.	Form Code (Col. 3(2))	Two-digit cod	de will be filled in by the DES for PDFas '02'.		
4.	FSI Zone (Col. 4(1))		e of the FSI zone code as under:		
		Code	ltem		
		1	Northern Zone		
		2	Central Zone		
		3 Southern Zone			
		4	Eastern Zone		
5.	Physiographic Zone (Col. 5(2))		e of the physiographic zone code in two digits as NOT TO BE FILLED		
		Code	ltem		
	NEED NOT TO	01	Western Himalayas		
	BE FILLED	02	Easterm Himalayas		
		03	North East Ranges		
		04	Northern Plains		
		05	Eastern Plains		
		06	Western Plains		
		07	Central Highlands		
		08	North Deccan		

S. No.	Item	Description/Definitions				
		09	E	ast Deccan		
		10 South Deccan				
		11 Western Ghats				
		12	Ea	astern Ghats		
		13	W	est Coast		
		14	1	East Coast		
6.	State (Col. 6(2))	Record	two-digit state	e code as given in the Annexure II		
7.	District (Col. 7(2))	Record	two-digit distr	ict code as given in the Annexure III		
8.	Forest Division (Col. 8(2))	III.	J	st division code as given in the Annexure		
9.	Mapsheet Number. (Col. 9(6))	Record	six-digit code	e as given in the Annexure IV.		
10.	Grid Code (Col. 10(6))	Record	six-digit code	as per the list given by headquarters.		
11.	Latitude (Col. 11(8))	Record	the latitude as	s per the list given by headquarters.		
12.	Longitude (Col. 12(8))	Record	the longitude	as per the list given by headquarters.		
13.	Legal Status (Col. 13(1))	legal sta	atus will be fill	de as under. The information regarding ed up with reference to information on the g enquiries with local forest officers.		
		Code	Item	Particulars		
		1.	Reserved Forests	An area so constituted under provisions of Indian Forest Act 1927 and/or State Forest Acts, having full degree of protection. In reserved forest all activities are prohibited unless permitted.		
		Protected Forests An area notified under the provisions Indian Forest Act 1927 and/or of State Forest Acts, having limited degree of protection. In protected forests activities are permitted unleading prohibited.				
		3. Unclassed Areas, which are not classified as reserved or protected forests but which are Govt. lands. They may be property of any Govt. department.				
		4.	National	Areas which have been declared as		

S. No.	Item	Description/Definitions			
			Park	National park by a legislation will be kept under this class No need to fill up this item as it is covered under the column "15 Wild Life Protected Area".	
		5.	Private Forest lands	Private forest lands and agricultural tree lands owned by private individuals, communities or corporations will come under this category.	
		6.	Private land with trees owned by Govt.	This will include lands owned by individuals on which tree growth including bamboos belong to Govt.	
		7.	Undetermi ned	Any forest land which cannot be classed under any of the above categories will be classified here.	
14.	Land use (Col. 14(2))	Record two-digit code to denote various land use classes as given under. The crew leader should remember that this is a very important observation on which entire data processing and estimation of potentiality of the catchment etc. are based.			
		Code	Item	Description	
		01	Closed forests	All lands with a forest cover of trees (including bamboo) with canopy density 70% and above (canopy density is defined as the relative completeness of	
				canopy expressed as percentage taking closed canopy as 100. Standing in a plot or in area around it, observe the tree growth and assess the percentage of the space covered).	
		02	Dense forest	All lands with a forest cover of trees with canopy density 40-69%.	
		03	Open forests	All lands with a forest cover of trees with Canopy density 10-39%.	
		04	Scrub	Inferior growth, chiefly small or stunted trees present with canopy density less than 10%.	
		05	Bamboo brakes	No need to fill up this land use class. This will be taken care of by bamboo density and crop composition. If crop composition code is 12, 22 or 23 and bamboo density code is 1 or 2, then land use code will be recorded as 01.	

S. No.	Item	Descrip	tion/Definition	ons
				With the same crop composition codes and bamboo density code with 3 or 4, the land use code will be recorded as 02. Similarly for the bamboo density codes 5 or 6, the land use code will be 03.
		06	Shifting cultivation	Areas under current as well as last year's shifting cultivation will come under this class. The agricultural crop may be standing or may have been harvested.
		07	Young crop including plantations of forestry species	Young crop of forestry species including plantations having diameter 2 cm to 9 cm at breast height. This code also includes all young regeneration of forestry species either natural or of artificial origin, with average stems below 2 cm diameter at breast height covering an area of more than 0.5 ha. This will also include unestablished regeneration.
		08	Trees in line	This will include trees planted along canal banks, road sides, railway lines, wind brakes and shelter belts planted under various Social Forestry Schemes.
		09	Forest roads etc.	This class will include areas under forest roads, depots, colonies, nurseries, and such other forest land used in connection with forest administration.
		10	Govt. grass lands	This will include areas under natural or planted grass lands pastures (including Alpine pastures) etc., which are owned by Government.
		11	Barren lands	This will include areas with exposed surfaces like rock sheets, sand dunes, swamps and areas without any vegetation.
		12	Agricultural land without trees in surround	All lands under cultivation including fallow lands will come under this category. These lands will not have any tree growth along bunds or in their vicinity of 60 m radius.

S. No.	Item	Descrip	iption/Definitions			
		13	Agricultural land with trees in surround	This will include all lands under cultivation including fallow lands, which are covered with trees along bunds and in their surround within 60 m radius.		
		14	Non forestry plantations	All lands with tree planted primarily for purposes other than forestry such as cashew, coffee, tea gardens, rubber, private grass lands etc.		
		15	Habitation	This will include villages, city sites, industrial area, grave yards, grounds, houses, colonies etc.		
		16	Water bodies	Land under lakes, water courses etc.		
		00	Not reported			
14 (a)	Density for Land use class 7 and 14 (Col. 14(a) (2))	01	Closed canopy	All lands with a forest cover of trees (including bamboo) with canopy density 70% and above (canopy density is defined as the relative completeness of Canopy expressed as percentage taking closed canopy as 100. Standing in a plot or in area around it, observe the tree growth and assess the percentage of the space covered).		
		02	Dense canopy	All lands with a forest cover of trees with canopy density 40-69%		
		03	Open canopy	All lands with a forest cover of trees with canopy density 10-39%.		
		04	Scrub	Inferior tree growth chiefly of small or stunted trees with canopy density less than 10%.		
		00	Not applicable			
15	Wild life protected area (Col.15 (1))		wild life protected area as per the following table. The conservative/community reserves is given in Annexure-			
		Code	Description			
		1	National Park			
		3	Wild life sanctuary			
		4	Conservation reserve Community reserve			
		7	Outilitiality	ICOCIVG		

S. No.	Item	Description/Definitions					
		5	Not applicable				
		6 Tiger Reserve					
16	General topography of the plot (Col. 16(1))	General topography of the area around the centre of the plot (i.e. of the area comprising of the plot of 60 m radius depending upon the location of the plot) will be determined with the help of 1:50,000 or 1: 63,360 toposheets. This observation on map will be confirmed by field observation also.					
		Code	Item	Slope (Degree)	% Slope		
		1	Flat	≤3°	< 6		
		2	Gently rolling	$4^{0} - 15^{0}$	7 – 27		
		3	Hilly	$16^{\circ} - 40^{\circ}$	29 – 84		
		4	Very Hilly	41 ⁰ - 64 ⁰	87 – 205		
		5	Steep Hilly	65° +	214 +		
		0	Not reported				
18	Position on slope (Col. 18(1))	Determine the average slope of the hill face by standing at the plot centre and looking both ways up and down. Put the actual figures in percentage. If the instrument used reads slope in degrees, same should be converted to percentage slope as per Annexure V. These codes should be filled up according to the General Topography codes i.e. 1, 2, 3, 4 and 5 with upto 3°, 4°-15°, 16°-40°, 41°-64° and 65°+ respectively. The position of a plot will be examined on 1:50,000 or 1: 63,360 scale toposheets and its position with reference to hill slope and general topography on which it is located will be classified as under:					
		Code	Item				
		1	Ridge top				
		2	Upper one thire	d 			
		3	Middle				
		4	Lower one third	a			
		5 Valley bottom					
		6 Flat land 7 Plateau					
		8 Shallow ravine (depth of ravine < 5 meters)					
		9 Deep ravine (depth of ravine > 5 meters)					
		0 Not reported					
			riot reported				

S. No.	Item	Description/Definitions			
19	Altitude (Col.19(4))	The altitude of plot will be examined on 1:50,000 or 1:63,360 scale toposheet or GPS and record the altitude in meters in four digits e.g. 550 meters shall be recorded as 0550.			
20	Aspect (Col.20(1))	Aspect refers to the direction of the slope. Record aspect in one of the following classes:			
		Code			
		1	Northe	rn	
		2	North-	eastern	
		3	Easter	n	
		4	South-	eastern	
		5	Southe	ern	
		6	South-	western	
		7	Weste	rn	
		8	North-	western	
		9	No asp	pect	
		0	Not rep	ported	
21	Rockiness (Col.21(1))	Rockiness refers to the degree of presence of rock cove the land surface in 60 m radius around the centre of the plot-1 . Small pieces of broken stones, boulders and pebl will not constitute 'rock'. Record various classes codes under:			
		Code	Item	Description	
		1	High	When more than 80% area is covered by rock	
		2	High	When more than 50% to 80% area is	
		3	M\medium Low	covered by rock When less than 30% area is covered by	
				rock	
		4	No rock	Rock absent and entire land surface is available for tree growth	
		5	Low medium	When more than 30% to 50% area is covered by rock	
		0	Not reported		
22	Soil data	Soil information will be collected for plots belonging to such			
	(Col. 22-28)	areas which are treated as 'Forest. The information on soil, humus, soil colour, soil consistency, soil texture, coarse			
<u> </u>		Humas, soil colour, soil consistency, soil texture, coarse			

S. No.	Item	Description/Definitions				
		fragments, soil depth will be recorded by examining the soil samples collected from soil data of Field Form 9.				
22 (a)	Humus (Col.22(1))	Humus is the decomposed organic matter (leaves, twigs, branches etc.) which has become a part of the upper most soil layer. It should be clearly distinguished from the undecomposed leaf litter. The litter should, therefore, be removed from soil surface before making any measurement. Record presence of humus				
			of the following	·		
		Code	Item	Description		
		1	Shallow	When the humus is less than 5 cm. thick		
		2	Medium	When the thickness of humus layer is from 5 cm to under 10 cm.		
		3	Deep	When the thickness of humus layer is 10 cm and more		
		4	No humus	When the humus layer is absent.		
		0	Not reported			
23	Soil Colour			f the upper horizon of the soil below the		
(b)	(Col. 23(1))	Code	layer as per the	ne item given under:		
		Code				
		1	Black			
		2	Brown			
		3	Red			
		4	Other			
		5	No soi	I		
		0	Not rep	ported		
24 (c)	Soil consistency (Col. 24(1))	Soil consistency comprises the nature of soil material that expressed by the degree and kind of cohesion or resistance deformation or rupture. To evaluate consistency, select ar attempt to crush in the hand a small soil mass that appea slightly moist and assign code as follows:				
				Description		
		1	Friable	Soil which is loose and which crumbles very easily with a slight pressure of fingers and content is high in this type. Digging is very easy in this type of soil.		

S. No.	Item	Descrip	otion/Definition	ons
			Slightly compact	Soil which sticks together as a lump when taken in hand. Digging a pit in this type of soil is very easy with a pick-axe and is comparatively easier than in a compact soil. Such a soil can be scraped easily with the toe of shoe.
		3	Compact	Soil which is difficult to dig. Clay content is high in this type and the soil is hard due to soil particles sticking compactly.
		4	Cemented	Soil in which digging is practically impossible due to soil particles cemented together.
		5	No Soil	
		0	Not reported	
25 (d)	Soil texture (Col.25(1))	Texture of soil refers to relative occurrence of clay, silt ar sand particles. Examine the texture of the soil in the region the pit where the humus and the mineral soil are mixed the feeling with the hand and classify it in one of the following categories and record the code number:		
		Code	Item	Description
		1	Clayey	Soil contains mostly clay particles
		2	Clayey loam	Soil having higher percentage of clay particles but also having some sand and silt.
		3	Loam	Soil having mostly silt and with some clay.
		4	Sandy loam	Soil in which sand particles are predominant but also contains silt.
		5	Sandy	Soil having mostly sand particles.
		6	No soil	-
		0	Not reported	
26 (e)	Coarse- Fragments (Col.26(1))	Record coarse fragments like gravel, boulders, loose stone present in the soil mass (or top surface of the soil) as pecode given below:		
		Code	Item	Description
		1	Loose stones	Stones more than 25 cm dia. present.

S.	Item	Description/Definitions		
No.			r <u> </u>	
		2	Bouldery	Broken stones of diameter varying from 8-25 cm present.
		3	Gravely	Stoney fragments less than 8 cm dia. present
		4	No coarse	Gravel/stones absent
			fragments	
		0	Not	
			reported	
		only who	en more than	ce of coarse fragments will be recorded 50 % of 60 m radius plot is covered with erwise code number 4 will be given.
27 (f)	Soil Depth (Col. 27(1))	Depth of soil will be estimated from the soil sample plots and guessing the remaining depth. The guess will be based on all available information, i.e. exposed soil profiles on nala banks, road cutting, etc. and on luxuriant growth of vegetation. Record the depth as per the code given as under:		
		Code	Item	Description
		1	No soil	0.71
		2	Very shallow	Soil depth less than 15 cm.
		3	Shallow	Soil depth 15 cm and more but less than 30 cm.
		4	Medium	Soil depth 30 cm and more but less than 90 cm.
		5	Deep	Soil depth 90 cm and more.
		0	Not	
			reported	
28	Soil Erosion	***************************************		rearing away of the earth's surface by the
(g)	(Col.28(1))		of water and vocate given ur	vind. Record the extent of soil erosion as inder:
		Code	Item	Description
		1	Heavy	Areas which have deep gullies, ravines, land slips etc.
	Ť	2	Moderate	Where mild gullies and rills are formed on the top surface of the soil.
		3	Mild	Slight erosion where only surface erosion has taken place.
		4	No erosion	-
		0	Not	
			reported	

S. No.	Item	Descrip	tion/Definition	ons	
29	Origin of stand	Record	origin of fores	st stand as classified under:	
	(Col.29(1))	Code		Item	
		1		st of seed origin	
		2		st of coppice origin	
		3	Man-made forest – A forest crop raised artificially		
				owing or by planting.	
		4	Not applicat		
		0	Not reported		
30	Crop			shed only when the land use is identified	
	composition	•		rop composition of the plot as also that of und the centre of the sub plot-1 will be	
	(Col.30(2))			two digit codes given in Annexure VI. In	
		_	•	6, the crop composition will be taken as	
				arest periphery.	
				"	
31	Canopy layer	This wil	l be distinguis	shed only when the land use is identified	
	or storey			Canopy layer is defined as a horizontal	
	(Col.31(1))		• '000000000000000000000000000000000000	mmunity, each layer being called a storey.	
				yer as follows:	
		Code	Item	Description	
		1	No storey	Crop is absent or found young and canopy formation has not taken place.	
		2	One	A small height variation may exist even	
			storeyed	in one storeyed forest.	
			forest		
		3	Two	Variation in canopy layers	
			storeyed	distinguishable into upper and lower	
			forest	storeys.	
		4	Three or	The variation in height is very large and	
			more	in most cases, it is not possible to group	
			storeyed forest	the trees in canopies.	
		5	Not		
			applicable		
		0	Not		
			reported		
32	Top height		•	will be arrived at by measuring the height	
	(Col.32(2))	of top 5 trees occurring in the plot or its surround of 1.13 had			
		area i.e. 60 m radius from centre of subplot-1. The instrument			
		used to measure height is hypsometer, Haga Altimeter etc. For inaccessible plots '00'' code should be filled up.			
		Note: -	In a vound	crop with scattered mother trees the top	
				•	
		_		·	

S. No.	Item	Description/Definitions		
33	Size class (Col.33(1))			e to which the tree crop of a stand can be will be distinguished.
		Code	Item	Description
		1	Regenerati on	Tree crop below 10 cm diameter predominating.
		2	Pole crop	Tree crop between 10-20 cm diameter pre-dominating.
		3	Small timber	Tree crop between 20 to under 30 cm diameter pre-dominating.
		4	Big timber	Tree crop with diameter 30 cm and over pre-dominating.
		5	Mixed size class	Tree crop with no marked domination of any size class.
		6	Not applicable	
		0	Not reported	
34	Intensity of Regeneration (Col. 34(1))			ngs, including coppice, in all the four plots e added and record code as follows:
		Code	Item	Description
		1	Adequate	18 or more seedlings
		2	Inadequate	Less than 18 seedlings
		3	Absent	No seedlings
		4	Not applicable	
		0	Not reported	
		***************************************	1007	cies with diameter less than 10 cm are to of regeneration.
35	Species under regeneration (Col.35(4))	Record the species code, which is most common amongst regeneration here in four digits from Annexure VII		
		etc. of		p due to girdling, illicit felling and lopping ged by ocular estimation in one of the
36	Injuries to crop	Code	ltem	Description
	due to girdling (Col.36(1))	0	Not reported	This code should be filled up in case of plot is inaccessible.
		1	Heavy	More than 25% of the area/crop is affected.

S. No.	Item	Description/Definitions		
		2	Moderate	5 – 25% of the area/crop is affected.
		3	Occasional	Less than 5% of the area/crop is affected.
		4	No Injuries	Self explanatory
		5	Not	Self explanatory
			applicable	
37		Code	Item	Description
		0	Not reported	This code should be filled up in case of plot is inaccessible.
	Injuries to crop due to illicit	1	Heavy	More than 25% of the area/crop is affected.
	felling	2	Moderate	5% – 25% of the area/crop is affected.
	(Col.37(1))	3	Occasional	Less than 5% of the area/crop is affected.
		4	No Injuries	Self explanatory
		5	Not	Self explanatory
			applicable	
38	Lopping for	Code	Item	Description
	fodder etc.	0	Not reported	This code should be filled up in case of plot is inaccessible.
	(Col.38(1))	1	Heavy	More than 25% of the area/crop is
		1	пеачу	affected.
		2	Moderate	5 – 25% of the area/crop is affected.
		3	Occasional	Less than 5% of the area/crop is affected.
		4	No lopping	Area/ crop is not affected by lopping.
		5	Not	Self explanatory
			applicable	
39	Fire incidence (Col.39(1))	followin	g codes:	nce occularly and classify it in one of the
		Code	Item	Description
		1	Heavy	Where more than 50% of the tree crop
				and any extent of ground vegetation is
		0	N/a damata	affected by fire.
		2	Moderate	Where 10 - 50% of the tree crop and
				any extent of ground vegetation is affected by fire.
		3	Mild	Where less than 10% of the tree crop or/
				and any extent of ground vegetation is
				affected by fire.
		4	No fire	Self explanatory
		0	Not	Self explanatory

S. No.	Item	Description/Definitions				
			reported			
40	Grazing			intensity of the grazing classify it in one of		
	incidence (Col.40(1))	the following categories:				
			Item	Description		
		1	Heavy	Where more than 50% of the area/crop		
			grazing	is affected by grazing.		
		2	Moderate	Where 10% - 50% of the area/crop is		
			grazing	affected by grazing.		
		3	Light	Where less than 10% of the area/crop is		
		4	grazing No grazing	affected by grazing. Self explanatory		
		0	Not	Sell explanatory		
		U	reported			
41	Presence of under growth vegetation (Col.41(1))	Have a look on the ground cover over an area of about of radius around the centre of the sub plot-1 and classify the on the basis of under growth vegetations i.e. the lost stratum of woody and other vegetation above the ground of vegetation other than grass in one of the following category				
		Code	Item	Description		
		0	Not	This code should be filled up in case of		
			reported	plot is inaccessible.		
		1	Very	When more than 50% of the surface is		
	(-1)		dense	covered by under growth vegetation.		
		2	Dense	Where 25% - 50% of the surface is		
		3	Moderate	covered by under growth vegetation. Where 10-25% of the surface covered		
		3	Moderate	by under growth vegetation.		
		4	Scanty	Where less than 10% of the surface is		
		1	County	covered by under growth vegetation.		
		5	Absent	No under growth vegetation.		
		6	Not			
10	D	41	applicable			
42	Presence of grass (Col.42(1))	Have a look on the ground cover over an area of about 60 radius around the centre of the sub plot-1 and classify th plot in one of the following categories:				
		Code	Item	Description		
		0	Not	This code should be filled up in case of		
			reported	plot is inaccessible.		
		1	Very	Where more than 50% of the surface is		
			dense	covered by grass.		
		2	Dense	Where 25-50% of the surface is covered		

S. No.	Item	Description/Definitions		
				by grass.
		3	Moderate	Where 10-25% of the surface is covered
				by grass.
		4	Scanty	Where less than 10% of the surface is
				covered by grass
		5	Absent	No grass
43	Presence of most occurring invasive species (Col.43(2))	Record the code of the most occurring invasive species as given in Annexure-X. For identification of invasive species, a separate album of 45 major invasive species has been prepared. The term invasive species has been defined by FAO as 'Species that are non-naturetive to a particular eco-system and whose introduction and spread causes, or is likely to cause, socio-cultural, economic or environmental harm (including forest ecosystem) or harm to human health'.		
44	Presence of second most occurring invasive species (Col.44(2))	Record the code of the second most occurring invasive species as given in the Annexure-X. For identification of invasive species, a separate album of 45 major invasive species has been prepared.		
45	Extent of most	Record	extent of mos	t occurring invasive species as follows:
	occurring	Code	Item	Description
	invasive	0	Not	This code should be filled up in case of
	species		reported	plot is inaccessible.
	(Col.45(1))	1	Very	Where more than 50% of the surface is
			dense	covered by dominant species.
		2	Dense	Where 25-50% of the surface is covered
				by dominant species.
		3	Moderate	Where 10-25% of the surface is covered
			_	by dominant species.
		4	Scanty	Where less than 10% of the surface is
			A I	covered by dominant species
		5	Absent	No invasive species
		6	Not	
46	Extent of	Dogard	applicable	and most conurring investive appoints as
46	46 Extent of second most		extent of Sec	cond most occurring invasive species as
	occurring	Code	Item	Description
	invasive species	0	Not reported	This code should be filled up in case of plot is inaccessible.
	(Col.46(1))	1	Very	Where more than 50% of the surface is
		'	dense	covered by second dominant invasive
			301100	species.
L	1	1	1	-p

S. No.	Item	Descrip	Description/Definitions		
		2	Dense		f the surface is covered ant invasive species.
		3	Moderate		f the surface is covered ant invasive species.
		4	Scanty	Where less than	10% of the surface is ond dominant invasive
		5	Absent	No invasive spec	ies
		6	Not applicable		
47	Occurrence of Bamboo (Col.47-50))	taking in	the occurrer nto considera of the subplo	tion an area of 60 ot-1.	om the following item m radius around the
	(a) Bamboo density		the density o		nps of all species using
	(Col.47(1))	Code	Item		scription
				Clump forming	Non-clump Forming
		0	Not reported	This code should plot is inaccessib	be filled up in case of le.
		1	Pure Bamboo	200 or more clumps/ha	More than 12,000 culms
		2	Very dense	151-200 clumps/ha.	9,001-12,000 culms
		3	Dense	101-150 clumps/ha.	6,001-9,000 culms
		4	Moderately dense	51-100 clumps/ha.	3,001-6,000 culms
		5	Scattered	21-50 clumps/ha.	1,201-3,000 culms
		6	Sparse	1-20 clumps/ha.	1-1,200 culms
		7	A 100	•	completely hacked by
		8	No bamboo	Bamboo totally at	osent.
		9	Regenerati on crop	Clump formation place.	n has not yet taken
		issuing normally distingu easily	from the say have more ished as an idiscernible from	ame rhizome sys e than one culm ndependent clump om adjacent clum	n aggregate of culms stem (A clump would as). A clump will be where its periphery is appropriately in the such distinction is not

S. No.	Item	Description/Definitions		
		possible two clumps within half meter distance will be recorded as one. 2. In case of non-clump forming the height of a culm for density code 1 to 6 should be more than 2 m and DBH more than 1 cm.		
48	(b) Bamboo quality (Col.48(1))	For determining the bamboo production capacity of a site bamboo areas will be classified into bamboo-site qualit classes. For this purpose, the average of measurments of tallest culms occurring in 60 m radius around the centre of the sub-plot-1 will provide the data. Following codes will denote the bamboo quality classes.		
		Code 0	Item Not	Description This gods should be filled up in each of
		U		This code should be filled up in case of plot is inaccessible.
		1	reported I	Average culm height 9 metres or more for Dendrocalamus strictus and 14 metres or more for Bambusa arundinacea.
		2	11	Average culm height 6 metres or more but less than 9 metres for <i>Dendrocalamus strictus</i> and 10 metres or more but less than 14 metres for <i>Bambusa arundinacea</i> .
		3 III Average culm height of 2 me more but less than 6 metre Dendrocalamus strictus and 2 2 more but less than 10 m Bambusa arundinacea.		
		4	IV	Regeneration crop
	7	5		Not applicable
		of Dend	lrocalamus st	other species will be decided on the lines
49	(c) Bamboo	Record	the extent of	flowering as follows:
	Flowering (Col.49(1))	Code	Item	Description
	(001.43(1))	0	Not reported	This code should be filled up in case of plot is inaccessible.
		1	Sporadic	When less than 10% of the clumps (culms in case of non-clump forming) have flowered.
		2	Gregarious	When large scale flowering has taken place.
		3	No flowering	-

S. No.	Item	Description/Definitions		
		4	Not - Applicable -	
50	(d) Bamboo regeneration (Col.50(1))	Such bamboo areas, where clump formation has not yet take place or which are under natural or artificial regeneration bamboos. These will be classified as follows:		
		Code	Item	Description
		0	Not reported	This code should be filled up in case of plot is inaccessible.
		1	Dense	When more than 40% of the area is covered by regeneration crop.
		2	Medium	When 10-40% of the area is covered by regeneration crop.
		3	Scattered	When less than 10% of the area is covered by regeneration crop.
		4	Absent	
51	Plantation	5	Not Applicable	
	potential (Col.51(1))	All those forests where the crown density is 40% or more, plantation potential is not of any significance and hence the code pertaining to 'Not applicable' is to be written. In all other cases the land class to which the sample plot belongs will be studied and it will be observed whether it is an available potential land for raising plantation or not. While determining the potentiality of the land, give due consideration to aspect, soil depth, drainage, crop in the surrounding area, and other biotic and climatic factors. The maximum permissible slope up to which plantation can be raised will be 40° and minimum soil depth should be 15 cm. The column should be filled for land use code 03 to 07 only. <i>For inaccessible plot '0' code should be filled up.</i>		
		Code		Item
		0	Not reported	
		Plantable (This code should filled up If more 50% area is found suitable for plantation) Un-plantable		
	3 Not a			<u> </u>
		4	Partially plan	table(This code shpuld filled up wher area is found suitable for plantation)
52	Distance from	Code		Item
	road to plot (Col.52(1))	0	Not reported	

S. No.	Item	Description/Definitions		
		1	Distance less than 1 km	
		2	Distance 1 to less than 3 km	
		3	Distance 3 to less than 5 km	
		4	Distance 5 to less than 7 km	
		5	Distance 7 to less than 10 km	
		6	Distance 10 to less than 15 km	
		7	Not applicable (if distance is more than 15 km	
53	Type of water	Code	Item	
	bodies in the vicinity of plot	0	Not reported	
	(Col. 53(1))	1	Perennial river	
		2	Seasonal river	
		3	Perennial stream	
		4	Seasonal stream	
		5	Lake	
		6	Pond	
		7	Others (please specify in 'remarks' column)	
		8	Not available	
			nan one type is available in consideration zone, then which occupies more area should be reported.	
54	Distance from	Code	Item	
	River/Stream to plot from the	0	Not reported	
	periphery of the 60 m plot	1	Distance less than 50 m from periphery of outer sub	
	(Col. 54(1))	2	Distance 50 to less than 70 m from periphery of outer sub plot	
		3	Distance 70 to less than 100 m from periphery of	
		4	outer sub plot Distance 100 to less than 125 m from periphery of	
			outer sub plot	
		5	Not applicable (if distance is more than 125 m) from periphery of outer sub plot)	
55	Plot status	L	peripriory or outer out prot/	
	(Col. 55(1))	Code	Item	
		1	Sample plot visited and all data collected.	

S. No.	Item	Description	Description/Definitions		
		2	Sample plot visited, de enumerated due to obstructions.	escribed but could not be steep slopes or other	
		3	Sample plot could not visited and plot describe	be approached but vicinity ed.	
		4		ot be seen even from a een but vicinity could not be ts).	
		5	Sample plot visited and at least from one sub-plo	data could not be collected ot.	
56-	data of the crop (in the PDF) a approached. Thi where the samp which he is stan the site, he can case the sample In case of plot	same crop composition in which the point falls. It must be ensured that the of the crop composition recorded from the place approached is the same the PDF) as it would have been had the sample plot been actually oached. This would be possible only when the crew leader can see the site of the sample plot actually lies and he is convinced that the type of forest in he is standing extends to the sample plot. If the crew leader cannot see site, he cannot be sure of the type in which the sample plot falls and in this the sample plot should be 'inaccessible'. The same crop composition in PDF will be filled up as far as sible. In case of plot status 4, if possible crop composition will be filled up.			
57	, ,			•	
	influences	Code	Item	Description	
	(Col.56(1))	0	Not reported	This code should be filled up in case of plot is inaccessible	
		1	Heavily degraded	50 % and above	
		2	Moderately degraded	10 % to < 50 %	
		3	Mildly degraded	1% to < 10 %	
		4	Not degraded.		

S. No.	Item	Description/Definitions			
	b. Natural	5	Not applicable		
	calamities (Col.57(1))	Natural calamaties will be judged on the basis of following factors: Such as land slides, glaciers, flood, rain fall, natural mortality, due to pathological and physiological features.			
		Code	Item	Description	
		0	Not reported	This code should be filled up in case of plot is inaccessible	
		1	Heavily degraded	50 % and above	
		2	Moderately degraded	10 % to < 50 %	
		3	Mildly degraded	1% to < 10 %	
		4	Not degraded.		
		5	Not applicable		
58	Date of survey	DD/MM/Y	YYY		

Note: - (i) If land use code is either 11 or 16, then Field Forms 8 and 9 are not to be filled up. In all other land use classes, if possible Field Forms 8 and 9 are to be filled up.

3.3 Plot Enumeration and Sample Tree Form (Field Form No. 3 & 4)

The field form no 3 & 4 i.e. PEF and STF has been merged together. The description of column for PEF and STF is given here as under:

Plot Enumeration Form (PEF): In this form data of trees and bamboo clumps will be recorded from all sub-plots of 8 m radius. Trees of diameter below 10 cm at breast height over bark (dbhob) are not to be enumerated.

Plot Enumeration Form for each subplot of 8 m radius will be maintained separately. If a subplot contains large number of trees/bamboo clumps which cannot be accommodated in one single form/sheet, additional forms/ sheets in continuation may be used and in that case the total of all trees/bamboo clumps in the plot will be given in each page.

For border line trees/bamboo clumps, if more than 50 % of stem/bamboo clump falls within the circumference of the sub-plot of 8 m radius, such tree/bamboo clump will be enumerated.

Enumeration of trees/bamboo will commence clock-wise from north. All bamboo clumps occurring in a subplot will be serially numbered by an appropriate marker and a separate series of numbers will be used for each bamboo species. Similarly, trees will be numbered separately and simultaneously.

For each enumerated tree/bamboo clump, a number of parameters are to be recorded. These parameters are diameter at breast height, crown width, status of tree (dead/live), cause of death in case of mortality, rotten/missing cull, total length, uncompacted length, compacted length, incidence of insect, incidence of disease and decay class.

The coding instructions for filling up of the Plot Enumeration Form are as under: -

SI. No.	Item	Description/Definitions
1.	Job No. (Col.1(3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zones for record purpose.
2.	Form Code (Col. 2(2))	Two digit code will be filled in by DES for PEF as '03'.
3.	Mapsheet Number. (Col. 3(6))	Record six-digit code as given in Annexure IV
4.	Grid code (Col. 4(6))	Record six-digit code as per the list given by headquarters.

SI. No.	Item		Descri	ption/Definitions	
5.	Subplot No (Col. 5(1))	Record r	Record number of subplot.		
6.	Slope (%) (Col. 6(3))	Determine the average slope of the hill face by standing at the centre of subplot and looking both ways up and down. Put the actual figures in percentage. If the instrument used reads slope in degrees, same should be converted to percentage slope as per Annexure V.			
	Subplot status	Record	status of sub plot as	s follows.	
7.	(Col. 7(1))	Code	Description		
		1	-	d all data collected.	
		2		cinity visited, but enumeration could o steep slopes or other obstructions.	
		3	Subplot falls outsi	de forest area.	
		4	Subplot visited bu	t no tree/bamboo present	
7(a) Land use class for subplot (Col. 7(a)(2)) Two-digit code has been assigned to den classes in Sub-plots. Record landuse class codes.					
		<u>Code</u>	<u>ltem</u>	<u>Description</u>	
		01	Closed forests	Lands with a forest cover of trees (including bamboo) with canopy density 70% and above (canopy density is defined as the relative completeness of canopy expressed as percentage taking closed canopy as 100. Standing in a Sub-plot, observe the tree growth and assess the percentage of the space covered).	
		02	Dense forest	Lands with a forest cover of trees with canopy density 40-69% in a Sub-plot.	
		03	Open forests	Lands with a forest cover of trees with Canopy density 10-39% in a Sub-plot.	
		04	Scrub	Inferior growth, chiefly small or stunted trees present with canopy density less than 10% in a Sub-plot.	
		05	Bamboo brakes	No need to fill up this land use class.	
		06	Shifting cultivation	Areas under current as well as last year's shifting cultivation will come under this class. The agricultural crop may be standing or may have	

SI. No.	Item	Description/Definitions		
				been harveste in a Sub-plot.
		07	Young crop including plantations of forestry species	Young crop of forestry species including plantations having diameter 2 cm to 9 cm at breast height. This code also includes all young regeneration of forestry species either natural or of artificial origin, with average stems below 2 cm diameter at breast height covering an area of more than 0.5 ha. This will also include unestablished regeneration in a Subplot.
		08	Trees in line	This will include trees planted along canal banks, road sides, railway lines, wind brakes and shelter belts planted under various Social Forestry Schemes in a Sub-plot.
		09	Forest roads etc.	This class will include areas under forest roads, depots, colonies, nurseries, and such other forest land used in connection with forest administration in a Sub-plot.
		10	Govt. grass lands	This will include areas under natural or planted grass lands pastures (including Alpine pastures) etc., which are owned by Government in a Sub-plot.
		11	Barren lands	This will include areas with exposed surfaces like rock sheets, sand dunes, swamps and areas without any vegetation.
		12	Agricultural land without trees in surround	Lands under cultivation including fallow lands will come under this category.
		13	Agricultural land with trees in surround	This will include all lands under cultivation including fallow lands, which are covered with trees along bunds and in their surround within 8 m radius.
		14	Non forestry plantations	Lands with tree growth planted primarily for purposes other than

forestry such as cashew, gardens, rubber, private etc. in a Sub-plot. 15 Habitation This will include villages industrial area, grav grounds, houses, colonic Sub-plot. 16 Water bodies Land under lakes, water of in a Sub-plot.	grass lands s, city sites, ve yards, ies etc.in a		
industrial area, grav grounds, houses, colonic Sub-plot. 16 Water bodies Land under lakes, water of in a Sub-plot.	ve yards, ies etc.in a		
in a Sub-plot.	courses etc.		
7(b) Sub Plot Selected for STF Yes/ No (Select Yes for any one of the Sub-plot)			
8. Serial No Subplot wise tree serial number from 1 onwards.			
8.1. Species name Record local or botanical name of the species.			
9. Species code (Col. 9(4)) Record species code in four-digit as given in Annexure	Record species code in four-digit as given in Annexure VII.		
(Col. 10(3)) digits for trees (1.37 m from ground level measuring or of the tree) of 10 cm and above. For bamboo of diameter will be measured at its base (at a height of 3 the help of a tape and to be recorded here in three digital Note: Caution may be taken while recording data of bill large bamboo clumps. In such cases if girth is measuring or of the tree) of 10 cm and above. For bamboo clumps are digital to the tree of	Record the diameter in cm at breast height over bark in three digits for trees (1.37 m from ground level measuring on uphill side of the tree) of 10 cm and above. For bamboo clumps, the diameter will be measured at its base (at a height of 30 cm) with the help of a tape and to be recorded here in three digits. Note: Caution may be taken while recording data of big trees and large bamboo clumps. In such cases if girth is measured, it should be converted into diameter and the same be recorded bere in three digits.		
11. Status of Record the status of each enumerated standing tr standing trouble standing troubles.	ree/bamboo		
tree/bamboo Code Item			
clump 1 Tree/ bamboo clump is alive			
(alive/dead) 2 Tree/ bamboo clump is dead			
(Col. 11(1)) 3 Not applicable			
12. Cause of death Record cause of death for all trees/bamboo clump for	und dead in		
(Col. 12(1)) the sub-plot as per the description given below:			
Code Item			
0 Not applicable			
1 Insect			
2 Disease 3 Fire			
4 Animal			
5 Weather			
6 Vegetation(suppression/competition/vines	s. etc.)		
7 Unauthorised human interference	., 5.5.7		
8 Silvicultural/land cleaning activity			

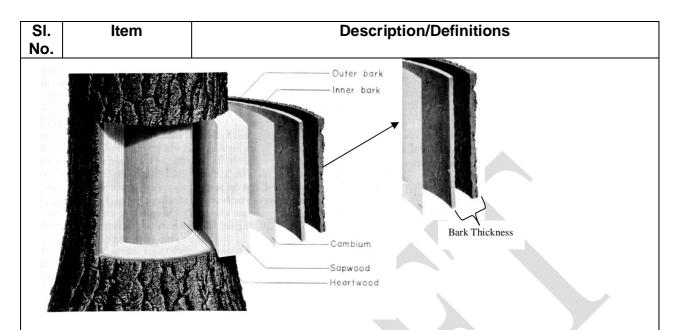
SI. No.	Item	Description/Definitions		
		9 Others		
13.	Rotten/missing cull (Col. 13(1))	In each enumerated tree, observe the rotten and missing wood volume. Record % of such loss in the wood volume that will be assessed with respect to sound tree as per the percentage class given below:		
		Code	Percentage class	
		0	0-10 (for sound tree)	
		1	11-30	
		2	31-50	
		3 4	51-70 70+	
		5	Not applicable	
		Record the	decay class only for dead standing trees as per the	
	Illustrative	Code De	scription	
	figures are also given below the code		in bole with top, branches present, full bark and no od decay.	
			in bole with top broken, branches upto 25%, without bark and wood decay upto 25%.	
			in bole with top broken, branches up to 5%, without bark and wood decay of 25-50%.	
		000000000000000000000000000000000000000	in bole with top broken, no branches, without full bark d wood decay of 50-75%.	
5 Very small stump, no branches, bark les wood decay is more than 75%.			ry small stump, no branches, bark less than 20% and od decay is more than 75%.	
	6 Not applicable			
·			ad stumps of less than 1.37 m height will not be here. Such stumps will be accounted for in the dead	

SI. No.	Item	Description/Definitions			
		100 80 80 80 100 100 100 100 100 100 100			
15.	Crown width (a) CW1 (Col. 15(2)) (b) CW2 (Col. 16(2))	Record crown width of trees from subplot 2. If there are no trees found in subplot 2, the information is to be collected from subplot 3, if not in subplot 3 then from subplot 4 and if not in the subplot 4 then from subplot 1 only. Crown width of the tree and spread of bamboo clump will be measured to the nearest meter, first towards plot centre (CW1) and second should be perpendicular (CW2) to the center.			
17.	Total tree height (Col. 17 -19)	Record total height in nearest meters. This information will be used to arrive at compacted crown ratio of the tree. (Annexure-XIII)			
18.	Tree height (L ₁) (Col. 17(2)) (Illustrative figures are given below)	Record tree height (i.e. L ₁) of the tree in nearest meters. Tree height of trees will be recorded in subplot 2. If there are no trees found in subplot 2, the information is to be collected from subplot 3, if not in subplot 3 then from subplot 4, and if not in the subplot 4 then from subplot 1 only.			
19.	Uncompacted crown length (L ₂) (Col. 18(2))	Record uncompacted crown length of trees in subplot 2. If there are no trees found in subplot 2, the information is to be collected from subplot 3, if not in subplot 3 then from subplot 4, and if not in the subplot 4, then from subplot 1 only.			
		Uncompacted crown length (L ₂) of the tree is to be recorded in nearest meters in two digits.			
		Uncompacted height of crown is defined as tree bole length supporting green, live, healthy foliage, where openings in the crown are not visually adjusted. Some tree crowns are lopsided			

SI. No.	Item	Description/Definitions			
		or exhibit openings or gaps within the live crown.			
		While measuring <i>uncompacted crown length</i> , those openings in the crown are <u>not</u> visually adjusted by visually transferring lower branches to fill in the gaps/holes after ocularly observing the tree crown.			
		Uncompacted crown length is always greater than or equal to compacted crown length.			
20.	Compacted crown length (L ₃) (Col. 19(2))	Record compacted crown length of trees in subplot 2. If there are no trees found in subplot 2, the information is to be collected from subplot 3, if not in subplot 3 then from subplot 4, and if not in subplot 4 then from subplot 1 only.			
		Compacted crown length (L ₃) of the tree is to be recorded in nearest meters in two digits which is defined as tree bole length supporting healthy, live foliage, where openings in the crown are visually adjusted. When measuring <i>compacted crown length</i> , openings in the crown or lopsided crowns are adjusted by visually transferring lower branches to fill in the openings. (Illustrative figures are given below)			
		Uncompected crown[La]			
21.	Incidence of insects (Col. 20(1))	Record incidence of insects of trees in subplot 2. If there are no trees found in subplot 2, the information is to be collected from subplot 3, if not in subplot 3 then from subplot 4 and if not in subplot 4 then from subplot 1 only.			
		The incidence of insects is to be observed in each of the enumerated tree and observation is to be recorded as per following description:			
		Code Description			
		0 No insect incidence (upto 10%)			

SI.	Item	Description/Definitions		
No.				
		1	Defoliator/skeletonizer with mild attack (where 11- 20% of tree is affected).	
		2	Defoliator/skeletonizer with moderate attack (where 21-30% of tree is affected).	
		3	Defoliator/skeletonizer with severe attack (where more than 30% of tree is affected).	
		4	Borer with mild attack (where 11-20% of tree is affected).	
		5	Borer with moderate attack (where 21-30% of tree is affected).	
		6	Borer with severe attack (where more than 30% of tree is affected).	
		7	Other insects (sap suckers, termite etc.) with mild attack (where 11-20% of tree is affected).	
		8	Other insects (sap suckers, termite, etc.) with moderate attack (where 21-30% of tree is affected).	
		9	Other insects (sap suckers, termite etc.) with severe attack (where more than 30% of tree is affected).	
disease trees found in subplot 2, the (Col. 21(1)) trees found in subplot 3, if not in subplot			incidence of disease of trees in subplot 2. If there are no und in subplot 2, the information is to be collected from 3, if not in subplot 3 then from subplot 4 and if not in the 4 then from sub-plot 1 only.	
		The incidence of disease is to be observed in each of enumerated tree and observation is to be recorded as following description:		
		Code Description		
		0	No disease	
			Wilt : Diseases that affect the vascular system of plants. Attacks by fungi, bacteria, and nematodes can cause rapid killing of plants, large tree branches or even entire trees.	
			The drying out, drooping and withering of the leaves of a plant due to inadequate water supply, excessive transpiration, or v ascular disease.	
		2	Canker: A destructive fungal disease of apple and other trees that results in damage to the bark. It may cause extensive damage to trees when they kill all of the bark in a particular area, thus girdling a branch or main stem.	
		3	Rus t: A disease that causes plants to develop reddishbrown spots.	
		4	Root rot:	

SI. No.	Item	Description/Definitions		
		Any of several plant diseases caused by oomycetes (also known as water molds) or fungi and characterized by rotting of the roots and often by yellowing or wilting of the leaves.		
		Heart rot: In trees, heart rot is a fungal disease that causes the decay of wood at the center of the trunk and branches. Fungi enter the tree through wounds in the bark and decay the heartwood.		
		6 Dwarf mistletoes: A massed dense clump of branches specially with live foliage and swellings on the tree stem or branches.		
		7 Parasites: Tress affected by parasites such as Cuscata reflexa and Loranthus		
23.	D.B.T. (Col. 22(2))	Bark thickness refers to the amount of bark around a tree from the outside surface to the <i>cambium layer</i> . Bark thickness is most often measured using a bark thickness gauge . This tool penetrates the bark until the wood interface is reached. In case, if bark thickness gauge is not available the bark is to be removed using knife upto <i>cambium layer</i> . Double bark thickness (DBT) will be measured (with 6" steel scale) towards plot centre and opposite to this at breast height, add these two readings and record to the nearest bark thickness in mm. in two digits.		
		Bark Cambium Wood		
24.	Bark Void % (Col. 23(2))	Bark void is the lack of smoothness on the top surface of the bark e.e., the gaps in the bark. Record the magnitude of such gaps as a percentage of total bark volume ocularly after observing the bole.		



Bark void % is to be measured in respect of bark thickness. Bark thickness comprises of outer and inner bark. In the picture, it appears that bark void is only less 10%.

25. 26.	Clear bole height (Col 24 (2)) Dominance (Col. 25(1))	Record the height from tree base to the first main live branch (approximately 5 cm dia and above) on the main stem in meter in two digits. Classify the sample tree in one of the following dominance classes and record the code accordingly (Illustrative figures are also given below the code). The dominance of a tree will be classified on the basis of tree crown receiving sun light from above and from sides.		
		Code	Item	Description
		1	Predominant	The trees with crown extending above the general level of crown and receiving full light from above and partly from the sides. These trees are taller than the average trees in the stand and their crowns are well developed and may be crowded on
				•
		2	Co-dominant	the sides. Trees with crown at the general level of crown canopy and receiving full light from above but little direct sunlight from the sides.
		3	Dominated	Trees that are shorter than predominant but their crown extend in to the canopy of predominant and codominant trees. They receive little

SI. No.	ltem	Description/Definitions					
		direct light from above and no sunlight from sides.					
		4 Suppressed Trees with crown entirely below the general level of crown canopy that receive no direct sun light either from above or sides.					
		5 Solitary Trees with crown that receive full light from above and all sides.					
		6 Abnormal & damaged tree					
		7 Dead Tree					
		8 Not applicable					
		1 4 2 1 3 2 2 1 4 1 5					
27.	Total number of bamboo clumps (Col. 26(3))	Record total number of bamboo clumps occurring in the sub-plot in three digits.					
28.	Total number of trees. (Col. 27(3))	Record total number of trees occurring in the sub-plot in three digits.					

Note: - The Field Form No. 3 will be filled for every Sub-plot which is laid on the ground. The diameter of trees will be measured at a height of 1.37 meters from ground level (i.e. at breast height) measuring on uphill side of the tree and will be recorded to the nearest centimeter. The axis of the callipers (i.e. the long arm of the callipers) will always be kept pointed towards centre of the plot while taking diameter of trees. If there is flare at the breast height of a tree, in that case, the diameter would be taken immediately above or below the flare whichever is nearer to breast height. In case of buttressed and large sized trees, diameter may be measured by tape or taking girth and converting it to diameter by multiplying with 7/22 or 0.318 factor.

In case there is forking of a tree below its breast height, diameter of each forked stem will be measured at breast height (above forking) and recorded separately, as if for two trees. The description how to measure diameter in different situations is given with illustrative figures (Annexure-XIII).

The diameter of bamboo clump will be measured at its base (at a height of 30 cm.) with the help of a tape.

Important Note: Seral No. 15 to 26 will be filled up only for any one of the sub-plot, which is seleted for Sample Tree Form information.



3.4 Sample Tree Form (Field Form No. 4)

The sample tree form is to be filled only when the Field Form No.3 is filled. The data of all trees having dbh 10 cm and above would be recorded from Northern sub-plot ie, sub-plot 2. All these trees will be termed as sample trees. *The dead trees and all trees less than 10 cm diameter at breast height over bark should be ignored for enumeration (dominance)*. On each sample tree, sample tree card will be nailed and data as recorded in Sample Tree Form will be filled in the columns provided in the form.

The data of sample trees will be recorded in sub-plot 2. Howwever, if there are no trees found in sub-plot 2, the information is to be collected from sub-plot 3, if not in sub-plot 3 then from sub-plot 4 and if not in sub-plot 4 then from sub-plot 1 only.

S. No.	Item	Description/Definitions					
1	Job No. (Col. 1(3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zones for record purpose.					
2	Form Code (Col. 2(2))	Two-di	git code will be f	illed in by DES	S for STF as	s '04'.	
3	Map sheet Number. (Col. 3(6))	Record	l six-digit code a	s given in Anr	nexure IV.		
4	Grid Code (Col. 4(6))	headqu	33333333	•		,	
5	Species name & tree serial no. (Col. 5 & 6(2)) (Col. 14 & 15(2))	Record local or botanical name of the species in the form. Write the serial no. of the sampled tree i.e. 01, 02, 03, etc. The species name & code of trees recorded in the sample tree form will be taken from PEF.					
6	Species code (Col. 7(4)) and (Col. 16(4))	As species codes have already been given in the PEF, the same will be taken from PEF.					
7	Dominance (Col. 8(1)) and (Col. 17(1)).	Classify the sample tree in one of the following dominance classes and record the code accordingly (Illustrative figures are also given below the code). The dominance of a tree will be classified on the basis of tree crown receiving sun light from above and from sides.					
		Code	Item		escription		
		1	Predominant	The trees wabove the goand receiving	eneral level	of crown	
i.	1						

S.	Item	Description/Definitions					
No.				and partly from the sides. These			
				and partly from the sides. These trees are taller than the average			
				trees in the stand and their			
				crowns are well developed and			
				may be crowded on the sides.			
		2	Co-dominant	Trees with crown at the general			
				level of crown canopy and			
				receiving full light from above but			
				little direct sunlight from the			
		3	Dominated	sides. Trees that are shorter than			
		3	Dominated	predominant but their crown			
				extend in to the canopy of			
				predominant and codominant			
			•	trees. They receive little direct			
				light from above and no sunlight			
			- 100	from sides.			
		4	Suppressed	Trees with crown entirely below			
				the general level of crown canopy			
				that receive no direct sun light either from above or sides.			
		5	Solitary	Trees with crown that receive full			
		J		light from above and all sides.			
		6	Abnormal &				
			damaged tree				
		7	Dead Tree				
	· ·	8	Not applicable				
			applicable	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			
				**			
			A LAND				
		é					
		*	ACT ACK	THE WAY			
			WILL ALI				
		5000	1 4 2 1 3	2 2 1 4 1 5			
	DRUOR	Danara					
8.	D.B.H.O.B. (Col. 9(3)) and		i the dia in cm. eration Form data	(DBHOB) of sample tree from Plot			
	(Col. 9(3)) and (Col. 18(3))	Litaine	nation i oilli uale	и. 			
9.	D.B.T.	Bark th	ickness refers to	o the amount of bark around a tree			
	(Col. 10(2))	from th	ne outside surfa	ace to the <i>cambium layer</i> . Bark			
	and	thickne	ss is most often	measured using a bark thickness			
	(Col. 19(2))			netrates the bark until the wood			
				n case, if bark thickness gauge is			
		not ava	allable the bark	is to be removed using knife upto			

S. No.	Item	Description/Definitions
		cambium layer. Double bark thickness (DBT) will be measured (with 6" steel scale) towards plot centre and opposite to this at breast height, add these two readings and record to the nearest bark thickness in mm. in two digits.
		Bark Cambium Wood
10.	Bark Void % (Col. 11(2)) and (Col. 20(2))	Bark void is the lack of smoothness on the top surface of the bark i.e., the gaps in the bark. Record the magnitude of such gaps as a percentage of total bark volume ocularly after observing the bole.
State of the state		Outer bark Inner bark

Bark void % is to be measured in respect of bark thickness. Bark thickness comprises of outer and inner bark. In the picture, it appears that bark void is only less 10%.

-Sapwood -Heartwood Bark Thickness

11.	Tree Height	Record height of tree to the nearest meter with
	(m)	Hypsometer (or any other height measuring instrument)
	(Col. 12(2))	rounding up to the nearest meter and record in two-digit
	and	code. In case, the fraction comes to 0.5 m it should be
	(Col. 21(2))	rounded off to the nearest even number. Height
		measurement will be taken from the base of the tree on
		up-hill side to the top of its crown. While measuring the
		height of a tree standing on slope of more than 3°,

S. No.	Item	Description/Definitions
		necessary slope correction will be applied as per the correction factor given at the back of the Hypsometer. The estimated height is to be multiplied by the correction factor and the value so obtained is to be subtracted from the estimated height to get the exact height of the tree.
12.	Clear bole height (Col 13 (2) & 22 (2))	Record the height from tree base to the first main live branch (approximately 5 cm dia and above) on the main stem in meter in two digits.
13.	Total number of sampled trees (Col. 23(2))	Record total number of sampled trees in two digits.
14	Sub- Plot No. (Col.24.(1))	Record the sub-plot number in one digit.

3.5 Bamboo Clump Analysis Form (Field Form No. 5)

The information regarding total number of bamboo clumps and their respective diameters occurring in each sub-plot has already been recorded in the Plot Enumeration Form.

In this form, data of each individual culm, occurring in certain selected clumps in each subplot is to be recorded. The clumps bearing serial Nos.1, 5, 9, 13, 17 etc. (i.e. first clump and every fourth clump thereafter) will be selected of each series (i.e. for each species occurring in the sub-plot).

For carrying out this analysis, it would first of all be determined whether a culm is green sound, green damaged, dry and dry damaged; these are then further classified as current years' culms, one to two-year-old culms and over two years old culms. In case of dry and decayed culms (both sound as well as damaged), however, the age classification is not necessary. The culms, other than the current year's and decayed culms, both green and dry, are further grouped under different diameter classes i.e. 1 cm to under 2 cm, 2 cm to under 5 cm, 5 cm to under 8 cm and 8 cm and above.

Note: - A culm is defined as a bamboo which has dbh 1 cm and above and height 2 meter m and above. Bamboos measuring less than these measurements, if occurring in the clumps (to be analysed) would be ignored from analysis. A culm can easily be assigned to the primary status of green-sound, green damaged, dry-sound, dry-damaged or decayed class by simply observing it. A damaged culm would be the one which has been lopped, grazed or browsed in such a manner that it is top broken. Further classification into current year's culms, one to two years old culms and over two years old culms would also be made on the basis of earlier field experience. The recording would initially be done following the dash dot method, under appropriate columns.

All culms occurring in the clump selected for analysis would be enumerated and each enumerated culm would be recorded by 'dot-dash' method (*dots represents counts from 1 to 4, lines 5 to 8, and diagonal lines 9 and 10*) under its appropriate class. The total number of culms found under each class would ultimately be recorded in two digits.

S. No.	Item	Description/Definitions
1	Job No. (Col. 1(3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zones for record purpose.
2	Form Code (Col. 2(2))	Two digit will be filled in by DES for BEF as code '05'.
3	Mapsheet Number. (Col. 3(6))	Record six-digit code as given in Annexure IV.
4	Grid Code (Col. 4(6))	Record six-digit code as per the list supplied by headquarters.

S. No.	Item		Description/Definitions				
5.	Species (Col. 5)	ecies name Record species name for bamboo species as given in Annex VII.				species as given in Annexure	
6.	Species (Col. 6(4		Record VII	four-digit cod	e for bamboo	species as given in Annexure	
7.	-	number mp Serial	followed subplot will be 1	by clump s numbr is 1 a 12. This will b	erial number nd clump seri pe recorded in	ample plot first, in one digit in two digits. For example, if al no is 12, the code recorded three digit code.	
8.	Clump d (cm) (Col. 8(3			the clump di centimetre in		clump from Plot Enumeration	
9.	Clumps class	size	Record	rne-digit code	e as follows:		
	(Col. 9(1))					
			Code	Item		<u>Description</u>	
			1	Small	All Clumps diameter.	less than 1 metre average	
			2	Medium	• • • • • • • • • • • • • • • • • • • •	average diameter between 1 s than 2 metre.	
			3	Large	Clumps of and over.	average diameter 2 metre m	
10 - 18	Green S Culms (Col. 10		and rec	orded accor A green sou	ding to diam and culm wo	eted clump will be enumerated eter class wise in the given uld be the one which has not n such a manner that it is top	
10.	Current (Col.10(*	The cur	rent year's g		ulms are to be further divided	
11.	plo	1<2 cm (Col. 11(2))	Record clump.	the green so	und culms of '	1< 2 cm diameter of a selected	
12.	o years (2<5 cm (Col. 12(2))	clump.			2< 5cm diameter of a selected	
13.	See (Col. 12(2)) 5<8 cm (Col. 13(2)) 8+ cm		clump.			5< 8 cm diameter of a selected	
14.	Or	8+ cm (Col. 14(2))	clump.	_		8+ cm diameter of a selected	
15.	Over two years old	1<2 cm (Col. 15(2))	Record clump.	the green so	und culms of	1< 2 cm diameter of a selected	
16.	Over t years	2<5 cm (Col.	Record clump.	the green so	und culms of	2<5 cm diameter of a selected	

S. No.	Item		Description/Definitions
		16(2))	
17.		5<8 cm (Col. 17(2))	Record the green sound culms of 5< 8 cm diameter of a selected clump.
18.		8+ cm (Col. 18(2))	Record the green sound culms of 8+ cm diameter of a selected clump.
19-27	Green D Culms (27)	amaged Col. 19-	Enumarate and record all green damaged culms in the selected clump according to diameter class. A damaged culm would be the one which has been lopped, grazed or browsed in such a manner that it is top broken
19	Current (Col.19(•	Count and record the current year's culm. The current year's green damaged culms are to be further divided into diameter classes.
20	plo	1<2 cm (Col. 20(2))	Count and record he green damaged culms of 1< 2 cm diameter of a selected clump.
21	One to two years old	2<5 cm (Col. 21(2))	Count and record the green damaged culms of 2< 5cm diameter of a selected clump.
22	e to two	5<8 cm (Col. 22(2))	Count and record the green damaged culms of 5< 8 cm diameter of a selected clump.
23	uO /	8+ cm (Col. 23(2))	Count and record the green damaged culms of 8+ cm diameter of a selected clump.
24		1<2 cm (Col. 24(2))	Count and record the green damaged culms of 1< 2 cm diameter of a selectedclump.
25	2<5 cm (Col. 25(2)) 5<8 cm (Col. 26(2)) 8+ cm (Col. 27(2)		Count and record the green damaged culms of 2< 5cm diameter of a selected clump.
26			Count and record the green damaged culms of 5< 8 cm diameter of a selected clump.
27			Count and record the green damaged culms of 8+ cm diameter of a selected clump.
28-31	Dry Sound Culms (Col.(28-31))		Count and record all dry sound culms in the selected clump. Dry culms will not be analysed by age. These will be analysed only in four diameter classes.
28	1<2 c	m (Col.	Count and record the dry sound culms of 1< 2 cm diameter of a

S. No.	Item	Description/Definitions				
1101	28(2))	sele	cted clump.			
29	2<5 cm (Col. 29(2))	Cou	Count and record the dry sound culms of 2< 5cm diameter of a selected clump.			
30	5<8 cm (Col. 30(2))		Count and record the dry sound culms of 5< 8 cm diameter of a selected clump.			
31	8+ cm (Col. 31(2))		nt and reco cted clump.	rd the dry sound culms of 8+ cm diameter of a		
32-35	Dry Damaged Culms (Col.(32- 35))	to d	ia meter cla	rd the dry damaged culms in the clump according less. Dry damaged culms will not be analysed by the analysed only in four diameter classes viz		
32	1<2 cm (Col. 32(2))	Cou		d the dry damaged culms of 1< 2 cm diameter of		
33	2<5 cm (Col. 33(2))	a se	lected.	d the dry damaged culms of 2< 5cm diameter of		
34	5<8 cm (Col. 34(2))	l l	nt and recor lected.	d the dry damaged culms of 5< 8 cm diameter of		
35	8+ cm (Col. 35(2))	sele	cted clump.	d the dry damaged culms of 8+ cm diameter of a		
36	Decayed Culms (Col.36(2)	Enumerate and record all decayed culms in the clump according to dia meter class. The number of burnt and rotten bamboos over 2 meter in length having no utility will be recorded under this category				
37	Total number of Culms (Col. 37(3))	Recod the total number of culms of each clump .				
38- 39.	Average culm height (Col. 38(3) – 39(3))	Record the average of the height of four culms felled for Bamboo Weight Data Collection Form (Field Form No.7) in decimeter. i) Upto 1 cm top diameter of the culm and recorded in Col. 38 in three-digit code. ii) Upto 2 cm top diameter of culm and recorded in Col. 39 in three-digit code.				
40.	Bamboo quality (Col. 40(1))	For determining the bamboo production capacity of site, bamboo areas will be classified into bamboo site quality classes. For this purpose, the average height measurements of tallest culms occurring in the plot will provide the data. It may be collected for the following species of bamboos. i) Dendrocalamus strictus ii) Bambusa arundinacea iii) Melocanna bambusoides				
		Co de	Quality class	Description		
		1	I	Average culm height 9 metre m or more for		

S. No.	Item	Description/Definitions			
				Dendrocalamus strictus and 14 metre m or more for Bambusa arundinacea.	
		2	II	Average culm height 6 metre m or more but less than 9 metre m for Dendrocalamus strictus and 10 metre m or more but less than 14 metre m for Bambusa arundinacea.	
		3	III	Average culm height 2 metre m or more but less than 6 metre m for Dendrocalamus strictus and 2 metre m and more but less than 10 metre m for Bambusa arundinacea.	

Note: The quality of other species of bamboo will be decided on the lines of Dendrocalamus strictus.



3.6 Bamboo Enumeration and Analysis Form (Non-Clump Forming) (Field Form No. 6):

In this form information is collected for non-clump forming bamboos occurring in the sample subplot 2 i.e. western half of the subplot 2. For the purpose of counting the culms, the subplot 2 will be dissected by taking bearing of 360° from the centre of subplot. A rope will be put on this bearing upto the point where this bearing crosses the subplot circumference in North and South direction.

All culms falling in western half of north subplot will be counted and categorised in the following classes: -

- i) Green Sound
- ii) Green Damaged
- iii) Dry Sound
- iv) Dry Damaged
- v) Decayed

These will be further classified as current year's culms, one to two years old culms, over two years old culms. In case of dry (both sound as well as damaged) and decayed culms, the age classification is not necessary.

The culm, other than the current years and decayed culm, both green and dry are further grouped under diameter at breast height classes, 1 cm to under 2 cm, 2 cm to under 5 cm, 5 cm to under 8 and 8 cm and over.

Note: -A culm is defined as a bamboo which has dbh 1 cm and over and height 2 meter and above. Bamboos measuring less than these measurement, if occurring in the sub-plot would be ignored from analysis. A culm can easily be assigned to the primary status of green-sound, green damaged, dry-sound, dry-damaged or decayed class by simply observing it. A damaged culm would be the one which has been lopped, grazed or browsed in such a manner that it is top broken. Further classification into current year's culms, one to two years old culms and over two years old culms would also be made on the basis of earlier field experience. The recording would be done following the dash dot method, under appropriate columns.

S.	Item	Description/Definitions
No.		
1	Job No. (Col. 1(3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zones for record purpose
2	Form Code (Col. 2(2))	Two-digit code will be filled in by DES for BEF (Non-clump Forming) as '06'

S. No.	Item		Description/Definitions
3	Map sheet Number. (Col. 3(6))		Record six-digit code as given in Annexure IV.
4	Grid Code (Col. 4(6))		Record six-digit code as per the list supplied by headquarters.
5.	Species (Col. 5)		Record species name as given in Annexure VII for bamboo species.
6.	Species (Col. 6(4))	Record four-digit code for bamboo species as given in Annexure VII
7-15	Green S Culms (Col. 7		Enumerate and record all green sound culms in the selected clump according to diameter class
7	Current (Col.7(3		The current year's green sound culms are to be further divided into diameter classes
8	70	1<2 cm (Col. 8(3))	Count and record the green sound culms of 1< 2 cm diameter.
9	One to two years old	2<5 cm (Col. 9(3))	Count and record the green sound culms of 2< 5cm diameter.
10	\$\frac{9}{5<8}\$ cm (Col. \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Count and record the green sound culms of 5< 8 cm diameter.
11			Count and record the green sound culms of 8+ cm diameter.
12	p	1<2 cm (Col. 12(3))	Count and record the green sound culms of 1< 2 cm diameter.
13	Over two years old	2<5 cm (Col. 13(3))	Count and record the green sound culms of 2< 5cm diameter.
14	Over tv	5<8 cm (Col. 14(3))	Count and record the green sound culms of 5< 8 cm diameter.
15		8+ cm (Col.	Count and record the green sound culms of 8+ cm diameter.

S. No.	Item		Description/Definitions
1101	15(3))		
16- 24	Green Damaged Culms (Col. 16-24)		Enumerate and record all green damaged culms according to diameter class. A damaged culm would be the one which has been lopped, grazed or browsed in such a manner that it is top broken.
16	Current (Col.16		Count and record the current year's culm. The current year's green damaged culms are not to be further divided into diameter classes
17	g	1<2 cm (Col. 17(3))	Count and record the green damaged culms of 1< 2 cm diameter.
18	One to two years old	2<5 cm (Col. 18(3))	Count and record the green damaged culms of 2< 5cm diameter.
19	One to tv	5<8 cm (Col. 19(3))	Count and record the green damaged culms of 5< 8 cm diameter.
20		8+ cm (Col. 20(3))	Count and record the green damaged culms of 8+ cm diameter.
21		1<2 cm (Col. 21(3))	Count and record the green damaged culms of 1< 2 cm diameter.
22	o years old	2<5 cm (Col. 22(3))	Count and record the green damaged culms of 2< 5cm diameter.
23	Over two	5<8 cm (Col. 23(3))	Count and record the green damaged culms of 5< 8 cm diameter.
24		8+ cm (Col. 24(3))	Count and record the green damaged culms of 8+ cm diameter.
25-	Dry Sound		Enumerate and record all dry sound culms will be according to
28	Culms (Col. (25-28))		diameter class. Dry culms will not be analysed by age. These will be analysed only in four diameter classes
25	1<2 cm (Col. 25(2))		Count and record the dry sound culms of 1< 2 cm diameter.
26	2<5 cm (Col. 26(2))		Count and record the dry sound culms of 2< 5cm diameter.

S. No.	Item	Description/Definitions
27	5<8 cm (Col. 27(2))	Count and record the dry sound culms of 5< 8 cm diameter.
28	8+ cm (Col. 282))	Count and record the dry sound culms of 8+ cm diameter.
29- 32	Dry Damaged Culms (Col.(29-32))	Enumerate and record all dry damaged culms will be according to dia meter class wise. Dry damaged culms will not be analysed by age. These will be analysed only in four diameter classes.
29	1<2 cm (Col. 29(2))	Count and record the dry damaged culms of 1< 2 cm diameter.
30	2<5 cm (Col. 30(2))	Count and record the dry damaged culms of 2< 5cm diameter.
31	5<8 cm (Col. 31(2))	Count and record the dry damaged culms of 5< 8 cm diameter.
32	8+ cm (Col. 32(2))	Count and record the dry damaged culms of 1< 2 cm diameter.
33	Decayed Culms (Col.33(3)	Record the number of burnt and rotten bamboo culms over 2 metres in length having no utility under this category
34	Average Culm Height (in dcm) (Col.34(3))	Record the average culm of the heights of four culms felled for bamboo weight data collection for each diameter class measured in decimeters in 3 digits
35	Total no. of Culms (Col.35(4)	Record the total number of culms here in four digits.
36	Sub-plot No. (Col.36(1))	Record the sub-plot number of the sample plot in one-digit code.

3.7 Bamboo Weight Form (Field Form No. 7):

For determining correlation between green and dry weights of utilizable bamboo culm length, data will be collected in this form. This form will, however, be filled up for plots, in which bamboo has actually been found in an area of 60 m radius from the centre of subplot 1. One mature bamboo culm from each culm diameter class 1 cm to 2 cm, 2 cm to under 5 cm, 5 cm to under 8 cm, and 8 cm and over, will be selected for felling from the first clump enumerated in the plot. If, however, the required type of necessary number of culms of any diameter classes is/are not available in the first clump, the shortfall will be made good from the clump next in the serial order of enumeration. But, if the necessary numbers of suitable culms are not available from any other clump of the plot, the required number of culms will be obtained from the area in the immediate vicinity of the plot.

Mature culm for this purpose would mean, the one which has put on more than two years of growth. Also the data will be collected for each bamboo species occurring in the plot separately e.g. if two species occur in the plot then data for first species will be noted as sample 1 and other species as sample 2. The selected bamboo culms of each diameter class for obtaining the weight data will be felled at a height of 25 cm. above ground level. The total length of each felled bamboo culm including stump height will be measured upto the tip and recorded in Col. 9(3), 14(3),19(3) and 24 (3) of field form. The top ends of each felled bamboo culm from a point where the diameter is just 1 cm. will then be chopped off. The length of the culm so left will be the utilizable length of the bamboo culm. The utilizable length of each culm will be measured and recorded in the appropriate column of the field form (Col. 10(3), 15(3) & 20(3) and 25 (3)) and Col. 11(3), 16(3), 21(3) and 26 (3) will be used for utilizable length upto 2 cm.

Green weight of the utilizable culms of each diameter class will thus be taken to the nearest 5 gm with the help of weighing balance and recorded in the appropriate columns (Col.12(5), 17(5), 22(5) and 27 (5) in grams.

Now, three 30 cm long pieces, obtained one each from the top, middle and bottom portions of the utilizable culm from each diameter class will be cut out and their green weight would be recorded in the appropriate columns (Col.28(4), 29(4), 30(4) and 31 (4) in grams.

The 30 cm long pieces of each diameter class would thus be tied with a bamboo strip of the same species. Before the pieces are tied in a bundle, their diameter class, species code, grid no. and the mapsheet code would be noted down on each piece for subsequent identification. The date of collection of sample is to be recorded on the bamboo sample pieces for easy reference of duration for calculation of dry weight correlation. The samples should be sent to the base camp. The base camp incharge will arrange to record the dry weight of these samples after every 30 days till 90 days or till weight of pieces remains constant.

Coding Instructions

S.	Item	Description/Definitions			
No.	Job No.	Three-digit code will be filled in by Data Entry Section (DES) of			
•	(Col. 1(3))	respective zones for record purpose			
2	Form Code	Two-digit code will be filled in by DES for BWF as '07'.			
	(Col. 2(2))				
3	Mapsheet Number.	Record six-digit code as given in Annexure IV denoting the mapsheet.			
	(Col. 3(6))	mapsheet.			
4	Grid Code	Record six digit code as per the list supplied by the			
	(Col. 4(6))	headquarters.			
5.	Species name (Col.5	Record species name as given in Annexure VII			
6.	Species code (Col. 6(4))	Record species code as given in Annexure VIII			
6.	Sample No. (Col.7(1))	Self explanatory			
7.	Green weight data (Col.8(2)-27(5))	 i) Record culm diameter at breast height, measured in cm for diameter classes 1 cm to 2 cm, 2 cm to 5 cm, 5 cm to 8 cm, and 8 cm and over in two digits against each sample in Col.8(2), 13(2) &18(2) and 23 (2). ii) Record the total length of the felled bamboo culm obtained by adding the stump height to the length measured upto the top in decimeters in three digits in Col.9(3), 14(3),19(3) and 24 (3) as the case may be. iii) Record utilizable length of felled bamboo culms measured in decimeters as follows: - a) Upto 1 cm. top diameter of the culm in three digits in Col. 10(3), 15(3), 20(3) and 25(3) as the case may be. b) Upto 2 cm. top diameter of the culm in three digits in Col. 11(3), 16(3), 21(3) and 26 (3) as the case may be. iv) Record green weight (in gm) of utilizable culm length upto 1 cm. top diameter to the nearest 5 gm in five digits in Col. 12(5), 17(5), 22(5) and 27 (5) as the case may be. 			
8.	Green weight of sub-sample for correlation with dry weight (Col. 28(4)- 314))	 i) Record green weight (in grams) of all the three 30 cm. pieces obtained from the top, middle and basal parts of utilizable culm of each species to the nearest 5 gm in 4 digits in Col. 28(4), 29(4), 30(4) and 31(4), as the case may be. ii) Record air dry weight (after 90 days or when the air dry weight of samples become constant) of the corresponding three pieces of each diameter class to the nearest 5 gms. in a separate register. 			

3.8 NTFPs (Herbs, Shrubs and Climbers) and Regeneration Form (Field Form No. 8):

In this form, data is to be collected for selected NTFP resource species (herein after mentioned as NTFPs), which have been identified by respective State Forest Departments. The list of such NTFPs species have been given to zonal offices of FSI for preparation of an album for identifying un-common NTFPs species of herbs, shrubs and climbers. The album will be prepared state-wise for ease of fieldwork.

Here data on herbs, shrubs and climbers NTFPs species as per the given state-wise list with the help of album are to be collected. Besides NTFPs species, the data on regeneration of trees is also to be collected. The data is to be collected on NTFPs species and regeneration from all the subplots. Two concentric circular microplots of size 0.6 m and 1.7 meter radius at a distance of 5.0 meter from centre of subplots 1,2,3 and 4 at 90° in east direction are to be taken for collection of data on NTFPs species (herbs, shrubs and climbers) and tree regeneration. The size of such microplot and data to be collected are given as follows:

Herbs: Circular microplot of 0.6 meter radius.

Shrubs, Climbers and Tree Regeneration: Circular microplot of 1.7 meter radius.

Data in this form is to be recorded in all the visited sub-plots irrespective of their land use class (except Barren Lands and Water Bodies).

Definitions of herbs & shrubs are given as under:

Herbs: Herb is a plant with no persistent stem (non-woody) above ground and usually not exceeding 1 meter in height.

Shrubs: A woody perennial plant differing from a perennial herb in its persistent and woody stem and less definite form a tree in its low starature and its habit of branching from the base and usually not exceeding 3 meter in height.

Note:

- 1. The same plot will be revisited after 5 years. While revisiting, it would be ensured that time and season should be same for comparability.
- 2. Care may be taken that young regeneration of the tree species is not included in the categories of herbs and shrubs.
- 3. For tree regeneration data, all trees with dbh 10 cm and above are to be ignored.
- 4. **Collar diameter**: Diameter at the position of a plant which marks the transition between stump and root. The instrument usd to measure the collar diameter is **Vernier Calliper**.
- 5. For NTFP tree species, information will be curled out from Sub-plot where 10 cm dbh or more measured and from tree regeneration portion of this field (Field Form No 8).

Coding instructions for filling up NTFPs (Herbs, Shrubs and Climbers) and tree Regeneration form are as under:

Coding Instructions

S. No.	Item	Description/Definitions			
1.	Job No. (Col. 1(3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zones for record purpose.			
2.	Form Code (Col. 2(2))	Two-digit code 08 will be filled in by DES for NTFPs (Herbs, Shrubs and Climbers) and tree Regeneration Form.			
3.	State Code (Col. 3 (2))	Record two digit state codes as given in Annexure-II.			
4.	Mapsheet Number. (Col. 4(6))	Record six-digit mapsheet code for denoting the mapsheet as given in Annexure IV.			
5.	Grid Code (Col. 5(6))	Record six-digit code as per the list supplied by headquarters.			
6.	Latitude (Col. 6(8))	Record the latitude as per the list given by headquarters.			
7.	Longitude (Col. 7(8))	Record the longitude as per the list given by headquarters.			
8.	Subplot number (Col. 8(1))	Record the number of surveyed sub-plot.			
9.	NTFPs Species name, code and habit (Col. 9 & 10(3) and 11))	Record the species name, code and its habit i.e. herbs/ shrubs/ climber, as the case may be, for each sub-plot as given in Annexure-VIII . The habit (Herbs/Shrubs/Climbers) is to be recorded in one-digit code as given below: -			
		Code Category of habit			
		1 Herbs			
		2 Shurbs 3 Climbers			
		0 Not applicable			
10.	No. of plants (Col. 12(3)- 15(3)) Record no. of plants of herbs, shrubs and climbers i following collar diameter classes: (i) 0-2 herbs in mm/shrubs & climbers in cm (Col.12(3)) (ii) 2-5 herbs in mm/shrubs & climbers in cm (Col.				
		13(3)) (ii) 5-8 herbs in mm/shrubs & climbers in cm (Col. 14(3))			
		(iii) 8 herbs in mm/shrubs & climbers in cm and above (Col. 15(3))			

S.	Item	Descri	ption/Definition	ns	
No.	_				
11.	Tree	(a) Record species name and code (Col.16 & 17(4)): in			
	regeneration		ır-digit from Ann		
	data			height (Col. 18(1)): DBH is to be	
	(Col. 16-18(1))	taken in cm for all tree plants having dbh ≥ 5 cm and			
				or these plants category of	
40	Otatus of two		generation will no		
12.	Status of tree			ach regeneration tree whether alive	
	regeneration (Col. 19(1))			cription given below:	
	(Coi. 19(1))	Code	Description		
		2	Tree (Plant) i		
		3	Tree (Plant) i		
13.	No. of plants		Not applicable		
13.	No. of plants (Col. 20(2)-	Record no. of plants in category of regeneration given below for all tree plants having dbh less than 5 cm. in two			
	22(2))	digits e	-	s having upin less than 5 cm. in two	
	22(2))	Code	Category of	Description	
		oodo	regeneration	December	
		1	Established	Plants having height more than 2	
			(Col. 20(2))	m	
		2	Un-	Plants which have height less	
			established	than 2 m and are more than one	
			(Col. 21(2))	year old (It will include whippy	
				and sub-whippy plants).	
		3	Recruit (Col.	Very small plants having 2-4	
			22(2))	leaves but are current years	
				seedling	
	· ·			Note:- In Sub-plot, If recruit are	
				found more than 100, they	
				should be restricted to 99 only.	

Note: In case if a particular sub-plot could not be laid out, the same should be mentioned in the corresponding form.

3.9 Soil and Forest Floor Carbon Form (Field Form No. 9):

In this form Soil data is to be collected from any two microplots laid out at a distance of 20 m from center of subplot 1, while forest floor data is to be recorded from three microplots at a distance of 20 m from center of subplot 1 in the direction of center of all <u>three subplots</u>. This data is to be collected from all the visited plots irrespective of their land use class (except Forest Roads, Barren Lands and Water Body).

a. Collection of Forest Floor (Litter & Humus) Data

At each microplot of size of 1 m x 1 m for forest floor (litter & humus), data of *fresh and partially undecomposed leaves and twigs* and in addition *fully decomposed leaves, twigs and branches* are collected and its weight is recorded in grams in field form. Then the forest floor (litter & humus) collected from all the three microplots will be mixed thoroughly and a sample of **50 gm** will be taken from it. These samples will be kept in separate transparent polythene bags, which will be properly labeled. A sample card bearing Sample No. and details of the subplot should be kept in the bag. If the samples are wet, then care should be taken that the label should not be spoiled. Sample card should bear the following particulars:

- 1. Mapsheet No.
- 2. Grid code
- 3. Latitude of central subplot
- 4. Longitude of central suplot
- 5. Sample No.
- 6. Date of collection

Signature	
Name & Des	signation of Crew Leader

This sample bag should be tied up with a rubberband and deposited at the zonal headquarter at regular intervals.

b. Collection of Soil Data

Soil data should also be collected from **any two plots** described above. The area from which the soil sample is to be taken should be cleared of vegetation with the help of bill hook or axe. Then with the help of crowbar/spade, dig a pit of 30cm x 30cm x 30cm in each microplot and collect the soil sample of 50 gms after mixing throroughly. In case of gravel stone, the proportion of soil and gravel should be ocularly estimated and noted in the form, which is annexed to this manual. The soil so collected from the **two microplots** shall be mixed thoroughly and a sample of 50 gm will be kept as described above.

Note: - If it is not possible to collect soil data from above two microplots due to rockiness or otherwise, then soil samples should be taken from anywhere nearby.

Coding Instructions

S.	Item	Description/Definitions			
No.		•			
1	Job No.	Three-digit code will be filled in by Data Entry Section (DES) of			
	(Col. 1(3))	respective zones for record purpose.			
2	Form Code	Two-digit code 09 will be filled in by DES for Soil & Forest Floor			
	(Col. 2(2))	Carbon Form.			
3	Mapsheet	Record six-digit code for denoting the mapsheeta as given in			
	Number.	Annexure IV.			
	(Col. 3(6))				
4	Grid Code (Col. 4(6))	Record six-digit code as per the list given by headquarters.			
5.	Latitude (Col. 5(8))	Record eight digit code as per the list supplied by headquarters.			
6.	Longitude	Record eight-digit code as per the list supplied by headquarters.			
	(Col. 6(8))	The second of th			
7.	Proportion of	Self explanatory.			
	gravel (in per				
	cent)				
	(Col. 7(3))				
8.	Proportion of	Self explanatory.			
	soil (in per				
	cent)				
	(Col. 8(3))	Colf avaloration:			
9.	Forest Floor Sample No.	Self explanatory			
	(Col. 9(4))				
10.	Soil Sample	Self explanatory			
10.	No.	Jeli explanatory			
	(Col. 10(4))				
	Note: For item nos. 9 and 10 above, first digit for zone code next two digit				
	Crew code and fourth digit for forest floor and soil as given below:				
		ode <u>Item</u>			
	1	Forest floor sample			
	2	Soil sample			
	For ovample if	zono codo is 1 grow codo is 02 and sample taken for forest floor			
	For example, if zone code is 1, crew code is 02 and sample taken for forest sample No. 1 will be coded as 1021.				
11.	Weight of	Record weight of forest floor in grams. For example, if the			
	forest floor	weight of forest floor is 5.50 kg, it should be recorded as			
	(Col. 11 to 5500 in field form.				
	13(5))				
		a. Plot 1 (Col. 11(5))			
		b. Plot 2 (Col. 12 (5))			
		c. Plot 3 (Col. 13(5))			

S. No.	Item	Description/Definitions
12.	Weight of soil	Record weight of soil in grams in 4 digits.
	(Col. 14(4))	

Note: Soil weight will be taken by processing the 'soil density sampling core' inside the earth after digging 7 cm soil from the surface in any one of the sample plots.



3.10. Stump, Dead Wood and Woody Litter Form (Field Form No. 10):

In this form, data is to be recorded for all the visited subplots irrespective of their land use class (except Barren Lands & Water Body).

The data regarding stump, dead wood and woody litter is to be collected from two concentric circular microplots of radius 2.8 meter and 1.7 meter at a distance of 5.0 meter from center of subplot at 90° in east direction.

Definition of stump, dead wood and woody litter is given as under:

Stump: The base of a tree and its roots left in the ground after felling.

Dead Wood: Woody material of tree having diameter more than 5 cm, which is not part of a live tree, lying on the ground.

Litter: Woody material of tree having diameter less than 5 cm, which is not decomposed.

Coding instructions are as under: -

SI. No.	Item	Description/Definitions		
1	Job No. (Col 1. (3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zone for record keeping.		
2	Form Code (Col 2. (2))	Two-digit code 10 will be filled in by the DES.		
3	Mapsheet Number. (Col 3.(6))	Record six-digit code for denoting a mapsheet as given in Annexure IV.		
4	Grid Code (Col 4. (6))	Record six digit code as per the list given by headquarters.		
5	Latitude (Col 5. (8))	Record eight-digit code as per the list given by headquarters.		
6	Longitude (Col 6. (8))	Record eight-digit code as per the list given by headquarters.		
7	Subplot number (Col 7. (1))	Record number of surveyed sub-plot.		
8	Stump information (Col.(8) to (11))	Record stump information of trees in 2.8 meter radious plot in as per details given below:		
9	Species code (Col 8(4)	Record the species code in four digis.		
10	Status of stump (Col. 9(1))	Record the status of stump as given below: Code Item Dead		

SI. No. Item		Description/Definitions			
		2 Alive			
11	Diameter (cm) (Col. 10(3))	Record diameter of stump in cm in three digits			
12	Height (cm) (Col.11(3))	Record height of the stump in cm. in three digits.			
13	Dead Wood Information (Col. 12 (4) to 14 (3))	In the dead wood plot (2.8 m radius), in case large dead wood tree, record the species code and dbh of such trees under Col. 12(4) & 13(3) respectively. In case dead wood lying on the ground, record the dia at the centre of the log in Col 13(3) and its length in Col 14(3). The centre dia should be >5cm. Remark 1: For standing dead trees, Species code and DBH (cm) are to be recorded in respective columns. For dead trees lying on the ground, Species code, diameter at the middle of the dead tree lying inside the plot and its length are to be recorded in respective columns. It is further clarified that in case of standing dead trees, length column should be left blank. Remark 2: Another case may also arise where major portion of the dead tree is lying outside and only top branches with diameter less than 10 cm are lying inside the plot. In such case, how the dbh (diameter at breast height) is to be measured? Clarification: Here the diameter and length of all the dead wood having diameter greater or equal to 5 cm are to be recorded in respective columns. No need to record the species code. Here it is to be noted that if there are many such dead woods available in the plot, all are to be measured and recorded and if necessary additional sheets are to be used			
14	Sub-plot	to record the information. Sub-plot number is to be recorded			
	number (Col. 15(1))				
15	Weight of woody litter (Col 16. (4))	Collect all the woody litter (only branches of less than 5 cm dia which is not decomposed) found in 1.7 m radius circular microplot and record its weight (in kg up to two decimal places, no need to put the decimal point). For example, if the weight of woody litter is 05.30 kg, it should be written as 0530 in the field form.			
16	Presence of Dead Wood (Col. 17 (1)) Have a look on the ground cover area of 1.13 ha. i.e. radius from the centre of subplot 1 and classify the plot of the following cqategories				
		Code Item Description 1 Sporadic When dead wood is found in 5-<10 % area of 1.13 ha.			

SI. No.	ltem	Description/Definitions		
		2	Medium	When dead wood is found in 10-<50 % area of 1.13 ha.
		3	Gregarious	
			Gregarious	than 50 % area of 1.13 ha.
		4	Absent	When dead wood is found less than 5
				% area of 1.13 ha. plot



3.11 Shrubs, Climbers and Herbs Biomass Form (Field Form No. 11)

In this form, data is to be collected for all the visited subplots irrespective of their land use class (except Barren Lands & Water Bodies).

Here data on Herbs, Shrubs and Climbers is to be collected from all the visited subplots. Two concentric circular microplots of size 0.6 meter and 1.7 meter radius at a distance of 5.0 m from centre of subplot at 90° in east direction are to be taken for collection of data on Shrubs, Climbers and Herbs. For Herbs, green weight (in grams) and for Shrubs & Climbers, weight of green woody part and non woody part (in kg. upto two decimal place) after uprooting all the plants will be recorded under appropriate columns. The name of the species of Shrubs, Climbers and Herbs is also to be recorded under the column species name.

The size of plot and data to be collected are given as follows:

Herbs: Circular microplot of size 0.6 meter radius.

Shrubs & Climbers: Circular microplot of size 1.7 meter radius.

Definitions of Herbs & Shrubs is given here as under:

Herbs: Herb is a plant with no persistent stem (non-woody) above ground and

usually not exceeding I meter in height.

Shrubs: A wwoody perennial plant differing from a perennial herb in its persistent and woody stem and less definite form a tree in its low starature and its habit of branching from the base and usually not exceeding 3 meter in height.

Climbers: Climbers plants are plants which grows and climb up in trees and onother tall objects. Many of them are vines whose stems are twin round trees and branches

Coding instructions for filling up Herbs, Shrubs and Climbers form are given here as under:

Coding Instructions

S.	Item	Description/Definitions
No.		
1.	Job No.	Three-digit code will be filled in by Data Entry
	(Col. 1(3))	Section (DES) of respective zones for record
		purpose.
2.	Form Code	Two-digit code i.e.11 will be filled in by DES for
	(Col. 2(2))	Herbs, Shrubs and Climbers
3.	State Code	Record two digit codes as given in Annexure-II.
	(Col. 3 (2))	

S. No.	Item	Description/Definitions
4.	Mapsheet Number. (Col. 4(6))	Record six-digit code for denoting the mapsheet. Example of coding pattern is given in Annexure IV.
5.	Grid Code (Col. 5(6))	Record six-digit code as per the list supplied by headquarters.
6.	Latitude (Col. 6(8))	Record the latitude as per the list given by headquarters.
7.	Longitude (Col. 7(8))	Record the longitude as per the list given by headquarters.
8.	Subplot number (Col. 8(1))	Record the number of surveyed sub-plot.
9. To 13	Species name, Green weight & Dry weight %age (Col. 9 & 10(4) and 11(2)) for woody part and 12 (4) and 13(2) for non woody part	For Shrubs: Record the species name, green weight and its dry weight %age for woody and non woody part in the respective columns. Record the weight in kg upto two decimal places and %age in two places.
14 to 18.	Species name, Green weight & Dry weight %age (Col. 14 & 15(4) and 16 (2)) for woody part and 17 (4) and 18(2) for non woody part	For Climbers: Record the species name, green weight and its dry weight %age for woody and non woody part in the respective columns. Record the weight in kg upto two decimal places and %age in two places.
19 to 21	Species name, Green weight & Dry weight in %age (Col. 19) ,20 (4) and 21 (2)	For Herbs: Record the species name, its green weight and dry weight %age in the respective columns
22	Remarks	Record the remark , if any.

Note: In case if a particular sub-plot could not be laid out, the same should be mentioned in the corresponding form.



ANNEXURES

ANNEXURE - I

Sloping distance of slopes corresponding to the horizontal distance

Distance in meters

Slope	1	2	3	4	5	6	7	8	9	10	20	30	40	50
degree														
0	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
1	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.01	40.01	50.01
2	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.01	10.01	20.01	30.02	40.02	50.06
3	1.00	2.00	3.00	4.01	5.01	6.01	7.01	8.01	9.01	10.01	20.03	30.04	40.06	50.07
4	1.00	2.00	3.01	4.02	5.01	6.01	7.01	8.02	9.02	10.02	20.04	30.05	40.10	50.12
5	1.00	2.01	3.01	4.02	5.02	6.02	7.03	8.03	9.03	10.04	20.08	30.11	40.15	50.19
6	1.01	2.01	3.02	4.02	5.03	6.03	7.04	8.04	9.05	10.06	20.11	30.12	40.22	50.28
7	1.01	2.02	3.02	4.04	5.04	6.05	7.05	8.06	9.07	10.08	20.15	30.23	40.30	50.38
8	1.01	2.02	3.03	4.04	5.05	6.06	7.07	8.08	9.09	10.10	20.20	30.29	40.40	50.50
9	1.01	2.02	3.04	4.05	5.06	6.07	7.09	8.10	9.11	10.12	20.25	30.37	40.50	50.62
10	1.02	2.03	3.05	4.06	5.08	6.09	7.11	8.12	9.14	10.15	20.31	30.46	40.62	50.77
11	1.02	2.04	3.06	4.07	5.09	6.11	7.13	8.15	9.17	10.19	20.37	30.56	40.75	50.94
12	1.02	2.04	3.07	4.09	5.11	6.13	7.16	8.18	9.20	10.22	20.45	30.67	40.85	51.11
13	1.03	2.05	3.08	4.10	5.13	6.16	7.18	8.21	9.24	10.26	20.52	30.79	41.05	51.31
14	1.03	2.06	3.09	4.12	5.15	6.18	7.21	8.24	9.27	10.31	20.61	30.92	41.22	51.33
15	1.04	2.07	3.11	4.14	5.18	6.21	7.25	8.28	9.32	10.35	20.71	31.06	41.44	51.77
16	1.04	2.08	3.12	4.16	5.20	6.24	7.28	8.32	9.36	10.40	20.80	31.21	41.61	52.01
17	1.05	2.09	3.14	4.18	5.23	6.27	7.32	8.36	9.41	10.46	20.91	31.37	41.82	52.28
18	1.05	2.10	3.15	4.21	5.26	6.31	7.36	8.41	9.46	10.51	21.03	31.54	42.06	52.57
19	1.06	2.12	3.17	4.23	5.29	6.35	7.40	8.46	9.52	10.58	21.15	31.73	42.30	52.88
20	1.06	2.13	319	4.26	5.32	6.38	7.45	8.51	9.58	10.64	21.28	31.92	42.56	53.20

Continuation Sheet

Distance in meters

Slope degree	60	70	80	22.36	31.62	38.73	44.72	54.77	63.24
0	60.00	70.00	80.00	22.36	31.62	38.73	44.72	54.77	63.24
1	60.01	70.01	80.02	22.36	31.62	38.74	44.73	54.78	63.25
2	60.04	70.04	80.05	22.37	31.64	38.76	44.75	54.80	63.28
3	60.08	70.10	80.10	22.39	31.66	38.78	44.78	54.84	63.33
4	60.14	70.17	80.19	22.41	31.70	38.82	44.83	54.90	63.39
5	60.23	70.27	80.30	22.44	31.74	38.88	44.89	54.98	63.48
6	60.33	70.39	80.44	22.48	31.79	38.94	44.97	55.07	63.59
7	60.45	70.53	80.60	22.53	31.86	39.02	45.05	55.18	63.71
8	60.59	70.69	80.78	22.58	31.93	39.10	45.16	55.31	63.86
9	60.74	70.87	80.99	22.64	32.01	39.21	45.27	55.45	64.02
10	60.92	71.08	81.23	22.70	32.11	39.32	45.41	55.61	64.21
11	61.12	71.31	81.50	22.78	32.21	39.45	45.56	55.79	64.42
12	61.34	71.56	81.78	22.86	32.33	39.59	45.72	55.99	64.65
13	61.57	71.83	82.10	22.95	32.35	39.74	45.89	56.20	64.90
14	61.84	72.14	82.45	23.04	32.59	39.91	46.09	56.45	65.17
15	62.12	72.47	82.82	23.15	32.74	40.09	46.30	56.70	65.47
16	62.41	72.81	83.22	23.26	32.89	40.28	46.52	56.97	65.78
17	62.74	73.19	83.65	23.38	33.06	40.49	46.76	57.27	66.12
18	63.08	73.60	84.11	23.51	33.25	40.72	47.02	57.58	66.49
19	63.36	74.03	84.61	23.65	33.44	40.96	47.30	57.92	66.88
20	63.85	74.49	85.13	23.79	33.65	41.20	47.50	58.28	67.29

Continued

Slope	1	2	3	4	5	6	7	8	9	10	20	30	40	50
degree														
21	1.07	2.14	3.21	4.28	5.36	6.43	7.50	8.57	9.64	10.71	21.42	32.13	42.84	53.55
22	1.08	2.16	3.24	4.31	5.39	6.47	7.55	8.63	9.71	10.78	21.57	32.35	43.14	53.92
23	1.09	2.17	3.26	4.35	5.43	6.52	7.60	8.69	9.78	10.86	21.73	32.59	43.45	54.31
24	1.09	2.19	3.28	4.38	5.47	6.57	7.66	8.76	9.85	10.95	21.89	32.84	43.78	54.73
25	1.10	2.21	3.31	4.41	5.52	6.62	7.72	8.83	9.93	11.03	22.70	33.10	44.13	55.16
26	1.11	2.22	3.34	4.45	5.56	6.68	7.79	8.90	10.01	11.12	22.25	33.37	44.50	55.62
27	1.12	2.24	3.37	4.49	5.61	6.73	7.86	8.98	10.10	11.22	22.45	33.67	44.89	65.11
28	1.13	2.27	3.40	4.53	5.66	6.80	7.93	9.06	10.19	11.33	22.65	33.98	45.30	56.63
29	1.14	2.29	3.43	4.57	5.72	6.86	8.00	9.15	10.29	11.43	22.87	34.30	45.73	57.16
30	1.16	2.31	3.46	4.62	5.77	6.93	8.08	9.24	10.39	11.55	23.09	34.64	46.80	57.73
31	1.17	2.33	3.50	4.67	5.83	7.00	8.17	9.33	10.50	11.66	23.33	34.99	46.66	58.32
32	1.18	2.35	3.53	4.71	5.89	7.07	8.25	9.43	10.61	11.79	23.58	35.37	47.16	58.96
33	1.19	2.38	3.58	4.77	5.96	7.15	8.35	9.54	10.73	11.92	23.85	35.77	47.69	59.61
34	1.21	2.41	3.62	4.82	6.03	7.24	8.44	9.65	10.86	12.06	24.12	36.19	48.25	60.31
35	1.22	2.44	3.66	4.88	6.10	7.32	8.55	9.77	10.99	12.21	24.41	36.62	48.83	61.03
36	1.24	2.47	3.71	4.94	6.18	7.42	8.65	9.85	11.12	12.36	24.72	37.08	49.44	61.80
37	1.25	2.50	3.76	5.01	6.26	7.51	8.76	10.02	11.27	12.52	25.04	37.56	50.08	62.60
38	1.27	2.54	3.81	5.08	6.34	7.61	8.88	10.15	11.42	12.69	25.38	38.07	50.76	63.45
39	1.29	2.57	3.86	5.15	6.43	7.72	9.01	10.29	11.58	12.87	25.74	38.16	51.47	64.34
40	1.31	2.61	3.92	5.22	6.53	7.83	9.14	10.44	11.75	13.05	26.10	39.16	52.22	65.27
41	1.32	2.65	3.97	5.30	6.62	7.95	9.27	10.60	11.82	13.25	26.50	39.75	53.00	66.25
42	1.35	2.69	4.04	5.38	6.73	8.07	9.42	10.77	12.11	13.46	26.91	40.37	53.83	67.28
43	1.37	2.73	4.10	5.47	6.84	8.20	9.57	10.94	12.30	13.67	27.34	41.02	54.69	68.36
44	1.39	2.78	4.17	5.56	6.95	8.34	9.73	11.12	12.51	13.90	27.80	41.71	55.61	69.51
45	1.41	2.83	4.24	5.66	7.07	8.49	9.90	11.31	12.73	14.14	28.28	42.43	56.57	70.71

Continuation Sheet

Slope	60	70	80	22.36	31.62	38.73	44.72	54.77	63.24
degree									
21	64.27	74.98	85.69	23.95	33.87	41.48	47.90	58.66	67.74
22	64.71	75.49	86.28	24.12	34.10	41.77	48.23	59.07	68.20
23	65.18	76.04	86.90	24.29	34.35	42.07	48.58	59.50	68.70
24	65.58	76.62	87.57	24.48	34.61	42.39	48.95	59.95	69.22
25	66.20	77.23	88.26	24.67	34.89	42.73	49.34	60.43	69.77
26	66.75	77.87	89.00	24.88	35.18	43.08	49.75	60.93	70.35
27	67.34	78.66	89.78	25.09	35.49	43.47	50.19	61.47	70.97
28	67.96	79.28	90.61	25.32	35.81	43.86	50.65	62.03	71.62
29	68.60	80.03	91.46	25.56	36.15	44.28	51.13	62.62	72.30
30	69.28	80.83	92.38	25.82	36.51	44.70	51.64	63.24	73.02
31	69.99	81.65	93.32	26.08	36.88	45.18	52.16	63.99	73.77
32	70.75	82.54	94.33	26.37	37.29	45.67	52.73	64.58	74.57
33	71.54	83.46	95.38	26.66	37.70	46.18	53.32	65.30	75.40
34	72.37	84.43	96.50	26.97	38.14	46.74	53.94	66.06	76.20
35	73.24	85.45	97.66	27.29	38.60	47.28	54.59	68.86	77.20
36	74.16	86.52	98.88	27.64	39.08	47.87	55.27	66.70	78.18
37	75.13	87.65	100.17	28.00	39.59	48.49	55.99	68.58	79.18
38	76.14	88.13	101.52	28.37	40.13	49.15	56.75	69.50	80.25
39	77.31	90.08	102.94	28.77	40.69	49.84	57.55	70.48	81.38
40	78.32	91.38	104.43	29.19	41.28	50.56	58.38	71.50	82.55
41	79.50	92.75	106.00	29.63	41.90	51.32	50.25	72.57	93.79
42	80.74	94.20	107.66	30.09	42.55	52.12	60.18	73.70	85.10
43	82.03	95.70	109.38	30.57	43.23	52.95	61.14	74.88	86.40
44	83.41	97.31	111.22	31.08	43.96	53.84	62.17	76.14	87.92
45	84.85	98.99	113.14	31.62	44.72	54.77	63.24	77.46	89.43

Continued

Slope	1	2	3	4	5	6	7	8	9	10	20	30	40	50
degree	-	_		-			_							
46	1.44	2.88	4.32	5.76	7.20	8.64	10.08	11.52	12.96	14.40	28.79	43.19	57.58	71.98
47	1.47	2.93	4.40	5.87	7.33	8.80	10.26	11.73	13.20	14.66	29.33	43.99	58.65	73.31
48	1.49	2.99	4.48	5.98	7.47	8.97	10.46	11.96	13.45	14.94	29.89	44.83	59.78	74.72
49	1.52	3.05	4.57	6.10	7.62	9.15	10.67	12.19	13.72	15.24	30.49	45.73	60.97	76.21
50	1.56	3.11	4.67	6.22	7.78	9.33	10.89	12.45	14.00	15.56	31.11	46.67	62.23	77.79
51	1.58	3.18	4.77	6.36	7.95	9.53	11.12	12.71	14.30	15.89	31.78	47.67	63.56	79.45
52	1.62	3.25	4.87	6.50	8.12	9.75	11.37	12.99	14.62	16.24	32.49	48.73	64.97	81.21
53	1.66	3.32	4.98	6.65	8.31	9.97	11.63	13.29	14.95	16.62	33.23	49.85	66.47	83.08
54	1.70	3.40	5.10	6.81	8.51	10.21	11.91	13.61	15.31	17.01	34.03	51.04	68.05	85.07
55	1.74	3.49	5.25	6.97	8.72	10.46	12.20	13.95	15.69	17.45	34.87	52.30	69.74	87.17
56	1.79	3.58	5.36	7.15	8.94	10.73	12.52	14.31	16.09	17.88	35.77	53.65	71.53	89.41
57	1.84	3.67	5.51	7.34	9.18	11.02	12.85	14.69	16.52	18.36	36.72	55.08	73.44	91.80
58	1.89	3.77	5.66	7.55	9.44	11.32	13.21	15.10	16.98	18.87	37.74	56.61	75.48	94.35
59	1.94	3.88	5.82	7.77	9.71	11.65	13.59	15.53	17.47	19.42	38.83	58.25	77.66	97.08
60	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	40.00	60.00	80.00	100.00
61	2.06	4.13	6.19	8.25	10.31	12.38	14.44	16.50	18.56	20.63	41.25	61.88	82.51	103.13
62	2.13	4.26	6.39	8.52	10.65	12.78	14.91	17.04	19.17	21.30	42.60	63.90	85.20	106.50
63	2.20	4.41	6.61	8.81	11.01	13.22	15.42	17.62	19.82	22.03	44.05	66.08	88.11	110.13
64	2.28	4.56	6.84	9.12	11.41	13.69	15.97	18.25	20.53	22.81	45.62	68.44	91.25	114.06
65	2.37	4.73	7.10	9.46	11.83	14.20	16.56	18.93	21.30	23.66	47.32	70.99	94.65	118.31
66	2.46	4.92	7.38	9.83	12.29	14.75	17.21	19.67	22.13	24.59	49.17	73.76	98.34	122.93
67	2.56	5.12	7.68	10.24	12.80	15.36	17.92	20.47	23.03	25.59	51.19	76.78	102.37	127.97
68	2.67	5.34	8.01	10.68	13.35	16.02	18.69	21.36	24.03	26.69	53.39	80.08	106.78	133.47
69	2.79	5.58	8.37	11.16	13.95	16.74	19.53	22.32	25.11	27.90	55.81	83.71	111.62	139.52
70	2.92	5.85	8.77	11.70	14.62	17.54	20.47	23.39	26.31	29.24	58.48	87.71	116.95	146.19

Continuation sheet

Slope	60	70	80	22.36	31.62	38.73	44.72	54.77	63.24
degree									
46	86.37	100.77	115.16	32.19	45.52	55.75	64.38	78.84	91.04
47	87.98	102.64	117.30	32.79	46.36	56.79	65.57	80.31	92.73
48	89.67	104.61	119.56	33.42	47.26	57.88	66.83	81.85	94.51
49	91.46	106.70	121.94	34.08	48.20	59.03	68.16	83.48	96.39
50	93.34	108.90	124.46	34.79	49.19	60.25	69.57	85.21	98.38
51	95.34	111.25	127.12	35.53	50.24	61.54	71.06	87.03	100.49
52	97.46	113.70	129.94	36.32	51.36	62.91	72.64	88.96	102.72
53	99.70	116.31	132.93	37.15	52.54	64.36	74.31	91.01	105.08
54	102.08	119.09	136.10	38.04	53.80	65.89	76.08	93.18	107.59
55	104.61	122.04	139.48	38.98	55.13	67.52	77.97	95.49	110.26
56	107.30	125.18	143.06	39.99	56.55	69.26	79.97	97.94	113.09
57	110.16	128.53	146.89	41.05	58.06	71.11	82.11	100.56	116.11
58	113.22	132.10	150.97	42.20	59.67	73.09	84.39	103.36	119.34
59	116.50	135.91	155.33	43.41	61.39	75.20	86.83	106.34	122.79
60	120.00	140.00	160.00	44.72	63.24	77.46	89.44	109.54	126.48
61	123.76	144.39	165.01	46.12	65.22	79.89	92.24	112.97	130.44
62	127.80	149.10	170.40	47.63	67.35	82.50	95.26	116.66	134.70
63	132.16	154.19	176.22	49.25	69.65	85.31	98.50	120.64	139.30
64	136.87	159.68	182.49	51.01	72.13	88.35	102.01	124.94	144.26
65	141.97	165.63	189.30	52.91	74.82	91.64	105.82	129.60	149.64
66	147.52	172.10	196.69	54.97	77.74	95.22	109.95	134.66	155.48
67	153.56	179.15	204.74	57.23	80.93	99.12	114.45	140.17	161.85
68	160.17	186.86	213.56	59.69	84.41	103.39	119.38	146.21	168.82
69	167.43	195.33	223.23	62.39	88.23	108.07	124.79	152.83	176.47
70	175.43	204.67	233.90	65.38	92.45	113.24	130.75	160.14	184.90

Code of different states and union territories in each zone

FSI Zone Code No. State/U.T. Northern Zone 01 Jammu & Kashmir (U. T.) Code - 1 02 Himachal Pradesh 03 Punjab Chandigarh (U.T.) 04 UttrakhandUttarakhand 05 06 Haryana 07 Delhi 80 Rajasthan 09 Uttar Pradesh Laddakh (U. T.) 37 Central Zone Code - 2 22 Chhattisgarh Madhya Pradesh 23 24 Gujarat Daman & Diu (U.T.) 25 26 Dadra & Nagar Haveli (U.T.) Maharashtra 27 30 Goa Southern Zone 28 Andhra Pradesh Code - 3 29 Karnataka Lakshadweep (U.T.) 31 32 Kerala 33 Tamil Nadu 34 Pondicherry (U.T.) Telangana 36 Eastern Zone 10 Bihar Code - 4 11 Sikkim Arunachal Pradesh 12 13 Nagaland 14 Manipur 15 Mizoram Tripura 16 17 Meghalaya 18 Assam West Bengal 19 Jharkhand 20 21 Odisha Andaman & Nicobar Islands 35 (UT)

Code of districts and forest divisions in each state

D1	Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
03 Srinagar 01 03 Zangali 04 Badgam 01 04 Karalpora 05 Pulwama 01 05 Bijbehare 06 Anantnag 01 06 Khanabal 07 Leh (Ladakh) 01 07 Shopian 08 Kargli 01 08 Ganderbal 09 Doda 01 09 Chitrarnar 10 Udhampur 01 10 Budgam 11 Punch 01 11 Batote 12 Rajauri 01 12 Ramban 13 Jammu 01 13 Doda 14 Kathua 01 14 Bhaderwah 15 Bandipore 01 15 Kishtwar 16 Ganderbal 01 16 Marwah 17 Kishtwar 01 17 Reasi 18 Kulaga 01 18 Rajouri 19 Ramban 01 19 Poonch 20 Reasi 01 20 Nowshena 21 Samba 01 21 Mahore 22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 26 Ram Nagar 27 Urban Forest Division 30 Basoli Forest Division 31 Samba Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 36 Lidder Forest Division	01	JAMMU & KASHMIR	01	Kupwara	01	01	Baramula
04 Badgam 01 04 Karalpora			02	Baramula	01	02	Langate
05			03	Srinagar	01	03	Zangali
06			04	Badgam	01	04	Karalpora
07			05	Pulwama	01	05	Bijbehare
08			06	Anantnag	01	06	Khanabal
10			07	Leh (Ladakh)	01	07	Shopian
10			08	Kargil	01	08	Ganderbal
11			09	Doda	01	09	Chittarnar
12			10	Udhampur	01	10	Budgam
13			11	Punch	01	11	Batote
14 Kathua 01 14 Bhaderwah 15 Bandipore 01 15 Kishtwar 16 Ganderbal 01 16 Marwah 17 Kishtwar 01 17 Reasi 18 Kulaga 01 18 Rajouri 19 Ramban 01 19 Poonch 20 Reasi 01 20 Nowshena 21 Samba 01 21 Mahore 22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 </th <th></th> <th></th> <th>12</th> <th>Rajauri</th> <th>01</th> <th>12</th> <th>Ramban</th>			12	Rajauri	01	12	Ramban
15 Bandipore 01 15 Kishtwar 16 Ganderbal 01 16 Marwah 17 Kishtwar 01 17 Reasi 18 Kulaga 01 18 Rajouri 19 Ramban 01 19 Poonch 20 Reasi 01 20 Nowshena 21 Samba 01 21 Mahore 22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division			13	Jammu	01	13	Doda
16 Ganderbal 01 16 Marwah 17 Kishtwar 01 17 Reasi 18 Kulaga 01 18 Rajouri 19 Ramban 01 19 Poonch 20 Reasi 01 20 Nowshena 21 Samba 01 21 Mahore 22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 26 Ram Nagar Urban Forest Division, Srinagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division			14	Kathua	01	14	Bhaderwah
17 Kishtwar			15	Bandipore	01	15	Kishtwar
17 Kishtwar			16	Ganderbal	01	16	Marwah
19 Ramban 01 19 Poonch 20 Reasi 01 20 Nowshena 21 Samba 01 21 Mahore 22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division 37 Sindyh Forest Division 37 Sindyh Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 38 Lidder Forest Division 39 Lidder Forest Division 30 Lidder Forest Division			17		01	17	Reasi
19 Ramban 01 19 Poonch 20 Reasi 01 20 Nowshena 21 Samba 01 21 Mahore 22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division 37 Sindyh Forest Division 37 Sindyh Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 38 Lidder Forest Division 39 Lidder Forest Division 30 Lidder Forest Division			18	Kulaga	01	18	Rajouri
20 Reasi 01 20 Nowshena 21 Samba 01 21 Mahore 22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 38 Lidder Forest Division 37 Sindyh Forest Division 38 Lidder Forest Division 38 Lidder Forest Division 38 Lidder Forest Division 39 Lidder Forest Division 30 Lidder Forest Division 30							
21 Samba 01 21 Mahore 22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division					3 (000000000000000000000000000000000000		
22 Shupiyan 01 22 Jammu 23 Kathua 24 Udhampur 25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division				900000			
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24 Udhampur 25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division				- 1 7			
25 Billawar 26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division					-		
26 Ram Nagar 27 Urban Forest Division, Srinagar 28 Tangmarg 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							
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28 Tangmarg 29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							
29 30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							
30 Basoli Forest Division 31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							- 3 - 3
31 Sambha Forest Division 32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							Basoli Forest Division
32 Anantnag Forest Division 33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							
33 Awntipora Forest Division 34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							
34 Jhellum Valley Forest Division 35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							
35 Kamraj Forest Division 36 Lidder Forest Division 37 Sindyh Forest Division							
36 Lidder Forest Division 37 Sindyh Forest Division						35	
						36	
						37	Sindyh Forest Division
	02	HIMACHAL PRADESH	01	Chamba	01	01	Bilaspur
02 Kangra 01 02 Bharmour			02	Kangra	01	02	
03 Lahul & spiti 01 03 Chamba					01		Chamba
04 Kullu 01 04 Churah							
05 Mandi 01 05 Dalhousie							
06 Hamirpur 01 06 Pagi							
07 Una 01 07 Hamirpur							
08 Bilaspur 01 08 Dharmashala							
09 Solan 01 09 Dehra							
10 Sirmaur 01 10 Nurpur				I .			
11 Shimla 01 11 Palampur							
12 Kinnaur 01 12 Kulllu							

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code		Name of Division
					13	Seraj
					14	Parvati
					15	Kotgarh
					16	Rampur
					17	Lahaul
					18	Spiti
					19	Mandi
					20	Nachan
					21	Karsog
					22	Joginder Nagar
					23	Suket
					24	Chopal
					25	Jubbal
					26	Rohru
					27	Shimla
					28	Theog
					29	Nahan
					30	Paonta
					31	Rajgarh
					32	Renuka
					33	Kunihar
					34	Nalagarh
					35	Solan
					36	Una
					37	Nichan
					38	Pooh
					39	Kinnaur
					40	Upper Ravi
					41	Kaza
					42	Sundergarh
					43	City FD Shimla
					44	Great Himalayan National Park
					45	Shimla Wildlife Division
					46	Anni Forest Division
					47	Saloni Forest Division
					48	Pangi Forest Division
					49	Chamba Wild Life
03	PUNJAB	01	Gurdaspur	04, 35% in 01	01	Amritsar
		02	Amritsar	04	02	Jalandhar
		03	Kapurthala	04	03	Gurdaspur
		04	Jalandhar	04	04	Ludhiana
		05	Hosiarpur	04, 20% in 01	05	Firozpur
		06	Nawanshahr	04	06	Patiala
		07	Rupnagar	04, 40% in 01	07	Sangrur
		80	Fatehgarh Sahib	04	80	Faridkot
	*	09	Ludhiana	04	09	Bhatinda
		10	Moga	04	10	Mansa
		11	Firozpur	04	11	Fatehgarh Sahib
		12	Muktsar	04	12	Ropar
		13	Faridkot	04	13	Hoshiarpur
		14	Bhatinda	04	14	Garhshankar
		15	Mansa	04	15	Dasuya
		16	Sangrur	04	16	Mohali
<u></u>		17	Patiala	04	17	Pathankot

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		18	Barnala	04	18	Patiyala Wild Lif Division
		19	Sahibzada Ajit Singh Nagar (Mohali)	04		
		20	Tarn Taran	04		
04	CHANDIGARH	01	Chandigarh	04	01	Chandigarh
05	UTTARAKHAND	01	Uttarkashi	01	01	Almora (East)
		02	Chamoli	01	02	Almora (West)
		03	Rudraprayag	01	03	
		04	Tehri Garhwal	01	04	Pithoragarh (South)
		05	Dehradun	01	05	Nainital
		06	Garhwal	01	06	Haldwani
		07	Pithoragarh	01	07	Haldwani (Tarai East)
		08	Bageshwar	01	08	Haldwani (Tarai Central)
		09	Almora	01	09	Haldwani (Tarai West)
		10	Champawat	01	10	Ram Nagar
		11	Nainital	01	11	Lansdowne
		12 13	Udhamsingh Nagar	04	12	Dehradun Kalsi
		13	Hardwar	04	13	
					14 15	Hardwar Tons
					16	Mussoorie
					17	Chakrata
					18	Upper Yamuna
					19	Narendra Nagar
					20	Tehri
					21	Uttarkashi
					22	Tehri Dam-I
					23	Tehri Dam-II
					24	Garhwal
					25	Badrinath
					26	Karna Prayag
					27	Ram Nagar (Tiger Reserve)
					28	Kalagarh (Tiger Reserve)
					29	Champawat
					30	Civil Soyam
					31	Rajaji NP (Haridwar)
					32	Bageshwar
					33	Gangotri National Park
					34	Govind Pashu Vihar National Park
					35	Nanda Devi National Park
					36	Corbett Tiger Reserve
					37	Upper Ganga Forest Division
					38	Rudraprayag Forest Division
					39	Kedarnath Wild Life
	*				10	Division, Gopeshwar
					40	CCF Environment, Haldwani
					41	CF Environment Dehradun
00	LADVANIA	04	Donoblado	04	42	Pithoragarh Forest Division
06	HARYANA	01 02	Panchkula	04 04	01 02	Morni Pinjore
		02	Ambala	04	02	Ambala Vamuna Nagar
		03	Yamunanagar Kurukshetra	04	03	Yamuna Nagar
		05	Kuruksnetra Kaithal	04	05	Krukshetra Kaithal
		US	rvailitai	U4	US	Naiuiai

Code	Name of State/UT		Name of District	Zone Code		Name of Division
		06	Karnal	04	06	Karnal
		07	Panipat	04	07	Sonipat
		08	Sonipat	04	08	Gurgaon
		09	Jind	04	09	Mohindergarh
		10	Fatehabad	04	10	Rohtak
		11	Sirsa	04	11	Faridabad
		12	Hisar	04	12	Bhiwani
		13	Bhiwani	04	13	Hissar
		14	Rohtak	04	14	Jind
		15	Jhajjar	04	15	Sirsa
		16	Mahendragarh	04, 15% in 07	16	Panipat
		17	Rewari	04	17	Jhajjar
		18	Gurgaon	04	18	Fatehabad
		19	Faridabad	04	19	Rewari
		20	Mewat		20	Palwal
		21	Palwal		21	Mewat
07	DELHI	01	North West	04	01	Central
		02	North	04	02	West
		03	North East	04	03	South
		04	East	04		
		05	New Delhi	04		
		06	Central	04		
		07	West	04		*
		80	South West	04		
		09	South	04		<i>y</i>
80	RAJASTHAN	01	Ganganagar	06	01	Ajmer
		02	Hanumangarh	06	02	Barmer
		03	Bikaner	06	03	Bharatpur
		04	Churu	06	04	Bikaner
		05	Jhunjhunun	06, 45% in 07	05	Chhatargarh
		06	Alwar	07	06	Bundi
		07	Bharatpur	07	07	Chittorgarh
		08	Dhaulpur	07	80	Pratapgarh
		09	Karauli	07	09	Jodhpur
		10	Sawai Madhopur	07	10	Churu
		11	Dausa	07	11	Hanunangarh
		12	Jaipur	07	12	Dungarpur
		13	Sikar	07, 48% in 06	13	Ganganagar
		14	Nagaur	06, 20% in 07	14	Jaipur (East)
		15	Jodhpur	06	15	Jaipur (West)
		16	Jaisalmer	06	16	Alwar
		17	Barmer	06	17	Jaisalmer
		18	Jalor	06	18	Jalore
		19	Sirohi	06, 48% in 07	19	Jhalawar
		20	Pali	06, 15% in 07	20	Jhunjhunu
	· ·	21	Ajmer	07	21	Kota
		22 23	Tonk	07 07	22	Nagaur Pali
		23	Bundi Bhilwara	07	23 24	
				07		Rajsamand
		25 26	Rajsamand Udaipur	07	25 26	Swai Madhopur Karauli
				07	27	Sikar
		27 28	Dungarpur Banswara	07	28	Sirohi
		28	Chittaurgarh	07	28	Banswara
<u> </u>		29	Onlitauryani	<u> </u>	29	Daliowala

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		30	Kota	07	30	Tonk
		31	Baran	07	31	Udaipur (North)
		32	Jhalawar	07	32	Udaipur (South)
		33	Pratapgarh	07	33	Bharatpur
					34	Udaipur
					35	Suratgarh
					36	Baran (West)
					37	Baran (East)
					38	Mount Abu
					39	Sariska (TP)
					40	Jaipur (Central)
					41	Dausa
					42	Dholpur
					43	Bhilwara
					44	Kumbalgarh (Pali)
					45	Udaipur Central
					46	Sajjangarh WL Sanctury
					47	Phulwari WL Sanctury
					48	Jaismand WL Sanctury
					49	Sita Mata WL Sanctury
					50	Darrah WL Sanctuary
					51	Ranthambore Tiger Reserve
				***	52	Jodhpur WL Division
					53	Jaipur Division
					54	Jaipur Forest Division
					55	Jaipur North Division
					56	Jaipur Wild Life Division
					57	Baran Division
				×	58	Keoladea National Park
					59	National Chambal Ghariyal Wildlife
						Sanctuary
					60	Kailadevi Wild Life Sanctuary
09	UTTAR PRADESH	01	Saharanpur	04	01	Meerut
		02	Muzaffarnagar	04	02	Bulandshaher
		03	Bijnor	04	03	Ghaziabad
		04	Moradabad	04	04	Gautam Budh Nagar
		05	Rampur	04	05	Muzaffar Nagar
		06	Jyotiba Phule Nagar	04	06	Saharanpur
		07	Meerut	04	07	Moradabad
		80	Baghpat	04	08	Jyotiba Phule Nagar
		09	Ghaziabad	04	09	Rampur
		10	Gautam Budh Nagar	04	10	Bijnor
		11 12	Bulandshahar Aligarh	04 04	11 12	Agra Ferozabad
		13	Hathras	04	13	Mathura
		14	Mathura	04	14	Hathras
		15	Agra	04, 15% in 07	15	Mainpuri
		16	Firozabad	04, 13 % 111 07	16	Aligarh
		17	Etah	04	17	Etah
		18	Mainpuri	04	18	Baraily
		19	Budaun	04	19	Budaun
		20	Bareilly	04	20	Shahjahanpur
		21	Pilibhit	04	21	Piliphit
		22	Shahjahanpur	04	22	Allahabad
<u> </u>			Chanjananpai			/ ilialiabaa

Code	Name of State/UT		Name of District	Zone Code		Name of Division
		23	Khiri	04	23	Kaushambi
		24	Sitapur	04	24	Fatehpur
		25	Hardoi	04	25	Pratapgarh
		26	Unnao	04	26	Gorakhpur
		27	Lucknow	04	27	Kushi Nagar
		28	Rao Bareli	04	28	Deoria
		29	Farrukhabad	04	29	Basti
		30	Kannauj	04	30	Siddharth nagar
		31	Etawah	04	31	Ajamgarh
		32	Auraiya	04	32	Mau
		33	Kanpur Dehat	04	33	Balia
		34	Kanpur Nagar	04	34	Varanasi
		35	Jalaun	07	35	Gazipur
		36	Jhansi	07	36	Jaunpur
		37	Lalitpur	07	37	Mirzapur
		38	Hamirpur	07	38	Bhadohi
		39	Mahoba	07	39	Sonbhadra
		40	Banda	07	40	Avadh
		41	Chitrakoot	07	41	Rae Bareli
		42	Fatehpur	04	42	Hardoi
		43	Pratapgarh	04	43	Unnao
		44	Kaushambi	04	44	Sitapur
		45	Allahabad	04, 40% in 07	45	Khiri North
		46	Barabanki	04	46	Khiri South
		47	Faizabad	04	47	Kanpur
		48	Ambedkar Nagar	04	48	Etawah
		49	Sultanpur	04	49	Farrukabad
		50	Bahraich	04	50	Faizabad
		51	Shrawasti	04	51	Ambedkar Nagar
		52	Balrampur	04	52	Sultanpur
		53	Gonda	04	53	Barabanki
		54	Siddarthnagar	04	54	Bahraich
		55	Basti	04	55	Gonda
		56	Sant kabir Nagar	04	56	Shravasti
		57	Mahrajganj	04	57	Jhansi
		58	Gorakpur	07	58	Urai
		59	Kushinagar	04	59	Lalitpur
		60	Deoria	04	60	Hamirpur
		61	Azamgarh	04	61	Mahoba
		62	Mau	04	62	Banda
		63	Ballia	04	63	Chitrakoot
		64	8	04	64	Shiwalik
			Jaunpur			
		65	Ghazipur	04 04 45% in 07	65	Rankoot
		66 67	Chandauli Varanasi	04, 45% in 07	66 67	Obera Kishanpur N P
				04		
	·	68	Sant Ravidas Nagar	04	68	Chambal National Park
		69	Mirzapur Sonbhadra	07 04	69	Dudhwa Tiger Reserve
		70 71		04	70 71	Sohagibarwa WL Division
		11	Kanshiram Nagar			Kanpur Dehat FD Mati
				04	72	Amethi forest division
				04	73	Kaimur WL Division Mirzapur
				07	74	CF Training Kanpur
				04	75	Amethi
				04	76	Auriya

Code	Name of State/UT	Code	Name of District	Zone Code		Name of Division
				04	77	Balrampur
					78	Chandauli
					79	Kashi WL Division
					80	Katarniaghat Wild Life Division
					81	Ramnagar Wild Life
10	BIHAR	01	Pashchim Champaran	05	01	Sasaram
		02	Purba Champaran	05	02	Kaimur(Bhabhua) Forest Division
		03	Sheohar	05	03_	Ara
		04	Sitamarhi	05	04	Patna
		05	Madhubani	05	05	Nalanda
		06	Supaul	05	06	Gaya
		07	Araria	05	07	Nawada
		08	Kishanganj	05	08	Munger
		09	Purnia	05	09	Banka
		10	Katihar	05	10	Jamui
		11	Madhepura	05	11	Muzaffarpur
		12	Saharsa	05	12	Darbhanga
		13	Darbhanga	05	13	Chhapra
		14	Muzaffarpur	05	14	Sewan
		15	Gopalganj	05	15	Purnia
		16	Siwan	05	16	Katihar
		17	Saran	05	17	Begusarai
		18	Vaishali	05	18	Saharsa
		19	Samastipur	05	19	Shahabad
		20	Begusarai	05	20	Purnia Extn.
		21	Khagaria	05	21	Lakhisarai
		22	Bhagalpur	05	Z I	Lakilisalai
		23	Banka	05, 30% in 09	23	Bettiah
		24		05, 30 % in 09	24	Bettiah-1
		25	Munger Lakhisarai	05, 20% in 09	25	Bettiah-2
	*					
		26	Sheikhpura	05	26	Central Circle Wildlife Sanctuary ,Kaimur
		27	Nalanda	05	27	Ramnagar Forest Division
		28	Patna	05	28	Aurangabad Forest Division
		29	Bhojpur	05	29	Valmiki Tiger Reserve (VTR) Ramnagar
		30	Buxar	05	30	VTR-1, Ramnagar
		31	Kaimur (Bhabua)	07, 40% in 05	31	VTR-2, Ramnagar
		32	Rohtas	05	32	VTR-1, Valmikinagar
		33	Jehanabad	05	33	Rohtas Forest Division
		34	Aurangabad	05		
		35	Gaya	05, 20% in 09		
		36	Nawada	05		
		37	Jamui	09, 20% in 05		
		38	Arwal			
11	SIKKIM	01	North	02	01	North
		02	West	02	02	West
		03	South	02	03	South
		04	East	02	04	East
12	ARUNACHALPRADESH	01	Tawang	02	01	Bomdila
		02	West Kameng	02	02	Shergaon
		03	East Kameng	02	03	Khellong

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		04	Papum Pare	02	04	Seppa
		05	Lower Subansiri	02	05	Banderdewa
		06	Upper Subansiri	02	06	Sagalee
		07	West Siang	02	07	Hapoli
		80	East Siang	02	80	Daporijo
		09	Upper Siang	02	09	Along
		10	Dibang Valley	02	10	Pasighat
		11	Lohit	03	11	Yingkiong
		12	Changlang	03	12	Debang
		13	Tirap	03	13	Lohit
		14	Kurung Kum	02	14	Namsai
		15	Anjaw	02	15	Deomali
		16	Lower Dibang Valley	02	16	Khonsa
					17	Nampong
					18	Rowing
					19	Anini
					20	Pakai WF Division
					21	Tawang
					22	Kurungkuney
					23	Anjaw
			Allen.		24	Joyrampur
					25	Namdafa Tiger Reserve
					26	Koloriong
					27	Hawai
13	NAGALAND	01	Mon	03	01	Kohima
		02	Tuensang	03	02	Peren
		03	Mokokchung	03	03	Wokha
		04	Zunheboto	03	04	Phek
		05	Wokha	03	05	Mokokchung
		06	Dimapur	03	06	Tuensang
		07	Kohima	03	07	Mon
		80	Phek	03	80	Zunheboto
		09	Kiphire	03	09	Dimapur
		10	Longleng	03	10	Longleng
		11	Peren	03		
14	MANIPUR	01	Senapati	03	01	Porompat
		02	Tamenglong	03	02	Thoubal
		03	Churachandpur	03	03	Bishnupur
		04	Bishnupur	03	04	Ukhrul
		05	Thoubal	03	05	Kangpokpi
		06	Imphal West	03	06	Cepur
		07	Imphal East	03	07	Tamenglong
		08	Ukhrul	03	80	Lamphelpat
		09	Chandel	03	09	Chandel
					10	Central division(Imphal West)
					11	Tegnopal
					12	Imphal East Forest Division
					13	Senapati
15	MIZORAM	01	Mamit	03	01	Aizwal
		02	Kolasib	03	02	Darlawn
		03	Aizwal	03	03	Champhai
		04	Champhai	03	04	Kolasib
		05	Serchhip	03	05	Kawr Thal

Code	Name of State/UT		Name of District	Zone Code		Name of Division
		06	Lunglai	03	06	Mamit
		07	Lawngtlai	03	07	Thenzawl
		80	Saiha	03	80	Lunglai
				03	09	Vanlaiphai (North)
					10	T Labung
					11	Chhimtuipui
					12	Saiha
16	TRIPURA	01	West Tripura	03	01	Agartala
		02	Soluth Tripura	03	02	Teliamura
		03	Dhalai	03	03	Ambassa
		04	North Tripura	03	04	Manu
					05	Kailasahgr
					06	Kanchanpjur
					08	Udaipur
					09	Bagafa Jatanbari
					10	Gumti Forest Division
					3330.	
					11	Sepahijala
					12	Belonia
					13	Unakoti
					14	Dharma Nagar
					15	Khowai
					16	Sabroom
					17	Trishna Wildlife
					18	Sonamura
					19	Gomuti Wild Life FD
					20	Amarpur
					21	Gandachara
17	MEGHALAYA	01	West Garo Hills	03	01	Shillong
		02	East Garo Hills	03	02	Jowar
		03	South Garo Hills	03	03	Tura
		04	West Khasi Hills	03	04	Ribhoi Forest Division
		05	Ri Bhoi	03	05	Nongstone Forest Division
		06	East Khasi Hills	03	06	East Khasi Hill
		07	Jaintia Hills	03	07	East garo Hill
				03	08	North Garo Hill
				03	09	South Garo Hill
					10	West Khasi Hills
					11	William Nagar
					12	West Garo Hills
					13	South & South West Garo Hills
					14 15	East & North Garo Hills
					16	Baghmara East & West Garo Hills
18	ASSAM	01	Kokrajhar	05	01	Kamrup (East)
.0	ACCAM	02	Dhubri	05	02	Kamrup (West)
		03	Goalpara	05	03	Kamrup (West)
		04	Bangaigaon	05	04	Goalpara
		05	Barpeta	05	05	Darrang (East)
		06	Kamrup	05	06	Darrang (West)
		07	Nalbari	05	07	Lakhimpur
		08	Darrang	05	08	Nagaon
	<u> </u>	_ 55	, = <u>y</u>			

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		09	Marigaon	05	09	Nagaon (South)
		10	Nagaon	05, 40% in 03	10	Aie-Valley
		11	Sonitpur	05	11	Kachugaon
		12	Lakhimpur	05	12	Haltugaon
		13	Dhemaji	05	13	Dhubri
		14	Tinsukia	05, 30% in 03	14	Dibrugarh
		15	Dibrugarh	05	15	Golaghat
		16	Sibsagar	05	16	Sibsagar
		17	Jorhat	05	17	Digboi
		18	Golaghat	05, 40% in 03	18	Doom Dooma
		19	Karbi Anglong	05, 45% in 03	19	Silchar
		20	North Cachar Hills	03	20	Karimganj
		21	Cachar	03	21	N.C. Hills
		22	Karimganj	03	22	K.A. (East)
		23	Hailakandi	03	23	K.A. (West)
		24	Baksa		24	Hamren
		25	Chirang		25	Bakhimpur
		26	Kamrup		26	Haltugaon
		27	Udalguri		27	West Assam
					28	Eastern Assam
					29	Dhansari
					30	Dimahaso(west)
					31	Hailakandi
					32 33	Half Long-West Tinsukhia W.L
					34	Parbotjhora
					35	Kachugaon
					36	Half Long-East
				4	37	Jorhat
					38	Chirang
					39	Sonitpur East
					40	Dhemaji
					41	Diphu East
					42	DiphuWest
					43	Mushalpur
					44	West Karbi Anglong
					45	Dimahato East FD
					46	Sonitpur West
					47	Tejpur FD
					48	Mangladai FD
					49	Baksa FD
					50	
						Manas Tiger Reserve FD
					51	Manas N.P. Division
					<mark>52</mark>	Kaziranga Wild Life
19	WEST BENGAL	01	Darjiling	01, 30% in 05	01	Bankura (North)
		02	Jalpaiguri	05	02	Bankura (South)
		03	Koch Bihar	05	03	Birbhum
		04	Uttar Dinajpur	05	04	Bardwan
		05	Dakshin Dinajpur	05	05	Cooch Bihar – Wildlife - III
		06 07	Maldah	05 05	06 07	Baikunthapur Dariiling
		07	Murshidabad Birbhum	05	08	Darjiling
		Uδ	DIIDIIUIII	l 05	Uδ	Kurseong

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		09	Barddhaman	05	09	Buxa (East)
		10	Nadia	05	10	Buxa (West)
		11	North 24 Parganas	05	11	Jalpaiguri
		12	Hugli	05	12	Dinajpur (West)
		13	Bankura	05	13	Midnapore (East)
		14	Puruliya	05	14	Midnapore (West)
		15	Medinipur	05	15	Nadia Murshidabad
		16	Haora	05	16	24 Pargana (North)
		17	Culcutta	05	17	24 Pargana(South)
		18	South 24 Parganas	05	18	Purulia
		19	Purba Medinipur	05	19	Central Forest Div.
				05	20	Bishnupur
					21	Wild life – II
					22	Kansabati soil conservation division I
					23	Kansabati soil conservation division II
			4		24	Malda
					25	Kharagpur Social Forest
					26	Jaldapara Wildlife Division
					27	
						South Kongsabati Forest Division
					28	North Kongsabati Forest Division
					29	Jhargram Forest Division
					30	Kalimpong Forest Division
					31	Panchet Forest Division
					32	Rupnarayan Forest Division
				× ·	33	Darjeeling Wildlife Division
					34	Gourumara Wild life
	*				35	Sunderban Tiger Reserve
20	JHARKHAND	01	Garhwa	09	01	Garhwa (North)
		02	Palamu	09	02	Garhwa (South)
		03	Chatra	09	03	Chhatra (North)
		04	Hazaribagh	09	04	Chhatra (South)
		05	Kodarma	09	05	Hazaribagh (East)
		06	Giridih	09	06	Hazaribagh (West)
		07	Deoghar	09	07	Koderma
		80	Godda	09	80	Giridih
		09	Sahibganj	09	09	Deoghar
		10 11	Pakaur Dumka (Santhal	09 09	10 11	Shaibganj Dumka
		11	Pargana)	09	11	Dullika
		12	Dhanbad	09	12	Dhanbad
		13	Bokaro	09	13	Ranchi (East)
	w	14	Ranchi	09	14	Ranchi (West)
		15	Lohardaga	09	15	Gumla
		16	Gumla	09	16	Khunti
		17	Pashchimi	09	17	Kolhan
			singhbhum			
		18	Purbi Singhbhum	09	18	Porahat
		19	Jamtara	09	19	Chaibasa (South)
		20	Khunti	09	20	Chaibasa (North)

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		21	Latehar		21	Dalbhum
		22	Ramgarh		22	Latehar
		23	Saraikela- Kharsawan		23	Daltanganj (North)
		24	Simdega		24	Daltanganj (South)
			Ŭ		25	Godda FD
					26	Pakur FD
					27	Lohardaga FD
					28	Bokaro
					29	Kolebira
					30	Palamu Tiger Reserve (South)
					31	Palamu Tiger Reserve (North)
						,
					32	Medninagar
					33	Sarikele
					34	Dalma Wild Life Sanctuary
			4		35	Jamtara
					36	Jamshedpur
					37	Hazaribagh Wild Life
					38	Girdih East
					39	Girdih West
					40	Chatra Wild Life Divsion
21	ODISHA	01	Bargarh	09	01	Angul
		02	Jharsuguda	09	02	Athamallik
		03	Sambalpur	09	03	Deogarh
		04	Debagarh	09	04	Baripada
		05	Sundargarh	09	05	Sambalpur
		06	Kendujhar	09	06	Khariar
		07	Mayurbhanj	09, 35% in 14	07	Jeypore
		08	Baleshwar	14, 20% in 09	08	Bolangir
		09 10	Bhadrak	14 14	09 10	Boudh
		11	Kndrapara Jagatsinghapur	14	11	Athagarh Puri
		12	Cuttack	14, 30% in 09	12	Bamra
		13	Jajapur	14, 35% in 09		Dhenkanal
		14	Dhenkanal	09	14	Parla Khemundi
		15	Anugul	09	15	Ghumsur (North)
		16	Nauagarh	12	16	Ghumsur (South)
		17	Khordha	14, 20% in 12	17	Kalahandi
		18	Puri	14	18	Phulbani
		19	Ganjam	12, 45% in 14	19	Balliguda
		20	Gajapati	12	20	Keonjhar
		21	Kandhamal	12	21	Nowrangour
	4	22	Baudh	12	22	Rayagadha
		23 24	Sonapur Balangir	09 09	23 24	Karanjia Nayagarh
		25	Nuapada	09	25	Raira Khel
		26	Kalahandi	09, 30% in 12	26	Sundargarh
		27	Rayagada	12	27	Bonai
		28	Nabarangapur	09	28	Nuaoada
		29	Koraput	12, 15% in 09	29	Khurda
		30	Malkangiri	12	30	Koraput FD

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code		Name of Division
					31	Anandapur FD
					32	Balasore WildLife FD
					33	Bargarh FD
					34	Jharsuguda FD
					35	Rai Rangpur FD
					36	Rourkela FD
					37	Satkosia Wildlife FD
					38	Katak FD
					39	Barhampur FD
					40	Mahanadi Wildlife Division
					41	Ganjam FD
					42	Sobaranpur FD
					43	Keondjhar Wild Life FD
					44	Mangrove FD , Rajnagar
					45	Malkangiri
					46	Rairangpur
					47	Simlipal Tiger Reserve
					48	Sonabera Wild Life
					49	Hirakud Wild Life FD
					50	Kalahandi North
					51	Kalahandi South
					52	Nabarangapur
					53	Chandaka Wild Life
					<mark>54</mark>	Gajapati Forest Division
					<mark>55</mark>	Kandhamal Forest Division
					<mark>56</mark>	Jajpur Forest Division
22	CHHATTISGARH	01	Koria	09	01	Kawardha
		02	Surguja	09	02	Rajnandgaon
		03	Jashpur	09	03	Khairagarh
		04	Raigarh	09	04	Durg
		05	Korba	09	05	Raipur
		06	Janjgir-Champa	09	06	Raipur East
		07	Bilaspur	09	07	Udanti
		80	Kabirdham (Kawardha)	09	80	Mahasumand
		09	Rajnandgaon	09	09	Damtari
		10	Durg	09	10	Kanker
		11	Raipur	09	11	Bhanupratappur East
		12	Mahasamund	09	12	Bhanupratappur West
		13	Dhamtari	09	13	Narayanpur
		14	Kanker	09	14	Kondagaon North
		15	Baster	09	15	Kondagaon South
		16	Dantewara	09	16	Baster
		17	Bijapur		17	Dantewada
		18	Narayanpur		18	Vijaypur
		19	Balrampur		19	Sukuma
		20	Surajpur		20	Bilaspur
		21	Mungeli		21	Janjgir (Champa)
				I	22	Korba
		22	Bemetara			
		23	Balod		23	Katghora

Code	Name of State/UT		Name of District	Physiographic Zone Code		Name of Division
		26	Kondagaon		26	Jashpur
		27	Sukma		27	Sarguja North
					28	Sarguja East
					29	Sarguja South
					30	Korea
					31	Manandragarh
					32	Marwahi
					33	Sarguja
					34	Balrampur
					35	Surajpur
					36	Guru Ghasidas National Park
					37	Bilaspur
					38	Mungeli
					39	Balod
					40	Gariyaband
					41	Balodabazar
					42	Kanger Vally NP
			4		43	Bijapur Indrawati NP
23	MADHYA PRADESH	01	Sheopur	07	01	Balaghat North
		02	Morena	07	02	Balaghat South
		03	Bhind	07	03	Betul North
		04	Gwalior	07	04	Betul South
		05	Datia	07	05	Betul West
		06	Shivpuri	07	06	Bhopal
		07	Guna	07	07	Sehore
		08	Tikamgarh	07	08	Abdullahganj
		09	Chhatarpur	07	09	Raisen
		10	Panna	07	10	Rajgarh
		11	Sagar	07	11	Vidisha
		12	Damoh	07	12	Chhindwara East
		13	Satna	07	13	Chhindwara West
		14	Rewa	07	14	Chhindwara South
		15	Umaria	09, 25% in 08	15	Gwalior
		16	Shahdol	09, 30% in 08	16	Datia
		17	Sidhi	09	17	Bhind
		18	Neemuch	07	18	Morena
		19	Mandsaur	07	19	Sheopur Kala
		20	Ratlam	07	20	Hoshangabad
		21	Ujjain 🗸	07	21	Harda
		22	Shajapur	07	22	Indore
		23	Dewas	07	23	Dhar
		24	Jhabua	07, 25% in 08	24	Jhabua
		25	Dhar	07, 15% in 08	25	Jabalpur
		26	Indore	07	26	Katani
		27	West Nimar	08, 30% in 07	27	Mandla East
			(Khandwa)			
		28	Barwani	08	28	Mandla West
		29	East Nimar	08	29	Dindori
			(Khargone)			
		30	Rajgarh	07	30	Khandwa (Nimar East)
		31	Vidisha	07	31	Burhanpur
		32	Bhopal	07	32	Khargone (Nimar Wset)
		33	Sehore	07	33	Badwaha
		34	Raisen	07	34	Badwain

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		35	Betul	08	35	Sendhwa
		36	Harda	08	36	Rewa
		37	Hoshangabad	08	37	Satna
		38	Katni	09, 20% in 07	38	Sidhi East
		39	Jabalpur	07, 40% in 08	39	Sidhi West
		40	Narsimhapur	07, 45% in 08	40	Sagar North
		41	Dindori	08	41	Sagar South
		42	Mandla	08	42	Damoh
		43	Chhindwara	08	43	Shahdol North
		44	Seoni	08	44	Shahdol South
		45	Balaghat	08	45	Umria
		46	Alirajpur		46	Seoni North
		47	Anuppur		47	Seoni South
		48	Ashoknagar		48	Narsinghpur
		49	Burhanpur		49	Shivpuri
		50	Singrauli		50	Guna
		- 50	- Ingladii		51	Chhatarpur
					52	Tikamgarh
					53	Panua North
					54	Panua South
					55	Ujjain
				`	56	Mansour
					57	Neemuch
					***************************************	Ratlam
					58	
			\		59	Sajapur
					60	Dewas
	01114547			00	61	Ashoknagar FD,Ashoknagar
	GUJARAT	01	Kachchh	06	01	Bhavnagar
0.4		02	Banas kantha	06, 40% in 13	02	Banas Kantha
24		03	Patan	13, 45% in 06	03	Rajpipla (West)
		04	Mahesana	13	04	Baria
		05	Sabar kantha	13, 35% in 07	05	Dangs (North)
		06	Gandhinagar	13	06	Dangs (South)
		07	Ahmadabad	13, 25% in 06	07	Gandhinagar
		08	Surendranagar	06	08	Jamnagar
		09	Rajkot	06	09	Junagarh
		10	Jamnagar	06	10	Kachchh (East)
		11	Porbandar	06	11	Kachchh (West)
		12	Junagadh	06	12	Vyara
		13	Amreli	06	13	Godhra
		14	Bhavnagar	06	14	Saherkantha
		15	Anand	13	15	Saharkantha (South)
		16	Kheda	13	16	Surendranagar
		17	Panch Mahals	13	17	Chotaudepur
		18	Dohad	13	18	Valsad (North)
		19	Vadodara	13, 20% in 08	19	Valsad (South)
		20	Narmada	08	20	Rajpipla East
		21	Bharuch	13	21	Porbandar
		22	Surat	13, 20% in	22	Social Forestry Division,
				11& 10% in		Ahmedabad
				08		
		23	The Dangs	11	23	Social Forestry Division, Amreli
		24	Navsari	13, 20% in 11	24	Social Forestry Division, Anand
		25	Valsad	11, 30% in 13	25	Social Forestry Division
			v aloud	11,007011110		Coolar Forcotty Division

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
						Banaskantha,Palanpur
		26	Tapi		26	Social Forestry Division Bharuch
	<u> </u>	27	Devbhumi Dwarka		27	Sub Division Bharuch
		28	Gir Somnath		28	Social Forestry Division Bhavnagar
		29	Aravali		29	Social Forestry Division Dhanod
	<u> </u>	30	Botad		30	Social Forestry
						Division, Devgadhbaria
	<u> </u>	31	Mahisagar		31	Social Forestry Division, Jamnagar
	<u> </u>	32	Morbi		32	Social Forestry Division Junagarh
	<u> </u>				33	Social Forestry Division, Bhuj
					34	Bannai Div.,Bhuj
	<u> </u>				35	Social Forestry Division, Nadiad
					36	Social Forestry Division, Mehsana
					37	Social Forestry
	<u> </u>				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Division,Narmada,Rajpipla
		 			38	Social Forestry Division, Navsari
					39	Social Forestry Division, Godhra
					40	Territorial Division, Patan
	<u> </u>		*		41	Social Forestry Division,Rajkot
					42	Rajkot Division,Rajkot
	<u> </u>				43	Social Forestry
	<u> </u>				40	Division, Sabarkantha, Himmatnagar
	<u> </u>				44	Territorial Div,Surat
	<u> </u>				45	Social Forestry Division, Surat
	<u> </u>				46	Social Forestry
	<u> </u>				40	Division,Surendranagar
	<u> </u>				47	Social Forestry Division, Vadodara
	<u> </u>				48	Social Forestry Division, Valodara Social Forestry Division, Valodara
					49	Devbhumi Dwarka
		<i>y</i>			43	FD,Khambhaliya
					50	Gir Somnath Forest Div.,Veravali
					51	Aravali FD, Modasa
	<u> </u>				52	Botad FD,Botad
					53	Mahisagar Forest Division
					55	Lunawada
					54	Morbi FD,Morbi
					55	Banni Grassland Reserve,Bhuj
25	DAMAN & DIU	01	Diu	06		
		02	Daman	13		
26	DADRA & NAGAR HAVELI	01	Dadra & Nagar Haveli	11	01	Silvasa
27	MAHARASHTRA	01	Nandurbar	08, 20% in 11	01	Thane
	- 11	02	Dhule	08, 20% in 11	02	Dahanu
		03	Jalgaon	08	03	Shahapur
		04	Buldana	08	04	Jawhar
		05	Akola	08	05	Alibagh
		06	Washim	08	06	Roha
		07	Amaravati	08	07	Nasik (East)
		08	Wardha	08	08	Nasik (West)
		09	Nagpur	08	09	Ahmadnagar
		10	Bhandara	08	10	Dhule (North)
		11	Gondiya	08	11	Dhule (West)
		12	Gadchiroli	08	12	Mewasi
		13	Chandrapur	08	13	Jalgaon
		13	опанитарит	00	13	JaiyaUII

Code	Name of State/UT		Name of District	Zone Code		Name of Division
		14	Yavatmal	08	14	Yawal
		15	Nanded	08	15	Pune
		16	Hingoli	08	16	Junnar
		17	Parbhani	08	17	Bhor
		18	Jalna	08	18	Solapur
		19	Aurangabad	08	19	Kolhapur
		20	Nashik	08, 40% in 11	20	Satara
		21	Thane	13, 40% in 11	21	Savantwadi
		22	Mumbai (Suburban)	13	22	Sangli (Subdiv)
		23	Mumbai	13	23	Chiplun (Subdiv)
		24	Raigarh	13, 40% in 11	24	Aurangabad
		25	Pune	08, 30% in 11	25	Nanded
		26	Ahmadnagar	08	26	Parbhani
		27	Bid	08	27	Beed (Sub Div)
		28	Latur	08	28	Osmanabad
		29	Osamanabad	08	29	Melghat (East)
		30	Solapur	08	30	Melghat (West)
		31	Satara	08, 30% in 11	31	Amravati
		32	Ratnagiri	13, 35% in 11	32	Budhana
		33	Sindhudurg	13, 40% in 11	33	Yavatmal
		34	Kolhapur	08, 45% in 11	34	Pusad
		35	Sangli	08, 45% in 11	35	Pandhar Kawada
		33	Sangii	00, 13% 111 11	36	Akola

					37	Nagpur
			\		38	Wardha
					39	Bhandara
					40	Gondia
					41	Chandrapur
					42	Brahampuri
					43	Gadchiroli
					44	Wadsa
					45	Allapalli
					46	Bhamragad
					47	Sironcha
					48	Chanda (Central)
					49	Kolaba
					50	Koyna
					51	Bhor
28	ANDHRA PRADESH	01	Srikakulam	14, 30% in 12	01	Adilabad
		02	Vizianagaram	14, 45% in 12	02	Bellampally
		03	Visakhapatnam	12, 25% in 14	03	Nirmal
		04	East Godavari	14, 40% in 12	04	Kaghaznagar
		05	West Godavari	14, 30% in 12	05	Mancherial
		06	Krishna	14, 35% in 12	06	JannaramWL Management
						Division
		07	Guntur	14, 35% in 12	07	Anantpur
		08	Prakasam	14, 45% in 12	08	Chittoor (East)
		09	Nellore	14, 15% in 12	09	Chittoor (West)
		10	Cuddapah	12	10	Guntur
		11	Kurnool	12, 45% in 10	11	Giddalur
		12	Anantapur	10, 20% in 12	12	Nellore
		13	Chittoor	12	13	Markapur
					14	Kurnool
					15	Cudappa
						Эччирри

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
					16	Produttur
					17	Nandyal
					18	Rajampet
					19	Atmakur
					20	Khammam
					21	Kothagudem
					22	Paloucha
					23	Bhadrachalam (North)
					24	Bhadrachalam (South)
					25	Nizamabad
					26	Kamareddy
					27	Medak
					28	Vishakapattanam
					29	Paderu
					30	Vizianagaram
					31	Srikakulam
					32	Narsipatnam
					33	Hydradad
					34	Nalgonda
					35	Mahbubnagar
			, And		36	Achampet
					37	Kakinada
					38	Eluru
					39	Vijaywada
					40	Warangal (North)
					41	Warangal (South)
					42	Karim Nagar (East)
					43	Karim Nagar (West)
				#	44	Rajamundri WLFD
					45	Ongole Social FD
		-			46	Karimnagar Social FD
	· ·				47	Srikakulam Social FD
					48	Tirupathi Wildlife Manangement Division
					49	Tirumala Tirupathi Devasthanam Forests (TDD Forests)
					50	Eluru wildlife Manangement Division
					51	Sullurupeta Wildlife Manangement Division
				+	E2	Chittoor wild life TPT FD
					52	
					53	Chittoor TTD Forest Division
					54	Koundinya Wildlife Sanctuary
					55	WLM Nagarjunsagar
29	KARNATAKA	01	Belgaum	10	01	Bangalore (Urban)
		02	Bagalkot	10	02	Bangalore (Rural)
		03	Bijapur	10	03	Bhagalkot
		04	Gulbarga	10	04	Bellary
		05	Bidar	10	05	Belgaum
		06				Bhadravati
			Raichur	10	06	
		07	Koppal	10	07	Bidar
		08	Gadag	10	08	Chickmaglur
		09	Dharwad	10	09	Chitradurga

10	Code Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
12 Bellary 10 12 Gokak 13 Chitradurga 10 13 Gubanga 14 Davanagere 10 14 Hassan 15 Shirnoga 10,25% in 11 15 Haliyal 16 Udupi 13,30% in 11 16 Honnavar 17 Chikmagalur 10,25% in 11 17 Karwar 18 Tumkur 10 18 Kolar 10,25% in 12 19 Kollegal 20 Bangalore 10 20 Koppa 21 Bangalore (Rural) 10 22 Kundapur 22 Mandya 10 22 Mandya 23 Hassan 10 22 Mandya 23 Hassan 10 24 Madikeri 25 Kodagu 11,35% in 10 25 Mysore 26 Mysore 26 Mysore 30 27 Chamarajanagar 10,40% in 12 27 Sagar 28 Shimoga 29 Sirsi 30 Yadgir 30 Tumkur 31 Yellapur 32 Virajpet 31 Yellapur 32 Virajpet 33 Hunsar 34 Davnagere 35 Koppal 36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 45 Chikkabalapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger Reserve/Kal Tiger Reserve/Kal Tiger Reserve/Kal Tiger Reserve/Kal Sanctuary 58 Bilgir Ranga Temple Tiger 8 Reserve/Baserve 56 Bhadra WL S/Tiger Reserve 56 Bh		10	Uttara Kannada		10	Dharwad
13		11	Haveri	10	11	Gadag
14		12	Bellary	10	12	Gokak
15		13	Chitradurga	10	13	Gulbanga
16		14	Davanagere	10	14	Hassan
17		15	Shimoga	10, 25% in 11	15	Haliyal
18 Tumkur		16		13, 30% in 11	16	Honnavar
18 Tumkur		17	Chikmagalur	10, 25% in 11	17	Karwar
20 Bangalore 10 20 Koppa		18			18	
21		19	Kolar	10, 25% in 12	19	Kollegal
22 Mandya 10 22 Mandya 23 Hassan 10 23 Mangalore 24 Dakshina Kannada 13, 25% in 11 24 Madikeri 25 Kodagu 11, 35% in 10 26 Raichur 27 Chamarajanagar 10, 40% in 12 27 Sagar 28 Chikkaballapura 28 Shimoga 29 Sirsi 30 Yadgir 30 Tumkur 31 Vellapur 32 Virajpet 33 Hunsar 34 Davnagere 35 Koppal 36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Hansur WL Division 46 Bannerghata National Park 47 Bandipura Tiger Rational Park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve/Kal Tiger Reserve 50 Ranibenur Blackbuck Sanctuary 52 Cauvery Wildlife Sanctuary 54 Bilgiir Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 55 Kudremukh National Park 56 Kudremukh National Park				10	20	Koppa
23		21	Bangalore (Rural)	10	21	Kundapur
24		22	Mandya		22	Mandya
25		23	II		23	
26		24	Dakshina Kannada		24	Madikeri
27 Chamarajanagar 10, 40% in 12 27 Sagar 28 Chikkaballapura 28 Shimoga 29 Ramanagara 29 Sirsi 30 Yadgir 30 Tumkur 31 Yellapur 32 Virajpet 33 Hunsar 34 Davnagere 35 Koppal 36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 411 Mysore Wco Jorision 41 Mysore Wco Jorision 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve/Kal Tiger Reserve/Kal Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 55 Bhadra WLS/Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park 56 Kudremukh National Park 56 Kudremukh National Park 56 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park 56 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park 56 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park 56 Kudremukh Natio		25	Kodagu	11, 35% in 10	25	Mysore
28 Chikkaballapura 29 Siris 3		26	Mysore		26	Raichur
29 Ramanagara 29 Sirsi		27	Chamarajanagar	10, 40% in 12	27	Sagar
30		28	Chikkaballapura		28	Shimoga
31 Yellapur Virajpet 32 Virajpet 33 Hunsar 34 Davnagere 35 Koppal 36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National Park 48 Nagarhole Tiger 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve/Wildlife Sanctuary 51 Shettifalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve			Ramanagara		29	Sirsi
32 Virajpet 33 Hunsar 34 Davnagere 35 Koppal 36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore WL Division 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National Park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 55 Bhadra WLS/Tiger Reserve		30	Yadgir			Tumkur
33 Hunsar 34 Davnagere 35 Koppal 36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National Park 48 Nagarhole Tiger 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife 54 Biligiri Ranga Temple Tiger 88 Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					31	Yellapur
34 Davnagere 35 Koppal 36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife 53 Sanctuary 54 Biligiri Ranga Temple Tiger 65 Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					32	Virajpet
35 Koppal 36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National Park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WL S/Tiger Reserve 56 Kudremukh National Park					33	Hunsar
36 Haveri 37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildliffe Sanctuary 52 Cauvery Wildliffe Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WL S/Tiger Reserve 56 Kudremukh National Park					34	Davnagere
37 Bijapur 38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National Park 48 Nagarhole Tiger 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife 54 Biligiri Ranga Temple Tiger 85 Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					35	Koppal
38 Shimoga Social FD 39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger 49 Anshi Dhandeli Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					36	Haveri
39 Shimoga WL Division 40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligir Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park				W	37	Bijapur
40 Bellary Social FD 41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger 49 Anshi Dhandeli Tiger Reserve/Kal 49 Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife 54 Biligiri Ranga Temple Tiger 55 Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					38	Shimoga Social FD
41 Mysore Social FD 42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					39	
42 Mysore WL Division 43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					40	
43 Hunsur WL Division 44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park						
44 Ramanagara Forest Division 45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					42	
45 Chikkaballapur Forest Division 46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					43	
46 Bannerghatta National Park 47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					44	Ramanagara Forest Division
47 Bandipura Tiger National park 48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park						Chikkaballapur Forest Division
48 Nagarhole Tiger Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					46	
Reserve/Nagarhole National Park 49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					47	
49 Anshi Dhandeli Tiger Reserve/Kal Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					48	
Tiger Reserve 50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park						
50 Ranibennur Blackbuck Sanctuary 51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					49	
51 Shettihalli Wildlife Sanctuary 52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife 53 Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park						
52 Cauvery Wildlife Sanctuary 53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park						
53 Male Mahadeshwara Wildlife Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park						
Sanctuary 54 Biligiri Ranga Temple Tiger Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park						
Reserve 55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					53	
55 Bhadra WLS/Tiger Reserve 56 Kudremukh National Park					54	
56 Kudremukh National Park					55	
						Kudremukh National Park
TO TO A T					57	Daroji WLS/Sloth Bear Sanctuary
58 Pushpagiri WLS						

					59	Yedgir
					~~	84 1 1 1 1 1 1 1 1 1 1 1 1
					60	Mookambika WLS
					61	Madikeri Wild life
					62	Dandeli WL
					63	Jogimatti Wildlife Sanctuary
						Rangayyadurga Four Hored
					64	Antelope Wildlife Sanctuary
					65	Gudekote Sloth Bear Sanctuary
					66	Chincholi Wildlife Sanctuary
					67	Brahmagiri Wildlife Sanctuary
					W/ W	<u> </u>
		0.4	N. d. O.	10	68	Sharavanthy WLS
30	GOA	01	North Goa	13	01	North Goa
04	LAKCHADWEED	02	South Goa	13 13	02	South Goa
31	LAKSHADWEEP	01	Lakshadweep		01	Kavarathi
32	KERALA	01 02	Kasaragod	13, 25% in 11	01 02	Thiruvananthpuram Punalur
		02	Kannur Wayanad	13 11	02	Thenmala
		03	Kozhikode	13	03	Achencoil
		05	Malappuram	13	05	Konni
		06	Palakkad	13, 20 in 11	06	Ranni
		07	Thrissur	13, 20 11 11	07	Kottayam
		08	Ernakulam	13, 30% in 11	08	Munnar
		09	Idukki	11	09	Mankulam
		10	Kottayam	13, 15% in 11	10	Kothamangalam
		11	Alappuzha	13	11	Malayattoor
		12	Pathanamthitta	13, 40% in 11	12	Trissur
		13	Kollam	13, 20% in 11	13	Chalakkudy
		14	Thiruvananthapuram	13	14	Vazhachal
					15	Palakkadu
					16	Nenmara
					17	Mannar Kkadu
					18	Nilambar (North)
					19	Nilambar (South)
					20	Kozhikkode
					21	Wayanad (North)
					22	Wayanad (South)
			<u> </u>		23	Kannur
					24	Kasargode
					25	25 Periyar (T.P) East
			/		26	Wayanad WLS
					27	Palakkad Social FD
		7			28 29	Kozhikode Social FD Kozhikode Timber Sales Division
		r			30	Marayoor Sandal Division
					31	Munnar WL Division
					32	Idukki WL Division
					33	Chimoney WL Sanctuary Division
					34	Peechi – Vazhani WL Division
					35	Field Director Project Tiger-
		ı				
						Dv.Dir.(East)
					36	Dy.Dir.(East) Field Director Project Tiger- Dy.Dir.(West)

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
						warden ldukki
					38	Field Director Project Tiger-Wildlife warden Munnar
					39	Marayar Sandal Division
					40	Munnar Territorial Division
					41	Timber Sales Division
						Thiruvanthapuram
					42	Timber Sales Division Punalur
					43	Thiruvanthapuram WL Division
					44	Perambalur TSD
					45	Silent Valley National Park
					46	Aralam WL
					47	Parambikulam
					48	Wayanad/Sulthab Bathery WL Division
					49	Periyar (T.P.) West FD
					50	Shendurney Wildlife Sanctuary
			4		51	Mathikettan Shola National Park
33	TAMILNADU	01	Tiruvallur	14	01	Chengalpattu
		02	Chennai	14	02	Vellore
		03	Kanchipuram	14	03	Tirupathur
		04	Vellore	12, 40% in 14	04	Tiruvannamalai
		05	Dharmapuri	12	05	Dharmapuri
		06	Triuvannamalai	14, 20% in 12	06	Hosur
		07	Villupuram	14	07	Harur
		80	Salem	12, 15% in 14	08	Villupuram
		09	Namakkal	12	09	Kallakurichi
		10	Erode	12	10	Salem
		11	Nilgiris	11	11	Attur
		12 13	Coimbatore	12, 15% in 11 12	12 13	Erode
		14	Dindigul Karur		14	Sathyamangalam Dindigul
		15	Triuchirappalli	14, 42% in 12 14, 40% in 12	15	Kodaikanal
		16	Perambalur	14	16	Madurai
		17	Ariyalur	14	17	Theni
		18	Cuddalore	14	18	Tiruchy
		19	Nagapattinam	14	19	Thanjavur
		20	Triuvarur	14	20	Tirunelveli
		21	Thanjavur	14	21	Kanyakumari
		22	Pudukkottai	14	22	Coimbatore
		23	Sivaganga	14	23	Nilgiris North
		24	Madurai	14, 30% in 12	24	Nilgiris South
		25	Theni	12, 35% in 11	25	Gudalur
		26	Virudunagar	14	26	Sivaganga
		27	Ramanathapuram	14	27	Udalur
		28	Thoothukkudi	14	28	Cuddalore
		29	Tirunelveli	14, 20% in 11	29	SrivilliputhurWL Division
		30	Kanniyakumari	14, 30% in 11	30	Nangapattinam(WL)
		31	Krishnagiri		31	Pallachi(WL)
		32	Tiruppur		32	Kalakad – Mundanthurai Tiger
						Reserve (KMTR) - Ambasamudram
					33	KMTR – Kalakkadu
					34	Tirunelveli Social Forestry Division
					35	Salem Social Forestry (Interface)

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
						Division
					36	Mudumalai Tiger Reserve
					37	Perambalur
					38	Pudukottai
					39	Kalakkadu Mundanthurai WL Division
					40	Ramanathapuram FD
					41	Hasnur Forest Division
					42	Thoothukodi FD
					43	Anthiyur FD (Erode Distt.)
					44	Thiruvannamalai North FD
					45	Thiruvannamalai South FD
					46	Krishnagiri FD
					47	Namakkal
					48	Viruthachalam
					49	Thirukoyilur
					50	Tiruvallur
					51	Karur Forest Division
					52	Anamalai Tiger Reserve
					53	Karur Division (to be check 51)
					54	Ariyalur
					55	Chennai
					56	Thiruvarur
					57	WL ATR Tiruppur
					58	WL, Megamalai
					59	WL, MTR Masinagudi
					60	WL, MTR Ooty
					61	WL, STR Hassanpur
					62	WL, STR Sathy
34	PONDICHERRY	01	Yanam	14	01	Pondicherry
		02	Pondicherry	14		
		03	Mahe	13		
		04	Karaikal	14		
35	A & N ISLANDS	01	Andamans	14	01	Wimberly Ganj (SA)
		02	Nicobars	14	02	Baratang(or Raratang)
		03	South Andaman		03	Rangat (MA)
					04	Mayabandar
					05	Diglipur
					06	Hutbay (LA)
					07	Campbell bay (Nicobar)
					08	North Andaman
			A 131 1		09	South Andaman Forest Division
36	TELANGANA	01	Adilabad	10	01	Adilabad
		02	Nizamabad	10	02	Bellampally
		03	Karimnagar	10	03	Nirmal
	**	04	Medak	10	04	Kaghaznagar
		05	Hyderabad	10	05	Mancherial
		06	Rangareddi	10	06	JannaramWL Management Division
		07	Mahbubnagar	10, 20% in 12	07	Anantpur
		80	Nalgonda	10, 30% in 12	80	Chittoor (East)
		09	Warangal	10	09	Chittoor (West)
		10	Khammam	10, 20% in 12	10	Guntur
					11	Giddalur

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code		Name of Division
					12	Nellore
					13	Markapur
					14	Kurnool
					15	Cudappa
					16	Produttur
					17	Nandyal
					18	Rajampet
					19	Atmakur
					20 🗸	Khammam
					21	Kothagudem
					22	Paloucha
					23	Bhadrachalam (North)
					24	Bhadrachalam (South)
					25	Nizamabad
					26	Kamareddy
					27	Medak
		-			28	Vishakapattanam
		<u> </u>			28 29	Visnakapattanam Paderu
					total and the same of the same	
					30	Vizianagaram
					31	Srikakulam
					32	Narsipatnam
					33	Hydradad
					34	Nalgonda
					35	Mahbubnagar
					36	Achampet
					37	Kakinada
					38	Eluru
					39	Vijaywada
				· ·	40	Warangal (North)
					41	Warangal (South)
					42	Karim Nagar (East)
					43	Karim Nagar (West)
					44	Rajamundri WLFD
					45	Ongole Social FD
					46	Karimnagar Social FD
					47	Srikakulam Social FD
					48	Hyderabad WL Division
					49	Amarabad Tiger Reserve
					50	Kawal Tiger Reserve
					51	Wild Life Management Warangal
					52	Siddipeth Forest Division
					53	Amangal
					54	Amrabad
					55	Armoor
					56	Asifabad
					57	Banswada
		<u> </u>			58	Bhupalpally
		<u> </u>			59	Chennur
					60	
						FG-Warangal
						FSD Amrabad
						FSD Nizamabad
						FSP Hyderabad
					65	FUO-Hyderabad

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
					66	Gadwal
					67	Ichoda
					68	IT WING
					69	Jagitial
					70	Jangoan
					71	Karimnagar
					72	Khanapur
					73	
					74	Mahabubabad
					75	Mahadevpur
						Manuguru
					77	
					78	Mulugu
					79	······································
					80	Peddapalli
					81	Sangareddy
					82	
			4		83	
					84	
					85	
					86	•
					87	Tadwai
					88	TS Academy
						Utnoor FDPT
						Venkatapuram
					91	-
						Wanaparthy
						Warangal(R)
				-	94	
					95	
					96	WLM Nagarjunasagar
					97	Yadadri Bhuvanagiri
					98	Yellandu
37	Laddakh	01	Leh (old code 07)	01	01	Leh (old code 29)
		02	Kargil (old code 08)	01		,

Annexure - IV

Code for Mapsheets

The procedure to be adopted for coding the map sheet number (six digits) will be as explained hereinafter. Every map sheet 1:50,000 is given a number on top of the sheet. The first two digits of this sheet number are the Index Number the alphabet is the 'Degree Sheet Number' and the last remaining digit is the 1:50,000 SHEET NUMBER. When recording the map sheet code the first two number of the map sheet will be written as they appear on the map. The alphabet of the Degree Sheet number will have two digits and will be coded. The codes for the alphabets are given below (there are sixteen such alphabets). The last remaining number will be recorded in two digits.

Map Sheet No.	Code
Α	01
В	02
C	03
D	04
E	05
F	06
G	07
Н	08
I	09
J	10
K	11
L	12
M	13
N	14
0	15
P	16

Example: The map sheet No. 73 I/9 will be coded as '730909' and map sheet No. 43 K/16 as '431116'

Annexure-V

Table showing slope percentage

Angle of slope in degrees	Slope percentage	Angle of slope in degrees	Slope percentage
1	002	43	093
2	003	44	096
3	005	45	100
4	007	46	103
5	009	47	107
6	010	48	111
7	012	49	115
8	014	50	119
9	016	51	123
10	018	52	127
11	019	53	133
12	021	54	138
13	023	55	142
14	025	56	148
15	027	57	154
16	029	58	160
17	030	59	166
18	032	60	173
19	034	61	180
20	036	62	188
21	038	63	196
22	040	64	205
23	042	65	214
24	044	66	225
25	046	67	236
26	049	68	248
27	051	69	261
28	053	70	275
29	055	71	290
30	058	72	308
31	060	73	327
32	062	74	349
33	065	75	373
34	067	76	401
35	070	77	433
36	072	78	470
37	075	79	514
38	078	80	567
39	081	81	631
40	084	82	712
41	087	83	814
42	090	84	951

Annexure-VI

Code of different crop composition (Forest Type)

Code	Crop composition (Forest type)	Description
00	Not Reported	
01	Fir	When Fir is predominant* species and constitutes more than 25%
02	Spruce	Where Spruce is predominant species and constitutes more than 25%
03	Fir-Spruce	Where Fir & Spruce both taken together are predominant species and constitute more than 25%
04	Blue-pine (Kail)	Where Blue pine is predominant species and constitutes more than 25%
05	Deodar	Where Deodar is predominant species and constitutes more than 25%
06	Chir-pine	Where Chir-pine is predominant species and constitutes more than 25%
07	Mixed conifers	Where no single species is predominant and all conifers taken together constitute more than 50%
08	Oak-Rhododendrom Forest	Where Oak and Rhododendrom constitute 50% of the crop with at least 15% of minimum of each
09	Up-land hardwoods	Broad leaved species constitute more than 50% in the Upper/chir zone above 1,500 m altitude
10	Teak	Where teak is predominant species and constitutes more than 50%
11	Sal	Where Sal is predominant species and constitutes more than 50%
12	Bamboo forest	Where bamboo is predominant and constitutes more than 50%
13	Mangrove	Mangrove forests
14	Garjan forest (Dipterocarpus turbinatus)	Where Garjan is predominant species and constitutes more than 50% in the top canopy
15	Garjan with Miscellaneous	Where Garjan constitutes at least 25% alongwith misc. species
16	Khasi pine	Where Khasi pine is predominant species and constitutes more than 25%
17	Khair forest	Where Khair trees are predominant and constitutes more than 25%
18	Salai forest	Where Salai is predominant species and constitute more than 25%
19	Alpine scrub	Alpine scrub
20	Teak with Misc.	Occurance of teak over 25% and less than

broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m) 31 Miscellaneous forest Forest which could not be classified in any of the above classes	Code	Crop composition (Forest type)	Description
Mixed Bamboo Bamboo predominant and not less than 25% Teak mixed with Bamboo Teak and Bamboo together constitute over 50% with each constituting at least 15% Anogeissus pendula (Kardhai) Where Anogeissus is predominant species and forms more than 25% of the crop Together they constitute at least 50% with at least 15% of each Conifers mixed with hardwoods And no single species is predominant species and no single species is predominant species with an each constitute at least 50% and no single species is predominant Both constituting over 50% with at least 15% of each Where Oak/Kharsu Oak/Ban Oak individually or together constitute more than 50% of the crop Low Land Hardwood Where low land hard woods i.e. miscellaneous broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m) Miscellaneous forest Forest which could not be classified in any of the above classes Eucalyptus Where Eucalyptus is predominant species and constitute more than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop			50%
Teak mixed with Bamboo Teak and Bamboo together constitute over 50% with each constituting at least 15% Salai with Misc. Salai 20-50% Where Anogeissus is predominant species and forms more than 25% of the crop Teak mixed with Sal Together they constitute more than 50% with at least 15% of each Where the conifers constitute at least 50% and no single species is predominant Rhair and Shisham Both constituting over 50% with at least 15% of each Where Oak/Kharsu Oak/Ban Oak individually or together constitute more than 50% of the crop Where low land hard woods i.e. miscellaneous broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m) Miscellaneous forest Where Eucalyptus is predominant species and constitute more than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop	21	Sal with Misc.	
Salai with Misc. Salai 20-50% Where Anogeissus is predominant species and forms more than 25% of the crop Teak mixed with Sal Teak mixed with Mardwoods Khair and Shisham Together they constitute more than 50% with at least 15% of each Where the conifers constitute at least 50% and no single species is predominant Both constituting over 50% with at least 15% of each Where Oak/Kharsu Oak/Ban Oak individually or together constitute more than 50% of the crop Low Land Hardwood Where low land hard woods i.e. miscellaneous broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m) Miscellaneous forest Eucalyptus Where Eucalyptus is predominant species and constitute more than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop	22	Mixed Bamboo	Bamboo predominant and not less than 25%
Anogeissus pendula (Kardhai) Where Anogeissus is predominant species and forms more than 25% of the crop	23	Teak mixed with Bamboo	
(Kardhai) 26 Teak mixed with Sal 27 Conifers mixed with hardwoods 28 Khair and Shisham 29 Oaks Cow Land Hardwood 30 Low Land Hardwood 31 Miscellaneous forest 29 Eucalyptus Eucalyptus Custop Sala Miscellaneous 30 Eucalyptus Constitute Constitute at least 50% and no single species is predominant and single species is predominant species and constitute more than 50% of the crop (At altitudes below 1,500 m) Torest which could not be classified in any of the above classes Where Eucalyptus is predominant species and constitute more than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop		Salai with Misc.	Salai 20-50%
at least 15% of each Conifers mixed with hardwoods and no single species is predominant Khair and Shisham Both constituting over 50% with at least 15% of each Where Oak/Kharsu Oak/Ban Oak individually or together constitute more than 50% of the crop Low Land Hardwood Where low land hard woods i.e. miscellaneous broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m) Miscellaneous forest Forest which could not be classified in any of the above classes Eucalyptus Where Eucalyptus is predominant species and constitute more than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop	25		
hardwoods and no single species is predominant Both constituting over 50% with at least 15% of each Oaks Where Oak/Kharsu Oak/Ban Oak individually or together constitute more than 50% of the crop Low Land Hardwood Where low land hard woods i.e. miscellaneous broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m) Miscellaneous forest Forest which could not be classified in any of the above classes Eucalyptus Where Eucalyptus is predominant species and constitute more than 50% of the crop Cocurrence of Eucalyptus over 25% and less than 50% of the crop Miscellaneous Miscellaneous 33 Bucalyptus with Occurrence of Eucalyptus over 25% and less than 50% of the crop	26	Teak mixed with Sal	
28Khair and ShishamBoth constituting over 50% with at least 15% of each29OaksWhere Oak/Kharsu Oak/Ban Oak individually or together constitute more than 50% of the crop30Low Land HardwoodWhere low land hard woods i.e. miscellaneous broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m)31Miscellaneous forestForest which could not be classified in any of the above classes32EucalyptusWhere Eucalyptus is predominant species and constitute more than 50% of the crop33Eucalyptus with MiscellaneousOccurrence of Eucalyptus over 25% and less than 50% of the crop343536373839	27		
29 Oaks Where Oak/Kharsu Oak/Ban Oak individually or together constitute more than 50% of the crop 30 Low Land Hardwood Where low land hard woods i.e. miscellaneous broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m) 31 Miscellaneous forest Forest which could not be classified in any of the above classes 32 Eucalyptus Where Eucalyptus is predominant species and constitute more than 50% of the crop 33 Eucalyptus with Miscellaneous Occurrence of Eucalyptus over 25% and less than 50% of the crop 34 35 36 37 38 39	28	Khair and Shisham	Both constituting over 50% with at least 15%
30 Low Land Hardwood broad leaved species constitute more than 50% of the crop (At altitudes below 1,500 m) 31 Miscellaneous forest Forest which could not be classified in any of the above classes 32 Eucalyptus Where Eucalyptus is predominant species and constitute more than 50% of the crop 33 Eucalyptus with Miscellaneous Occurrence of Eucalyptus over 25% and less than 50% of the crop 34 35 36 37 38 39	29	Oaks Where Oak/Kharsu Oak/Ban Oak individu or together constitute more than 50% of the constit	
31 Miscellaneous forest Forest which could not be classified in any of the above classes 32 Eucalyptus Where Eucalyptus is predominant species and constitute more than 50% of the crop 33 Eucalyptus with Miscellaneous Occurrence of Eucalyptus over 25% and less than 50% of the crop 34 35 36 37 38 39	30	Low Land Hardwood	Where low land hard woods i.e. miscellaneous broad leaved species constitute more than
constitute more than 50% of the crop 33	31	Miscellaneous forest	Forest which could not be classified in any of
Miscellaneous than 50% of the crop 34 35 36 37 38 39	32	Eucalyptus	Where Eucalyptus is predominant species and constitute more than 50% of the crop
34 35 36 37 38 39	33		
36 37 38 39	34		
37 38 39	35		
38 39	36		
39	37		
	38		
40	39		
	40		

^{*} Predominant: occurrence – at least 25% and more than any other species.

List of Tree Species & their Codes

- Note: 1. The plants which are identified upto Genera only but species is not identifiable should be put under group species of that Genera if code is provided.
 - 2. The plants which cannot be identified upto Genera or species and plants which are not given code numbers should be put under following codes:

(i)	Unidentified trees/Miscellaneous	1999
(ii)	Identified and uncoded trees	2000
(iii)	Unidentified bamboos	2100
(iv)	Unidentifed canes	2150

Species Code	Botanical Name	Common/Local Names
0001	Abies densa	Fir
0002	Abies pindrow	Silver Fir, Tosh, Raga, Rainsal, Morinda
0003	Abies smithiana (also in 0921)	Spruce, Rai
0004	Abies spectabilis	Rainsal, Morinda
0005	Acacia arabica/Acacia nilotica	Babul, Kikar, Bawar, Bawal
0006	Acacia auriculiformis	Akasmani, Sona jhuri, Australian Babul
0007	Acacia catechu/Acacia polyacantha	Khair, Velsundra, Hiwar
8000	Acacia eburnea	Udaivel, Kaludai
0009	Acacia ferruginea	Velsundra, Vel., Subsam, Babar, Soukhar, Konp
0010	Acacia horrida/Acacia latronum	Hottejali,Bher
0011	Acacia lenticularis	Safed babul, Amiar, Kanti, Gohira, Hiwar
0012	Acacia melanoxylon	
0013	Acacia pennata	
0014	Acacia planifrons	Dontari
0015	Acacia suma	Sundra, Khair, Sai Kanta, Kumtia, White acacia Sonkhairi
0016	Acacia chundra/Acacia sundra	Umbrellathorn, Sali, Odei, Solei
0017	Acacia tortilis	Mulvara, Barnei, Muglimara
0018	Acacia totahu	
0019	Acer acuminatum	Kainchli, Kamia, Kanjal, Kainjal, Kamia, Marik, Maple
0020	Acer campbellii	Kapasi
0021	Acer laevigatum	Kapasi, Putli
0022	Acer niveum	
0023	Acer oblongum	Phisphuri, Kimolo, Kirmola
0024	Acer cappadocicum/Acer pictum	
0025	Acer species.	Gadha, Papri, Manesatiru, Kainchji, Titru, Mandraputi, Maple, Kainjal

CXXXIV

Species Code	Botanical Name	Common/Local Names
0026	Acrocarpus fraxinifolius	Kuragaon, Kurangatti, Mandhani, Balanji, Kurangam
0027	Acronychia pedunculata/ Acronychia laurifolia	
0028	Actinodaphne angustifolia	
0029	Actinodaphne hookeri	Pisa
0030	Actinodaphne sikkimensis	Sissi
0031	Adenanthera pavonina	Yewagyi
0032	Adhatoda vasica	Adusoga
0033	Adina cordifolia/Haldin cordifolia	Haldu, Haladva, Hedu, Taraksopa, Maja, Kadambu, Arasintega, Bandar, Kadambi
0034	Adina oligacephala/ Khasia culnea oligocephla	Haldu, Haludchapa
0035	Neonauclea sessilifolia/Adina sessilifolia	Heludehaki
0036	Ardisia solanacea/Ardisia floribunda (also in 0096)	
0037	Aegle marmelos	Bel, Billi, Bil, Belpatra, Belphas
0038	Aesculus indica	Himalayan horse chestunut, Panger
0039	Aesculus assamica/Aesculus punduana	
0040	Agalialaia andamanica	Letuk
0041	Aglaia Agalia edulis	Manai, Letchu
0042	Aglaia Agalia maiee	Santhane viri, Vandakamin
0043	Aglaia Agalia exrtipulata/ Aglaia minutiflora	Thevathali
0044	Aglaia Agalia elaeagnoidea/ Aglaia roxburghiana	Chokhala, Punyaya, Kalbendek
0045	Ailanthus altissima	Borpat, Swinde
0046	Ailanthus excelsa	Maharukh, Ardusa, Butazod, Arru, Mahalimla, Peddamman, Dhella,Nar,Mahanim
0047	Ailanthus tryphas (Ailanthus malabarica)	
0048	Alangium salvifolium/Alangium lamarckii (also in 0409)	Lueki, Ansoroli, Ankola, Nirmulei
0049		
0050	Albizia amara	Tugle
0051	Albizia chinensis/Albizia stipulata	Bombeza,A.Avara
0052	Albizia julibrissin	Sirse
0053	Albizia lebbek	Kala Siris, Bhander, Sarsaoda, Koko, Kalbage
0054	Albizia lucidior	Maj, Sundi
0055	Albizia mollis	Sirsa, Kunera, Mandehar
0056	Albizia odoratissima	Siris, Pullivage, Nellivega, Hiharu,

Species Code	Botanical Name	Common/Local Names	
		Bilwara, Chamkoroi	
0057	Albizia procera	Safed Siris, Garkhai, Jantala, Koroi, Kinai	
0058	Albizia sp.	Hiharu, Moroi, Mog, Kako, Sundi, Pujala,Siris	
0059	Michelia cathcartii/ Alcimandra catheartii		
0060	Alnus nepalensis	Utis	
0061	Alnus nitida	Kunis	
0062	Alnus sp.	Utis, Kunis	
0063	Alphonsea ventricosa	Paknola, Nagakola	
0064	Alphonsea zeylanica		
0065	Alpinia galanga	Duperasme, Greater Galngal	
0066	Alseodaphne semecarpifolia	Mase, Mashe, Phudgus, Melheve	
0067	Alseodaphne sp.	Qwdenii	
0068	Alstonia scholaris	Chatidu, Chatiwan, Satwin, Chatim, Pala, Chatuin, Chhatyal, Chaitan, Cheeni, Pale, Satiama	
0069	Altingia excelsa	Jutali	
0070	Aglaia jainii/ Amoora canarana	Hottenola	
0071	Amoora obleona		
0072	Amoora sp.	Rath, Bordardime	
0073	Aglaia spectobilis/Amoora wallichii/Aglaia hiernii	Lali, Lakhini, Amari	
0074	Anacardium occidentale	Kaju,Gar,Cashu	
0075	Anacolosa densiflora	Maiadi, Kalamanikkam, Moradi, Malambara	
0076	Andromeda elliptica	Angesi	
0077	Anisoptera scaphula		
0078	Anneslea fragrans		
0079	Annona squamosa	Seethapal,Setha	
0080	Anogeissus acuminata	Phasi	
0081	Anogeissus latifolia	Dhauda, Dhaura, Bakli, Tirman, Vekkali, Dhanda, Damado	
0082	Anogeissus pendula	Dhauk,Kardai	
0083	Anthocephalus chinensis/ Anthocephalus cadamba	Kadamb, Attutek, Kodavara, Kadam, Vellaikadamby	
0084	Antiaris toxicaria	Arunjellia, Marauri, Junglia, Lakuch, Aranji	
0085	Antidesma bunius	-	
0086	Antidesma acidum/Antidesma diandrum	Halimajjige	
0087	Antidesma menasu	Naikuttimari	
0088	Aphanamixis polystachya/ Amoora rohituka(also in 0089)		

Species Code	Botanical Name	Common/Local Names
0089	Aphnamixis polystachya (also in 0088)	Karagil
0090	Codiocarpus andamanicum/ Apodytes andamanica	
0091	Apodytes dimidiata/Apodytes beddomei	
0092	Aporosa acuminate	Nirvetti
0093	Aporosa lindleyana	Chella, Sali, Vati
0094	Aporosa octandra/Aporosa roxburghii	Carokht, Chapnole
0095	Aguilaria agallocha	Agar, Diang
0096	Ardisia floribunda(also in 0036)	
0097	Areca catechu	Adike, Supari
0098	Areca triandra	Jangli supari
0099	Arenga wightii	Dada salai
0100	Artabotrys hexapetalus/Artabotrys odoratissimus	Kathalichapa
0101	Artocarpus chama/Artocarpus chaplasha	Chemal, Champ, Sam, Tongpeing
0102	Artocarpus gomezianeus	Kala lakuch
0103	Artocarpus integrifolia/Artocarpus heterophyllus	Plavu/Phannan, Kathal, Jack fruit, Fanas, Alsu
0104	Artocarpus hirsuta	Aini, Ayani, Patphanas, Ramphanas
0105	Artocarpus lacucha	Lakooch, Thellipilavu, Bohat, Dowachali, Pulinchekke, Watamb
0106	Thamnocalamus spathiflorus	Ringal
0107	Arytera littoralis	3
0108	Taraktogenos macrocarpa/ Asteriastigma macrocarpa	
0109	Atalantia monophylla	Kadunimbe
0110	Atalantia racemosa	Kod-Kanchi
0111	Atalantia spinosa	
0112	Averrhoa carambola	
0113	Avicennia officinalis	Thame
0114	Azadirachta indica	Neem, Nibbaro, Nimdo, Vepa maram
0115	Acacia mearnsii	Wattel, Sagar
0116	Acacia sp.	Oda, Odal, Ouli, Ramkati babul
0117	Aconitum ferox	Cas, Cas, Can, Raman Sasar
0118	Acontium bisma/Acontium palmatum	
0119	Acontium sp.	
0120	Allium wallichii	
0121	Avicennia marina	Kala Bain
0122	Acacia mangium	Tala Balli
0123	Agrostistachys longifolia	
0123	Avicennia alba	Piara Bain
0124	איוטפוווום מוטמ	i iaia Daiii

Species Code	Botanical Name	Common/Local Names
0125	Baccaurea courtallensis	
0126	Baccaurea sapida	Pauli, Khataphal
0127	Bagenlia serrata	,,,,
0128	Balanites aegyptiaca	Hingota
0129	Balanocarpus litelis	Kharkong
0130	Balsamodendron caudata	Kondamavu, Kilve, Nilve, Kondamamidi
0131	Balsamodendron mukul	Gugal
0132	Baliospermum micranthum	o digdii
0133	Barringtonia acutangula	Pani kusum, Hanjala, Hijal, Sumudra or Datta phal
0134	Barringtonia sp.	Hijal, Nivar
0135	Bassia butyracea	Chewri
0136	Bassia malabarica	Yanachi
0137	Bauhinia lawii	Basavanapada
0138	Bauhinia malabarica	Amta, Arampuli, Amli, Kanchilwalla
0139	Bauhinia purpurea	Kachna, Chameli, Pasau
0140	Bauhinia racemosa	Apta, Asotri, Asintro, Basuvanapada ari
0141	Bauhinia variegata	Sahra, Kachnar, Kachan
0142	Bauhinia sp.	Kachanar, Papri, Jhingora, Kuiral, Guayal, Kanol, Kawaral, Kanadian, Knola, Semal
0143	Bauhinia vahlii	Basavanapada balli,Sayari
0144	Beilschmiedia assamica/ brandissi	Amsoi, Laluk, Bangolokai
0145	Beilschmiedia roxburghiana	Katti
0146	Beilschmiedia sikkimensis	Tarsing
0147	Balanites aegyptiaca	
0148	Benthamidia capitata	Bamora, Tankoi
0149	Mahonia napaulensis/Berberis nepalensis	Chutra, Kesari,Chotra
0150	Berberis angulosa	
0151	Berrya ammonilla	
0152	Betiaspermum meirantha	
0153	Betula alnoides	Birch, Chambar, Payyan, Kathboj
0154	Betula cylindrostachys	Saur
0155	Betula utilis	Bhojpatra, Birch
0156	Bischofia javanica	Kaen, Pansemal, Nira, Jrium, Thirippa, Theejia, Charakali, Nedi,Kanjal
0157	Boehmeria sp.	Genthi, Bora, Kharga, Biomat, Bimoe
0158	Bombax ceiba/Salmalia malabarica	Semal, Sawar, Semer, Simul, Shimola, Elavo, Buruga
0159	Borassus flabellifer	Tar/Tad, Palm
0160	Boswellia serrata	Salai, Salar, Gugal, Salasi, Anduk,Guggar
0161	Bouca burmica	deleted
0162	Brassaiopsis mitis	Chuletro or phuta, Chinday (Sikkim)

Species Code	Botanical Name	Common/Local Names
0163	Brassaiopsis speciosa	
0164	Bridelia verrucosa	Gaya
0165	Bridelia retusa	Kasai, Kag, Khaja, Asan, Asana, Ashal, Mukkayini, Mulluvenga, Kuhir, Kutgi, Gowigi, Mullumaddi, Katak
0166	Bridelia sonemess Bridelia	Mulla honne
	stipularis/scanders/scandens	
0167	Broxgentia wallichi	Niruateberu, Chkrani, Beru, Nirssgni
0168	Bruguiera sp.	Khair, Lakir
0169	Buchanania angustifolia/ axillaris	Keradi
0170	Buchanania lanzan/latifolia	Achar, Chironji, Char, Muria, Phathbhilawa, Pista, Pial, Charolia, Mora, Mungapira, Chera
0171	Buddleja sp.	Shimsenpat
0172	Bursera serrata(also in 0963)	Bursera, Levendar
0173	Butea monosperma/Butea frondosa	Palas, Kakhar, Khakhara, Palasin, Samatha, Dhak, Sumortha
0174		Papri,Kanghi
0175	Buxus wallichiana/ Buxus sempervirens	Papri, Chikri, Kangi, Boxwood
0176	Bergeria ciliata	
0177	Madhuca longifolia/Bassia longifolia	
0178	Bassia latifolia/Madhuca latifolia (also in 0759)	
0179	Bruguiera cylindrica	(mangrove spp)
0180	Bruguiera gymnorrhiza	Kankra (mangrove spp)
0181	Beilschmiedia wightii	
0182	Bridelia horrid/scleroeyrum pentadrum	
0183	Broussonetia papyrifera	
0184	Bridelia montana	
0185	Baliospermum mantanum	
0186	Caesalpinia bonduc	Gijjaga, Garige,Kachka
0187	Caesalpinia coriaria	Divi-Divi,Sumkaffi
0188	Caesalpinia pulcherrima(also in 0511)	Krishna-chura
0189	Callicarpa arborea	Bahmala, Bahari, Kumbhar (Korta bowl), Gobarhata Maksi
0190	Callicarpa lanata	Tawadatti
0191	Callicarpa longifolia	
0192	Callicarpa macrophylla	Fulvijhe,Daia
0193	Calophyllum polyanthus/ Calophyllum	Kattapinna
	elatum	
0194	Calophyllum inophyllum	Poon, Undi
0195	Calophyllum polyanthum	Kurta

Species Code	Botanical Name	Common/Local Names
0196	Calophyllum soulattri/ Calophyllum spectabile	Poon
0197	Calophyllum tetrapterum	Trai, Bobbi
0198	Calophyllum apetalum/ Calophyllum wightianum	Kalpoone, Irai
0199	Camellia sinensis	Tea
0200	Camellia thea	Tea plant,Cha,Chah
0201	Canarium bengalense	Dhup
0202	Canarium euphyllum	White Dhup
0203	Canarium sikkimense	Gokul Dhup, Dhuna, Dhunarata, Dhupa
0204	Canarium strictum/Canarium reziniferum	Thellim, Payin, Kuthrikka, Doopamara
0205	Canthium dicoecum (Old) Carallia integerrima	Balasua, Nallababusu
0206	Canthium didymum	Bilachi heddarane
0207	Canthium neilgherrense	Belachi, Woppe
0208	Canthium parviflorum	Heddarve
0209	Canthium pergracile	Meleammepannu
0210	Capparis decidua	Karil
0211	Cassine species	
0212	Capparis grandis	Torate, Kauntel
0213	Carallia integerrima/Carallia brachiata	Mahithekerh, Bangana, Phanshi
0214	Carallia indica	Varanga, Valovam
0215	Careya arborea	Kumbhi
0216	Careya nepalensis	
0217	Carissa carandas	Kalbli, Kawli, Garchunakai,Karaunda
0218	Carpinus viminea	Cham, Khirk, Khirki
0219	Caryota urens	Sulphi, Sagapalm, Bherlimad Fish tail palm
0220	Caseari carcandus	Paiiii
0221	Casearia esculenta	Pannimurunga
0222	Casearia graveolens	Gilchi, Dedak, Manja, Mango, Bokada
0223	Casearia graveoleris Casearia rubescens	Chorn, Dedak, Marija, Marigo, Dokada
0224	Casearia sp.	
0225	Casearia sp. Casearia tomentosa/Casearia elliptica	Gilchi, Dhola, Umbh, Kirrniro, Chilla, Mera, Phempri, Mallampavatta
0226	Cassia fistula	Amaltas, Sonari, Bahra, Bhawa, Garmala, Kirola, Konna, Kakke
0227	Cassia nodosa	Sonari
0228	Cassia occidentalis	Anechagate
0229	Cassia siamea	Minjiri, Nellatangedu,Chakunda,Kasid
0230	Cassia tomentosa	Sillangi, Killangi
0231	Cassia tora	Tagate
0232	Cassia auriculata	Taravada, Avarkay, Tangadi

Species	Botanical Name	Common/Local Names
Code		
0233	Castanopsis armata	
0234	Castanopsis hystrix/ tribuloides	Katnoj, Kaloni, Kotani
0235	Castanopsis indica	Hingori
0236	Castanopsis javanica	
0237	Castanopsis sp.	Hingori
0238	Casuarina equisetifolia	Saru
0239	Cedrela febrifuga/Toona tebrifiga	Lekh toon
0240	Toona ciliata/ Cedrela toona	Tun, Darli, Darloi, Dal, Mathagiri, Vedi, Vembu, Malavepa, Noga, Chonagil, Jatipoma, Poma
0241	Cedrus deodara	Depdar, Dayar, Devadaru, Deodar
0242	Ceiba pentandra/Toona febrifuga (Eriodendron anfractuosum)	Seemeburga, Silk cotton, Seauel
0243	Celtis australis	Kharik
0244	Cephalanthus occidentalis	Kalikat
0245	Cephalostachyum fuchsianum	Tamat
0246	Cephalostachyum latifolium	
0247	Cephalostachyum pallidum	
0247	Cephalostachyum pergracile	
0248	Chuckrassia tabularis/ Chuckrassia	Chikrasi, Veppu, Karadi keta, Bogipoma,
	vefutina	Mala
0250	Chloroxylon swietenia	Bhirra, Satin
0251	Chrysophyllum roxburghii	Palepannu
0252	Cinnamomum cecicodaphne	Gonsoroi
0253	Cinnamomum impressinervium	Sissi
0254	Cinnamomum iners	Kankutala, Kankula
0255	Cinnamomum oblongifolium	
0256	Cinnamomum obtusifolium	Meduriduma, Paderi, Tozia, Nagalarhira, Patihunda
0257	Cinnamomum sp.	Mahidal, Gonsordi, Dalchini
0258	Cinnamomum tamala	Dalchini, Tejpat
0259	Cinnamomum wightianum/ zeylanicum	Naikambagam, Karpamara,Sombala
0260	Cipadessa baccifera (Cipadessa fruticosa)	Chitumba, Sidugoli
0261	Citrus maxima/Citrus grandis	Batabi nebu, Pummelo
0262	Citrus latipes/Citrus hystrix	2.2.2, 2.2.2
0263	Citrus medica	Elmichai
0264	Citrus sinensis	Mausmi
0265	Citrus sp.	Lemon, Nimbu
0266	Clausena anisata/Clausena dentata	Barpe,Poti
0267	Cleidion javanicum	Yellari
0268	Cleistanthus collinus	Karra, Nallkodigha
0269	Clerodendrum viscosum	Kacungyi
0209	Clochidion assamicum	Latimanwa
0210	<u> </u>	Latinanwa

Species	Botanical Name	Common/Local Names
Code		
0271	Cocculus laurifolius	Tilaphara
0272	Cochlospermum religiosum	Galgal, Derani, Jerani, Kendo gogu
0273	Cochlospermum tomentosum	
0274	Cocos nucifera	Narkel, Naryal, Coconut Tree
0275	Colubrina asiatica	Vira
0276	Columbia floribunda	
0277	Commiphora mukul/wightii	
0278	Commiphora caudata	
0279	Congea tomentosa	
0280	Cordia angustifolia	
0281	Cordia campanulata	
0282	Cordia dichotoma	Gundi, Samar, Bhokar, Lassora, Lessor
	(Old) Cordia obliqua	, , , , , , , , , , , , , , , , , , , ,
0283	Cordia dichtoner	
0284	Cordia fragrantissima	Kowathutii
0285	Cordia gharaf	Gondi
0286	Cordia grandis	Thanet
0287	Cordia macleodii	Hadage, Dharivar, Satare, Pilichelle,
0_0.	00.000	Dahivan
0288	Cordia myxa	Mahidal, Bowll, Bhokar, Boal, Semri, Shelu
0289	Cordia odoratissima	
0290	Cordia sp.	Lassora, Bairula, Borala
0291	Cordia tomentosa	
0292	Cornifora caudateCommiphora caudata	Kondamavu, Aswai, Pachakilurai
0293	Cornus macrophylla	Khagsa, Khasri, Khugsi
0294	Corylus colurna	Bhutiabadam, Kapasi, Bhuj
0295	Corylus ferox	Lekh katus
0296	Corypha umbraculifera	Tale
0297	Coscinium fenestratum	Meramenjali
0298	Cotoneaster bacillaris	Ruins
0299	Crateva adansonii sp.	Odora
0300	Crataeva unilocularis	Gundi, Barun, Barna
	(Old) Crataeva religiosa/ roxburghii	. ,
0301	Cratoxylum formosum	Yepadak
0302	Cratoxylum neriifolium	
0303	Croton joufra	
0304	Croton malabaricus	Kolvachi
0305	Croton oblongifolius	Kanki
0306	Croton tiglium	Lapcho
0307	Cryptocarya wightiana	Kadamanpari
0308	Crypomeria japonica	·
0309	Crypteronia paniculata/gabra	Garumarh
0310	Cryptocarya amygdalina	Bonlonalus

Species Code	Botanical Name	Common/Local Names
0311	Cullenia excelsa	Karanini
0312	Cupressus cashmiriana	
0313	Cupressus sp.	
0314	Cupressus torulosa	Cupress, Devidiar, Leuri, Surai, Samrani
0315	Curcuma aromatica	Kadarshina
0316	Cycas circinalis	Madana kamarin, Sanning kai, Erigei, Nalvalanga, Kalarei intha, Kalanga
0317	Cycas pectinata	Thakai
0318	Drypetes assamica/ Cyclostemon assamica	Rali
0319	Drypetes longifolia/Cyclostomon marcrophyllus	Mala payin
0320	Cynometra beddomei	Irapu
0321	Maniltoa polyandra/Cynometra polyandra(also in 0777)	Ping
0322	Callicarpa tomentosa	
0323	Cupressus macrocarpa	Samrani
0324	Celtis wightii	
0325	Callicarpa sp.	
0326	Callistemon lanceolatus/citrinus (Metrosideros citrina/Melaleuca citrina ??)	Bottle brush
0327	Callistemon viminalis	Bottle brush
0328	Castanospermum australe	
0329	Ceriops decandra	(mangrove spp)
0330	Ceriops tagal	Goran (mangrove spp)
0331	Cyathocalyx zeylanica	
0332	Daemonorops jenkinsiana	
0333	Dalbergia latifolia	Sissam, Veetti, Eetti, kareetti, Jitregi, Biti, Shisham
0334	Dalbergia paniculata	Dhobin, Padri, Patarali, Naibiti, Khobi, Sapperra
0335	Dalbergia sissoo	Sissoo, Shisham, Tahli
0336	Dalbergia sp.	Bandmi
0337	Dalium travencoricumDialium travancoricum	Malampuli
0338	Dracontomelum mangiferum	Chinyok
0339	Debregeasia wallichiana	Sunkathi, Sankeswari
0340	Delonix elata	
0341	Delonix regia	Golmohan/Krishnachura
0342	Daphniphyllum himalayense	Ratniali, Rakta chandan
0343	Dichopsis elliptica	Panchonta, Ketellupei, Illupei, Pala, Keipales
0344	Dichrostachys cinerea	Yettur, Yletur
0345	_	

Species Code	Botanical Name	Common/Local Names
0346	Dillenia indica	Owtenga
0347	Dillenia pentagyna	Karmat, Kerju, Karvat, Karaval, Kathak, Zindyum, Modapana, Pattippana, Valappana, Otenga, Karambel, Karamble,Nelge, Kangal
0348	Diospyros assimilis	Karimara
0349	Diospyros candolleana	Kerigide, Karimitka
0350	Diospyros chloroxylon	Illintha
0351	Diospyros crumentata	Kantumri
0352	Diospyros marmorata/malabarica	Marblewood
0353	Diospyros melanoxylon	Tendu, Kendu, Timru, Abhus, Timbaroo
0354	Diospyros microphylla/buxifolia (Leucoxylum buxifolium)	Chunde
0355	Diospyros nilagirica	Kartha, Choote
0356	Diospyros obenum	Ebony, Karu, Mushtimbi
0357	Diospyros paniculata	Kari-Koomar-Karmarala
0358	Diospyros peregrina (Old) Diospyros embryopteris sylvatica/sontana/ceubroypteris	Madad tendu, Kakchi, Honeymoontree, GoindaJagalgonti
0359	Diospyros sp.	Kendu, Kala kendu, Tendu
0360	Diospyros tupru	Tupra
0361	Diospyros variegata	
0362	Diploknema butyracea/Madhuca butyracea/Bassia butyracea	Raktchena, Danchura, Mohwa
0363	Dipterocarpus bourdilloni	Karanjili, Charatta angeli
0364	Dipterocarpus gracilis (Old)	
0365	Dipterocarpus indicus	Kalapayin, Vellanini, Kalpaini, Kaipad
0366	Dipterocarpus macrocarpus/ Pterocarpus macrocarpus	Hollong
0367	Dipterocarpus sp.	
0368	Dipterocarpus tuberculatus	Medsingh
0369	Dipterocarpus turbinatus	Garjan
0370	Dolichandrone crispa	Godmurgi
0371	Dolichandrone falcate	Metarsingh, Medhasingi waddi
0372	Drimycarpus recemosus	
0373	Drypetes lancifolia	Haro
0374	Duabanga grandiflora	Khakan, Mau, Lampate
0375	Dysoxylum beddomei	Adanthei
0376	Dysoxylum binectariferum	Rata, Bandardima
0377	Dysoxylum alliarium/Dysoxylum hamiltonii	Gendhaki poma, Rannipoma
0378	Dysoxylum malabaricum	Agie, Vella
0379	Dysoxylum sp.	Lahsune
0380	Daphniphyllum glaucescens	
0381	Daphniphyllum neilgherrense	Mir kakke

Species Code	Botanical Name	Common/Local Names
0382	Drypetes wightii/Hemicylia wightii	
0383	Desmos chinensis	Unona discolor
0384	Desmodium triquetrum	
0385	Dypsis lutescens	
0386	Dendrophthoe falcato	
0387		
0388		
0389		
0390	Echinocarpus dasycarpus(Old)/ Sloanea dasycarpa (also in 1102)	Gobra,Seta,Binder
0391	Ehretia acuminata	Gaul
0392	Ehretia laevis	Chamror, Khoba, Datrang
0393	Eugenia arnottiana	Naval, Ayri
0394	Elaeagnus kologa	Wild olive tree
0395	Elaeagnus umbellata	Giwain, Giwai
0396	Elaeocarpus cuneatus	Bigadamara
0397	Elaeocarpus lanceifolius	
0398	Elaeocarpus munroii	Narebekki, Kalbikki, Badaga
0399	Elaeocarpus oblongus	Analthari, Bikki maram
0400	Elaeocarpus rugosus	Panmaku
0401	Elaeocarpus serratus	Athkusye, Athakunge
0402	Elaeocarpus sp.	
0403	Elaeocarpus sphaericus (Elaeocarpus ganitrus)	Rudharakshi
0404	Elaeocarpus tuberculatus	Magara, Kodavasi, Lampathi
0405	Elaeocarpus varunua	
0406	Cassine glauca/Elaeodendron glaucum/albens	Jamrasi, Kalmukho, Dhebri, Loonia, Sauri, Neridu
0407	Elaeodendron paniculata/ Cassine paniculata	Purali
0408	Elaeodendron roxburghii	Mirandu, Padrium, Bakra, Jamrassi, Janva
0409	Alangium lamarckii (also in 0048)	
0410	Emblica officinalis/ Phyllanthus emblica	Amla, Aonla, Amlaki, Nellimaram, Nelli, Amloki
0411	Endospermum chinense (Old) Endospermum malaccense	Bakota, Phulgamani, Tarua Bakola, Halundrahakj, Handospoka
0412		Godhmohinia, Mohwia
0413	Engelhardtia spicata/integra/ Engelhardtia colebrookiana	Mewa, Mauwa
0414	Enterolobium saman	Raintree
0415	Erinocarpus nimmoanus/nimmoni	Andari-Bendi
0416	Eriobotrya bengalensis	
0417	Eriobotrya petiolata	Maya
0418	Erioglossum rubiginosa	
0419	Eriolaena candollei	

Species Code	Botanical Name	Common/Local Names
0420	Eriolaena hookeriana	Guakasi, Narbothu
0421	Eriolaena quinquel ocularis	
0422	Eriolaena spectabilis	
0423	Erythrina sp.	Mandan,Pariwela
0424	Erythrina stricta	Ilalivane, Keechakenanara
0425	Erythrina suberosa	Pangra, Gararo, Mander, Dhaul, Dhak
0426	Erythrina variegata	Pangra, Pangaro, Pengaro, Mendo
	(Old) Erythrina indica	
0427	Erythroxylun monogynum	Deodari,Shimara
0428	Eucalyptus citriodora	Nilgiri
0429	Eucalyptus globulus	Blue gum
0430	Eucalyptus grandis	Nilgiri
0431	Eucalyptus hybrid	Nilgiri
0432	Eucalyptus rostrata	Red gum
0433	Eucalyptus sp.	Nilgiri,Thadya,Thallawara
0434	Eucalyptus tereticornis	Nilgiri hybrid
0435	Sygygium alternifolia/Eugenia	Manchi, Moyadi, Mogi, Mege
0 100	alternifolia	Wallotti, Moyaal, Mogi, Moge
0436	Eugenia corymbosa	Nyara
0437	Syzygium caryophyllatum/ Eugenia	Kunti-Neeral
	caryophyllatum	
0438	Syzygium syzygioides/Eugenia cymosa (also in 1143)	Jam, Tita, Nerudu
0439	Syzygium formusum/Eugenia formosa	Ambake
0440	Syzygium venosum/Eugenia frondosa	Dhubka
0441	Syzygium gardener/Eugenia gardneri (also in 1137)	Maleherlu
0442	Eugenia grandis	Jia
0443	Syzygiumhemisphericum/ Eugenia hemispherica	Jabbalae
0444	Syzygium leatum/Eugenia laeta	Madle
0445	Syzygiumfamilnadensis/ Eugenia montana	Poriyil
0446	Syzygiummundagam/Eugenia mundagam	Kattasamba, Mudagam
0447	Eugenia praecox (Old) Jambosa praecox	Bogi-jaruk
0448	Eugenia sp.	Nerala, naga, javal, Niralu
0449	Syzygium zeylanicum/Eugenia zeylanica (also in 1145)	Meerongi, Pitkuli, Bhodas
0450	Euonymus dichotomus	Kenkutle
0451	Enamymus fimbriatus/ Euonymus lacerus	Pinna, Dhyar

Species Code	Botanical Name	Common/Local Names
0452	Euonymus pendulus	Katha, Konkon, Katli, Kapkan
0453	Euphorbia antiquorum	Bonthekalli, Mundugalli
0454	Euphorbia royleana	Thoar
0455	Euphorbia sp.	Sil
0456	Euphoria longana (also in 0848)	Kattasamba, Mudagam, Kana, Kindali, Kendale Chakotta, Sannale, Koomathi, Bonlicha
0457	Eurya japonica	Jhingri
0458	Tetradium fraxinifolium/Evodia fraxinifolis	
0459	Melicope lunu-ankenda/Euodia lunu- ankenda/Evodia roxburghiana	Kambli, Chattavamara
0460	Tetradium glabrifolium/Evodia meliaefolia	Khanakpa
0461	Evodia sp.	Kannlei, Dapper, Kattashambagan
0462	Excoecaria agallocha	Tayaw, Genwa
0463	Eriodendron anfractuosum/Bombax pentandrum/Ceiba pentandra	
0464	Euonymus indicus	
0465	Eclipta prostrata	
0466	Enterolobiuum cyclocarpum	
0467		
0468		
0469		
0470		
0471		
0472		
0473	Zanthoxylum retsa /Fagara budrunga (also in 1285)	Bojrong, Bojorani
0474	Limonia acidissima/Feronia elephantum(also in 0705)	Kaweet, Kaitha
0475	Feronia limonia	Balnvalgida
0476	Ficus asperrima	Gargatti, Kharwatti
0477	Ficus benghalensis	Figs, Wad,Bargad, Alamaram
0478	Ficus callosa	Nirvala
0479	Ficus carica	Common fig, Dumur
0480	Ficus semicordata (Ficus cunia) (also in 0487)	Jog dumur
0481	Ficus drupacea (Ficus mysorensis)	Genimere, Colicare
0482	Ficus elastica	Ved, Vadlo
0483	Ficus hispida	Khakhri, Pipri, Tel, Umerdo, Kharodi
0484	Ficus nervosa	Khaipan, Kharipan
0485	Ficus rticula (Ficus glomerata)	Atti, Rumdi, Atthi, Gular, Umrao

Species Code	Botanical Name	Common/Local Names
0486	Ficus religiosa	Pipal, Pipli, Papada, Pripari, Ragi, Pimpal, Arasa Maram
0487	Ficus semicordata(also in 0480)	
0488	Ficus sp.	Gular, Anjar, Aumbar, Umerao, Bad, Kheura, Khomnia, Budita, Gaujine, Tungla, Bargad, Akhar, Pair,Atlla,Gani
0489	Ficus tsiela	Bilibasari
0490		
0491	Ficus virens (Ficus infectoria)	Basarimare, Karibasari,Barri
0492	Filicium decipiens	Niroli, Valmurricha, Irim-birakki
0493	Firmiana colorata	Phirphire
0494	Flacourtia jangomas (Flacourtia cataphracta)	Vayankarei charalu, Vayoenkatha thalira, Kanaji
0495	Flacourtia indica/ Flacourtia ramontchi	Kangu, Kakai
0496	Flacourtia montana	Sompi, Bensapige, Gudda, Champhar
0497	Flacourtia sp.	Kangukandai
0498	Flueggia mirocarpa	Huligida
0499	Fraxinus floribunda	Angan, Angou, Dakkuri, Tahasi
0500	Fraxinus sp.	Ash, Angu
0501	Ficus mollis/tomentosa	
0502	Ficus benjamina	
0503		
0504		
0505		
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0508		
0509		
0510		
0511	Caesalpinia pulcherrima (also in 0188)	Radhachura
0512	Gamblea ciliata	
0513	Gaultheria fragrantissima	Winter green oil tree, Moolai
0514	Garcinia gummi-gutta/Garcinia cambogia	Kudgelmurga
0515	Garcinia cowa	
0516	Garcinia pedunculata	Bonthekora
0517	Garcinia indica	Muriyia, Kokam, Bhirand, Kokum
0518	Garcinia rticulat/Garcinia morella	Arsingurge
0519	Garcinia sp.	Ponpuli,Pullmeram(kudo)
0520	Garcinia spicata	Haraluguriga, Kenjeraka, Kokokattai
0521	Garcinia pictoria	Kevanhuli, Garigehuli, Devangi

Species Code	Botanical Name	Common/Local Names
0522	Garcinia xanthochymus	Devanhuli, Gari, Genuli, Devangi
0523	Gardenia optusa	Mallanga
0524	Gardenia resinifera	Papada, Damburuda, Karinga, Dikamali
	(Old) Gardenia turgida/Lucida/	Tapada, Zamadada, Haringa, Zinaman
	latifolia/gummifera	
0525	Gardenia sp.	Thenele
0526	Garuga pinnata	Kekad, Thutmule, Titmira, Kajikara,
00_0		Kharpat
0527	Gironniera reticulata	Chuchi
0528	Gironniera sp.	
0529	Gironniera subaequalis	
0530	Givotia rotteriformis	Punki, Panki, Tellapoliki
0531	Glochidion acuminatum	Nirvetti
0532	Glochidion neilgherrense	Salle
0533	Glochidion seylanioum	Bends, Nirsalle, Sevregiada
0534	Glochidion sp.	outai, i medici, corregidad
0535	Glochidion velutinum	Kathmalu, Kathnawha, Salai
0536	Gluta travancorica	Sheugurni
0537	Glycosmis mauritiana	Mavikyan, Kedumarela
0538	Glycosmis pentaphylla	Kodumaralugida
0539	Gmelina arborea	Siwana, Gumari, Sivan, Gambhar,
0000	Sinemia di sered	Kumhar, Khamhal, Gumurteak, Kuli, Kumbil
0540	Gordonia obtusa	Rambii
0541	Grevillea robusta	Silver oak
0542	Grewia abutilifolia	
0543	Grewia asiatica	Phalsa
0544	Grewia eriocarpa/Grewia elastica	Dhaman
0545	Grewia elatostenioides	
0546	Grewia flavescens	Guthu
0547	Grewia serrulata/Grewia laevigata	Achinaru
0548	Grewia nervosa/Grewia microcos	Pickla
0549	Grewia oppositifolia	Bhimal, Behul
0550	Grewia daminea/Grewia salvifolia	Ulli
0551	Grewia sp.	Diamiul, Gharbhimti, Pharasai
0552	Grewia tiliifolia	Dhaman, Tada, Thadachiee,
		Chadichi,Chedelie
0553	Guazuma tomentosa	Thainpuchi, Rudraksha
0554	Gymnosporia acuminata	. , . ,
0555	Gymnosporia montana	Tondarsai, Tandarsi
0556	Gymnosporia royleana	Guala Darim
0557	Gymnosporia rufa	
0558	Gynocardia odorata	Bandre, Ramphal
0559	Gyrocarpus jacquini	Kumar penki
5000	(Old) Gyrocarpus americanus	Trainal politi

Species	Botanical Name	Common/Local Names
Code		
0560	Gyrocarpus odorata	Dalmugra
0561	Gliricidia sepium/ maculata	Glabsa
0562	Garcinia mangostana	
0563	Garcinia talbotii	
0564	Glochilion ellipticum	
0565	Goniothalamus cardiopetalus	
0566	,	
0567		
0568		
0569		
0570		
0571	Haplophragma adenophyllum	Palthan, Chonapaini, Kath sagon
0572	Hardwickia binata	Anjan, Vereppa
0573	Hardwickia pinnata	Madeyan, Sampirani, Kolavu nei, Kottei,
		Uram, Surali, Kiyavu, Kolla, Chittila
0574	Harpullia cupanioides	Madakku
0575		10000
0576	Helicteres isora	Maror Phal, Kapasi
0577	Hemicyclia elata	Velthachoote
0578	Hemicyclia venusta	Vellelambu, Palla, Kanni, Vella kasavu
0579	Heritiera attenuata	Boroi, Dhaman
0580	Heritiera littoralis/Heritiera fomes	Sundri
0581	Heritiera macrophylla	
0582	Hernada reparia	misc
0583	Heteropanax fragrans	Totila
0584	Trichilia cannaroides/Heynea trijuga	Banritha
0585	Hibiscus furcatus	Huligowri, Huligabari
0586	Hibiscus macrophyllus	Chama
0587	Hibiscus rosasinensis	Jaba,Gurhal
0588	Hibiscus tiliaceus	Safed chilka
0589	Hiptage benghalensis (Hiptage madablota)	Madvilata, Pikigisam
0590	Holarrhena pubescens/ Holarrhena antidysenterica	Inderraja, Dudkhira, Kudi, Inderajav, Kuda, Kurchi, Isteripala, Kurra
0591	Holigarna arnottiana	Cheracheru, Malegeru, Toturinji
0592	Holigarna beddomei	Palvidinyax
0593	Holigarna grahamii	Genu
0594	Holoptelea integrifolia	Kaneji, Pungo, Aval, Chiebil, Nambinara, Wavala, Ayam, Tabani, Tabasi
0595	Homalium tomentosum	
0596	Homalium zeylanicum	Manthalaa-mukki, Wavala
0597	Hopea glabra	
0598	Hopea odorata	Pongu, Thingon
0599	Hopea parviflora	Thanbagam, Irupu, Kambagam
0600	Hopea racophloea	Neducalipenga, Naikambagam

Species Code	Botanical Name	Common/Local Names
0601	Hopea species.	
0602	Hopea utilis/longifolia	
0603	Hopea wightiana	Nai-irulu, Kalhoni
0604	Hevea brasiliensis	Rubber tree
0605	Hovenia dulcis	Bangi
0606	Humboldtia brunonis	Hasiga
0607	Humboldtia sp.	Koratthi, Kunthani
0608	Hydnocarpus alpina	
0609	Hydnocarpus kurzii/ Taraktogenos kurzii	Chalmugra
0610	Hydnocarpus sp.	Matrupa, Banrang
0611	Hydnocarpus laurifolia/ Hydnocarpus wightiana	Nireetia, Nirveti, Mirolhakai, Kawti
0612	Hymenodictyon excelsum	Match, Kavai, Kadia, Matrupa, Mad, Banrang
0613	Hymenodictyon flaccidum	
0614	Hymenodictyon obovatum	Gendale, Bogi, Hirename, Phose, Kurwei, Sirid
0615	Hippophae salicifolia	Amej, Chook
0616	Heracleum wallichii	Chimpirs
0617	Haematoxylon campechianum	Patangi
0618	Hyophorbe lagenicaulis	Bottle palm
0619	Helicteres minor	
0620		
0621		
0622		
0623		
0624		
0625		
0626	Ilex denticulate	Malam thidappu
0627	Ilex excelsa	Tumari
0628	Ilex fragilis	
0629	llex umbellulata/llex godjam	Hatikirepa
0630	llex sp.	Kumkum, Gaib, Kandai, Kanderu, Kandek
0631	Ilex wightiana	Herale, Hurula
0632	Illicium griffithii	Lissi
0633	Pithecellobium dulce/Inga dulcis (also in 0932)	Vilayari, Humse, Jangle, Jilebee
0634	Isonandra polyantha	
0635	Ixonanthes khasiana	
0636	Ixora arborea/Ixora parviflora	Lakhandi, Telkurma, Korvi, Toroh tree, Kurat
0637	Ixora brachiata	Gurani, Gorbale (small tree)
0638	Ixora calycina	,

Species Code	Botanical Name	Common/Local Names
0639	Ixora nigricans	Lokhandi, Yelgare
0640	Ixora nontoniana	Lownard, Toigaro
0641	Isonandra perrottentiana	
0642	Ixora species	
0643	There openies	
0644		
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0649		
0650	Saraca asoca	Asoka
0651	Juglans regia	Akhrot, Akhor
0652	Juniperus macropoda	Dhimp, Dhup
0653	Juniperus pseudosabina	Black juniper
0654	Juniperus recurva	Small juniper
0655	Juniperus sp.	Guggal
0656	Jurinea species	33
0657	Jacaranda mimosifolia	Jacaranda
0658	Jatropha gossypiifolia	
0659	7 3 71	
0660		
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0667	Kayea assamica	Sixnahar
0668	Kayea floribunda	Karal
0669	Kigelia pinnata	
0670	Kingiodendron binata	Shurali, Kiyavu
0671	Kingiodendron pinnatum/ Hardwickia pinnata	Piney, Shurali
0672	Knema attenuata	Hedmengan, Buktamsra
0673	Knema glaucescens	
0674	Korthalsia laciniosa	Kadpla
0675	Kurrimia bipartita	Kadapla, Konnai
0676	Kurrimia indica	Kadapla
	(Old) Kurrimia laipartita	
0677	Kydia calycina	Baranga, Banakapsia, Pichela, Pula, Bhindi, Waring, Petari, Warang
0678	Kandelia candel	(mangrove spp)
0679		117
0680		

Species Code	Botanical Name	Common/Local Names
0681		
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0687		
0688	Lagerstroemia hypoleuca	Jalut, Pyman
0689	Lagerstroemia indica	Gulbahar
0690	Lagerstroemia microcarpa/	Ventheku, Vellilavap, Benteak,
	Lagerstroemia lanceolata	Nana, Vendek
0691	Lagerstroemia parviflora	Lendia, Kaka, Padia, Jarup, Bondaro, Supazo, Dhauri, Sidha, Pyinma, Chinangi, Londi, Bongda
0692	Lagerstroemia reginae/ Lagerstroemia flosreginae/ Lagerstroemia spaciosa	Ajhar, Jaruch, Nirben teak, Manimaruthu, Nirmeruthu, Taman, Bondara
0693	Lagerstroemia sp.	
0694	Lannea coromandelica/Lannea grandis, Odina wodier	Mode, Modal, Jhingan, Godal, Nabbee, Moi, Shamat, Godda, Gompena
0695	Reinwardtiodendron anamalaiense/Lansium anamalayanum/ Aglaia anamallayanum	Chodimare, Chingfwari
0696	Laportea crenulata	Morange
0697	Larix griffithii	Jalut
0698	Lasiosiphon eriocephalus	Mukkan daka
0699	Lasiosiphon sp.	Mukardel, Mukadala
0700	Leea indica (Leea sambucina)	Nurche, Jini, Midichi
0701	Leucaena leucocephala	Subabul
0702	Leucosceptrum canum	Churpis
0703	Licuala peltata	Salaipatti
0704	Ligustrum neilgherrense	Chantrike
0705	Limonia acidissima	Beli
0706	Limonia sp.	
0707	Lindera assamica	Sanu pahale
0708	Lindera heterophylla	Lekhpipli
0709	Lindera neesiana	Siltimur
0710	Lindera pulcherrima	Sinkoli
0711	Ligustrum robustum	Keri,Banpatra
0712	Linociera malabarica	Akkarkal
0713	Lepisanthes tetraphylla	Jhingan
0714	Litchi chinensis	Lichu, Lichi
0715	Lithocarpus elegans/ Lithocarpus	

Species	Botanical Name	Common/Local Names
Code		
	spicata(also in 1021)	
0716	Lithocarpus pachyphylla(also in 1016)	Singrekatus
0717		
0718	Litsea cubeba/Litsea citrata	
0719	Litsea grandis	
0720	Litsea laeta	
0721	Litsea monopetala/ Litsea polyantha	Huoria
0722	Litsea doshia/Litsea oblonga	
0723	Litsea panamonja	Buichapa
0724	Litsea salicifolia	
0725	Litsea shasyana	
0726	Litsea sp.	Lakri, Narkh, Bailara, Shurur, Lampatia, Maida
0727	Litsea stocksii	Litsae
0728	Litsea floribunda/Litsea wightiana	Litsae
0729	Litsea zeylanica	Messi, Sudagenasu
0730	Lonicera quinquelocularis	
0731	Lophopetalum wightianum/ Lophopetalum fimbriatum (also in 0732)	Sutrang
0732	Lophopetalum wightianum (also in 0731)	Venkotha, Venkottai, Palmani, Popsa
0733	Lyonia ovalifolia/Pieris ovalifolia	Ainyar, Ayar
0734	Lumnitzera racemosa	(mangrove spp)
0735	Litsea ghatica	
0736	Lawsonia inermis/ lawsonia alba	
0737	Linociera intermedia	
0738		
0739		
0740	Lepisanthes species	
0741		
0742		
0743		
0744	Macaranga denticulata	Jageru, Bhura
0745	Macaranga indica	Papri,Malkot
0746	Macaranga peltata	Vetta,Bette Kannl
0747	Macaranga pustulata	
0748	Macaranga sp.	Malata
0749	Persea frutifera/Machilus edulis	
0750	Persea gamblei/Machilus gamblei	Shum
0751	Persea gammieana /Machilus gammieana	Chupli kawla
0752	Persea globularia/Machilus globosa	Kanta
0753	Persea macrantha/Machilus	Uravu, Gulumb

Species Code	Botanical Name	Common/Local Names
	macrantha	
0754	Persea odoratissima/Machilus odoratissima	Latikawala
0755	Persea minutiflora/Machilus parviflora	
0756	Machilus sp.	Kaula, Sunkaula
0757	Persea villosa/Machilus villosa	
0758	Macropanax oreophilum	
0759	Madhuca latifolia/M. indica (Old) Bassia latifolia(also in 0178)	Mohwa, Lappa, Mahudo,Ippe
0760	Magnolia campbellii	Choge champ
0761	Magnolia pterocarpa	Patpate
0762	Magnolia sp.	Sapa
0763	Mallotus albus	Morolia
0764	Mallotus khasianus	
0765	Mallotus philippensis	Rehini, Sindhuri, Ruina, Rolli, Kamela, Kaplo, Kalujhade, Kanku, Kumkum, Kamalagundi, Shendri, Kukkum, Kabli, Anato
0766	Mammea suriga (Ochrocarpus longifolius)(also in 0869)	Surigi, Suragi
0767	Mangifera andamanica	Jangliam
0768	Mangifera indica	Am, Amb, Ambo, Mavu, Moru, Mamidi,Magani
0769	Mangifera sylvatica	Banam, Lakshmi
0770	Manihot esculenta	
0771	Manihot glaziovii	
0772	Manihot utilissima	Safeda, Chiku , Cassava
0773	Manilkara zzapota/Manilkara achras	Khirni, Rayan
0774	Manilkara hexandra/ Mimusops hexandra	
0775	Manilkara littoralis	Andaman bullet wood
0776	Manilkara roxburghiana (Mimusops roxburghiana)	Gunolale, Ranjal
0777	Maniltoa polyandra (also in 0321)	
0778	Mansonia dipake	
0779	Mappia foetida	Arali choral, Pinari
0780	Mastixia arborea	Kumbalamara gulle
0781	Mastixia pentandra	Velladambu, Nir, Kuranthu
0782	Maytenus emarginata	Kankera, Kapoor
0783	Melanorrhoea usitata	Mansonia
0784	Melia azadirach	Bijainn, Baknia, Motilimdo, Betain, Bakamlimdo
0785		
0786	Melia dubia/ Melia composita	Bucavbevu

Species Code	Botanical Name	Common/Local Names
0787	Melia sp.	Vishapari
0788	Meliosma arnottiana	Kusavithagari
0789	Meliosma pinnata	
0790	Meliosma simplicifolia	
0791	Meliosma sp	Gwel, Busha, Goi, Gex
0792	Memecylon angustifolium	Mathu, Kavumara
0793	Memecylon edule/umbellatum	Anjani
0794	Mentha aruensis	Mentha
0795	Mesua ferrea	Negeshwar, Nangu, Peri, Vellathappala, Nahar, Atha, Gangan, Nagchapha,Vainav
0796	Michelia baillonii(also in 1159)	
0797	Michelia champaca	Champa, Titasopa, Bampige, Sembage
0798	Michelia doltsopa/ Michelia excelsa	
0799	Michelia lanuginosa	Purrochamp
0800	Michelia leailleni	
0801	Michelia glabra/Michelia montana	Sundi
0802	Michelia nilagirica	Kadu sampige
0803	Michelia parviflora	
0804	Michelia sp.	Champ, Garari, Kanjira
0805	·	
0806	Miliusa sp.	Jangli, Segwan
0807	Miliusa tomentosa/ Saccopetalum tomentosum(also in 1058)	Kari, Umbh
0808	Miliusa velutina	Domsal,Guasal
0809	Miliusa wightiana	
0810	Millingtonia hortensis	Akashneem, Akash limdo
0811	Mimusops elengi	Bakul, Yelande, Wawli
0812	Mimusops roxburghiana	Kanapalei
0813	Mimusops sp.	Dhekul, Khaja
0814	Mistixia arborea	Kunbalnara, Gulle
0815	Mitragyna parvifolia/Stephegyne parvifolia (also in 1111)	Mundi, Phaldu, Kaiz, Battaganam, Kalamb, Panikadam
0816	Mansonia sp.	Badam
0817	Moringa oleifera/Moringa pteryogosperma	Sohnigna, Sainjana, Shivga
0818	Morinda tinctoria/tomentosa	Aal, Ali, Aledi, Achu, Togarmoghli
0819	Moringa sp.	Sohjna, Sajna, Munga,Saragua
0820	Morus alba	Tori, Tuntri, Tont
0821	Morus laevigata	Bola
0822	Morus sp.	Tut, Kimu, Shahtoot
0823	Munaya Vernonia amygdalina	
0824	Murraya paniculata	Bilgar,Marchula,Kamini
0825	Murraya koenigii	Gandhela,Keth Nim
0826	Myrica esculenta/ Myrica nagi	Kaphal

Species Code	Botanical Name	Common/Local Names
0827	Myristica andamanica	
0828	Myristica attenuata	Paktamara
0829	Myristica beddomei/ Myristica dactyloides	Hed-Patre, Zajikui
0830	Myristica canarica	Pindi
0831	Myristica laurifolia/ Myristica linifolia	Kathi, Jai, Juthi, Choremara, Ramgote, Katijijaji
0832	Myristica magnifica	Ramanadike
0833	Myristica malabarica	Bempatre, Kadjaiphal, Ranjaiphal
0834	Myristica sp.	Jaiphal
0835	Memecylon malabaricum	Bandke
0836	Muntingia calabura	
0837	Memecylon talbotianum	
0838	Meyna spinosa	
0839	Myristica	
0000	fragrans/aromatic/moschala/officinalis	
0840	Mitragyna tubulosa	
0841	Markhamia platycalyx	
0842	Memecylon species	
0843	Moringa concanensis	
0844	Maba buxifolia (Diaspyros ferrea)	
0845	masa samina (Siaspyree remea)	
0846	Neonauclea griffithii/ Nauclea griffithii	Jeinkola
0847	Neonauclea gageana/Nauclea gageana	Teiukala
0848	Nephelium longana (old)/ Euphoria longana/ Dimocarpus longan (also in 0456)	Kattasamba, Mudagam, Kana, Kindali, Kendale Chakotta, Sannale, Koomathi, Bonlicha
0849	Nephelium stipulaceum	Malekoomathi
0850	Nerium indicum (Oleander)	Karabi, Kaner, Asubora
0851	Nothapodytes foetida	Peenari, Helari, Pineri
0852	Nothopegia colebrookiana	Ambari
0853	Nyctanthes arbortristis	Harshingar, Kari
0854	Nyssa javanica (Old) Nyssa sessiliflora	Goharisapa
0855	Nardostachys jatamansi	
0856	Naringi crenulata/Limonia crenulata	
0857	Nephelium lappacacum	
0858	Nothopegia / Glycycarpus racemosus	
0859		
0860		
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0862		
0863		
0864		

Species	Botanical Name	Common/Local Names
Code		
0865	Ochna squarrosa	Nadli
	(Old) Ochna obtusata	
0866	Ochna wightiana	Silimbi, Katkurai
0867	Ochroma lagopus	
0868	Ochroma pyramidale	Balsa
0869	Ochrocarpus longifolius(also in 0766)	Surangi
0870	Ochrocarpus siamensis	ÿ .
0871	Olea cuspidata	Bairbani, Kau
0872	Olea dioica	Akksale, Madle, Parjambhul, Lauki
0873	Olea ferruginea	Olive
0874	Olea glandulifera	Garura,Galda,Gair
0875	Operculina turpethum	Bilialutigadda, Trupeth
0876	Ormosia travancorica	Manchadi, Chlwaiaial
0877	Oroxylum indicum	Tarlu, Tantia, Dumpii, Jaimangal,
0011	Oroxylam malcam	Dingorri, Teta, Telvo, Sona, Pharkot
0878	Osmanthus fragrans	Silang, Silangi
0879	Ostriantrius rragians Ostodes paniculata	
		Bepari
0880	Ostodes zeylanica	Balinga
0881	Ougeinia dalbergioides	Tinsa, Sandhan, Tenaph, Tiwas, Dargu
0882	Oxytenanthera monostigma	Garate, Choua
0883	Dactylorhiza hatagirea/Orchis latifolia	
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0890	Phonix reclinata	
0891	Paramignya monophylla	
0892	Phyllanthus reticulatus	
0893	Pajanelia longifolia	Jingin
0894	Pajanelia rheedii	Jingan, Ohirw
0895	Palaquium ellepticum	Pala, Cheppala, Pacherthi, Pali
0896	Palaquium polyanthum	Kurta
0897	Elaeis guineensis	Palm oil tree
0898	Pandanus furcatus	Mundige, Gubbikedini
0899	Pandanus tictorius	Sathepu
	(Old) Pandanus odoratissimus	·
0900	Parashorea stellata	
0901	Parinarium indicum	
0902	Parkia joyrica/ roxburghii	Manipurmuroh
0903	Parkinsonia aculeata	Kodanchi
0904	Pavetta indica	Pavate, Pappadi, Pavattei
0905	Pemphis acidula	Kiri
0906	Pentace burmanica	· ····
0000	i citado bullilarilda	

Species Code	Botanical Name	Common/Local Names
0907	Pentace suavis	
0908	Perishia insignis	Red dhup
0909	Persea owdenii	Tulsi sundi
	(Old) Alseodaphne owdenii	
0910	Pittosporum ferrugineum	
0911	Phoebe attenuata	Nikahi
0912	Phoebe cooperiana	Makahi
0913	Phoebe goalparensis	Bonsum
0914	Phoebe hainesiana	
0915	Phoebe lanceolata	Tumri, Bhadrai, Bhader, Kekra, Suankaula, Bagdo
0916	Phoebe paniculata	
0917	Phoebe sp.	
0918	Phoenix humilis	Shawri,Khajoor,Khazira
0919	Phoenix sylvestris	Betha, Khajur
0920	Phoenix tarnifera	Kirichilu
0921	Picea smithiana(also in 0003)	Spruce
0922	Picea spinulosa	Spruce
0923	Lyonia villosa/ Pieris villosa	Lek, Augeri
0924	Pinanga dicksonii	Jonjarige
0925	Phoenix paludosa	Hetal
0926	Pinus wallichiana/excelsa	Kail
0927	Pinus gerardiana	Chilgoza
0928	Pinus kesiya/insularis	Pine, Dingsa, Saral
0929	Pinus roxburghii/ Pinus longifolia	Chir
0930	Pistacia integerrima	Kakkar, Kakroi, Kakra
0931	Pithecellobium bigeminum/	Muthakopappen
	Archidendron monadelphum	у тамынарырган
0932	Pithecellobium dulce(also in 0633)	Seemehunse,Jugal,Jalatri
0933	Pittosporum floribundum/ Pittosporum napaulense	Dadgoli, Tamatta
0934	Planchonellia longipetiolata/ Sideroxylon longipetiolatium (also in 1100)	Lambapatti, Lambapretti
0935	Planchonia andamanica	Red bambhury
0936	Plumeria rubra	Devakekigal
0937	Podocarpus latifolia/wallichianus	Narambali
0938	Podocarpus neriifolia	Jinari, Jhitamin
0939	Poeciloneuron indicum	Ballagi
0940	Poeciloneuron pauciflorum	Puttangkolta, Puli vayila
0941	Pogostemon pathchouli	Patchouli
0942	Poinciana elata	Nirangi, Padenarayam, Sukeswar, Shakesulta
0943	Polyalthia cerasoides	Kala kasAI, Chilkaduddi
0944	Polyalthia coffeoides	Maragowri

Species Code	Botanical Name	Common/Local Names
0945	Polyalthia fragrans	Nedunar, Kakechapaya
0946	Polyalthia longifolia	Chorwnna, Arunna, Assotham
0947	Polyalthia sp.	Chami, Kohori
0948	Pometia pinnata/tomentosa	Jhit, Kandam
0949	Pongamia pinnata	Karanji, Kauge,
	(Old) Pongamia glabra/derris indica	Polangunge,Panga,Honga
0950	Populus ciliata	Poplar, Safeda, Paharipipal, Vanu
0951	Populus sp.	Bonpipal, Godhpipal
0952	Pouteria grandifolia	
0953	Premna bengalensis	Gohra, Pingta, Guze, Pakirhar
0954	Premna latifolia	Gunaru, Munnamera, Bokracha, Bakar
0955	Premna milleflora	Silgomari
0956	Premna sp.	Bakarcha
0957	Premna tomentosa	25.16.15.16
0958	Prosopis cineraria/ Prosopis	Hingota, Jand, Sondad, Jant
0000	spicigera	i iii gota,oana,oonaaa,oan
0959	Prosopis juliflora	Bengali babul, Mulmaram,
0000	Ттоборю јаштога	SeemaiKaruvelam
0960	Prosopis sp.	Pahari kikar
0961	т геооріа ор.	1 dran kikai
0962	Commiphora eticul / Protium	Kondamavu
	caudatum	
0963	Protium serratum/ Bursera serrata(also in 0172)	Mirtegna, Neur, Hern
0964	Prunus communis/ varinsitia	Pulum
0965	Prunus cornuta (Old) Prunus padus	Payyan, Jamun, Padam, Paji
0966	Prunus domestica	Plum
0967	Prunus martabanica/javanica	Lal thingam
0968	Prunus nepaulensis	Arupate
0969	Prunus sp.	Aria, Gont, Aru, Khurmani, Chiller
0970	,	
0971	Pseudostachyam polymorphum	Bajal
0972	Psidium guajava	Guava, Jam
0973	Psychotria dalzellii	Dutiyale, Fatpati
0974	Psychotria sp.	Ottumadikay
0975	Pterocarpus indicus/ dalbergioides	Pokak, Podauk
0976	Pterocarpus marsupium	Bija, Bijo, Bib, Bijasal, Pesur, Vengi,
50.0	. 11. 30d.pdd mar dapidin	Honne, Damsal, Bibla, Asan
0977	Pterocarpus santalinus	Rakta chandan
0978	Pterocymbium tinctorium/ Sterculia	Papita
	companculata	·
0979	Pterospermum acerifolium	Kapak, Champa, Ratipalia
0980	Pterospermum canescens	Hathipalli
0981	Pterospermum glabrescens/	Vatta Polavu, Pambaram

Species Code	Botanical Name	Common/Local Names
	diversifolium	
0982	Pterospermum heyneanum	Giringa
0983	Pterospermum lancifolium	Bongloguri
0984	Pterospermum reticulatum	Mulipolovu, Tholpuli, Kora toverary,
		Malavuram punangke
0985	Pterospermum rubiginosum	Malamthodali, Chittilei, Polavo
0986	Pterospermum sp.	Bhatgila, Togune
0987	Pterospermum suberifolium	Sownamara
0988	Pterygota alata/ Sterculia alata(also in 1112)	
0989	Punica granatum	Anar, Kotla, Darum, Sarchamia, Bandurpela
0990	Putranjiva roxburghii	Putajan, Putranjiv
0991	Pyrularia edulis	Amplu
0992	Pyrus pashia	Kainth, Mehal
0993	Pyrus sp.	Galya, Mohul, Moi, Moli
0994	Pyrus communis	Nashpati
0995	Pinus petula	Pine
0996	Prunus persica	Aadu
0997	Podophyllum hexandrum	
0998	Picrorhiza kurroa	
0999	Platanus orientalis	Chinar
1000	Pouteria campechiana	
1001	Persea eticulat/gratissima	
1002	Pittosporum dasycaulon	
1003	Plumeria alba	
1004	Quercus acutissima/ Quercus serrata	Titonj, Moru, Moruoak
1005		
1006	Quercus floribunda/ Quercus dilatata/ Quercus himalayana	Moru, Moru oak
1007	Quercus glauca	Bani,Phanat
1008	Quercus griffithii	Ban oak, Banj
1009		
1010		
1011	Quercus lamellosa	Bajrant, Buk
1012	Castanopsis lanceifolia/ Quercus lanceifolia	Patle, Katus
1013	Quercus lanata/Quercus lanuginosa	
1014	Quercus leucotrichophora/ Quercus incana	
1015	Quercus lineata	Phalat, Katus
1016	Lithocarpus pachyphylla/ Quercus pachyphylla(also in 0716)	
1017	Quercus semecarpifolia	Kharsu oak
1018	Quercus semiserrata	Kharsu

Species Code	Botanical Name	Common/Local Names
1019		
1020	Quercus sp.	Oak, Philiant, Rainj, Riani
1021	Lithocarpus elegans/Quercus spicata(also in 0715)	Ar kanla
1022		
1023	Parkia biglandulosa	Earlier given 999 to be given new code on 23-2-2017
1024		
1025		
1026		
1027		
1028		
1029		
1030		
1031		
1032	Radermachera xylocarpa/ Stereospermum xylocarpum (also in 1120)	Genasu
1033	Randia dumetorum	Phetra, Kala phetra, Gela
1034	Randia species.	Mainphal
1035	Randia uliginosa	Kala phetra
1036	Rauvolfia serpentina	Sarpagandha, Garudapotala
1037	Rhizophora sp.	Khair
1038	Rhododendron arboreum	Burans, Biirans
1039	Rhododendron barbatum	Lalchimal
1040	Rhododendron falconeri	Korlingo
1041	Rhododendron griffithianum	Sctochimal
1042	Rhododendron hodgsonii	Korlings
1043	Rhododendron sp.	Ghemula, Talias, Simris, Taqueaha
1044	Rhus javanica	
1045	Rhus sp.	Jung, Nizas, Tibri, Arkhol, Almora
1046	Rhus succedanea	Arkhol
1047	Robinia pseudacacia	
1048	Rheum emodi/australe	
1049	Rhizophora apiculata	Garjan (mangrove spp)
1050	Rhizophora mucronata	(mangrove spp)
1051	Roystonea regia	
1052	Rinoria bengalensis	
1053		
1054		
1055		
1056		
1057		
1058	Saccopetalum tomentosum/	Ubalu

Species Code	Botanical Name	Common/Local Names
	Miliusa tomentosa(also in 0807)	
1059	Sageraea elliptica	Chvoi
1060	Sageraea laurifolia	Kanakaitha
1061	Sageraea Sageretia oppositifolia	Gonta
1062	Salix acmophylla	Bed,Bisu
1063	Salix alba	Bhains,Willow
1064	Salix sp.	Bed, Bhainshara, Bashroi, Manju, Gadhbhains
1065	Salix tetrasperma	Bheh
1066	Salmalia insignis (Old) Bombax insigne	Karilavu, Pareillavu, Dumboil, Kalilavu, Pariilavu
1067	Salvadora oleoides	Piloo, Mithijar
1068	Salvadora persica	Piloo, Khanjau
1069	rticulate p.	Jal, Jhal
1070	Samanea samam	Raintree
1071	Santalum album	Chandan, Santhanam, Sukhad
1072	Sapindus attenuatus	
1073	Sapindus emarginatus (Old) Sapindus trifoliatus	Ritha, Aritha, Chootokoi, Kumkuda,Soapnut
1074	Sapindus laurifolius	Arithi, Hantwala
1075	Sapindus mukorossi	Ritha/Bhilwa, Bhilam, Bhiwalo
1076	Sapium baccatum	Selling, Bella
1077	Sapium eugeniaefolium	3,
1078	Sapium insigne	Khinna, Khirna, Khimi, Hure
1079	Sapium sebiferum	Tarharbi, Pahari, Shisham
1080	Sarcosperma arboreum	Kalikath
1081	Saurauia nepalensis	Gogun
1082	Saurauia pundula	
1083	Schima khasiana(also in 1084)	Diengan
1084	Schima khasiana(also in 1083)	Makrisal
1085	Schima wallichii	Makrisal
1086	Schleichera oleosa/Trijuga	Kusum, Poova, Segade, Gosum, Katha, Ume, Koshimb, Kosam, Poovam,Gutel
1087	Schrebera swietenioides	Mokha, Mokho, Mokab
1088	Scolopia crenata	Kodelimara, Sompai, Japal, Charle
1089	Semecarpus anacardium	Bhilwa, Bhela, Bibi,Bibwa
1090	Semecarpus auriculata	Vellei charei, Man cherei, Charei
1091	Semecarpus kurzii	Bora bhilwa, Bibi
1092	Semecarpus travancorica	Kattu, Shenkottei, Punnacheri, Avukeram
1093	Sesbania bispinosa	Chaveri
1094	Sesbania grandiflora	Bakful
1095	Shorea assamica	Makai
1096	Shorea robusta	Sal
1097	Shorea talura	
1098	Shorea tumbuggaia	Congu, Tambugai, Tanbagum, Thamba

Species Code	Botanical Name	Common/Local Names
		guggilapukara
1099	Sideroxylon grandifolium	
1100	Sideroxylon longipetiolatum /Planchonella longipetiolata (also in 0934)	Lambapatti, Lambapretti
1101	Sloanea assamica (Old) Echinocarpus assamicus	Joba, Kori, Gingori
1102	Sloanea dasycarpa /Echinocarpus dasycarpus (Old) (also in 0390)	Gobra, Seta, Binder
1103	Smilax prolifera	Nirubetta, Karinarigaddi
1104	Solanum nigrum	Piloo, Pilchhi
1105	Sonneratia apetala	Keowara, Keoda, Solanum tarvum, Kaora
1106	Sonneratia caseolaris (Old) Sonneratia acida	Lamu
1107	Soymida febrifuga	Rohan, Royan, Somi
1108	Spondias acuminata	Ambat
1109	Spondias axillaris	Lapsi
1110	Spondias pinnata/ Spondias mangifera	Ambra, Amra, Amar, Amria, Amora, Khati, Kadambate, Ambudi, Ambada,Akariai
1111	Stephegyne parvifolia/ Mitragyna parviflora(also in 0815)	Mundi, Phaldu, Kaiz, Battaganam, Kalamb, Panikadam
1112	Sterculia asper/alata(also in 0988)	Eairadanti, Mitle
1113	Sterculia foetida	Badam
1114	Sterculia guttata	Kithendi, Thendi, Kudare punclal, Kokar, Kolindar
1115	Sterculia urens	Kullu, Kadaya, Kadu, Genduli, Tapsi, Panerukh, Kandol, Salad
1116	Sterculia villosa	Udala, Vikka, Chilk, Sarda, Udal, Godgh, Dala
1117	Stereospermum aungstifolium	Chaipatoli
1118	Stereospermum personatum/ colais/Chelonoides	Padar, Paroli, Malai, Karingkhuru, Pumbhathiri, Dharmara
1119	Stereospermum suaveolens	Pedal, Pader, Khadsing
1120	Stereospermum xylocarpum/ Radermachera xylocarpa(also in 1032)	Genasu
1121	Stranvaesia glaucescens	Gadh meha
1122	Strobilanthes sp.	Gurgi, Yelegargu
1123	Strombosia ceylanica	Yeeya
1124	Strombosia leprosa	Chitramara
1125	Strychnos nuxvomica	Ruchala, Mushti, Kajra
1126	Strychnos potatorum	Nirmali
1127	Styrax serrulatum	
1128	Swietenia febrifuga	

Species Code	Botanical Name	Common/Local Names		
1129	Swietenia mahagoni	Mohogani		
1130	Symingtonia populnea (Old) Bucklandia populnea	Pipli		
1131	Symphyllia mallotiformis	Ammemara		
1132	Symplocos crataegoides	Lodh, Lodhra, Lodar		
1133	Symplocos laurina (Old) Symplocos spicata	Kharana		
1134	Symplocos theaefolia	Kharana		
1135	Syzygium cerasoideum (Old) Euginea cerasoides/ operculatus	Piamam, Raijamuni		
1136	Syzygium cumini/jambolana (Old) Eugenia jambolana/Spp.	Jamun, Jamoon, Piaman, Rajamun, Jamak, Jambudo, Jambu, Jambudi, Jambhul,Naval,Nellali		
1137	Syzygium gardneri (also in 0441)	Bilitrupe, Boliurpa, Bilichuropa		
1138	Syzygium jambos	Rose apple, Golap jam		
1139	Syzygium mentanum	Ped, Neralu, Panjambul		
1140	Syzygium arnottianum	Vhikksri		
1141	Syzygium species			
1142	Syzygium sonnaranangense	Jamrul		
1143	Syzygium syzygoides (also in 0438)			
1144	Syzygium utilis	Hanneralu, Henneri		
1145	Syzygium zeylanicum (Old) Eugenia spicata (also in 0449)	Hole, Lukki, Nekral, Hole-lucky		
1146	Syfroxylon wightii	misc		
1147	Symplocos cochinchinensis	Budgemi		
1148	Solanum sp.			
1149	Schefflera racemosa			
1150	Sarcocalinium longifolium/ Agrostistachys borneensis			
1151	Spathodea companulata			
1152	Scleropyrum wallichianum			
1153	Sesbania species			
1154	Sterblus asper			
1155	Tabernaemontana divaricata			
1156	Tabernaemontana heyneana (Old) Ervatamia heyneana	Madderse, Kuda, Nab, Maddlemera		
1157	Tabernaemontana dichotoma	Maddrasa		
1158	Magowha hodgsonii/Talauma hodgsonii	Boramanfluri		
1159	Michelia baillonii (Talauma phellocarpa) (also in 0796)	Khari, Kasopa, Tite sopa		
1160	Tamarindus indica	Imali, Amli, Chinch, Ambli, Tentulii, Chinta		

Species Code	Botanical Name	Common/Local Names		
1161	Tamarix rticulate/aphylla	Farash,Pullinaram		
1162	Taxus baccata	Thuder		
1163	Tecomella undulata			
1164	Tectona grandis	Sagwan, Teak		
1165	Teinostachyum dullooa	Palso		
1166	Trema amboinensis	Bukin patti		
1167	Terminalia arjuna	Arjun, Kahuwa, Sadadoe, Naiain, Sadada,Holemath		
1168	Terminalia belerica	Behera, Behdo, Gowa, Phomra, Kamia, Tharala, Thani, Thannia, Thavale, Hela, Vehela		
1169	Terminalia bialata	White chuglam		
1170	Terminalia catappa	Bengal almond		
1171	Terminalia chebula	Harra, Karaka, Har, Harar, Hirdo kadukkai, Karida, Haritaki, Karida		
1172	Terminalia citrina	Hilka, Hirtake, Bombwe		
1173	Terminalia alata/ Terminalia tomentosa/crenulata	Saja, Sajad, Saj, Ain, Alu, Asan, Sain, Pakasaj, Karimaradu, Thambavu, Maltri		
1174	Terminalia mannii	Black chuglam		
1175	Terminalia myriocarpa	Hollock, Pani		
1176	Terminalia paniculata	Pillemaradu, Kinjal, Maruthu		
1177	Terminalia procera			
1178	Terminalia sp.	Bomda		
1179	Terminalia travancorensis	Pei kadukkai, Chule maruther, Kattakadukkai		
1180	Ternstroemia gymnanthera (Old) Ternstroemia japonica			
1181	Tetrameles nudiflora	Bhulu, Tulu, Chini, Kapsin, Vellacheeni, Vellapasa, Thitpok, Chandul, Siddam		
1182	Thespesia populnea/populnoides	Bhendi, Poovarasu, Paras		
1183	Thuja compacta			
1184	Vepris bilocularis/Toddalia bilocularis (also in 1221)	Mangappe		
1185	Trema orientalis	Geta, Klargol, Kapshi		
1186	Trewia nudiflora	Gutel, Thumri, Retari, Dhenleppedda, Perumera, Borra, Pituli, Kumbil, Bhura, Mera		
1187	Trigonostemon semperflorens			
1188	Tsuga dumosa (Old) Tsuga brunoniana	Tamer, Hemlock, Tansen		
1189	Tupidanthus calyptratus	Thingsaki		
1190	Turpinia cochinchinensis (Old) Turpinia nepalensis	Kanali, Pambe-Vetti		
1191	Tecoma stans			

Species	Botanical Name	Common/Local Names
Code	Tababuia argantaa	
1192	Tabebuia argentea	Now and to be given 10, 2, 2010
1193	Theobroma cacao	New code to be given 16- 2 -2016
1194	Tabebuia aurea	
1195	Tabebuia pallid	
1196	Tabebuia rosea	
1197	Tecoma species	
1198	Thuja orientalis	
1199	Thevetia nerrifolia	
1200	111	24
1201	Ulmus integrifolia	Manuk
1202	Ulmus lancifolia	Diengtyrsam
1203	Ulmus parvifolia	
1204	Ulmus wallichiana	Chamar, Mawa, Himri, Himalayahelm
1205	Uvaria hamiltonii	
1206	Unona pannosa	
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1215		*
1216	V khasiana	
1217	Vateria indica	Payia, Paini, Velthapan, Dhupe, Dhoopa
1218	Vatica chinensis	Nedunatha
1219	Vatica lanceifolia	Morhal
1220	Vatica roxburghiana	Adakapaini
1221	Vepris bilocularis(also in 1184)	Kareagil
1222	Viburnum acuminatum	Yalesandi
1223	Viburnum punctatum	Konakaran
1224	Viburnum species	Asare
1225	Vitex alata	
1226	Vitex altissima	Mayilayi, Myla, Mylellu, Bulgi
1227	Vitex heterophylla	Panch pate
1228	Vitex leucoxylon	Songarbi
1229	Vitex negundo	Sinuer
1230	Vitex peduncularis	Ahoi
1231	Vernonia arborea	
1232		
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1234		
1235		
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Species Code	Botanical Name	Common/Local Names		
1237				
1238				
1239				
1240				
1241	Walsura trifolia/Walsura piscidia	Chokumara		
1242	Walsura trijuga	Attemara		
1243	Webera corymbosa	Chikoravi		
1244	Wendlandia exserta	Bathna, Chaulai, Tirchuni, Nirgondi		
1245	Wendlandia notoniana	Puva, Kadamban		
1246	Wendlandia wallichii			
1247	Woodfordia floribunda/fruticosa	Asre		
1248	Wrightia speciosissima/Wrightia gigantea	Baini karru		
1249	Wrightia tinctoria	Dhudi, Kadav, Motikudi, Bhura, Aiyapale, Pale, Kudi, Kuda, Bela		
1250	Wrightia arborea/Wrightia tomentosa	Dhudi, Dasla, Dark, Palakodsa, Kuda, Tambada		
1251	Washintonia filefera			
1252				
1253				
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1259				
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1261				
1262	Xanthophyllum andamanicum	Latpyan		
1263	Xanthophyllum flavescens	Ksivokki, Chalape		
1264	Xanthophyllum rhetsa	Mullilem, Rhetsa, Triphal		
1265	Xeromphis uliginosa	Kaikorai		
1266	Xerospermum glabratum	Thingasaki		
1267	Xylia dolabriformis	Pyinkado		
1268	Xylia xylocarpa	Tangan, Trul, Irula konda, tangera, Jamba		
1269	Xylocarpus gangeticus			
1270	Xylocarpus granatum/ccarapa/ obovate/ Xylocarpus obovatus	Pinllon, Dhundul		
1271		Pintim		
1272	Xylopia parviflora	Kaikoval		
1273	Xylosma longifolium	Sallu, Kangrur		
1274	Xylocarpus mekongensis	Passur (mangrove spp)		
1275	Xantolis tomentosa			
1276				
1277				

Species Code	Botanical Name	Common/Local Names
1278		
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1282		
1283		
1284	Zanthoxylum armatum	Tiur
1285	Zanthoxylum retsa (also in 0473)	
1286	Ziziphus glabrata	Karukunti
1287	Ziziphus mauritiana (Old) Ziziphus jujuba	Ber,Kul
1288	Ziziphus oenoplia	Sodimullu, Santhu pargi, Kaikoral, Kalpatta
1289	Ziziphus rugosa	Bilimaralahannu
1290	Ziziphus xylopyra	Ghont, Gotti, Cathbor
1291	Jatropha curcas	Chanderjyot, Mogle
1292	Jatropha species	
1301	Acanthus ilicifolius	(mangrove spp)
1302	Aegialitis rotundifolia	Tora (mangrove spp)
1303	Aegiceras corniculatum	Khalsi (mangrove spp)
1304	Araucaria	
1305	Actinodaphne malabarica	
1306	Artocarpus altilis/ communis/ incisa	
1307	Araucaria columnaris	
1308	Annona eticulate/ humboldtiana (Annona humboldtii / laevis / longifolia / riparia / mukosa / Rollinia	
	mucosa / orthopetala / pulchrinervia / sieberi)	
1309	Acacia cineraria	
1310	Averrhoa bilimbi	
1311	Acalypha indica	
1312	Araucaria cunninghamii	
1313	Atalantia species	
1314	Annona muricata	
1315	Aglaia malabarica	
1316	Aglaia simplicifolia	
1317	Acacia modesta	
1318	Acacia leucophloea	
1319	Antidesma ghaesembilla	
1320	Archontophoenix alexandrae	
1321	Celtis philippenesis	
1322	Citrus eticulate / deliciosa / vangasy	
1323	Casia species	

Species Code	Botanical Name	Common/Local Names
1324	Coffea Arabica(coffee)	
1325	Couroupita guianensis	
1326	Cryptolepis buchananii	
1327	Peltophorum pterocarpum	
1328	Cinnnamomum camphora	
1329	Cunometra iripa	
1330	Phyllanthus acidus	
1331	Celtis timorensis	
1332	Citharexylum spinosum	
1333	Cryptocarya stocksii	
1334	Margaritaria indica	
1335	Orophea zeylanica	
1336	Phyllanthus species	
1337	Celastrus paniculatus	
1338	Celtis tetrandra	
1339	Cryptocarya species	
1351	Casearia championii	Saptarangi
1352	Cinamomum verum	Thakthing
1353	Cornus capitata	Himalayan Strawberry Tree
1354	Docynia indica	Assam Apple
1355	Helicia robusta	Pasaltakaza
1356	Livistona jendkinsiana	Toko Patta
1357	Macropanax undulatus	Phuanberh
1358	Peltophorum	N.A.
1359	Prunus puddum	Wild Himalayan Cherry
1360	Sonneratia alba	Nakshathrakandel, Apple Mangrove
1361	Balanites maughamii	(Torch wood)
1362	Ximenia Americana	Nakeera
1363	Bruguiers gumnorrhiza	Oriental Mangrove
1371	Cestrum noctumum	Rat ki Rani
1372	Coriarria nepalensis	Massura
1373	Chrysophyllum cainito	
1374	Corchorus olitorius	
1381	Picrasma quassioides	
	,	
1382	Phyllanthus polyphyllus	
·=	, p 0.9 p.19	

Species Code	Botanical Name	Common/Local Names		
1001				
1391	Simaruba glauca			
1392	Streblus asper (also 1154)			
1401	Acacia mellifera			
1402	Aleurites triloba			
1403	Allophylus cobbe			
1431	Drypetes sepiaria			
1551	Swietenia macrophylla			
1371	Chrysophyllum cainito			
1372	Corchorus olitorius			
1999	Unidentified trees/Miscellaneous			
1000	Office filled trees/wisecharicous			
2000	Identified and uncoded trees			
Bamboo 8				
2001	Sinarundinaria maling/Arundina maling			
2002	Bambusa arundinacea/ bambos	Kanta, Banas, Budit bans, Bamboo, Hollow bans, Velu		
2003	Bambusa balcooa	Bamboo, Bhaluka		
2004	Bambusa khasiana	Bamboo		
2005				
2006	Bambusa nutaus	Bamboo		
2007				
2008	Bambusa pallida	Bamboo, Bijli, Makal		
2009	Bambusa polymorpha	Bamboo		
2010	Bambusa sp.	Bamboo		
2011	Bambusa affinis Bambusa tulda	Bamboo, Jati, Maritonga, Mritenga		
2012	Bambusa vulgaris	Bamboo		
2013	Calamus andamanicus	Cane, Thick cane		
2015	Calamus erectus	Cane		
2016	Calamus floribundus	Cane		
2017	Calamus latifolius	Cane		
2018	Calamus leptospadix	Cane		
2019	Calamus longisetus	Cane		
2020	Calamus palustris	Cane, Malaibet		
2021	Calamus sp.	Cane,Naga		
2022	Calamus tenuis	Cane		
2023	Dendrocalamus hamiltonii	Bamboo, Kako, Okagi		
2024	Dendrocalamus longispathus	Bamboo		
2025	Thamnocalamus spathiflorus	Ringal		

Species	Botanical Name	Common/Local Names		
Code 2026	Dandragalanus	Dambaa		
	Dendrocalamus sp.	Bamboo		
2027	Dendrocalamus strictus	Kanak, Shib, Udha, Medar, Bamboo, Solid bans, Chhota bans		
2028	Melocanna baccifera	Mooli bans, Bamboo		
2028	Teinostachyum dullooa	Bamboo, Rauthla bans		
2029	Ochlandra brandisii	Nanyurali, Maieetha, Chittu		
2030	Ochlandra travancorica	Eral, Chittu, Etha		
2032	Ochiana travanconca	Liai, Ollitta, Etila		
2033	Oxytenanthera bourdilloni	Reed		
2034	Oxytenanthera monostigma	Bamboo		
2035	exyteriaritrera monostigma	Barriboo		
2036				
2037	Oxytenanthera stocksii	Bamboo, Manga, Konda		
2038	Oxytenanthera stocksii Oxytenanthera thwaitesii	Reed		
2039	Teinostachyum wightii	Nanyura, Maieetha		
2040	Cephalostachyum sp.	ivallydia, ivialeetila		
2040	Sinarundinaria sp.			
2041	Teinostachyum sp.			
2042	Telliostacifyum sp.			
2051	Bambusa auriculata	Comman Bamboo		
2052	Bambusa cacharensis	Bom/bethua bans		
2053	Bambusa Jaintiana	Tetua		
2054	Bambusa multiplex	Nan/Hedge bamboo		
2055	Bambusa nutans	Kai		
2056	Bambusa polymorpha Munro	Paura		
2057	Bambusa schizostachyoides	N.A.		
2058	Calamus viminalis	C-karak/ Bora bet		
2059	Oxytenanthera nigrociliata	Kalyai		
	/Gigantochola Nogrociliata			
2060	Schizostachyum dulloa	Dolu		
2061	Schizostachyum regersil	N.A.		
2062	Teinostachyum dullooa	Bamboo		
2063	Thyrosostachys oliveri	Bamboo clump forming		
2064	Guadua angustifolia	Clump forming		
	3.11			
2100	Unidentified bamboo			
2150	Unidentified canes			

List of NTFP (Herb, Shrub and Climbers) Species and their Codes

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				101	Achyranthes aspera	Kempu, Utrani gida, Puth kanda
				105	Aloe barbadensis/aloe vera	Kalabanda,Ghritkumari
				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				112	Aristida setacea	Poochka Gaddi, Cheepuru Gaddi
				120	Centella asiatica	Hnahbial/Lambak, Manimuni
				127	Cyclea peltata	Paatathige
				129	Cyperus rotundus	Muthanga, Bhadra mustee, Nagaramotha
				130	Datura innoxia	Ummetha
		1	Herb	132	Drosera peltata	Kocu vetti
				148	Kaemperia galanga	Kacholam, Chandramoola
				156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				168	Rauvolfia serpentina	Sarpagandhi, Atki
	Andhra			174	Solanum nigrum	Kasaka,Makoy
28	Pradesh			190	Curculigo orchiodes	Nallathadi,Kali musali
				191	Curcuma pseudomontana	Adavi pasapu
				321	Datura metal	Nallaummatha
		2	Shrub	322	Desmodium gangeticum	Githanaram
				330	Ixora coccinea	Bandhujeevamu
				001	Abrus precatorius	Lal Gunja
-				004	Asparagus sps	Challagadda
				009	Cardiospermum helicabum	Buddakaukara
				011	Cissus quadrangularis	Pirandai
				012	Clitoria ternatea	Vishnukanti soppu, Sankhu Poolu
		3	Climber	017	Gloriosa superba	Kalalavi, Adavi Naabhi, Menthonni,Kalihari
				018	Hemidesmus indicus	Sugandhipaala, Sogadeberu, Anantmul
				026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla
				028	Rubia cordifolia	Manchatti, Monjito, Chiranji, Manderti, Manjistha, Satamul
				034	Withenia somnifera	Ashwagandhi, Pennerugaddi
12	Arunachal	1	Herb	102	Aconitum ferox	Bikh Atees, Bikhumma

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
	Pradesh			103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita
				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				164	Pichorhiza kurooa/ Picrorrhiza Rurroa	Kutki
				176	Swertia chiraita	Chirata
				179	Thysanolaena maxima	Shumjit(Broom)
				236	Captis teeta	Mishmi Teeta
				237	Houttuynia cordata	Siahamang
				332	Justicia gendarussa	Kare lakki/ Tita basak
				378	Berberis aristata	chitra, chotra, dar-chob, dar-hald, darhald, kash-mal, kashmal, kashmar, kasmal, kasmale, kemal, kemal/kasmal, khepacho, rasaunt, rasaut, rasvat, zarishk
		2	Shrub	381	Zanthoxylum armatum	darmar, tejphal, timroo, trimal, tumru, Honam, Yorkhung
			Siliub	387	Caesalpinia bonducella	Lataiguti
				388	Clerodendrum colebrookianum	Ban Bhati
				389	Lavendula vera	Lavender
				390	Potentilla fulgens	Roi-shing
				394	Artemisia nilagirica	Dona
				395	Pelargonium graveolens	Rose scented geranium
		3	Climber	026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla
		3	Ollifibol	028	Rubia cordifolia	Manchatti, Monjito, Chiranji, Manderti, Manjistha, Satamul
				0095	Acquillaria mallaccensis/Aquilaria agallocha	Agar
				0114	Azadirachta indica	Neem
				0258	Cinnamomum tamala/bay leaf	Tejpat
				0259	Cinnamomum wightianum/ zeylanicum	Dalchini
		4	Tree	0403	Elaeocarpus sphaoricus (Elaeocarpus Grantiris)	Rudraksha
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0632	Illicium griffithii	Lissi
				0877	Oroxylum indicum	Archangkawn, Totola
				1162	Taxas baccata	European Yew
				1300	Actinidia deliciosa	Kiwi
18	Assam	1	Herb	103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				120	Centella asiatica	Hnahbial/Lambak, Manimuni
				125	Curcuma caesia	Ailaidum, Black haldhi
				126	Curcuma zedoaria	Manjakoova, Assam haldhi
				143	Homalomena aromatica	Anchiri
				147	Imperata cylindrica	Di, Imom
				168	Rauvolfia serpentina	Sarpagandhi, Atki
				173	Schumannianthus dichotomus	B-Pati bet/ paitara/Mutrak Cane
				238	Chrozophora prostrata	Laham
				239	Spillanthus acmella	Haingos
				240	Premna herbacea	Mati Galdeb
				311	Calamus guruba	B-sundi bet/ Jai bet C- Dhangri bet/Rab bet rani bet
				352	Thysanolaena latifolia	Amliso
		2	Shrub	353	Vitex negundo	Sambhalu, Bana, Sambhalu,Nirgundi, Posotia
				361	Adhatoda vasica	Banasa/Basuti,Adusa, Boga Bahak
				366	Nyctanthes arbortristis	Harsingar,Kuri, Sewali
				003	Asparagus racemosa	Shathavari,Satavar, Satmul
				026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla
		3	Climber	031	Tinospora cordifolia	Giloe, Chittamruthu, Giloy,Guduchi
				033	Tylophora indica	Vallippala,Damabuti,Ananatmool
				048	Smilax china	Chopachinee
				049	Paederia scandens	Paduri Lota
				0032	Adhatoda vasica	Bahak
				0114	Azadirachta indica	Neem
				0158	Bombax species/ Bombax ceiba	Simal
				0204	Canarium resiniferum	Mekruk
				0258	Cinnamomum tamala/bay leaf	Tejpat
		4	Tree	0259	Cinnamomum wightianum/ zeylanicum	Dalchini
		T	1100	0315	Curcuma aromatica	Keturi
				0346	Deienia Indica	Dieng-soh-karbam, Papada
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0515	Garcinia cowa	Thekera
				0609	Hydnocarpus kurzii	Khawitur
				1075	Sapindus mukurossi	Wash nut ,Ritha
				1096	Shorea robusta	Sal

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				1167	Terminalia arjuna	Arjun
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				1356	Livistona jendkinsiana	Toko Patta
				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				121	Chlorophytum borivillianum/ Chorophytum tubersum baker	Saphed Musali
		1	Herb	129	Cyperus rotundus	Muthanga, Bhadra mustee, Nagaramotha
				156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				185	Venonia anthelmintica	Vanjeera
				314	Cassia tora	Charota, Puwad Seeds
		2	Shrub	323	Embelica tsjerium-cottam	Baibiding
				356	Woodfordia fruticosa	Dhawai Flower,Dhawi
		3	Climber	001	Abrus precatorius	Lal Gunja
				003	Asparagus racemosa	Shathavari,Satavar, Satmul
				005	Bauhinia vahlii	Mahul, Siali leaves
22	Chhatisgarh			010	Celastrus paniculatus	Malkangini, Black oil plant
				031	Tinospora cordifolia	Giloe, Chittamruthu, Giloy,Guduchi
				0037	Aegla Marmelos	Bael
				0074	Anacardium occidentale	Kaju
				0081	Anogeissus latifolia	Dhawada
				0170	Buchanania Lanzan	Char seed, Chironji
				0173	Butea monosperma	Dhak, Palash
				0353	Diospyros melanoxylon	Coromendel Ebony, Tendu
		4	Tree	0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0590	Holarrhea antidysenterica	Kutaj
				0759	Madhuca indica	Mahudo, Amba, Mango,Mahua
				1096	Shorea robusta	Sal
				1160	Tamarindus indica	Tamarind
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				1287	Ziziphus mauritiana/jujuba	Ber
				193	Cassia tora	Panwar
07	Delhi	1	Herb	198	Vernonia cininea	
	23	·		199	Blepharis maderaspatensis	

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				200	Boerhavia diffusa	
				201	Evolvulus alsiniodes	
				202	Peristrophe paniculata	
				203	Tephrosia purpuria	
				204	Tridex procumbens	
				205	Sida cordata	
				206	Parthenium hysterophorus	
				207	Triumfetta rhomboidea	
				208	Aerva sanguinolanta	
				209	Physalia minima	
				210	Blumea lacera	
				349	Securinega leucopyrus	Kari Huli
				364	Capparis aphylla/ decidua	Kair/Kareer
				369	Capparis sepiaria	
				370	Grewia tenax	
			Oll-	371	Carissa opaca	
		2	Shrub	372	Flacouttia indica	
				373	Maytenus senegalensis	
				374	Clerodendrum phlomidis	
				375	Dichrostachys cineria	
				376	Lantana camara	
				035	Zizyphus oenoplea	Pariki
				040	Pupalia lappacea	
		3	Climber	041	Ipomoea eriocarpa	
				042	Cissampelos pariera	
				043	Jasminum multiflorum	
		4	Tree	0495	Flacourtia indica	
				142	Holarrhena antidysenterica	Pandhra Kuda
		1	Herb	156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				168	Rauvolfia serpentina	Sarpagandhi, Atki
	_			235	Datura stramonium	Dasusa
30	Goa	#		353	Vitex negundo	Sambhalu, Bana, Sambhalu,Nirgundi, Posotia
		2	مار سام	361	Adhatoda vasica	Banasa/Basuti,Adusa, Boga Bahak
		2	Shrub	391	ixora arborea	Rai kuda
				392	Thevetia peruvivana	Arakafal
				393	Cassia angustifolia	Sona mukhi
		4	Tree	0007	Acacia catechu	khair

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				0037	Aegla Marmelos	Bael
				0079	Ananous squamosa	Sitafal,Setha
				0105	Artocarpus lakoocha/lacucha	Oatamb
				0173	Butea monosperma	Dhak, Palash
				0217	Carissa carandas	Kilakoy
				0219	Carytaurens	Birla mad
				0226	Cassia fistula/ Sp.	Casia fistula, Amaltas
				0259	Cinnamomum wightianum/ zeylanicum	Dalchini
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0517	Garcinia indica	Kokum
				0609	Hydnocarpus kurzii	Khawitur
				0817	Moringa olifera	Sajina
				1136	Syzigium cumini	Jamun
				1167	Terminalia arjuna	Arjun
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				1173	Terminalia crenulata/tomentosa	Matti
				1176	Terminalia paniculata	Kindal
				1268	Xylia xylocarpa	zamba
				1287	Ziziphus mauritiana/jujuba	Ber
		1	Herb	156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				190	Curculigo orchiodes	Nallathadi,Kali musali
				213	Eclipta alba	Bhringraj
				234	Asparagus adscendens	Musli
				314	Cassia tora	Charota, Puwad Seeds
				316	Commiphora wightii	Guggul
24	Gujarat	2	Shrub	354	Wihania somnifera	Ashwingandha, Ashwagandha, Agsend, Asgandha
				363	Calotropis procera	Aak,Madar, Aakda Mul
				386	Alkanna tinctoria	Ratanjyot Seeds
				0005	Acacia arabica	Bawal
				0007	Acacia catechu	khair
		4	Tree	0037	Aegla Marmelos	Bael
				0081	Anogeissus latifolia	Dhawada
				0114	Azadirachta indica	Neem
				0170	Buchanania Lanzan	Char seed, Chironji

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				0173	Butea monosperma	Dhak, Palash
				0226	Cassia fistula/ Sp.	Casia fistula, Amaltas
				0353	Diospyros melanoxylon	Coromendel Ebony, Tendu
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0526	Garuga pinnata	Moina Gum
				0590	Holarrhea antidysenterica	Kutaj
				0759	Madhuca indica	Mahudo, Amba, Mango, Mahua
				0959	Prosopis juliflora	Jangali Babul Gum
				1073	Sapindus emarginatus	Boonthikottai, Neikotan, Ritha, Aritha, Chootokoi, Kumkuda,Soapnut
				1115	Sterculia urens	Tapasi,kadhaya
				1136	Syzigium cumini	Jamun
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				101	Achyranthes aspera	Kempu, Utrani gida,Puth kanda
				103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita
		1	Herb	156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				192	Artemesia vulgaris	Khima
				193	Cassia tora	Panwar
				194	Chinopodium album	Bathu
				195	Datura alba	Dhatura
				196	Sida cordifolia	Balu,Kungi
				197	Tephrosia purpurea	Jhojuru,Sarphoka
06	Haryana			327	Helicteres isora	Edamuri,Marorphali
				350	Solanum nigrum	Makoi,Kandai
				353	Vitex negundo	Sambhalu, Bana, Sambhalu,Nirgundi, Posotia
				354	Wihania somnifera	Ashwingandha, Ashwagandha, Agsend,Asgandha
				356	Woodfordia fruticosa	Dhawai Flower,Dhawi
		2	Shrub	360	Abutilom indicum	Pathaka/Petari
				361	Adhatoda vasica	Banasa/Basuti,Adusa, Boga Bahak
				362	Asparagus adscendens	Hazar muli
				363	Calotropis procera	Aak,Madar, Aakda Mul
				364	Capparis aphylla/ decidua	Kair/Kareer
				365	Indigofera pulchella	Neel
				366	Nyctanthes arbortristis	Harsingar,Kuri, Sewali

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				367	Tribulus alatus	Bhankhari
				001	Abrus precatorius	Lal Gunja
				005	Bauhinia vahlii	Mahul, Siali leaves
				010	Celastrus paniculatus	Malkangini, Black oil plant
		3	Climber	031	Tinospora cordifolia	Giloe, Chittamruthu, Giloy,Guduchi
				036	Cucumis pubescens	Kachri
				037	Dioscorea belophylla	Turar
				038	Momordica charantia	Jangali karela
				039	Coccinia cordifolia	Kundra
				153	Nardostachys jatamansi	Jatamansi
				164	Pichorhiza kurooa/ Picrorrhiza Rurroa	Kutki
				165	Podophyllum hexandrum	Ban kakri
				176	Swertia chiraita	Chirata
				189	Aconitum heterophyllum	Nilo Bikh/Aconite, monkshood,
				218	Angelica glauca	Smooth Angelica , chohor, chora , Chora, Choru
				219	Arnebia benthamii	Himalayan Arnebia
		1	1 Herb	220	Bergenia stracheyi	Himalayan Bergenia, Pashanbheda, Shilpada, Pashanbheda
				221	Carum carvi	jangi dhania, jeerka, jeero, kalazera, kalazira, kalazird, shiajira, siya jeera, zira
02	Himachal			222	Eulaliopsis binata	babar grass, babni, babula, bagar, baggar, bhabar, bhabar grass, bhabbar, bhabhar, sabai, sabai grass,
02	Pradesh			223	Hedychium acuminatum Roscoe	Vanhaldi,Kapurkachri,Shati,kachur
				224	Jurenia dolomiaea	Himalayan Dolomiaea ,Dhup
				225	Salvia moorcroftiana	thuth, tuth
				226	Saussurea costus	Costus,Kuth
				227	Trillidium govanianum	Himalayan Trillium
				228	Valeriana Jatamansi	Jatamansi, balchhari, mansi, nihani, smak, sumaya, tagar, jatale, naati jatamaansi, nandu batlu, tagara, thagar mool, shadamangie, takaram ,tagara
				229	Viola pilosa/Voila serpens	Thungtu, Banafsha, Bili Kaamakasthoori
				328	Hippophae rhamnoides	Kempu Huli
		2	Shrub	378	Berberis aristata	chitra, chotra, dar-chob, dar-hald, darhald, kash-mal, kashmal, kashmar, kasmal, kasmale, kemal, kemal/kasmal, khepacho, rasaunt, rasaut, rasvat, zarishk

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				379	Ephedra gerardiana WALL.	ain, khanta, somlata, torgatha, tutgautha
				380	Skimmia laureola	gurl patta, kali, kedar patti, kedarpaiti, nayr, nyan, shashra, shashru, shuru
				381	Zanthoxylum armatum	darmar, tejphal, timroo, trimal, tumru, Honam, Yorkhung
				005	Bauhinia vahlii	Mahul, Siali leaves
				015	Dioscorea alata/deltoidea	Yam,harvish,Jami Jung kinch
				031	Tinospora cordifolia	Giloe, Chittamruthu, Giloy,Guduchi
		3	Climber	045	Pueraria tuberosa	Indian kudzu, Nepalese kudzu, Sural, Bilaikand, Bharda, Tirra, Bankumra, Shimia batraji, Ghorbel, Vidarikand, Darigummadi, Gumadigida, Mutukku, Bhukushmandi
		4	Tree	0883	Dactylorhiza hatagirea	saalab panja, saalab panja special, saalampanja, salaab panja gulabi, salaab panja safed, salam panjo, salampanja, salampanja nepali, salampunja
				1366	Junipures communis	aaraar, bither, guggal, haubera, jhora, padmak
		5	Bamboo	2023	Dendrocalamus hamiltonii	Pecha
		-		2055	Bambusa nutans	Kai
		1	Herb	109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				168	Rauvolfia serpentina	Sarpagandhi, Atki
				176	Swertia chiraita	Chirata
		2	Shrub	356	Woodfordia fruticosa	Dhawai Flower,Dhawi
				003	Asparagus racemosa	Shathavari,Satavar, Satmul
		3	Climber	016	Embelia ribes	Vavding
				034	Withenia somnifera	Ashwagandhi, Pennerugaddi
				0007	Acacia catechu	khair
				0037	Aegla Marmelos	Bael
20	Jharkhand			0114	Azadirachta indica	Neem
				0143	Bauhinia vahil	Adda leaves, Mahulan patta
				0170	Buchanania Lanzan	Char seed, Chironji
				0173	Butea monosperma	Dhak, Palash
		4	Tree	0353	Diospyros melanoxylon	Coromendel Ebony, Tendu
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0759	Madhuca indica	Mahudo, Amba, Mango, Mahua
				0768	Mengifera/Mangifera indiaca	Aam
				0949	Pongamia glabra/pinnata	Karanj
				1086	Schleichera oleosa	Kusum seed

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				1096	Shorea robusta	Sal
				1115	Sterculia urens	Tapasi,kadhaya
				1136	Syzigium cumini	Jamun
				1160	Tamarindus indica	Tamarind
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				101	Achyranthes aspera	Kempu, Utrani gida, Puth kanda
				107	Anagallis arvensis	Surya Kanti Soppu,Blue Pimpernel, Kali Fuladi, Chanakchibhadi
				110	Anethum sowa	Sabbasagi,sowa, soya, soyah, suva
				111	Anisochilus carnosus	Doddapatri gida
				124	Curcuma aromatica	Wild turmeric
				128	Cymbopogan citrates	Bothaipul(or) lemon gram, Kavadu grams
				133	Eclipta prostrata	Kaadigegarige, Garugala
		1	Herb	136	Fagonia cretica	Nela Ingaa
			11010	139	Heliotropium indicum	Bangali gida
				152	Mollugo cerviana	Paripastak
				156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				160	Phyla nodiflora	Neeru hippoli
29	Karnataka	1		162	Phyllanthus maderaspatensis	Kiranelli
				175	Solanum surattense	Ramgolla
				187	Zingiber officinale	Sunti
				313	Cassia senna	Sonamukhi
<i>A</i> -				317	Corchorus capsularis	Jute
				327	Helicteres isora	Edamuri,Marorphali
			Chh	328	Hippophae rhamnoides	Kempu Huli
		2	Shrub	331	Justicia adhatoda	Adathoda, Kawaldai
				332	Justicia gendarussa	Kare lakki/ Tita basak
				338	Osmanthus fragrans	Gouri Gida
				349	Securinega leucopyrus	Kari Huli
				003	Asparagus racemosa	Shathavari,Satavar, Satmul
				012	Clitoria ternatea	Vishnukanti soppu, Sankhu Poolu
			3 Climber	014	Decalepis hamiltonii	Makli Beru
		3		018	Hemidesmus indicus	Sugandhipaala, Sogadeberu, Anantmul
				026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla

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				029	Scindapsus officinalis	Kerehippoli
				103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita
				106	Alpinia galanga	Kolinji
				116	Biophytum species	Mukkuti
				126	Curcuma zedoaria	Manjakoova, Assam haldhi
				129	Cyperus rotundus	Muthanga, Bhadra mustee, Nagaramotha
				145	Hydrocotyle asiatica	Kudangal
		1	Llowb	148	Kaemperia galanga	Kacholam, Chandramoola
		ı	Herb	155	Nervilia aragoana	Orilathamara
				156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				161	Phyllanthus amarus	Keezha nelli, Bhumi amla
				168	Rauvolfia serpentina	Sarpagandhi, Atki
				170	Ruta graveolens	Sathappu, Arootha
				186	Vetiveria zinzanioides	Vetiver, Ramacham
20				322	Desmodium gangeticum	Githanaram
32	Kerala	2	Shrub	335	Nilgirianthes ciliatus	Karimkurinji
				347	Salacia sps	Ekanayakam, Ponkoranti
				002	Aristolochia indica	Karalakam
				003	Asparagus racemosa	Shathavari,Satavar, Satmul
				013	Coscinium fenestratum	Maramanjal
				017	Gloriosa superba	Kalalavi, Adavi Naabhi, Menthonni,Kalihari
				018	Hemidesmus indicus	Sugandhipaala, Sogadeberu, Anantmul
				019	Holostemma adakodien	Adapathiyan
			G., .	021	Ipomoea pestigridis	Pulichuvadi
		3	Climber	024	Mukia scabra	Karthoti
				026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla
				027	Pseudarthria viscida	Moovila
				028	Rubia cordifolia	Manchatti, Monjito, Chiranji, Manderti, Manjistha, Satamul
				031	Tinospora cordifolia	Giloe, Chittamruthu, Giloy,Guduchi
				032	Trichosanthus cucumerina	Kaipanpadavalam
				033	Tylophora indica	Vallippala,Damabuti,Ananatmool
23	Madhya Pradesh	1	Herb	103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita

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				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				121	Chlorophytum borivillianum/ Chorophytum tubersum baker	Saphed Musali
				123	Cucurma augustifolia	Tikhur, Arrow root
				129	Cyperus rotundus	Muthanga, Bhadra mustee, Nagaramotha
				233	Costus Specious	Kevuk
				315	Clerodendrum serratum	Bharangi
				327	Helicteres isora	Edamuri,Marorphali
				341	Plumbago zeylanica	Pandhara chitrak,Chitraal
		2	Shrub	382	Uraria picta	Prisnaparni
				383	Asparagus raecemosus	Satavari
				384	Rauvolifia serpentine	Sarpagandha
				385	Baliosperum montanum	Danti
				010	Celastrus paniculatus	Malkangini, Black oil plant
				017	Gloriosa superba	Kalalavi, Adavi Naabhi, Menthonni,Kalihari
				028	Rubia cordifolia	Manchatti, Monjito, Chiranji, Manderti, Manjistha, Satamul
		3	3 Climber	031	Tinospora cordifolia	Giloe, Chittamruthu, Giloy,Guduchi
				033	Tylophora indica	Vallippala,Damabuti,Ananatmool
				046	Ceropegia bulbosa	Daruhaldi
				047	Gymnema syvestre	Gudmar
				0160	Boswellia serrata	Sallar, Salai, Salar, Gugal, Salasi, Anduk, Guggar
				0170	Buchanania Lanzan	Char seed, Chironji
				0277	Commiphora mukul	Gugul
4				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
		4	Tree	0738	Litsea glutinosa	Maida lakri
				0877	Oroxylum indicum	Archangkawn, Totola
				1118	Stereospermum colais	Padal
				1167	Terminalia arjuna	Arjun
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita
27	Maharashtra	1	Herb	105	Aloe barbadensis/aloe vera	Kalabanda,Ghritkumari
				117	Boerhavia repens (L.)	Punarnava
				120	Centella asiatica	Hnahbial/Lambak, Manimuni

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				121	Chlorophytum borivillianum/ Chorophytum tubersum baker	Saphed Musali
				129	Cyperus rotundus	Muthanga, Bhadra mustee, Nagaramotha
				138	Gymmema sylvestre	Gudmar
				142	Holarrhena antidysenterica	Pandhra Kuda
				146	Hygrophila schulli	Talimkhana
				156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				161	Phyllanthus amarus	Keezha nelli, Bhumi amla
				168	Rauvolfia serpentina	Sarpagandhi, Atki
				177	Symplocos recemosa	Lodhara
				180	Tinospora cordifolia	Gulvel
				301	Acacia concina/acacia sinuata	Sikakai
				313	Cassia senna	Sonamukhi
				315	Clerodendrum serratum	Bharangi
				316	Commiphora wightii	Guggul
				325	Glycyrrhiza glabra	Jesthmadh,Mulethi
		2	Shrub	327	Helicteres isora	Edamuri,Marorphali
			3	336	Nothapodytes nimmoniana	Narkia
				340	Plantago ovate	Isabgol
				341	Plumbago zeylanica	Pandhara chitrak,Chitraal
				350	Solanum nigrum	Makoi,Kandai
				354	Wihania somnifera	Ashwingandha, Ashwagandha, Agsend,Asgandha
				001	Abrus precatorius	Lal Gunja
				003	Asparagus racemosa	Shathavari,Satavar, Satmul
				016	Embelia ribes	Vavding
		3	Climber	017	Gloriosa superba	Kalalavi, Adavi Naabhi, Menthonni,Kalihari
				018	Hemidesmus indicus	Sugandhipaala, Sogadeberu, Anantmul
				028	Rubia cordifolia	Manchatti, Monjito, Chiranji, Manderti, Manjistha, Satamul
				0007	Acacia catechu	khair
				0037	Aegla Marmelos	Bael
		4	Tree	0170	Buchanania Lanzan	Char seed, Chironji
				0173	Butea monosperma	Dhak, Palash
		1		0194	Callophyllum inophyllum	Undi

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				0226	Cassia fistula/ Sp.	Casia fistula, Amaltas
				0258	Cinnamomum tamala/bay leaf	Tejpat
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0517	Garcinia indica	Kokum
				0539	Gmelina arborea	Shivan
				0650	Saraca asoca	Ashoka
				0795	Mesua ferrea	Nagakesar
				0839	Myristica fragrans	Jayphal
				0949	Pongamia glabra/pinnata	Karanj
				0976	Pterocarpus marsupium	Bibla/Bija
				0977	Pterocarpus santalinus	Raktachandan
				1071	Santalum album	Chandan
				1089	Semecarpus anacardium	Bibba
				1118	Stereospermum colais	Padal
				1136	Syzigium cumini	Jamun
				1171	Terminalia chebula	Harra
				1351	Casearia championii	Saptarangi
				1360	Premna obtusifolia	Airan
				103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita
				104	Agaricus species	Mushroom
		1	Herb	120	Centella asiatica	Hnahbial/Lambak, Manimuni
				147	Imperata cylindrica	Di, Imom
				149	Kampferia rotunda	Yaithamnamanbi
				159	Panax pseudoginseng	Ginseng
				179	Thysanolaena maxima	Shumjit(Broom)
				304	Calamus arborescenes	Lee
· ·				306	Amomum subulatum	Bara Elaichi(Wild cardamom)
14	Manipur			310	Calamus flagellum	Liren
	Mampa			318	Costus speciosus	Sumbul
		2	Shrub	333	Litsaea polyantha	Tumitla
				339	Paris polyphyia	Sing pan
			<i>y</i>	344	Ricinus communis	kege
				348	Sapindus tritiliatus	Kekru
		3		006	Calamus floribundus	C-Beat, Lee
				007	Calamus latifolius	Likhel
			Climber	015	Dioscorea alata/deltoidea	Yam,harvish,Jami Jung kinch
				026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla
				030	Smilex macrophylla	Kwamanbi

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		4		0095	Acquillaria mallaccensis/Aquilaria agallocha	Agar
				0158	Bombax species/ Bombax ceiba	Simal
				0204	Canarium resiniferum	Mekruk
				0258	Cinnamomum tamala/bay leaf	Tejpat
			Tree	0262	Citrus latipes	Heiribob
		4		0401	Elaeocarpus serratus	Chorphon
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0516	Garcinia peduculata	Heibung
				0902	Parkia javancia/ timoriana	Yongchak
				1162	Taxas baccata	European Yew
				1172	Terminalia citrina	Manahi
				2015	Calamus Erectus	Lee manbi
		6	Cane	2018	Calamus leptospadix	Lee
				2022	Calamus tenuis	Rngijali/Patli
		1	Herb	151	Lycopodium Spp/ Lycopodium clavatum	Lycopodium
		1	Herb	178	Thatch Grass	Coolatai grass
				181	Topchini	Chopchini
		2	Shrub	324	Ficus Hispida	Kagsha
				355	Wild Pepper / Piper sarmentosum	N.A.
			X	0037	Aegla Marmelos	Bael
				0095	Acquillaria mallaccensis/Aquilaria agallocha	Agar
				0115	Acacia	Wattle bark
17	Meghalaya			0141	Bauhinia variegate/Phanera varigeta	Ebony tree
				0153	Betula Alnoides	Himalayan or Indian Birch
		4	Tree	0158	Bombax species/ Bombax ceiba	Simal
		4	1166	0215	Careya arborea	kumbhi
				0258	Cinnamomum tamala/bay leaf	Tejpat
				0346	Deienia Indica	Dieng-soh-karbam, Papada
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0558	Gynocardia Ordorata	Chhal Mogra
				0826	Myrica esculenta	Bay Berry
			ı	1168	Terminalia belerica	Bahera
				1362	Balanites maughamii	(Torch wood)

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				115	Bergenia ciliate	Kham damdawi, Pakhanbeth
				120	Centella asiatica	Hnahbial/Lambak, Manimuni
				125	Curcuma caesia	Ailaidum, Black haldhi
		4	l la de	143	Homalomena aromatica	Anchiri
		1	Herb	147	Imperata cylindrica	Di, Imom
				150	Lindernia ruellioides	Thasuih
				172	Securinega virosa	Sisiak
				179	Thysanolaena maxima	Shumjit(Broom)
				305	Clerodendron colebrookianum	Glory bower
			_	318	Costus speciosus	Sumbul
		2	Shrub	326	Hedyotes scandens	Kelhamtur/Laikingtuibur
				331	Justicia adhatoda	Adathoda, Kawaldai
				334	Mimosa pudica	Hlonuar
		2	Olimak a r	800	Calamus spp.	Hruihnang
		3	Climber	016	Embelia ribes	Vavding
				0068	Alstonia scholaris	Thuamriat
15	Mizoram			0095	Acquillaria mallaccensis/Aquilaria agallocha	Agar
				0112	Averrhoa carambola	Theiherawt
				0347	Dillenia pentagyna	Kawmkaw/Kaihzawl
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
		4	Tree	0609	Hydnocarpus kurzii	Khawitur
				0650	Saraca asoca	Ashoka
				0877	Oroxylum indicum	Archangkawn, Totola
				0902	Parkia javancia/ timoriana	Yongchak
				0963	Protium serratum	Bil thei
				1110	Spondias pinnata	Hog-plum Tree
				1352	Cinamomum verum	Thakthing
				1355	Helicia robusta	Pasaltakaza
				1357	Macropanax undulatus	Phuanberh
				2010	Bambusa spp.	Rua
		5	Bamboo	2026	Dendrocalamus spp.	Bamboo
		3	Daniboo	2028	Melocana baccifera	Muli, Bamboo
				2063	Teinostachyum dullooa	Bamboo
				113	Artimessia nilagaricum	Mugwort
				118	Calocasia esculentum	N.A.
13	Nagaland	1	Herb	123	Cucurma augustifolia	Tikhur, Arrow root
13	I vagalaliu	1	Hein	159	Panax pseudoginseng	Ginseng
				166	Polygonum capitatum	Pinkhead smartweed
				167	Promodica musa	N.A.

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				169	Reccinus cummunis	Castor bean
				179	Thysanolaena maxima	Shumjit(Broom)
				188	Zanthoxylum aromaticum	N.A.
				305	Clerodendron colebrookianum	Glory bower
		2	Shrub	309	Butea minor	N.A.
				339	Paris polyphyia	Sing pan
				346	Rubus ellipticus	Hinsal
		3	Climber	003	Asparagus racemosa	Shathavari,Satavar, Satmul
		3	Climber	025	Paederia foetida	Skunk vine
				0204	Canarium resiniferum	Mekruk
				0258	Cinnamomum tamala/bay leaf	Tejpat
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0651	Juglans regia	Akhrot
		4	Tree	0718	Litsea citara	Chinese Pepper
		4	Tree	0877	Oroxylum indicum	Archangkawn, Totola
				1038	Rhododendron arborium	Burans
				1044	Rhus Semialata	Nut gall
				1162	Taxas baccata	European Yew
				1354	Docynia indica	Assam Apple
				1356	Livistona jendkinsiana	Toko Patta
		5	Bamboo	2012	Bambusa tulda	Mirtinga
		6	Cane	2015	Calamus Erectus	Lee manbi
				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				114	Atylosia scarabaeoides	Bana Kolthi
				123	Cucurma augustifolia	Tikhur, Arrow root
				135	Euliopsis binata	Sabai Grass
		1	Herb	156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
21	Orissa			158	Oscimum bassilicum	Landa baguli,Van tulsi
				168	Rauvolfia serpentina	Sarpagandhi, Atki
				179	Thysanolaena maxima	Shumjit(Broom)
				184	Vanda tascelleleta	Rasana root
		2	Shrub	301	Acacia concina/acacia sinuata	Sikakai
				356	Woodfordia fruticosa	Dhawai Flower,Dhawi
				003	Asparagus racemosa	Shathavari, Satavar, Satmul
		3	Climber	005	Bauhinia vahlii	Mahul, Siali leaves
				018	Hemidesmus indicus	Sugandhipaala, Sogadeberu,

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						Anantmul
				020	Ichnocarpus fruitiscens	Suam lai
				023	Mucuna pruriens	Baidanka
				0114	Azadirachta indica	Neem
				0170	Buchanania Lanzan	Char seed, Chironji
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0759	Madhuca indica	Mahudo, Amba, Mango,Mahua
				0877	Oroxylum indicum	Archangkawn, Totola
			_	0949	Pongamia glabra/pinnata	Karanj
		4	Tree	1086	Schleichera oleosa	Kusum seed
				1089	Semecarpus anacardium	Bibba
				1096	Shorea robusta	Sal
				1125	Strychnos nuxvomica	Nux Vomica
				1160	Tamarindus indica	Tamarind
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
		1	Herb	190	Curculigo orchiodes	Nallathadi,Kali musali
				211	Panchystoma senile	
				212	Urginea indica	Koli kaanda, Jungli pyaz.
				341	Plumbago zeylanica	Pandhara chitrak,Chitraal
		2	Shrub	354	Wihania somnifera	Ashwingandha, Ashwagandha, Agsend, Asgandha
				364	Capparis aphylla/ decidua	Kair/Kareer
				377	Pandnus odoratissimus	
				0037	Aegla Marmelos	Bael
				0079	Ananous squamosa	Sitafal,Setha
00	D=:==#b==			0128	Balanites aegyptica	Hingota,Hingot
08	Rajasthan			0160	Boswellia serrata	Sallar, Salai, Salar, Gugal, Salasi, Anduk, Guggar
				0173	Butea monosperma	Dhak, Palash
				0277	Commiphora mukul	Gugul
		4	Tree	0282	Cordia dichotoma (Old) Cordia obliqua	Gundi, Samar, Bhokar, Lassora, Lessor,Gundha
				0285	Cordia gharaf	Gondi,Gundhi
				0353	Diospyros melanoxylon	Coromendel Ebony, Tendu
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0487	Ficus glomerata/ racemosa	Umbro,Gular
				0546	Grewia flavescens	Guthu,Charpen
				0759	Madhuca indica	Mahudo, Amba, Mango, Mahua

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				0765	Mallotus philippensis	Rehini, Sindhuri, Ruina, Rolli, Rohni,Kamela , Kaplo, Kalujhade, Kanku, Kumkum, Kamalagundi, Shendri, Kukkum, Kabli, Anato
				1073	Sapindus emarginatus	Boonthikottai, Neikotan, Ritha, Aritha, Chootokoi, Kumkuda,Soapnut
				1115	Sterculia urens	Tapasi,kadhaya
				1168	Terminalia belerica	Bahera
				1250	Wrightia arborea/ Wrightia tomentosa	Dhudi, Dasla, Dark, Palakodsa, Kuda, Tambada,khirni
				1365	Rhus mysorensis	Dasrun
		5	Bamboo	2065	Bambusa arundinacea	Bans
				102	Aconitum ferox	Bikh Atees, Bikhumma
				103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita
				104	Agaricus species	Mushroom
				105	Aloe barbadensis/aloe vera	Kalabanda,Ghritkumari
				115	Bergenia ciliate	Kham damdawi, Pakhanbeth
				131	Diplagium species	Ningro
				140	Heracleum wallichi	Chimphing
		1	Herb	153	Nardostachys jatamansi	Jatamansi
				154	Nephrolepis species	Pani Amla
				157	Orchis latifolia	Panchamley
				164	Pichorhiza kurooa/ Picrorrhiza Rurroa	Kutki
				165	Podophyllum hexandrum	Ban kakri
11	Sikkim			176	Swertia chiraita	Chirata
				182	Tupistra nutans	Nakima
				183	Urtica dioca	Sisnoo
				189	Aconitum heterophyllum	Nilo Bikh/Aconite, monkshood,
				342	Polygonum sp.	Thotney
		2	Shrub	343	Rhododendron anthopogan	Sunpati
		_	Siliub	352	Thysanolaena latifolia	Amliso
				357	Zanthoxylum acanthopodium	Bokey Timbur
		3	Climber	017	Gloriosa superba	Kalalavi, Adavi Naabhi, Menthonni,Kalihari
				028	Rubia cordifolia	Manchatti, Monjito, Chiranji, Manderti, Manjistha, Satamul
		4		0615	Hipphophae salicifolia	Aachuk
			Tree	0654	Juniper recurva	Dhup
				0749	Machilus edulis	Pomsee, kawla

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				0877	Oroxylum indicum	Archangkawn, Totola
				1109	Spondias axillaris	Lapsi
		5	Bamboo	2010	Bambusa spp.	Rua
		6	Cane	2021	Calamus spp.	Cane Shoot
				112	Aristida setacea	Poochka Gaddi, Cheepuru Gaddi
				128	Cymbopogan citrates	Bothaipul(or) lemon gram, Kavadu grams
		1	Herb	134	Eugenia aromatic	Clover
				141	Heteropogon contortus	Sambal grams
				171	Saccharum spontaneum	Thatching grams
				186	Vetiveria zinzanioides	Vetiver, Ramacham
		2	Shrub	301	Acacia concina/acacia sinuata	Sikakai
				351	Solanum toruvm	Sundaikai
		3	Climber	001	Abrus precatorius	Lal Gunja
			Cilitibei	011	Cissus quadrangularis	Pirandai
				0050	Albizia amara	Oocil(usil) leaver
				0074	Anacardium occidentale	Kaju
				0079	Ananous squamosa	Sitafal,Setha
				0158	Bombax species/ Bombax ceiba	Simal
33	Tamilnadu			0159	Borassus flabellfier	Tad
	rammada			0177	Bassia latifolia	Illuppai
				0217	Carissa carandas	Kilakoy
		4		0258	Cinnamomum tamala/bay leaf	Tejpat
				0346	Deienia Indica	Dieng-soh-karbam, Papada
			Tree	0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0825	Murraya koenigii	Karripata
<i>(</i> **)				0919	Phoenix sylvestris	khajuri
				1020	Quercus spp.	Machakoy
				1073	Sapindus emarginatus	Boonthikottai, Neikotan, Ritha, Aritha, Chootokoi, Kumkuda,Soapnut
				1160	Tamarindus indica	Tamarind
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				1287	Ziziphus mauritiana/jujuba	Ber
				1328	Cinnamommum camphora	Karpuram
				101	Achyranthes aspera	Kempu, Utrani gida,Puth kanda
36	Telangana	1	Herb	105	Aloe barbadensis/aloe vera	Kalabanda,Ghritkumari
				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg

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				112	Aristida setacea	Poochka Gaddi, Cheepuru Gaddi
				120	Centella asiatica	Hnahbial/Lambak, Manimuni
				127	Cyclea peltata	Paatathige
				129	Cyperus rotundus	Muthanga, Bhadra mustee, Nagaramotha
				130	Datura innoxia	Ummetha
				132	Drosera peltata	Kocu vetti
				148	Kaemperia galanga	Kacholam, Chandramoola
				156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				168	Rauvolfia serpentina	Sarpagandhi, Atki
				174	Solanum nigrum	Kasaka,Makoy
				190	Curculigo orchiodes	Nallathadi,Kali musali
				191	Curcuma pseudomontana	Adavi pasapu
				321	Datura metal	Nallaummatha
		2	Shrub	322	Desmodium gangeticum	Githanaram
				330	Ixora coccinea	Bandhujeevamu
				001	Abrus precatorius	Lal Gunja
				004	Asparagus sps	Challagadda
				009	Cardiospermum helicabum	Buddakaukara
				011	Cissus quadrangularis	Pirandai
				012	Clitoria ternatea	Vishnukanti soppu, Sankhu Poolu
		3	Climber	017	Gloriosa superba	Kalalavi, Adavi Naabhi, Menthonni,Kalihari
				018	Hemidesmus indicus	Sugandhipaala, Sogadeberu, Anantmul
				026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla
				028	Rubia cordifolia	Manchatti, Monjito, Chiranji, Manderti, Manjistha, Satamul
				034	Withenia somnifera	Ashwagandhi, Pennerugaddi
				035	Zizyphus oenoplea	Pariki
				1086	Schleichera oleosa	Kusum seed
			<i>P</i>	1089	Semecarpus anacardium	Bibba
				1115	Sterculia urens	Tapasi,kadhaya
		4	Tree	1119	Stereospermum suaveolens	Padal
				1125	Strychnos nuxvomica	Nux Vomica
				1126	Strychnos patatorum	Chilla
				1128	Soymida febrifuga	Rohan
				1136	Syzigium cumini	Jamun

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				1160	Tamarindus indica	Tamarind
				1167	Terminalia arjuna	Arjun
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				1287	Ziziphus mauritiana/jujuba	Ber
				1363	Ximenia Americana	Nakeera
				119	Cardamum ammomum	Bara Ilaichi
				144	Homalouema aromatic	Gndhaki
		1	Herb	173	Schumannianthus dichotomus	B-Pati bet/ paitara/Mutrak Cane
				179	Thysanolaena maxima	Shumjit(Broom)
		2	Shrub	311	Calamus guruba	B-sundi bet/ Jai bet C- Dhangri bet/Rab bet rani bet
				320	Daemonorops jenkinsiana	C-Gala/ Assam bet
		3	Climber	006	Calamus floribundus	C-Beat, Lee
		3	Cilitibei	023	Mucuna pruriens	Baidanka
				2002	Bambusa bambos	Kanta Bans
				2003	Bambusa balcoa	Barak
				2008	Bambusa	Makal
				2012	Bambusa tulda	Mirtinga
				2023	Dendrocalamus hamiltonii	Pecha
				2024	Dendrocalamus longispathus	Rupai
16	Tripura			2027	Dendrocalamus strictus	Lathi Bans
			5 Bamboo	2028	Melocana baccifera	Muli, Bamboo
		5		2052	Bambusa cacharensis	Bom/bethua bans
				2053	Bambusa Jaintiana	Tetua
				2054	Bambusa multiplex	Nan/Hedge bamboo
				2055	Bambusa nutans	Kai
				2056	Bambusa polymorpha Munro	Paura
				2059	Oxytenanthera nigrociliata/Gigantochola Nogrociliata	Kalyai
				2061	Schizostachyum dulloa	Dolu
	_			2064	Thyrosostachys oliveri	Kanaak kaich
				2015	Calamus Erectus	Lee manbi
		6	0	2017	Calamus latifolius	C-bhudum bet
		U	Cane	2022	Calamus tenuis	Rngijali/Patli
				2058	Calamus viminalis	C-karak/ Bora bet
09	09 Uttar	1	Herb	103	Acorus calamus	Okhidak, Vekhand,Bach,Vach,Sweet flag, Bojo, Bokha, Sita
	Pradesh			105	Aloe barbadensis/aloe vera	Kalabanda,Ghritkumari

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				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				121	Chlorophytum borivillianum/ Chorophytum tubersum baker	Saphed Musali
				138	Gymmema sylvestre	Gudmar
				158	Oscimum bassilicum	Landa baguli,Van tulsi
				163	Phyllanthus niruri/ Phyllanthus fraternus	Bhumi amla
				168	Rauvolfia serpentina	Sarpagandhi, Atki
				174	Solanum nigrum	Kasaka, Makoy
				176	Swertia chiraita	Chirata
				213	Eclipta alba	Bhringraj
				214	Cyperus scariosus	Nagarmotha
				215	Datura somnifera	Dhatura
				216	Bacopa monnieri	Bramhi
				217	Cymbopogon flexuosus	Lemon ghas
				230	Vettveria zizanoides	khus
				231	Stylosanthes hamata	Caribbean Stylo, Cheesy toes, hamata
				232	Dasmostachya	Khas
				316	Commiphora wightii	Guggul
				325	Glycyrrhiza glabra	Jesthmadh,Mulethi
				327	Helicteres isora	Edamuri,Marorphali
		2	Shrub	353	Vitex negundo	Sambhalu, Bana, Sambhalu, Nirgundi, Posotia
				354	Wihania somnifera	Ashwingandha, Ashwagandha, Agsend, Asgandha
				361	Adhatoda vasica	Banasa/Basuti,Adusa, Boga Bahak
4				363	Calotropis procera	Aak,Madar, Aakda Mul
				003	Asparagus racemosa	Shathavari,Satavar, Satmul
		3	Climber	026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla
		•	S1001	031	Tinospora cordifolia	Giloe, Chittamruthu, Giloy,Guduchi
				044	Cuscuta reflexa	Amerbel
		1	Herb	137	Grewia sapida	Falsa
				319	Cudrania javensis	Cockspur Thorn
		2	Shrub	329	Indopiptadenia oudhensis	Gainti
05	Uttarakhand			358	Zanthoxylum alatum	Prickly Ash
		3	Climber	010	Celastrus paniculatus	Malkangini, Black oil plant
		4	Tree	0037	Aegla Marmelos	Bael
				0060	Alnus nepalensis	Alder Tree, Utis

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				0086	Antidesma diandrum/Antidesma acidum	Black Current Tree ,Halimajjige
				0153	Betula Alnoides	Himalayan or Indian Birch
				0258	Cinnamomum tamala/bay leaf	Tejpat
				0353	Diospyros melanoxylon	Coromendel Ebony, Tendu
				0358	Diospyros embryopteris	Malabar Ebony, Gaub tree
				0362	Diploknema butyracea	Nepali Butter Tree, Chiuri
				0392	Ehretia laevis	Chamror
				0479	Ficus carica/ Ficus cunia	Fig, Anjeer
				0494	Flacourtio cataphracta	Indian Plum, Tallspatri
				0694	Lannea coromandelica	Modad, Indian Ash Tree, Mohin
				0714	Litsea chinensis	Bolly Gum
				0826	Myrica esculenta	Bay Berry
				0871	Olea cuspidata	African Olive
				0954	Premna latifolia	Bakarcha, Jhatel, Basota
				0989	Punica ganatum	N.A.
				1038	Rhododendron arborium	Burans
				1075	Sapindus mukurossi	Wash nut ,Ritha
				1162	Taxas baccata	European Yew
				1167	Terminalia arjuna	Arjun
				1353	Cornus capitata	Himalayan Strawberry Tree
				1359	Prunus puddum	Wild Himalayan Cherry
				105	Aloe barbadensis/aloe vera	Kalabanda,Ghritkumari
				109	Andrographis paniculata	Chireita/Bhuin-neem , Kalmegh, Kaambheg
				120	Centella asiatica	Hnahbial/Lambak, Manimuni
				142	Holarrhena antidysenterica	Pandhra Kuda
		1	Herb	151	Lycopodium Spp/ Lycopodium clavatum	Lycopodium
19	West Bengal			156	Ocimum species (Ocimum gratissimum/ Ocimum sanctum/ Ocimum tenuiflorum/ Ocimum americanum)	Bana Tulsi/Krishna Tulsi
				176	Swertia chiraita	Chirata
				003	Asparagus racemosa	Shathavari,Satavar, Satmul
				006	Calamus floribundus	C-Beat, Lee
		3	Climber	026	Piper species/ Piper longum/ Piper mullesua	Thippali, Wild pepper, long pepper, Pipla
				028	Rubia cordifolia	Manchatti, Monjito, Chiranji, Manderti, Manjistha, Satamul
		4	Tree	0037	Aegla Marmelos	Bael

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				0068	Alstonia scholaris	Thuamriat
				0073	Amoora wallichii	Lali
				0158	Bombax species/ Bombax ceiba	Simal
				0173	Butea monosperma	Dhak, Palash
				0258	Cinnamomum tamala/bay leaf	Tejpat
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0759	Madhuca indica	Mahudo, Amba, Mango,Mahua
				0817	Moringa olifera	Sajina
				0877	Oroxylum indicum	Archangkawn, Totola
				1096	Shorea robusta	Sal
				1167	Terminalia arjuna	Arjun
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
		5	Bamboo	2026	Dendrocalamus spp.	Bamboo
		2	Shrub	302	Calamus longisetus	N.A.
				303	Calamus palustris	N.A.
				337	Nypa fruticans	nipa palm
				345	Rizophora mucronata	Pikandal
		3	Climber	022	Korthalsia laciniosa	Rotan Dahan
				0580	Heritiera littoralis	Looking Glass Tree
				0703	Licula Peltata	Elegant Palm
				0925	Phoenix palludosa	Mangrove Date Palm, sea dates
	Andaman	4	Tree	1106	Sonneratia griffithii	N.A.
35	Nicobar Islands			1361	Sonneratia alba	Nakshathrakandel, Apple Mangrove
				1364	Bruguiers gumnorrhiza	Oriental Mangrove
				2014	Calamus andamanicus	N.A.
**				2051	Bambusa auriculata	Comman Bamboo
		5	Bamboo	2057	Bambusa schizostachyoides	N.A.
			Samboo	2059	Oxytenanthera nigrociliata/Gigantochola Nogrociliata	Kalyai
			/	2062	Schizostachyum regersil	N.A.
				308	Bougainvilea	Bougainvilea
		2	Shrub	353	Vitex negundo	Sambhalu, Bana, Sambhalu,Nirgundi, Posotia
04	Chandigarh			354	Wihania somnifera	Ashwingandha, Ashwagandha, Agsend,Asgandha
		3	Climber	031	Tinospora cordifolia	Giloe, Chittamruthu, Giloy,Guduchi
		4	Tree	0016	Acacia chundra	Khair

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				0114	Azadirachta indica	Neem
				0141	Bauhinia variegate/Phanera varigeta	Ebony tree
				0158	Bombax species/ Bombax ceiba	Simal
				0173	Butea monosperma	Dhak, Palash
				0226	Cassia fistula/ Sp.	Casia fistula, Amaltas
				0298	Cordia myxa	Lasura
				0348	Delonix regia	Gulmohar
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0486	Ficus religiosa	Pipal
				0491	Ficus virens	Pilkhan
				0594	Holopetelia integrifolia	Kanaji, Papri
				0759	Madhuca indica	Mahudo, Amba, Mango, Mahua
				0811	Mimusops elengi	Moulsari
				0822	Mulberry	Shahtoot
				0825	Murraya koenigii	Karripata
				0972	Psidium guava	Amrood
				1136	Syzigium cumini	Jamun
				1164	Tectona grandis	Sagwan
				1167	Terminalia arjuna	Arjun
				1287	Ziziphus mauritiana/jujuba	Ber
		2	Shrub	312	Calotropis gigantea	Akdo
		***		0005	Acacia arabica	Bawal
				0007	Acacia catechu	khair
				0009	Acacia Ferruginosa/Acacia ferruginea	Kanti, Velsundra, Vel., Subsam, Babar, Soukhar, Konp
				0037	Aegla Marmelos	Bael
				0046	Ailanthus excelsa	Aduso
				0057	Albizzia procera	kinai
	Dadra			0074	Anacardium occidentale	Kaju
26	Nagar Haveli	4	Tree	0079	Ananous squamosa	Sitafal,Setha
	riaveii			0081	Anogeissus latifolia	Dhawada
				0114	Azadirachta indica	Neem
				0158	Bombax species/ Bombax ceiba	Simal
				0159	Borassus flabellfier	Tad
				0215	Careya arborea	kumbhi
				0225	Casearia Tomentosa	kirmira
				0226	Cassia fistula/ Sp.	Casia fistula, Amaltas
				0346	Deienia Indica	Dieng-soh-karbam, Papada

State Code	State Name	Habit Code	Habit	NTFP Species Code	NTFP Species Botanical Name	Common Name
				0353	Diospyros melanoxylon	Coromendel Ebony, Tendu
				0410	Embilica officinalis/Phyllanthus	Nellikkai, Amla, Sunhlu
				0426	Erythrina variegate	Pangara
				0477	Ficus bengalensis	Vad
				0486	Ficus religiosa	Pipal
				0487	Ficus glomerata/ racemosa	Umbro,Gular
				0594	Holopetelia integrifolia	Kanaji, Papri
				0690	Lagestromia lanceolata	Nirgundi
				0694	Lannea coromandelica	Modad, Indian Ash Tree, Mohin
				0759	Madhuca indica	Mahudo, Amba, Mango, Mahua
				0807	Miliusa tomentosa	Umbh
				0881	Oogenia oogenesis	Tanach, Tiwas
				0919	Phoenix sylvestris	khajuri
				1128	Soymida febrifuga	Rohan
				1136	Syzigium cumini	Jamun
				1186	Trewia nudiflora	Petar
				1287	Ziziphus mauritiana/jujuba	Ber
				108	Ananas comosus	Pineapple, Ananas
				120	Centella asiatica	Hnahbial/Lambak, Manimuni
		1	Herb	122	Coleus spp.	N.A.
				163	Phyllanthus niruri/ Phyllanthus fraternus	Bhumi amla
				168	Rauvolfia serpentina	Sarpagandhi, Atki
		2	Shrub	307	Agave species	N.A.
			Siliub	359	Zizyphus spp.	N.A.
				0103	Artocarpus heterophyllus	N.A.
				0114	Azadirachta indica	Neem
				0134	Barringtonia sp.	N.A.
34	Puducherry			0158	Bombax species/ Bombax ceiba	Simal
				0173	Butea monosperma	Dhak, Palash
				0194	Callophyllum inophyllum	Undi
			_	0217	Carissa carandas	Kilakoy
		4	Tree	0226	Cassia fistula/ Sp.	Casia fistula, Amaltas
		**		0242	Ceiba pentandra	Kapok
				0290	Cordia	N.A.
				0296	Corypha Umbraculifera	N.A.
				0694	Lannea coromandelica	Modad, Indian Ash Tree, Mohin
				0759	Madhuca indica	Mahudo, Amba, Mango,Mahua
				0949	Pongamia glabra/pinnata	Karanj
				0972	Psidium guava	Amrood

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				0989	Punica ganatum	N.A.
				1113	Sterculia foetida	N.A.
				1136	Syzigium cumini	Jamun
				1168	Terminalia belerica	Bahera
				1171	Terminalia chebula	Harra
				1358	Peltophorum	N.A.



Note on bearing and distance

Note on Bearing

The bearing is an angle by any direction/line with the north direction at a particular place. The bearing of the line joining any two points or, in this case, reference point to plot centre would be calculated as follows:

- 1. Spread the toposheet on levelled ground surface.
- 2. Put the Silva Compass on it.
- 3. Adjust the north-south direction of the toposheet i.e. any printed longitude line exactly with the north-south of the needle of Silva Compass. This process when finalised will indicate that the map is correctly oriented.
- 4. Magnetic variation given in top right margin of the toposheet must be accounted for while orienting the map. The magnetic variation has to be either added or substracted to the campass bearing as the case may be. If the magnetic variation is in the North-West of True North, this should be added and in case it is in the North-East of True North then to be substracted from the compass bearing. The magnetic variation to be accounted for to the nearest degree e.g. if the deviation is by 3/4° or more that same has to be taken as 1° for addition or substraction and if it is 1/4° or less, may be ignored.
- 5. Ensure the reference point and the plot centre correctly on the map.
- 6. Without disturbing the map, place the silva Compass in such a manner that its longer axis or any printed longitudinal line on it connects both the points i.e. reference point and the plot centre. The mirror of the compass should be towards the plot centre.
- 7. With a steady hand, rotate the dial of the compass in such a manner that the North mark on the rim of the compass and North of the needle coincide exactly.
- 8. Now take out a compass and read the bearing against the index pointer of the compass.
- 9. Silva Compasses are manufactured in degrees as well as in grades. A precaution has to be taken to see that grades are not confused with degrees and vice versa. Similarly, since the Silva Compass is a magnetic instrument all iron and magnetic articles should be kept sufficiently away from the compass so as to avoid effect of such articles on the magnetic needle and ultimately on the bearings of the plot centre.
- 10. While proceeding towards the plot centre or any other object at known bearing the job has to be done by a team of three persons one holds the Silva Compass and other two carry ranging roads. The person holding a Silva compass adjusts the exact bearing on the rim of the compass, then by holding compass in a levelled manner in one palm and stretching the hand straight in front of his eyes, settles the needle steady North-South and sights the trees

or objects which exactly coincide with the thread line of the viewing slit of the compass, centre of the needle and notch at the top of the mirror. The other two persons proceed ahead along bearing line with ranging rods and stand with vertical ranging rods in their hands at the places directed by the person holding Silva Compass. Usually small distances are traversed, say 50 to 100 m at a time, so that the possibility of error is minimised. The person holding Silva compass frequently directs other persons holding ranging rods to stand at a sufficient distance along the bearing line. After fixing the persons holding ranging rods on two spots on a bearing line, the person holding Silva compass proceeds to the spot of the first person holding ranging rod and views again, further ranging the second person holding ranging rod and directing the person shifted from first spot to occupy further position on the bearing line as viewed from Silva compass and decided by him. Likewise, the process goes on till a desired distance is covered upto the plot centre.

Note on Distance

All distances on the map are horizontal distances. As such the distance in field has to be measured in terms of horizontal distance. An instrument named as Blume-Leiss Hypsometer or any other hypsometer can be used for knowing the degree of slope between two points. A person at the first point on line views the person at the same height at the other end of the line through the hypsometer and reads the angle of elevation or depression. A ready reckoner for reading horizontal distances of certain common slope distances against specific degrees of slope has been provided in the end of the manual (see Annexure I). A corresponding horizontal distance against a definite slope distance and slope degrees may be read from the table so that a desired horizontal distance can be reached although the coverage of slope distance will be more. The difference in slope distance and horizontal distance is more in hilly areas than that in plain areas. (Note - The slope correction be made after every chain/rope and not at the end).

List of Invasive Forest Species

S. No.	Species code	Invasive Forest Species Name	Local Name
1	01	Acacia farnesiana	
2	02	Acacia mearnsii	
3	03	Achyranthes aspera	
4	04	Ageratina adenophora	
5	05	Ageratum conyzoides	
6	06	Ageratum houstonianum	
7	07	Alternanthera philoxeroides	
8	08	Argemone mexicana	
9	09	Cassia/Senna occidentalis	
10	10	Cassia tora	
11	11	Chromolaena odorata	#
12	12	Cuscuta spp.	
13	13	Cyperus pilosus	
14	14	Cyperus rotundus	
15	15	Cytisus scoparius	
16	16	Desmodium laxiflorum	
17	17	Dioscorea deltoidea	
18	18	Dioscorea pentaphylla	
19	19	Eclipta prostrata	
20	20	Eichornia crassipes	
21	21	Fimbristylis miliacea	
22	22	Glinsoga parviflora	
23	23	Ichnocarpus frutescens	
24	24	Mimosa pigra	
25	25	Imperata cylindrica	
26	26	Ipomoea carnea	
27	27	Ipomoea fistulosa	
28	28	Lantana camara	
29	29	Leucanea leucocephala	
30	30	Melochia corchorifolia	
31	31	Microcystis	
32	32	Mikania micrantha	
33	33	Parthenium hysteropharus	
34	34	Prospis chilensis	
35	35	Prosopis juliflora	
36	36	Saccharum spontanem	
37	37	Salvinia molesta	
38	38	Sida carpinifolia/acuta	
39	39	Sida orientalis	
40	40	Solanum elaeagnifolium	
41	41	Solanum viarum	

42	42	Tridax procumbens	
43	43	Triumfetta rhomboidea	
44 45	44	Ulex europaeus	
45	45	Xanthium strumarium	
45	45 00	Not applicable .	

Annexure XI

State- wise list of the Conservation/Community Reserves of the country

According to "Wildlife (Protection) Act 1972" (WLPA), the definition for Conservation/Community Reserve is given below.

Conservation Reserve: - Section 36 A(I) of WLPA: - "The State Government may, after having consultations with the local communities, declare any area owned by the Government, particularly the areas adjacent to National Parks and Sanctuaries and those areas which link one protected area with another, as a Conservation Reserve for protecting landscapes, seascapes, flora and fauna and their habitat".

Community Reserve: - Section 36C of WLPA: - "The State Government may, where the community or an individual has volunteered to conserve wild life and its habitat, declare any private or community land not comprised within a National Park, Sanctuary or a Conservation Reserve, for protecting fauna, flora and traditional or cultural conservation values and practices".

There are about 10 states in which these areas are defined and the state/district wise list of conservation/community reserves in the country is attached in Annexure-XII at the end.

State-wise details of the Conservation/Community Reserves of the country

SI.No.	State/UT	No. of Conservation Reserves	No. of Community Reserves
1	Gujarat	1	0
2	Haryana	2	0
3	Jammu &Kashmir	34	0
4	Karnataka	2	1
5	Kerala	0	1
6	Maharashtra	1	0
7	Punjab	1	2
8	Rajasthan	5	0
9	Tamil Nadu	1	0
10	Uttarakhand	2	0
	Total	49	4

State wise list of Coservation Reserve in the Country

Area in sq.km.

				Area	ı in sq.km.
SI.No.	Name of the State	Name of the District	Name of the Conservation Reserve	Year of Notification	Total Area
1	Gujarat	Kachchh	Chharidhandh Con. Res.	2008	227
2	Haryana	Jind	Bir Bara Ban WLS	2007	4.19
3	Haryana	Kurukshetra, Kaithal	Saraswati Plantation WLS	2007	44.53
4	Jammu &Kashmir	Anantnag	Khiram CR	1945	15.75
5	Jammu &Kashmir	Pulwama	Panyar CR	1945	10
6	Jammu &Kashmir	Pulwama	Khanagund CR	1945	15
7	Jammu &Kashmir	Pulwama	Shikargah CR	1945	15.5
8	Jammu &Kashmir	Pulwama	Khrew CR	1945	50.25
9	Jammu &Kashmir	Pulwama	Khonmoh CR	1945	67
10	Jammu &Kashmir	Srinagar	Brain-Nishat CR	1945	15.75
11	Jammu &Kashmir	Srinagar	Khimber/Dara/ Sharazbal CR	1945	34
12	Jammu &Kashmir	Srinagar	Wangat/Chatergul	1945	12
13	Jammu &Kashmir	Bandipora	Ajas CR	1945	48
14	Jammu &Kashmir	Baramula	NaganariCR	1981	22.25
15	Jammu &Kashmir	Srinagar	Zaloora, Harwan	1970	25.25
16	Jammu &Kashmir	Udhampur	Sudhmahadev CR	1981	142.25
17	Jammu &Kashmir	Doda	Jawahar Tunnel	1981	18
18	Jammu &Kashmir	Kathua	Thein	1981	19
19	Jammu &Kashmir	Jammu	Bahu	1981	19.75
20	Jammu &Kashmir	Leh	Sabu	1981	15
21	Jammu &Kashmir	Kargil	Boodh Karbu	1981	12
22	Jammu &Kashmir	Srinagar	Hokera (Ramsar Site) (WL)	1945	13.75
23	Jammu &Kashmir	Budgam	Narkara (WL)	1991	3.25
24	Jammu &Kashmir	Pulwama	Manibugh (WL)	1970	4.5
25	Jammu &Kashmir	Pulwama	Chatlam, Pampore (WL)	1970	0.25
26	Jammu &Kashmir	Budgam	Mirgund (WL)	1970	4
27	Jammu &Kashmir	Srinagar	Shallabugh (WL)	1945	16
28	Jammu &Kashmir	Bandipora	Ajas (WL)	1945	1
29	Jammu &Kashmir	Baramula	Hygam (WL)	1945	7.25
30	Jammu &Kashmir	Baramula	Malgam (WL)	1970	4.5
31	Jammu &Kashmir	Jammu	Gharana (WL)	1981	0.75
32	Jammu &Kashmir	Jammu	Pargwal (WL)	1981	49.25
33	Jammu &Kashmir	Jammu	Kukarian (WL)	1981	24.25
34	Jammu &Kashmir	Jammu	Nanga (WL)	1981	15.25

35	Jammu &Kashmir	Jammu	Sangral-Asa Chak (WL)	1981	7
36	Jammu &Kashmir	Leh	Tsomoiri (Ramsar Site) (WL)	1981	120
37	Jammu &Kashmir	Leh	Norrichain (WL)	1981	2
38	Karnataka	Haveri	Bankapur Peacock Conservation Reserve (Bird)	2006	0.56
39	Karnataka	Tumkur	Jayamangali Black Buck Reserve	2007	3.23
40	Maharashtra	Nashik	Bhorkada Conservatin Reserve	2008	3.49
41	Punjab	Taran Taran	Rakh Sarai Amanat Khan Con. Res.	2010	4.95
42	Rajasthan	Tonk	Bisalpur Con Res	2008	48.31
43	Rajasthan	Bikaner	Jor Beed Gadwala Bikaner Con res	2008	56.47
44	Rajasthan	Jalore, Sirohi	Sundha Mata Con Res	2010	117.49
45	Rajasthan	Jodhpur	Gudha Bishnoi	2011	2.32
46	Rajasthan	Sikar, Jhunjhunu	Shakambhari	2012	131
47	Tamil Nadu	Tirunelveli	Thiruppudai- maruthur Birds	2005	0.03
48	Uttarakhand	Dehradun	Asan Barage Wetland CR (Bird)	2005	4.44
49	Uttarakhand	Haridwar	Jhilmi Jheel CR(Bird)	2005	37.84

State wise list of Community Reserve in the Country

Area in sq.km.

SI.No.	Name of the State	Name of the District	Name of the Community Reserve	Year of Notification	Total Area
1	Karnataka	Mandya	Kokkare Bellur Community Reserve (Bird)	2007	3.12
2	Kerala	Malappuram	Kadalundi- Vallikkunnu	2007	1.5
3	Punjab	Hoshiarpur	Lalwan Community Reserve	2007	12.67
4	Punjab	Gurdaspur	Keshopur-Chhamb Community Reserve	2007	3.4

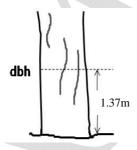


Measurement of tree diameter

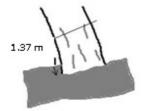
In the forest inventory work, tree diameter has been traditionally measured at 1.37 meters above the ground or root of the crown if the root crown is exposed, a point defined as diameter at breast height(DBH). The exact position of DBH is also dependent of individual tree form and topography. For measurement of diameter of a tree, callipers or diameter tapes are used. The following situations may be encountered in measurement of tree diameter.

- (i) Flat ground
- (ii) Leaning trees
- (iii) Leaning tree on hillsides
- (iv) Trees on slope
- (v) Trees with irregularities
- (vi) Trees with missing bark or wood
- (vii)Trees with but Swell or bottleneck.
- (viii) Forked trees
 - (a) Forked trees below 1.37 meter
 - (b) Forked trees above 1.37 meter
- (ix) Live wind thrown trees
- (x) Trees with curved bole

Diameter on flat ground: Measure DBH at 1.37 m above the ground.

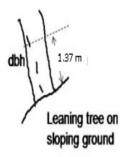


Leaning tree: Measure diameter at 1.37 m from the ground along the bole.

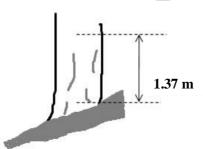


Leaning tree on Sloping ground:

Measure the diameter 1.37 m from the ground along the uphill side of the tree.

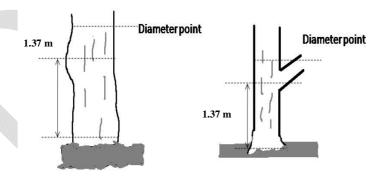


Tree on slope: Measure diameter at 1.37 m from the ground along the bole on the uphill side of the tree.

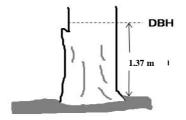


Tree with irregularities at DBH:

On trees with swellings, bumps, depressions, and branches at DBH, diameter will be measured immediately above the irregularity at the place it ceases to affect normal stem form.

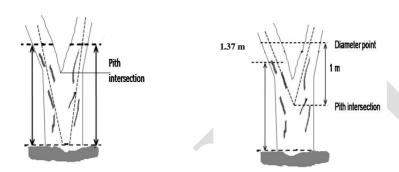


Missing wood or bark: Do not reconstruct the DBH of a tree that is missing wood or bark or at the point of measurement. Record the Diameter of the wood and bark that is still attached to the tree.

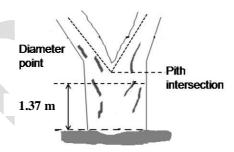


Forked tree: Visually locate the point of separation

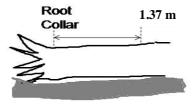
Trees forked below 1.37 m. Trees forked in this region are treated as distinctly separate trees. Distances and azimuths are measured individually to the centre of each stem where it splits from the stump. DBH is measured for each stem at 1.37 m above the ground



Trees forked at or above 1.37 m. Trees forked in this region count as one single tree. If a fork occurs at or immediately above 1.37 m, measure diameter below the fork just beneath any swelling that would inflate DBH.



Live wind thrown tree: Measure from the top of the root collar along the length to 1.37 m.



Trees with curved bole:

Measure diameter along the bole on the uphill (upper surface) of the tree.



Tree Height Measurement

The height of a tree is important characteristics for measuring the total amount of wood contained in tree. It is vertical distance from ground level to the highest given point on the tree known as tip of the tree. Identifying actual tree top and the fact that the tree top may not be directly over the base of the tree are main sources of for tree height measurements. Height can be measured through ocular estimates, non-instrumental, (Shadow method, single pole method,) Tree height measurements can be done with the help of clinometers, altimeters, relaskopes or hypsometers.

Measuring tree height

- i) Walk around the tree and find the best location to view the top of the tree.
- ii) Stand far away from the tree so that the top of ree is less 90 degrees above the line of sight.
- iii) Always stand up-slope of the tree (fig).Standing down-slope of the tree should only take place when no other option exists.
- iv) Measure height of dominant canopy trees.
- v) Follow the instructions provided by the manufacturer of the instruments.
- vi) Please chalk mark on the tree to indicate that the tree has been measured.
- vii) all trees should be tagged with the placement of an aluminium numbered tag and nail.
- viii) Record species name, the local name and associated, DBH and height.
- ix) When all of the trees in the cluster (Sub-plot) have been measured, there should be double check to see that all of trees have been measured.

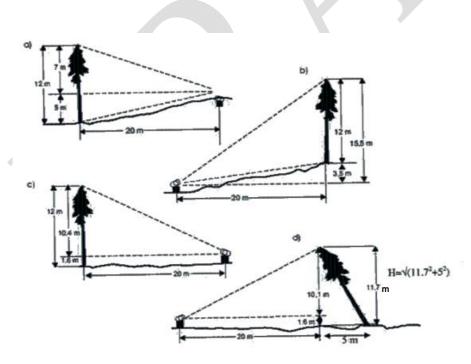


Figure: Different arrangements to measure tree height

Annexure-XIV: Field forms for National Forest Inventory

PLOT APPROACH FORM

Job No.	FSI Zone code	Phy. Zone Code	State code	Forest Division Code	District Code	Mapsheet No.	Grid Code	Name of Camp	Time (hrs.) at which left the camp/plot (IST Time)	Distance covered by vehicle (km)	Time taken in journey by vehicle (in hours)	of the p which	& Longitude lace upto journey d by vehicle
											,	Latitude	Longitude
1	2	3	4	5 (2)	6	7	8	9	10	11	12	13	14
(3)	(1)	(2)	(2)		(2)	(6)	(6)		(4)	(2)	(4)	(8)	(8)
	01												

Time(hrs.)	Distance	Time	Time	Time	Compassing/Navigation	Plot laid		Height	B.T. & other	Bamboo	Bamboo
at which	covered on	(hrs.)	(hrs) of	(hrs.) at	done by	out by	Tree	Measurement	measurements	enumeration	weight taken
started on	foot upto the	of	departure	which	(Name of person)	(Name	Enumeration	taken	taken	done	by
foot to	plot centre	arrival	from the	returned		of	done by	by(Name of	by(Name of	by(Name of	(Name of
plot	(km upto	at the	plot (IST)	to the		person)	(Name of	person)	person)	person)	person)
centre	two decimal	Plot		camp			person)				
(IST)	place)	(IST)		(IST)							
15	16	17	18	19	20	21	22	23	24	25	26
(4)	(4)	(4)	(4)	(4)							
1							•				

Herbs/Shrubs/ Climbers/ Regeneration Data collected	Soil & Forest Floor data Collected	Details	of the R	eference Tree(I	In case of plot stat	us 1& 5)	the plac	nd Longitude of e upto where proached (in ot status 2/3/4)		Remarks (Upto 50 (Fifty) words)
by (Name of person)	by(Name of person)	Reference Tree SI. No.	Spp Code	Species Name	Distance from Tree to Plot Centre (in meters upto two decimel)	Bearing from Tree to Plot Centre (in degree)	Latitude	Longitude	Name of the Crew Leader	
27	28	29	30(4)	31	32(4)	33(3)	34(8)	35(8)	36	37
		2.								

Date: dd /mm /yyyy

PLOT DESCRIPTION FORM

Job	Survey	Form	FSI	Phy.	State	District	Forest	Mapsheet	Grid	Lat.	Long.	Legal	Land	Density	Wild life
No.	code	Code	Zone	Zone			Division	No.	code			Status	Use	for LUC	protected
														7&14	area
1 (3)	2 (1)	3 (2)	4 (1)	5 (2)	6 (2)	7 (2)	8 (2)	9 (6)	10 (6)	11 (8)	12 (8)	13 (1)	14	14 (a)	15 (1)
													(2)	(2)	
	1	02													

	Te	errai	n Da	ita				S	oil C	ata											Crop	Da	ıta	4								Ва	mbo	oo Da	ata						Deg F	graded orest		
General Topography	alobe	Position on slope	Altitude	Aspect	Rockiness		S	Soil consistency		Coa	Soil depth	Soil erosion	Origin of stand	Crop composition	Canopy layer or storey	Top height	Size class	Intensity of regeneration	Species under regeneration	Injuries to crop due to Girdling	Injuries to crop due to Illicit felling	oto roddor oto	Lopping for fodder etc.		Grazin	Presence of understorey vegetation	Presence of grass	Presence of most occurring invasive species	Presence of second most occurring invasive species	Extent of most occurring invasive species	Extent of second most occurring invasive species	Bamboo density	Bamboo quality	Bamboo flowering	Bamboo regeneration	Plantation potential	Distance from road (km)	Type of water bodies in the vicinity of plot	Distance from river/stream (m)	 Plot status	Biotic influence	Natural calamity	Date of survey(dd/mm/yy)	
16 1 (1) (3	7 3)	18 (1)	19 (4)	20 (1)	21 (1)	(1)	23 (1)	24 (1)	25 (1)	26 (1)	27 (1)	28 (1)	29 (1)	30 (2)	31 (1)	32 (2)	33 (1)	34 (1)	35 (4)	36 (1)		3 (1	1) (1)	1) (41 (1)	42 (1)	43 (2)	44 (2)	45 (1)	46 (1)	47 (1)	48(1)	49 (1)	50 (1)	51 (1)	52 (1)	53 (1)	54 (1	55 (1)	56 (1)	57 (1)	58	
																				4																								

Signature of the Crew Leader.....

Note:- i) First Number in the row below the field headings represents the column number and the number inside the bracket represents the column width.

ii) For Lat& Long, seconds to be recorded upto two decimal places, no need to put the decimal point.

PLOT ENUMERATION AND SAMPLE TREE FORM

Job No.	Form Code	Mapsheet No.	Grid code
1 (3)	2 (2)	3 (6)	4 (6)
	03		

Sub- plot	Slope %	Sub-plot status	Land use class of Sub-plot	Sub-plot Selected for STF (Yes/ No)
5 (1)	6 (3)	7 (1)	7A(2)	7 (B)

Total No. of bamboo clumps	Total No. of trees
26 (3)	27 (3)

						Plot Enu	meration	Form F	Paramet	ers					Sample	Tree F	orm Para	meters
CI				Statue	Cause of				Crown width (meter)		eight (met	er)					Clear	
SI No	Species Name	Code	Dia (cm)	of tree (Dead/ Alive)	death in case of mortality	Rotten/ missing cull	Decay class	CW1			Un- compact ed Crown Length	compa cted Crown Length	Incidence of Insect	Incidence of Disease	DBT (mm)	Bark Void %	bole height (m)	Domin ance
8	8.1	9 (4)	10 (3)	11 (1)	12 (1)	13 (1)	14(1)	15(2)	16(2)	17(2)	18 (2)	19(2)	20(1)	21(1)	22(2)	23(2)	24(2)	25(1)
									,									
														-				
			_							_						_		

Date		Signature of the Crew Leader
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SAMPLE TREE FORM(discontinued from 30.01.2021)

Job No.	Form Code	Mapsheet	Grid
		No.	code
1 (3)	2 (2)	3 (6)	4 (6)
	04		

Total No. of trees	Sub-Plot no.
23 (2)	24(1)
	, ,

Species name	Tree serial No.	Species code	Dominance	DBH OB (cm)	DBT (mm)	Bark Void %	Tree height (m)	Clear bole height (m)	Species name	Tree serial No.	Species code	Dominance	DBH OB (cm)	DBT (mm)	Bark Void %	Tree height (m)	Clear bole height (m)
5	6	7	8	9	10	11	12	13 (2)	14	15	16	17	18	19	20	21	22
	(2)	(4)	(1)	(3)	(2)	(2)	(2)			(2)	(4)	(1)	(3)	(2)	(2)	(2)	(2)
								4									

Date...... Signature of the Crew Leader.....

BAMBOO CLUMP ANALYSIS FORM

Job No.	Form Code	Mapsheet No.	Grid code
1 (3)	2 (2)	3 (6)	4 (6)
	05		

Average cul dc	m height (in m)	Bamboo quality
Upto 1 cm top dia	Upto 2 cm top dia	
38 (3)	39 (3)	40 (1)

Spe	cies Sub- Clump Green sound culm Code plot Dia- N One to two years old Over two years old											Gr	een da	amag	ed culms				Drv	sound	d culm	ıs	Dry d	amage	ms	Deca-	Total					
Name		-	Dia-	ize		One to					two v	ears o	ld	1	One to			_			ears o	old	1 -,	000			2.,	۰ag۱			yed	no. of
		number	meter	Si	Ħ			,			,			Ħ																	culms	culms
		and	(cm)	ᆸ -	re.	1<2cm 2<5 5<8 8+ 1<2cm 2<5 5<8 8+ cm				1<2cm	2<5	5<8	8+	1<2cm	2<5	5<8	8+	1<2cm	2<5	5<8	8+	1<2cm	2<5	5<8	8+		ľ					
		Clump Sl.No.		Clump si	Cu		cm	cm	cm		cm	cm	cm	Cn		cm	cm	cm		cm	cm	cm		cm	cm	cm		cm	cm	cm		
5	6 (4)	7 (3)	8 (3)	9	10	11 (2)	12	13	14	15 (2)	16	17	18	19	20 (2)	21	22	23	24 (2)	25	26	27	28 (2)	29	30	31	32	33	34	35	36	37
	` '	` ,	. ,	(1)	(2)	` ,	(2)	(2)	(2)	` '	(2)	(2)	(2)	(2)	` `	(2)	22 (2)	(2)		(2)	26 (2)	(2)	` ´	(2)	(2)	(2)	32 (2)	(2)	(2)	(2)	(2)	(3)
															1				4/													
					4																											

Date...... Signature of the Crew Leader.....

BAMBOO ENUMERATION AND ANALYSIS FORM (NON CLUMP FORMING)

Job No.	Form	Mapsheet	Grid code	Sub-plot No.
	Code	No.		
1 (3)	2 (2)	3 (6)	4 (6)	36 (1)
	06			

Spe	cies					Gree	n sound	culms					Gre	en da	mag	ed culms				Dry	sound	culm	s	Dry	damage	ed culn	ns	Deca-	Average	Total
	Code	year						t year	One to	o two	year o	old	Ove	r two y							·				yed culms	culm height in dcm.	no. of culms			
		Current	1<2cm	2<5 cm	5<8 cm	8+ cm	1<2cm	2<5 cm	5<8 cm	8+ cm	Current	1<2cm	2<5 cm	5<8 cm	8+ cm	1<2cm	2<5 cm	5<8 cm	8+ cm	1<2cm	2<5 cm		8+ cm	1<2cm	2<5 cm	5<8 cm	8+ cm			
5	6 (4)	7 (3)	8 (3)	9 (3)	10 (3)	11 (3)	12 (3)	13 (3)	14 (3)	15 (3)	16 (3)	17 (3)	18 (3)	19 (3)	20 (3)	21 (3)	22 (3)	23 (3)	24 (3)	25 (3)	26 (3)	27 (3)	28 (3)	29 (3)	30(3)	31 (3)	32 (3)	33 (3)	34 (3)	35 (4)
																		4												

Date...... Signature of the Crew Leader.....

BAMBOO WEIGHT FORM

Job No.	Form	Mapsheet	Grid code
	Code	No.	
1 (3)	2 (2)	3 (6)	4 (6)
	07		

Spe	cies			1 to	under	2cm			2 to u	nder :	5 cm			5 to u	ınder	8 cm			8 cm	and o	over			veight of lation wi		
Name	Code	2	Dia in cm	Total length in dcm	length	sable in dcm	Weight in grams	in	Total length in dcm		th in	Weight in grams	in	Total length in dcm	leng	sable th in	Weight in grams	Dia in cm	Total length in	leng	th in	Weight in grams	Sub- sample	Sub- sample culm 2	Sub- sample	Sub- sample
		Sample			Upto 1	Upto 2 cm top dia					Upto 2 cm top dia				- 100	Upto 2 cm top dia	_		dcm				& under 2 cm dia	& under 5 cm dia	& under 8 cm dia	cm and over
5	6 (4)	7 (1)	8 (2)	9 (3)	10 (3)	11 (3)	12 (5)	13 (2)	14 (3)	15 (3)	16 (3)	17 (5)	18 (2)	19 (3)	20 (3)	21 (3)	22 (5)	23 (2)	24 (3)	25 (3)	26 (3)	27 (5)	28 (4)	29 (4)	30 (4)	31 (4)

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column width

NTFP (HERBS, SHRUBS and CLIMBERS) AND REGENERATION FORM

Job No.	Form Code	State Code	Mapsheet No.	Grid code	Lat	Long
1 (3)	2 (2)	3 (2)	4(6)	5 (6)	6 (8)	7 (8)
	08					

Herb Ple	ot size: 0.6 meter radius
	Shrub, Climber & eration Plot size: 1.7 meter radius

		NTFP	(herbs, shrubs a	ınd clir	nbers)					Regenerat	tion (Trees)					
Sub-		Spe	cies	N	lo. of p	lants	:	Species						No. of plants		
Plot numbe r	Name	Code	Habit (herbs/shrubs/		r diamo			Name	Code	Diamete r at	Status of tree	Category of regeneration				
•			climbers)		bs & c					breast	(alive/dead	1	2	3		
				0-2	2-5	5-8	8+			height (cm))					
8(1)	9	10 (3)	11	12 (3)	13 (3)	14 (3)	15 (3)	16	17(4)	18 (1)	19 (1)	20 (2)	21 (2)	22 (2)		
								***						<u> </u>		
														+		
														1		

Date.				Signature of the Crew Leader
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SOIL AND FOREST FLOOR CARBON FORM

Job	Form	Mapsheet	Grid	Lat	Long	Proportion of		Forest	Soil
No.	Code	No.	code			Gravel	Soil	floor	sample
								sample	No.
								No.	
1 (3)	2 (2)	3 (6)	4 (6)	5 (8)	6 (8)	7 (3)	8 (3)	9 (4)	10 (4)
	09								

V	Veight of Forest Flo	oor in gms.	Volume of	Weight of
Plot 1	Plot 2	Plot 3	soil	soil (gms)
(3600	120° azimuth	240° azimuth from		
north)	from sub-plot 1	sub-plot 1)		
11 (5)	12 (5)	13 (5)		14 (4)

Date	Signature of Crew	
l eader		

SOIL AND FOREST FLOOR SAMPLE CARD (To be read with Field Form 9)

Мар	osheet No.	
Grid	Code	
Lat.	and Long.	
Sam	nple No.	
Date	e of Collection	
ure_		

STUMP, DEAD WOOD AND WOODY LITTER FORM

Job No.	Form Code	Mapsheet No.	Grid code	Lat	Long	Prsence of Dead Wood information
1 (3)	2 (2)	3(6)	4 (6)	5 (8)	6 (8)	17(1)
	10					

Stump and Dead wood: circular plot of size 2.8 m radius
Woody litter: circular plot of size 1.7 m radius

		Stump In	formation		Dea		nformation	Woody litter (branch less than 5 cm)		
Sub- plot number	Species code	Status of stump (alive/ dead)	Dia in cm.	Height in cm.	Species code	Dbh/Dia (cm)	Length of the Log (cm)	Sub-plot number	Weight (in kg upto two decimal places)	
7(1)	8 (4)	9(1)	10(3)	11(3)	12 (4)	13(3)	14 (3)	15(1)	16(4)	
					40"			1	<i>y</i>	
								2		
								3		
						Ì		4		
		A								

Date	Signature of the Crew Leader
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Shrubs, Climbers and Herbs Biomass Form

Job No.	Form Code	State Code	Mapsheet No.	Grid code	Latitude	Longitude	Sub-plot number	Shrubs & Climbers: circular plot of size 1.7 m radius
1 (3)	2 (2)	3(2)	4 (6)	5(6)	6(8)	7(8)	8 (1)	
	11							Herbs: circular plot of size 0.6 m radius

Shrubs					Climbers					Herbs			Remarks
	Weight					Weight					weight		
Spec	Woody part Non Woody part		part		Woody part		Non Woody part			Weight		_	
ies nam e	Green wt. (kg. upto two decimal places)	Dry wt. (%)	Green wt. (kg. upto two decimal places)	Dry wt. (%)	Species name	Green wt. (kg. upto two decimal places)	Dry wt. (%)	Green wt. (kg. upto two decimal places)	Dry wt. (%)	Species Name	Green wt. (gms)	Dry wt. (%)	
9	10(4)	11 (2)	12(4)	13 (2)	14	15 (4)	16 (2)	17 (4)	18 (2)	19	20(4)	21 (2)	22

Date:		Signature of Crew
Leader		
		Name of Crew Leader

