

GOVERNMENT OF HARYANA

TECHNICAL NOTE NO. 2

ENUMERATION OF STRIP FORESTS



Issued by
CHIEF CONSERVATOR OF FORESTS, HARYANA

Technical Note No. 2

2.1 *Enumeration of strip Forests* :—Enumeration of the trees growing in rail, road and canal strips is aimed at making an inventory of the growing stock and ensuring protection of these trees against illicit cutting.

2.2 *Measurement of trees* :—1. Girth of all trees down to 60 cms. will be measured at breast height (1.37 metres from ground level). The point of measurement may be shifted slightly up or down, if there is any abnormality of the stem at the breast height.

2. Forks of a tree below the breast height will be considered as separate trees.

3. The measuring tape will be placed at right angles to the stem.

4. The measurement will be made in the direction of increasing kilometre/R.D.

5. The measurement should be taken to the nearest cm.

2.3 *Numbering* :—1. Numbering of the trees will be done during the dry weather.

2. The numbers will face the road, water channel or railway track as the case may be.

3. The number will be placed on the tree just above the breast height using weather proof white paint. In case of avenue line the back-ground will be painted black.

4. A blaze 10x 10 cms. in size will be made and number of the tree will be put on this blaze.

5. The height of the figures will be 5 cms. and numbering will be done with a brush. Stencils of the required size should preferably be used for quality work.

6. The numbering shall be done separately for every manageable unit such as kilometre or R.D. In case of wider strips like G.T. Road the unit of enumeration will be 200

metres. The right and left side of the strips will be enumerated separately.

7. The re-enumeration of the trees should be carried out every 5th year.

8. The renewal of numbers which become indistinct should be the normal duty of the Forest Guard. The Range Officer will ensure that all the enumeration numbers are kept distinct.

9. The use of metallic plate for numbering should be gradually introduced. The plates shall be 6 x 5 cm. and made of used tins. These will be painted black and the numbers will be in white. The plate is fixed with iron nails at a height of 2 metres or more, if possible after removing the rough bark.

2.4 *Organisation of work*—The enumeration party will consist of a Range Assistant, the Forest Guard, a special duty Forest Guard where available and requisite number of mazdoors according to the volume of work. The Range Assistant will be incharge of the party and record the measurements in the field book. He will be responsible for the correctness in numbering and measurements. The Forest Guard will carry out the painting of numbers and the measuring of girth of the trees. The mazdoors will make the blazes and remove the bushes and climbers, if needed.

2.5 *Recording of measurements*—The measurements will be recorded in the field note book in the following proforma :—

Enumeration in.....Road/Rail/Canal strip.....
.....Beat.....Range.

K.M./R.D.	Left/ Right	Serial number of tree	Species	Girth in cm.	Condition
		Old New			

2.6 Girth Classes.

<i>Girth in cm.</i>	<i>Class</i>	<i>Volume in m³</i>
60-90	IV	0.14
90-120	III	0.57
120-150	IIA	1.13
150-180	IIB	1.98
180-210	IA	2.83
210 and above	IB	3.54

The volume table as given above is of general application and local volume table where available, will be used.

Three copies of the enumeration register will be prepared, one for the Beat Guard, one for the Range Office and one for the Divisional Office.

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K.M/R.D. Side S. No. of tree Species Girth Class Condi- Dis-

	left/ right.	New	Old	in cm.	tion	posal with Signa- ture
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3. After completion of the field work, the Range Assistant will prepare the beat enumeration register and the Range copy. The Range Officer will submit the Range copy to the Divisional Office for preparation of the Divisional Register.

4. All the enumeration registers will be signed by the Range Officer and the Range Assistant concerned.

5. The disposal of the trees will be shown by the Range Officer under his dated signatures giving reference to the appropriate authority on the pay-day at the time of checking such registers.

6. The Range Officer will submit the Range enumeration register to the Divisional Office ever year by the 15th April and the Divisional Office will make the disposal entries in the divisional copy by 31st May, every year and return the Range copies.

7. An abstract of the enumerated trees will be prepared strip wise in the sub-joined proforma annually :—

ABSTRACT

.....Canal/rail/road,.....year.

.....to..... kilometre/R.D.....right/left side

Species	No. of trees						Total	
	IV	III	IIA	IIB	IA	IB	Number of trees.	Vol. in m ³

Shisham
Kikar
Mulberry
Jaman
Mango
Misc.
Total

8. The abstract will be prepared every year, signed by the Range Officer and the Range Assistant. All cuttings in the register will also be signed by the Range Officer.

2.8 *Checking of enumerations*:—The Range Officer will check the enumerations to the extent of 10% while it is in progress. Subsequent checking by the Range Officer shall continue in different beats every month. If during the course of checking, un-enumerated trees of and above 60 cms. girth are found, these should be immediately entered in the registers giving the next serial number of the respective enumeration unit and entered at the end of the existing list of trees of the strips concerned and all the copies will be posted up to-date. To facilitate further check of the trees so added and their location, nearness to the trees already enumerated where the added tree actually exists, shall be referred to, under the serial number allotted to the tree added in bracket as well as the allotted number mentioned near the trees previously enlisted. The Range Assistant will carry out frequent checking of the enumerated trees to ensure that any illicit felling or shortage of trees is detected and reported without loss of time. He will be equally responsible for the shortage of trees.

2.9 *Transfer of charge*:—At the time of transfer of charge, the Beat Guard will carry out complete checking of trees according to the enumeration register and record the prescribed certificates in the enumeration register. Shortage of trees, if any, will be noted in the register and also reported separately.

2.10 *Control*: Enumeration of trees shall be carried out in all the Rail/Road and Canal strips under the charge of the Forest Department. In case of any strip or parts thereof where no trees exist entries to this effect shall be made in the concerned registers. The Range Officer will certify in all such cases that he has personally inspected these strips and no tree is available for enumeration. Enumeration lists will be checked with the list of forests to ensure that no strips are left out of enumeration record.

2. Each register will have an index on the first page showing the pages where the trees of each strip are listed. All the registers pertaining to a Range will be given consecutive serial numbers.

In each Range an index of enumeration registers will be prepared. This index will indicate a complete list of the strips in the Range, name of the beat and register number wherein the enumeration record is available. Similar index of the enumeration registers will be prepared and kept in the Divisional Office.