# Administration

Report of the Forest Circles in the Bombay Presidency including Sind for the year 1916-1917

## Government

# Administration report of the forest circles in the Bombay Presidency including Sind for the year 1916-1917

Digitized by M. H. Panhwar Institute of Sindh Studies, Jamshoro. پاران ایم ایچ پنھور انسٽيٽيوٽ آف سنڌ اسٽڊيز، ڄامشورو.

Provided by: www.sanipanhwar.com

## TABLE OF CONTENTS.

## CHAPTER I.

## CONSTITUTION OF STATE FORESTS.

Section 1.—Alteration in Area " 2.—Forest Settlements " 3.—Demarcation " 4.—Forest Surveys		•••	···· ···	$\begin{array}{cccc}  & Page \\  & \dots & 1 9 \\  & \dots & 3 4 \\  & \dots & 4 - 6 \\ \end{array}$
", 4.—Torest Burveys	CHAPTER II.	•••	•••	· ti

#### CHAPTER II.

•			<u></u> -,			
	M	ANAGEMENT OF ST	ATE FORESTS	3.		
Section 1Regu	lation of M	anagement		,		•
Sub-section	(b) Prelimi	ation and Control of nary Working Plan f Operations		orking Plans		38 39 )
Section 2.—Com	munications	s and Buildings-	· • •	J. spin		,
Sub-section	(b) Building		•••		12	)1 21 31
Section 3.—Prot	• •				ft.	
Sub-section	<ul><li>(a) General</li><li>(b) Protecti</li><li>(c) Protecti</li></ul>		 s from Natura	l Causes	··· 20 25	i2 i2 i9
Section 4.—Sylv	iculture—			i.	•	
	(b) Artificia	Reproduction Reproduction	••• •••	 	32	L3 2
~ · · · · · · · ·	-	ons for the Improve	ement of the	Growing Sto	ock 35	)
Section 5.—Expl						
Sub-section	(i) M	of Management lajor Forest Produ linor Forest Produ	ce	•••• (		53 )4
Sub-section	(i) D	of Exploitation- Departmental Agend	у	•••	-	)—4 }—4
· ·	(iii) B	Purchasers lights and Privilege 'ree Grants	 6	•••	44	<b>i</b> 4
Sub-section	(c) $Outturn$	and Sources of Fo	rest Produce	•••	46	4
Financial Results	1	CHAPTER	111. 		47	'5
THURDING RECORDS		· · · · · · · · · · · · · · · · · · ·	· · · · ·			
• • •	<i>.</i> .	CHAPTER	IV.		<b>.</b>	
Research and Ex	periments	•	•••		55-	5
,		CHAPTE	RV			
Administration	1	OHAL IN		•••	59-	6'
					•	
	- ,	CHAPTER	VI.		1	_
General	<b>`</b> ?	ı	•••	••••	68-	7:
Demostry of the C	omminiona	r, Northern Divisio			74	
Do.	do.	Central Division	•••	••••	75-	7'
Dò.	do.	Southern Divisio	m, ••••			7 8
	do.	in Sind	···· ``	•••• •		
' Do.			•			10
Appendices-For	ms Nos. 7 to	o 27	•••	***	81—	-10

.

## ADMINISTRATION REPORT OF THE FOREST CIRCLES IN THE BOMBAY PRESIDENCY, INCLUDING SIND, FOR THE YEAR 1916-1917.

CONSERVATORS IN CHARGE OF CIRCLES DURING THE YEAR.

Northern Circle.

W. F. D. Fisher, Esquire.

Central Circle.

O. H. L. Napier, Esquire.

Southern Circle.

T. R. Bell, Esquire.

Sind Circle.

G. R. Duxbury, Esquire.

#### CHAPTER I.

#### CONSTITUTION OF STATE FORESTS.

1.—ALTERATION IN AREA.

Northern Circle.

Class of forest.		Area o July 1		Added the y	during vear.	Excl durin yea	g the	Area or June 1		Remarks.
Reserved	•	Sq. m. 2,688	Acres. 195	Sq. m. 0	Acres. 55	Sq. m. *1	Aores. 279	Sq. m. 2,686	Acres. 611	* Of which 589 acres 88 gunthas were
Protected		488	269	0	64	0	53	488	280	assigned to a milk farm at Pálghar
Leased .	Reserved .	330	595	•••				330	595	in North Thána and 184 aores of forest land given
	Protected.	325	13	••	•		• [	325	13	up for cultivation in North Násik.
	Total	3,832	432	0	119	1	332	3,831	219	

During the year, as set forth in Government Orders Nos. 11646 and 11786 dated 28th and 30th November 1916, the Násik and Thána forest divisions were reorganized, resulting in greatly increased efficiency of the executive staff without additional expenditure.

#### Central Circle.

The forest area at the close of the year was 5,400 square miles 239 acres as against 5,436 square miles 431 acres at its commencement. Alterations in areas in charge of the department were trifling, 1 square mile 541 acres being added to reserved forest and 201 acres deducted. The main cause of the net reduction in area of 36 square miles 192 acres lay in the disforestment for cultivation of 37 square miles 526 acres of pasture forests in charge of the Revenue Department in the Poons and Ahmednagar districts. Six acres of protected forest were disforested and leased forests remained unchanged. Eight square miles 280 acres of pasture forest in the Poona division were handed over to the Revenue Department after clearance of the tree growth, and this operation is now practically completed, one village alone remaining. Areas in charge of the Forest Department now total 3,731 square miles 217 acres, in charge of the Revenue Department 1,669 square miles 22 acres.

D 15---1

#### Southern Circle.

during the	yea	11 28 10	110,49	• ·							
Class of fore	st.	Area 1st July		dur	Add ting th	led ne year.	Excl during t		Area 30th Jun	_	Remarks.
Reserved		1 A AKG	<b>2</b> 28 <sup>·</sup>	Sq.	. m. 4 0	Acres. 103 *495	Sq. m. 0 <b>*1</b> 1	Acres. 134 219	Sq. m. 4,449 	473	rectifications of errors intimated by the Forest Settle-
Protected	•••	⊧ 1 <b>3</b> 2	<b>103</b>	{	*0 1	2 181		}	133	286	ment Officer on a comparison of forest registers with survey papers and on remeasurement
Total	•••	4,588	331	{	4 *2	105 . 36	0 *11	134 219 }	4,583	119	of areas in Kánara and Dhárwár.

The total area of forest was reduced by 5 square miles and 212 acres

The real additions to, and the exclusions from, the area were 4 square miles and 105 acres, and 134 acres, respectively.

The additions to reserved forest occur mainly in the Kánara Northern and Belgaum divisions and are mostly from Government assessed waste lands relinquished by occupants and from scattered waste lands not in demand for cultivation. A few more in other divisions, wedged in between existing patches of jungles, were afforested. Disforestments in Kánara, Dhárwár and Bijápur were in the interests of agriculture.

In completion of the rearrangements of divisions in Kánara, Dhárwár and Bijápur as per Government Order No. 11396 of 27th October 1915 and in · continuation of the readjustments, referred to in the last Annual Report as introduced from 1st February and 1st May 1916, the following changes were effected in Kánara Eastern, Central and Western divisions from 1st July 1916:—

- (a) portions of the Bhartnalli and Katur ranges of the Kánara Eastern division were transferred to the Sirsi range of the Kánara Central division—resulting in the sub-division of this range into two others styled the Sirsi East and Sirsi West ranges;
- (b) a bit of the Yellápur range of the Kánara Eastern division was similarly transferred to the Kádra range of the Kánara Western division.

These interchanges have not affected the total area of the circle.

An area of 7 square miles and 133 acres of pasture forests of the Parasgad taluka in the Belgaum division was transferred from the management of the Revenue Department to that of the Forest Department to complete the blocks of the Gokák working plan, sanctioned in Government Order No. 7352 dated 25th July 1916.

Sind	Circle.
MILLU	ATT 010*

Class of forest.			a on y 1916.	Added the y	during 'ear.	Exc during	luded he year.		Area on 30th June 1917. Sq. m. Acres. 1,173 228 0 585	
~ •		Sq. m.	Acres.	Sq. m.	Acres.	Sq. m'.	Acres.	Sq. m.	Acres.	
Reserved	•••	1,159	141	32	433	18	346	1,173	228	
Protected	•••	0	585	•••	•••	· •••	•••	0	585	
Total	•••	1,160	86	32	433	18	346	1,174	173	

The alterations in area were :---

The additions comprise-

Alluvial accretion Reservation by notification Rectification on resurvey		<sup>Sq. m.</sup> 31 	Acres, 592 481
Total	••••	32	433
The exclusions were— Erosions Disforestment or transfer Rectification by resurvey	•••	18 	346 
Total	•••	18	346
The eroded area is thus classified-	•	<u> </u>	- <u></u>
Growing valuable timber New alluvium without trees New alluvium with young growth Coupes under regeneration Blanks	••• ••• •••	,	Acres. 1,502 3,840 4,077 565 1,822
Total	•••		11,866

In the previous year the total erosion was 16,180 acres.

The value of the material exploited from eroded areas (vide Government Resolution No. 804 of 2nd February 1900) was—

Approximate area eroded after exploitation		Acres. 740			
Average value per acre	••••	Rs. 6	a. 12	р. О	
Estimated value of timber before exploitation	•••	4,996	7	9	
Actual receipts	•••	4,996	7	9	
ntractors agreed to now the price ested by the de	nortm	ont			

Contractors agreed to pay the price asked by the department.

Eight hundred and twenty-two acres, 800 of which were in Allahbux, Bahadipur and Achamarho forests containing growth valued at Rs. 6,910 were eroded before exploitation was possible owing to a sudden change in the course of the river during the inundation season.

One thousand seven hundred and sixty acres threatened with erosion were exploited. The resultant material was sold for Rs. 12,494. Acquisition of kachas adjoining forest—

-		. <b>.</b>		Acres.
Kacha claims pending at	; the end	of last year		12
New claims made during	the yea:	r		31
Decided in favour of the	Forest ]	Department		31
Decided against the For	est Depa	rtment	***	Nil.
Claim withdrawn	`•••	•••	***	Nil.
Still undecided				12

Two thousand three hundred and eighty-two acres and 2 gunthas were temporarily alienated to other departments; of these 2,353 acres were handed over to the military farm near Ruk.

#### 2.—FOREST SETTLEMENTS.

Northern Circle.

These are complete.

#### Central Circle.

Settlement work consisted of the notification under section 19 of the Forest Act of 1 square mile 541 acres, comprising small areas taken up for inclusion in forest or for buildings. Under section 4 of the Act notifications regarding 22 square miles 405 acres of weste lands in West Khåndesh, and of 331 acres in other divisions were issued by Forest Settlement Officers. Outstanding work as mentioned in last year's report consists of the acquisition of teak bearing lands within the demarcation line in Sátára and Poona, and a report on the subject will shortly be submitted to Government. Minute examination of these lands has been found necessary in order to determine which are really required for forest purposes and which can be excluded for good and all, and this has delayed the submission of proposals in this important matter.

#### Southern Circle.

Four square miles and 105 acres were notified under section 19, and 2 square miles and 154 acres under section 4, of the Forest Act.

The proposals for the appointment of special Forest Settlement Officers for Kánara and Belgaum having been negatived by Government, the arrear work, detailed in the Annual Report for 1914-15, will have to be cleared in the usual way by the Assistant Collectors in the order of urgency. Proposals for afforestation of assessed waste lands in the Dhárwár and Bijápur districts were submitted to the respective Collectors during the year.

Rs. 9,674 were spent on "Forest Settlements" as under :---

			Rs.
	Acquisition of land for forest in Belgaum		1,044
	Acquisition of land for forest in Kanara S. D.		26
	Acquisition of land for a fuel depôt in Kánara C.		380
	Compensation for a building acquired for Ran	ige	000
	Forest Officer's residence at Ankola in Kana	ira	
	C. D		2,000
	Cost of the Wild Tribes (Berads) settlement	at	,
	Khánápur in the Belgaum division (G. R., J. ]		
	No. 7784, dated 30th November 1916) char		
	able to "exploitation of fuel—A-I-b" I		
	shown under the above head by the Account		-
	General		6,224
	Expenditure in 1915-16		2,594
			2,00±
	Sind Circle.		
	Area awaiting settlement at the commencement	of '	Acres.
	the year		677
	Area added by notification under section 4 of	the	
	Indian Forest Act		89
	Total	•••	766
	Area actually settled under section 19 of the Ind	ian	
	Forest Act		480
	Balance awaiting settlement	•••	286
	Expenditure		Nil.
he	need for more riverain forest in Unner Sind has	har	

The need for more riverain forest in Upper Sind has been pointed out to the Commissioner in Sind.

#### 3.—DEMARCATION.

#### Northern Circle.

Of the 109 miles remaining to complete the demarcation of the circle, 3 miles out of the 42 in Igatpuri range and 3 miles out of the 66 in the Dindori and Peint ranges were demarcated during the year, leaving 103 in all to be completed.

#### Central Circle.

In the 1915-16 report outstanding work was said to consist of 162 miles in Kolába, and 658 in the Akola and Rajur ranges, Nagar district, but forming part of the Poona division. The former figure was an underestimate, as actually 192 miles have been demarcated during the year, which completes the work in Kolába. The latter figure was largely overestimated; Akola has been completed by the demarcation of 68 miles, and 124 miles only in Rajur now remain to be taken in hand, the error in last year's figures being due to the two ranges having only a short time before been transferred to the circle, and to accurate estimation not having been made of the lines which required demarcation. In West Khandesh 26 miles of boundary of the lands under afforestation were completed.

The final results of the year were 286 miles of new boundaries costing Rs. 3,096 and 5,124 miles of existing boundaries repaired at a cost of Rs. 2,591.

#### Southern Circle.

The details of work done, and expenditure incurred, under this head are shown in Form No. 9.

New demarcation amounted to 37 miles of external boundaries as detailed below and 510 miles of internal boundaries :---

· · · · · · · · · · · · · · · · · · ·	Line d <i>em</i> arcated.	Cost.	Cost por mile.
	Miles.	Rs.	Rs.
The Mysore State frontier line in the Kánara Southern division.	.	281	47
The Portuguese territory frontier line in the Kánara Western division.	24	1,301	54
The Sávantwádi State frontier line in the Belgaum division.	6	419	70
Boandary between two inam villages and British territory in the Kalghátgi range of the Kánara Northern division.	1	<b>4</b>	4

The cost of demarcation of these frontier boundaries varies with the nature of the country according as it is covered with thick jungle and hilly or otherwise. The cost of the Mysore frontier line, for instance, which was the heaviest in 1915-16, *viz.*, Rs. 131 per mile, came down to Rs. 47 or about one-third in 1916-17. About three miles now remain to be cut of this line and about 14 miles of the Portuguese frontier line, both of which will be completed in 1917-18.

The internal lines are boundaries of betta lands, 30 miles in Kánara Central division and 480 miles in Kánara Southern division. The cost of these amounted to Rs. 223 or Rs. 0.4 per mile, being easy work. Betta demarcation is reported to be complete now and the Divisional Forest Officer, Kánara Southern division, states that the Betta Officer's establishment may be discharged from October 1917.

In the Dhárwár-Bijápur division much work of clearing old lines was done as usual with the help of villagers on the concession of removing for their own use the wood and thorns cut. It is understood that the Collector of Dhárwár has issued orders requiring inamdars to clear the common boundaries between their lands and Government forests. The Collectors of the other districts will be required to issue similar orders in their districts.

#### Sind Circle.

Internal boundaries.—The forests are divided into half-mile squares by rides 20 feet wide.

Fifty-two and one-fourth miles of new compartment lines were cut during the year by the free labour of herdsmen except in Lárkána where the 9 miles cut through thick growth cost Rs 150.

Two thousand seven hundred and seventy miles of previously cut rides were kept clear by free labour valued at Rs. 5,541.

Ninty-eight thousand one hundred and fifty-nine acres remain round which rides have still to be cut. Most of this area contains very young lai (*Tamarix gallica*) growth in kachas, which in the course of time will be replaced by babul, and the work will then be taken in hand. The Deputy Conservator found arrears of demarcation work in the Hyderabad division especially in the mature Bahan forest of Keti Khasai, and this work will be commenced at once.

**р** 15—2

*External boundaries.*—Fifteen miles and 4,224 feet were demarcated with 241 new boundary marks. Nineteen thousand and seven old boundary marks on 2,022 miles 1,787 feet of line were repaired free of cost.

#### 4.—FOREST SURVEYS.

#### Northern Circle.

None were carried out.

The total expenditure under the heading "Constitution of State Forests" was Rs. 2,200 as against Rs. 3,269 in 1915-16.

Central Circle.

None were carried out.

The total expenditure on "Constitution of State Forests" was Rs. 8,625 as against Rs. 6,630 last year.

#### Southern Circle.

There were none.

The total expenditure on the "Constitution of State Forests" was Rs. 12,586 as against Rs. 6,630 last year.

Sind Circle.

The work done by the Working Plans Assistant and his staff and the surveyors attached to each division is given below separately :----

By whom.	Division.	Biver course surveyed.	Forest bound- aries surveyed and checked.	No. of , test trees measur- ed.	Measurement of compart- ment lines.	No. of maps pre- pared.	No. of coupes marked and their area.	Levelling of bunds and drain- age pro- jects.
,	· ·	Sg. m. Feet.	Sq. m. Feet.		Sq. m. Feet.	· · ·	No. A. g.	Miles.
Working Plans	Sukkur	65 1,848	725 3,300	995	776 2,772		44 = 3,806 6	,.
Assistant and his staff.	JHyderabad			<b>4++++</b> +	 ``	<b>*****</b>	26 = 1,877 0	414 111-
	Sukkur	. 10 0	70		27 0	41	*****	
Divisional sur-	Hyderabad	125 0				275	59 = 3,366 0	
veyors.	Lárkána		2 0	+14110	•••••	21	34 = 2,876 29	
· ·	Jørruck	96 0 ′			<b></b>	20	37 = 2,278 6	15

The survey of river frontages and marking of coupes was carried out as usual by Range Forest Officers, the number of miles surveyed being  $97\frac{1}{2}$ . Fifty-four tracings were prepared in the Lárkána division. Two sets of coupes were laid out during the year, both in the Hyderabad and Jerruck divisions, as a precaution in case the amount of firewood available was not sufficient for the military contract and the markets of Lower Sind, and to enable the selection of reserves for large babul timber to be done with greater care during the ensuing working season.

#### CHAPTER II.

#### MANAGEMENT OF STATE FORESTS.

#### 1.-REGULATION AND MANAGEMENT.

(a) Preparation and Control of Regular Working Plans.

#### Northern Circle.

A plan for the hitherto unorganized forests of the South Dángs was sanctioned by Government Order No. 4726 dated 16th April 1917. The only forests remaining to be brought under working plans are those of the Central Dángs (267 square miles) and some 13 square miles of protected forests in West Thána division.

Owing to the transfer of the former Divisional Forest Officer, Panch Mabáls, to the Indian Army Reserve of Officers, the revised working plan for the Eastern Maháls was left undrafted, but its provisions, as laid down by the Superintendent of Working Plans, were applied, and the same principles are being extended to the Western Maháls forests of Godhra and Kálol. These provisions hinge mainly on the introduction of clear cutting in the place of coppice with standards, the rotation being suitably lengthened. All the Thana forest working plans, after scrutiny, approval and suggestions on the spot by the Inspector-General of Forests in the months of January-February 1917, are being similarly revised under one plan, the draft of which is still in hand, and as the matter is urgent, its provisions are being introduced in anticipation of Government sanction.

It is satisfactory to note that in each of the above cases the result has been more conservative exploitation, together with more intense management, greater economy in working, and a higher revenue—though this last has been due to continued rise in prices of all material.

The revision of the working plan of the teak forests of the Nasik divisions will, if possible, be considered in the coming year, but the reduced Imperial staff makes the matter difficult. In other forests the prescriptions of existing plans were duly carried out.

#### Central Circle.

Preparation.-The Inspector-General of Forests having been invited by Government to visit the Presidency and advise regarding the revision of existing and the preparation of new working plans, he was shown the Satpuda forests of East Khandesh for which a plan had been drawn up in the previous year, but not submitted, the Satpuda forests of North Khandesh on the revision of which the Working Plans Officer was at the time engaged, and the teak and babul forests in Poona which were under revision by the Divisional Officer. In the East Khandesh plan he recommended radical alterations, as also its combination with the North Khándesh plan, the forests of both being contiguous, of the same nature, and requiring similar treatment; in Poona he approved the lines on which the plans were based, but advised the adoption of the practice prevailing in other Provinces of having one plan for a whole division, with separate working circles for areas containing species requiring separate treatment, such practice making much for convenience and also for economy in printing. His advice on the above points is being followed and the results will reach Government during the current year. Naturally the taking in hand of the revision of all the plans of a division as a whole, instead of piecemeal as has hitherto been done, has caused delay in submission of the reports, but the delay is well worth while, and many of the Inspector-General's recommendations in matters of detail have already been brought into force.

The Working Plans Officer completed his plan for the Jávli, Wái and Sátára ranges of the Sátára division during the year, and this will shortly reach Government. It did not in all respects meet the Conservator's views and was held back for further consideration and alteration.

Control.—The prescriptions of existing plans were duly carried out subject to minor deviations resulting from shortage of labour, inferiority of growth, or inaccessibility of coupes. On the other hand, the keen demand for forest material resulted in these causes being less marked than usual and to coupes being more thoroughly worked.

#### Southern Circle.

Preparation.-Three working plans were sanctioned during the year :---

· · · · · · · · · · · · · · · · · · ·	·.	System of working.		Area.	Total cost.	Cost per square mile.
<ol> <li>(1) The Gokák fuel workin Belgaum division.</li> <li>(2) A revised plan for Bhag Blocks VIII, IX and X N. D.</li> <li>(3) A revised plan for Kirw area—Blocks XIV and X E. D.</li> </ol>	vati forests— XX in Kánara atti teak pole	standards. High for selection s tem. Coppice w standa	rest ys-	Sq. m. 149 61 30	Rs. None but sum spe few pho tive of th (23) 7,198 1,359	nt for a tos illustra-

The first plan was compiled by Mr. Hodgson, Divisional Forest Officer, Belgaum, in the course of his ordinary duties with no extra cost, for which he was granted a special allowance of Rs. 500 by Government. The other two plans were done by Mr. Miller, Divisional Forest Officer, Working Plans.

Control.—The provisions of existing plans were carried out as far as the supply of labour and demand for the produce would admit. Some work is in arrears, particularly in Kánara Western and Eastern divisions, as will be seen from the detailed statement annexed to Form No. 11 in accordance with Government Order No. 9358 of 28th September 1916.

The work of improving the beds of the Kalinadi and Kaneri for floating timber was continued but no definite results have yet been obtained. The work was done by Mr. Pipe, deputed from the Public Works Department and cost Rs. 12,997 (vide remarks under Chapter VI, 'General').

The survey of the Dándeli-Alnávar railway line (Dándeli-Távargátti in last year's report) was actually carried out this year but nothing has yet transpired as to when it is to be built. It is badly wanted.

If the railway line from Hubli to Sirsi via Kalghatgi and Mundgod, the survey of which has recently been sanctioned, is soon constructed and opened for traffic, the difficulties of forest transport, experienced in Kanara Eastern and Central divisions, will be much lessened.

#### Sind Circle.

The special work taken in hand during the year under report was in connection with the revision of the existing working plan of the forests of the Sukkur division. The field work was begun in November 1916 and completed at the end of April 1917.

The work comprised—

- (a) Resurvey of external boundaries where inaccuracy had been revealed on comparison with forest maps;
- (b) Resurvey of the course of the river Indus to ascertain and define its present position, and the changes effected by it in forest areas:
- (c) Re-measurement of compartment lines;
- (d) Measurement of sample trees;
- (e) Detailed examination of compartments with a view to ascertain the composition and condition of the growing stock, and prepare stock maps accordingly.

The total cost incurred on the field work, inclusive of the pay of the Working Plans Assistant, Sind Circle, and his staff amounted during the year to Rs. 11,575.

The data collected during the previous working season was put on paper, and a revised plan for the Lárkána division is ready for criticism by the Deputy Conservator during the ensuing touring season.

### (b) Preliminary Working Plans.

Northern Circle.

There were none.

#### • Central Circle.

None were submitted, but in Sátára data were collected by the Sub-Divisional Officer for an extension of the areas now included in the Mahábleshwár plan, a work necessitated by the ever increasing consumption of fuel at that hill-station and the importance of checking illicit cuttings to meet the demand. In Poona the Divisional Officer will include in his general plan for the division fresh areas in Máwal and elsewhere, the organization of which appeared a short time back to be quite unnecessary, but which are now readily taken up by contractors; all data for the purpose were collected by him during his tour.

#### Southern Circle.

The following plans were sent to press during the year :---

(1) The Kalghátgi range plan;

(2) The Bankápur and Hangal forest plan.

Plans under preparation :-

- Revised plan for Yellápur slopes—completed;
   Revised plan for Mundgod high forest;
- (3) Revised plan for Mundgod teak pole area;
- (4) The Honávar-Bhátkal fuel plan;
- (5) The working plan for Bijápur forests;
- (6) The Belgaum range plan;
- (7) Revised Khanapur fuel plan. (Has been submitted to the Conservator);
- (8) Revised Golihali-Godoli teak pole plan.

Nos. 1 to 5 are being prepared by Mr. Miller, Divisional Forest Officer, Working plans, and Nos. 6 to 8 by Mr. Hodgson, Divisional Forest Officer, Belgaum; but owing to the deputation of the latter as Deputy Controller of Timber Supplies under the Munitions Board to Bombay during the year and the appointment of Mr. Miller as Divisional Forest Officer, Belgaum, further progress with these plans is hardly possible until Mr. Miller is relieved of the charge of the Belgaum division or at least an independent Imperial officer becomes available for the Working Plans division.

The field work done by the Working Plans party during the year was confined to Kánara N. D. and Bijápur; the expenditure on field work was :-

> Rs. 4,223 or 5.8 pies per acre. Inspection of Bijápur forests .... Revision of Supa Blocks III,

IV and V

Rs. 3,881 or 15 pies per acre.

Total ... Rs. 8,104

#### Sind Circle.

#### Nil.

#### (c) Plans of Operations.

#### Northern Circle.

These were duly prepared and submitted by the Divisional Forest Officers. There was no important deviation from them during the year.

#### Central Circle.

These were duly prepared and carried out.

#### Southern Circle.

Plans of operations were submitted by all the Divisional Forest Officers and carried out as far as possible, expenditure on unremunerative works, such as buildings and wells, being postponed with a view to economy as in last year. In Kánara N. D., owing to the prevalence of plague and cholera and the crossing over the Kálinadi river at Bailpar being out of repair, some of the contractors in the high forest could not extract as much timber to the Tavargatti depôt as was expected. In the Belgaum division also, contractors' work has hindered to a certain extent owing to plague and cholera and the late heavy rains-which last item delayed work everywhere else also.

#### Sind Circle.

These were prepared in all divisions and carried out as far as possible.

#### 2.-COMMUNICATIONS AND BUILDINGS.

#### (a) Roads and Bridges.

#### Northern Circle.

New roads were constructed in :---

~	( liniaian (Déman)-				Rs.	
20	urat division (Dangs)-				1,000	
	Mahal-Dulda, 1 mile					
	Borkhal-Bhawandagad, 2 miles				1,000	
	Galkund-Pandwa, ½ mile			•••	1,500	
•	Málegaon-Zaria, 6 miles	÷	•		5,000	
	Málegaon-Chip ghát, 2 miles		-		1,500	
	MINICENCI-CHIL PLAN, " much				•	

р 15—3

North Thana— Káse-Udhwa, 5½ miles		<sup>Rs.</sup> 3,410
West Thnda		677
Potgaon-Badlápur, 1 mile		14,087
Cart tracks in East Thána and South Násik	•••	2,926
Total, New works Total repairs in the circle, 196 miles		17 013 7,816
Grand total, Roads	•••	24,829

#### Central Circle.

The total expenditure under this head was Rs. 9,378 as against Rs. 8,277 in 1915-16, 10 miles of new roads being constructed or partially so, or surveyed, at a cost of Rs. 2,071, and 144 miles of existing roads and paths repaired at a cost of Rs. 7,307.

In North Khandesh the final 3 miles of the Hisala-Bhoiti road, 10 miles long in all, were cut and levelled; though open to carts and already giving increased facilities for exploitation of coupes, this section still requires to be metalled before being fit to carry heavy traffic. On the Wasardi-Kodit road consolidation was continued, and extension towards Malkátar will be taken up. Other work consisted of conversion of bullock tracks into cart tracks, and of repairs to bridle paths. The advantage of pushing road communications deeper into the Sátpuda hills and of opening out areas from which at present none but the most valuable material is removable, is being kept in mind, and the work will be pushed on as quickly as funds and labour are available. The Conservator discussed these matters on the spot with the Divisional Forest Officer, and also inspected the alignment proposed by the Forest Department for the road into the Akráni, as an alternative to that proposed by the Public Works Department. From the forest point of view the former is incomparably the better, and Government have already ordered the Public Works Department to consider the point in detail.

In East Khandesh no work was carried out beyond improvement of difficult gradients on the rough cart tracks that alone exist in the Satpudas. The country is difficult in the extreme, and careful surveys were the first essential. For this purpose a special surveyor was engaged, and 36 miles carefully aligned and pegged out. Systematic construction for a number of years can now commence; until these hills are properly opened up, the forests can never yield their full value.

In West Khandesh existing roads were repaired and improved. The Local Board road from Nawapur to Borzár is now almost finished, a work of great utility to the Forest Department, and to the maintenance of which on completion the latter has undertaken to contribute for a period of ten years.

In Poona 1 mile of ghát crest bridle path was converted into a cart track, giving access to a village 9 miles from Lonávla, a locality where there are considerable prospects of an increase in forest exploitation. Existing roads and bridle paths were kept in repair.

In Satara the question of the partial abandonment of the Koyna valley road scheme referred to in last year's report is now before Government. The Vang valley road was repaired, and improved by the construction of Irish bridges, but further work in this direction is still required; the full utility of this road is somewhat detracted from by the bad state of repair in which its continuation towards the east is kept by the Local Board, and the Forest Department is proposing to take over this section if the Board will contribute the amount they now allot for repairs. Further extensions to the west into teak-bearing areas are contemplated.

In Kolába the few existing tracks were repaired.

#### Southern Circle.

Division.		Name of work.	Dis	Cost.	
		Traile of work.	Miles.	Miles. Furlongs.	
Kánará N. D.	{	Fansoli-Bavlázára road Dabinkol road Kalghátgi-Kudalgi road Haliyál-Kávalgad road Kalkeri road Cycle paths	3 1 3 7 3	4 6  	Rs. 1,196 264 443 1,117 1,395 80
Kánara E. D.		<ul> <li>5 bridges on Gunjávati-Kyatnalli road.</li> <li>2 bridges on Katur-Bomanhalli road.</li> <li>Dowginalla-Lalguli and Lalguli- Ghosemani roads.</li> <li>Katur-Bomanhalli road</li> <li>Baildundur-Basyánkop road</li> <li>Armáne-Hakkal road</li> <li>Venkátápur-Arekop road</li> <li>Chitgeri-Kurli road</li> <li>Mundgod-Dhundshi road</li> </ul>	 7 2 3 1 2 4 5	···· ··· 4 4 1 	500 524 } 1,180
Kánara C, D.	•••	Hattikeri-Gule road	2		377
Kánara W. D.	{	Kadra-Shivpur road—extension with 48 culverts on the road. Cycle paths	9 18	••••	8,818 74
Belgaum	{	Gunji-Shiroli road } Kapbárgi-Muchandi road } Completion of bridges on local fund roads.	7	3	960 1,582

Rs. 18,460 were spent on the construction of the undermentioned roads and bridges during the year as against Rs. 12,846 last year :--

Of the above, the last five only are new constructions. The Kadra-Shivpur road, costing in difficult places up to the present Rs. 1,000 and over per mile, will be one of the most important in Kanara as it will ensure the extraction of heavy timber from Gund and the Kalinadi valley. When the six extra miles aligned up to the Holegadda slide during the year is . constructed and made fit for cart traffic, the whole road will be very useful and remunerative. The expenditure of Rs. 560 on the Kanbárgi road has raised the fuel revenue of the fellings affected from Rs. 1,930 in 1915-16 to Rs. 5,980 in 1916-17, or by Rs. 4,050.

A detailed scheme of forest roads was submitted to the Commissioner. S. D., in connection with the measures to be taken for obtaining additional revenue and orders thereon are awaited.

About 304 miles of forest roads and paths, besides the above, were repaired at a total cost of Rs. 25,205, compared with 252 miles repaired for Rs. 26,770 in the previous year.

The usual contribution of Rs. 5,000 was paid by each of the Kánara Northern and Western divisions for repairs of Local Board roads.

#### Sind Circle.

In Sind water carriage is usually resorted to, there is no metal for permanent forest roads, but the 20 feet rides throughout the forest are used to convey the material to the river banks, etc. These were repaired free of cost in all divisions.

21

#### (b) Buildings.

			-
Nor	ther	n Ci	rele.

Northorn Ortho.		
The following buildings were constructed in :		_
Surat—		$\cdot$ Rs.
Dharamshala at Fort Songad to accommodate tin merchants during auction sale period	aber 	3,750 500
Additional ward to Ahwa jail	•••	. 000
North Thána—	_	
Offices and quarters for the Range Forest Office the three newly created ranges	rs of 	13,107
East Thána—		
Guards' posts (kachha)	•••	60
Total, New works Repairs	•••	17,417 2,734
Grand total, Buildings	•	20,151

#### Central Circle.

Expenditure under this head was Rs. 250 only on new works, Rs. 200 being spent on the completion of a guard's post in Sátára and Rs. 50 on temporary guard's quarters in Kolába. Elsewhere for financial reasons no buildings could be undertaken. Repairs to existing buildings cost Rs. 2,188. The provision of inspection bungalows in North Khándesh is very necessary; tent life there in the hot weather with no shade available does not conduce to an officer's health and efficiency, and it is hoped to start on a definite programme as soon as circumstances admit. On the housing of the subordinate establishment also there is much to be done in all divisions.

#### Southern Circle.

The cost of new buildings was Rs. 2,227 as under :---

	Rs.
Kanara S. D.—Guards' quarters at Bhatkal	827
Dhárwár-Bijápur.—Guards' quarters at Makarwalli.	619
BelgaumGuards' temporary huts, six	52
Rest-house at Nagargali completed	490
Kánara N. DMinor fittings to rest-houses	84
Paving the floor of the Divisional Forest Office with stones	48
Guard's naka at Kambarganvi— special repairs	107
Total for 1916-1917	2,227
Total for 1915-1916	12,439
Total for 1914-1915	29,981

The above comparison shows how expenditure has to be curtailed from year to year for the sake of economy, though many buildings are urgently required.

Repairs to buildings cost Rs. 6,017 against Rs. 4,127 last year.

#### Sind Circle.

Rs. 125 on paving with pacca brick the floors of the office, record room and verandah of the Range Forest Officer, Abad; Rs. 197 on paving with pacca brick the floor of the quarters of the Range Forest Officer, Abad, including verandah.

Lárkána— Rs. 258 on building a new compound wall round the depôt at Lárkána. Repairs to existing buildings cost Rs. 2,214. The Public Works Department spent Rs. 177 on repairs to buildings 1 in Sukkur. (c) Miscellaneous. Northern Circle. Rs. The partial sinking of five wells in the Dangs of de sur Surat and one each in North Thana and South t t Násik … 1,540 Deepening and cleaning of existing wells in several S. 1 districts 833 - [1] Total, Miscellaneous 2,373 ... Central Circle. Rs. 622 were spent on wells including repairs in all divisions and one new work in West Khandesh. In Kolaba wire fencing of a casuarina plantation cost Rs. 449. Southern Circle. Rs. ... Construction of a waterway in the Káneri Kánara W. D. and Kalinadi rivers for floating timber from the Gund plateau forests to the Kodihág denôt-preliminary opera Kodiháo

		<b>FOUID</b>	¦g dep≎t-	-pr	eliminary op	oera-	
•		tions	,	-	•••	•••	12,997
,		1 tank at	Tinaighát	t	•••	•••	885.
Belgaum	•••	1 well at			•••	•••	500
		1 well at	Nágargali	- <b>c</b>	ommenced	•••	132
Dhárwár-Bijápur	•••	1 well at	Hangal	nea	rly finished	•••	400
Kánara C. D.		1 well at			•••		350
Kánara E. D.	•••	1 well at 1 well at	Chitgeri Kálkeri	••••	commenced	•••	306
Kánara N. D.	•••	T tank at	Kulai Ambgaon		special repair	8.	155
		-		ሞፊቶ	al for 1916-17	-	15 705
						•••	15,725

Total for 1915-16 ... 393

The telephone connections between Yellápur and Kirwatti (Kánara E. D.) and between Tavargatti and Dándeli (Kánara N. D.) were maintained at annual rentals of Rs. 335 and Rs. 450, respectively.

#### Sind Circle.

New minor irrigation works were undertaken by the department as follows at a cost of Rs. 788 :---

Lárkána—

Ł,

Construction of a new line I in IT- constant for forest to been	16.
Construction of a new bund in Hassanwahan forest to keep forest irrigation water off local fund road	155
Construction of a culvert for local fund road in Hassan- wahan forest	397
This work was carried out under the orders of the Deputy Conservator as forest irrigation water had damaged the local fund road, and was likely to damage it in the future.	
Sukkur Bund in Shergarh forest, Abad range	236

Repairs to existing irrigation works cost Rs. 2,593.

	uck— Repairs to bund in Penah and Huderani forests …	85
•	Construction of a sluice for irrigation of Penah and Huderani forests	5,070
۹ .	Excavation of karia ex the sluice in Mulchand-Shahbunder bund and rebuilding of sluice (Shikar wah)	2,406
	Repairing of Gharko forest bund	150
	Construction of pacca sluice Taki 46 right side Kalri wah	157
Suk	kur—	
7	Constructing a pacca sluice ex-Mahesro wah	,211
	Repairs to sluices and bunds	4(

3.-PROTECTION OF FORESTS.

## (a) General Protection.

#### Northern Circle.

Statement of offences by nature and treatment and comparison with former years.

																	<u> </u>	
	-	Cas	A es tak Cour	en inte t.	•	Case	B s com	pound	eđ.	Саве	Ö bav ze	etecte	a.		Tot	al.	۱    ا	
Division	•	Injury to forests by fire.	Unauthorized fellings.	Grazing without permission.	Other offences.	Injury to forests by fire.	Unauthorized fellings.	Grazing without permission.	Other offences.	Injury to forests by fire.	Unauthorized fellings.	Grazing without permission.	Other offences.	Injury to forests by fire.	Unauthorized fellings.	Grazing without permission.	Other offences.	Grand total.
	(1916-17	 δ :	16	18	1	6	550	824	18	50	256	1		61	822	843	19	1,745
Panch Maháls	1915-16	б	· 2	10		7	571	853	76	43	275	1	6	55	848	864	82	1,849
	(1916-17	3	1		3	16	21	36	10	2	3		•••	21	25	36	13 <sub>.</sub>	95
Surat	1915-16	4	2		•••	· 4	19	20	8	4	1	•	2	12	22	20	10	64
	<b>/ 1916-17</b>		21	1			191	228	27	55	151			55	363	229	27	674
North Thána	1915-16	1	13	1	1	4	142	197	31	57	195		2	62	290	198	<b>54</b>	<b>584</b>
West Thána	( <sup>1916-17</sup>	6	27	9	1	4	197	<b>8</b> 62	26	91	115	2	3	41	839	373	<b>3</b> 0	783
West Thank	1915-16	3	9	13	2	1	259.	368	35	71	191	2	1	75	449	383	<b>3</b> 8	945
East Thána	1916-17	5	18	6	4	9	329	240	48	. 64	113	7	1	78	460	253	53	844
Базі Тпада	1915-16	4	17	12	4	5	315	248	60	66	124	1		75	456	251	65	857
South Násik	∫ <sup>1916-17</sup>	1	7	9	2	5	163	123	38	41	36	••••		47	206	132	40	425
DOUDI HASIAN	1915-16	1	3	7	3	7	142	128	22	42	41			50	186	135	25	396
North Násik	∫ <sup>1916-17,</sup>	. 1	. 8	3	, <b>1</b>	1	180	334	46	6	14		1	8	202	337	48	595
HOIM HASIA	`\1915-16	. 1	6	2	1	8	239	914	53	22	37			26	282	316	54	677
Násik Sub	· 2 1916-17		3	5	***	1	301	278	11	13	36			14	340	283	. 1İ	648
Division.	€ 1915-16	1	5	7	1	1	229	351	22	13	23	<u> </u>	1	15	257	358	24	654
Total of	1916-17	21	101	51	12	42	1, <del>9</del> 32	2,425	224	262	724	10	5	825	2,757	2,486	241	5,809
Total of	1915-16	20	57	. 52	12	32	1,916	2,479	807	318	817	4	12	870	2,790	2,535	331	6,026
Average of thr	the past see years.	52	i 63	58	13	40	2,014	2,061	258	870	870	5	12	462	2,946	2,124	283	5,816

The circle figures for the year are unremarkable. Protection generally was as satisfactory as can be reasonably hoped for in view of the steadily increasing state of inefficiency and shortage of staff, especially the former. The forest protective staff is the guard of an otherwise open treasury and requires greater immunity from common want. The uncertainty of prospects under a graded cadre of appointments accentuates present hardship. Protection against theft.—The total number of cases of illicit fellings reported was approximately the same as last year, being 2,757 against 2,790. The number of cases prosecuted rose from 57 to 101—every division showing an increase owing to the need for deterrent action. Compounded cases rose from 1,916 to 1,932 and undetected cases fell from 817 to 724, which are tendencies in the right direction. The number of unreported cases is legion, but if adequate notice were taken of these the staff would be so reduced as to make work impossible.

Panch Maháls—The return from this division shows little diminution from the excessive figure of last year, then attributed to scarcity. It is hoped that the Divisional Forest Officer's remark about increased vigilance is the real explanation. More energy is required throughout.

Surat—This is the only division in which protection is really satisfactory. It is so *in spite* of difficulty with establishment which is chronic, and due to the extensive privileges of a small population and the paramount position of the Divisional Forest Officer. The inefficiency of the staff is chiefly felt in sylvicultural matters to the detriment of the future crop.

North Thána—The Divisional Forest Officer writes that theft of the best young teak is on the increase owing to the absence of the large bamboo which died six or seven years ago. He hopes to mitigate the evil by supply from thinnings under the revised working plan introduced this year. The worst of it is that in the absence of an efficient staff these casual misfortunes show the people our helplessness and give rise to temptations which threaten to assume the form of habit.

West Thána—In recording a decrease of unauthorized fellings reported in all ranges except Kalyán the Divisional Forest Officer says: "To my mind the improvement is more apparent than real. I am afraid in some rounds the offences are not correctly reported." It is satisfactory to note that in the last three years a reduction of offences in Bassein from 172 to 89 is attributable to the satisfactory working of special depôts in that taluka. The monetary loss to Government by such arrangements is considerable but is deemed justified and similar depôts are suggested for Thána, Bhiwandi and Murbád. The matter will be considered, but each case must rest on its merits or the whole country side will demand Government usurping the place of the retail trader.

East Thána—The Divisional Forest Officer mentions an increase in the number of offences in Igatpuri and South Sháhápur ranges but hopes the newly started firewood depôt at the former place will improve matters especially when he starts one at Ghoti also. There is justification for both these depôts. The increase in South Sháhápur was anticipated and is due to better reporting since the creation of the new range.

South Násik—The protection in the above-ghát portions of the Dindori range is, as usual, the worst in all respects, in spite of repeated warnings and communal punishments. It is bad also in Násik. In Dindori four villages have been reported to the Collector with the recommendation for the levying of double grazing fees and twenty-two villages are reported for warnings; while in Násik range two villages have been reported for double grazing fees and fourteen for warnings. The firewood depôt at Trimbak was carried on with some effect but, as usual, much difficulty was experienced in obtaining labour.

North Násik.—A decrease from  $282 \cdot to 202$  cases is reported. This is undoubtedly a false picture and as the Divisional Forest Officer remarks regarding reduction in reported offences generally "...indicates slackness on the part of subordinates especially in Kálwan". An able Ranger has recently been appointed in Kálwan in the place of the late man who was long past for active work and it is hoped things will now improve.

Nasik Sub-Division.—The figures in this charge show a considerable increase, doubtless due to its consisting of an area which up to date has had little inspection from superior officers. These are early days to say more.

#### Central Circle.

The following t	able classifie	es the numb	er of	offend	es reported	during the
The following t year as compared	with those	of 1915-16	and	with	the average	of the three
preceding years :		•	•, •			•
Diacaning Again.						

·	Cases	A taken	into C	ourt.	Cases	B compo warn	unded ed.	land	Car		) detect	eđ.		Te	otal.		Gra to	tal.
Division.	Injury to forests by fire.	Unauthorized fellings.	Grazing without permis- sion.	Other offences.	Injury to forests by fire.	Unauthorized fellings.	Grazing without permis- sion.	Other offences.	Injury to forests by fire.	Unauthorized fellings.	Grazing without permis- sion.	Other offences.	Injury to forests by fire.	Unauthorized fellings.	Grazing without permis- sion.	Other offences.	1916-1917.	1915-1916.
East Khándesh.	7	17	16	16	7	238	318	162	47	.64	3	3	61	319	337	181	898	793
West Khåndesh.	9	5	`5	1	1	199	395	. 32	55	75	8		65	279	403	33	780	693
NorthKhåndesh	6	2	1	8	12	171	144	64	43	103	2		61	276	147	67	551	590
Poona	4	25	26	8	33	767	878	194	83	128	6	1	120	920	910	203	2,153	1,905
Sátára	3	22	11	2	26	455	476	121	56	46		6	85	52 <b>3</b>	487	129	1,224	1,091
Kolába	23	128	35	13	12	314	380	65	36	286	4	6	71	728	419	84	1,302	1,273
Total of 1916-17.	52	199	· • 94	43	91	2,144	2,591	638	320	702	18	16	463	3,045	2,703	697	6,908	
Total of 1915-16.	30	235	84	79	64	1,960	2,326	449	282	727	20	19	376	2,922	2,430	547		6,275
Average of the three pre ceding year 1912-13 to 1914-15	- 5 7	251	116	52	82	2,577	2,225	549	267	787	12	9	402	3,609	2,353	610	6,974	

The total shows an increase of 633 as compared with 1915-16, every class of offence contributing, fires by 87, fellings by 123, grazing by 273 and other offences by 150. Comparing results with the previous three year average, fires increased by 61, felling decreased by 564, and grazings and other offences increased respectively by 350 and 87, giving a total decrease of 66.

Fires and grazing are dealt with in detail later; as regards illicit fellings the variations, whether increase or decrease, are hardly of sufficient importance to call for much comment; the main point is that no serious thefts took place. As is only to be expected, the divisions that show an increase are Poona, Sátára and Kolába, those where there is least growth outside forest limits, and where temptation to commit depredations on forest to meet petty requirements is greatest; in this connection the evacuation of villages in several talukas of Poona on account of plague is said to have led villagers to steal forest material for erection of temporary huts. Other offences mostly consisted of encroachments on forest boundaries and breaches of the rules for control of forest material in transit.

Cases of the year taken into court numbered 388 as against 428. Including cases pending from 1915-16, 390 involving 956 persons, were disposed of. Of these 3 were withdrawn, and of the remaining 387,344 or 88.8 per cent., involving 843 persons, resulted in convictions, and 43 or 11.2 per cent., with 113 persons in acquittals. North Khándesh for the second year in succession had 100 per cent. of convictions. Prosecution was only resorted to in comparatively serious cases or where offenders refused to compound, for every case taken into ccurt means that the time of forest officials is wasted when it could be far more profitably employed elsewhere. In one case only had a Divisional Officer to make representations to the District Magistrate regarding an inadequate sentence.

The number of cases compounded rose from 4,230 to 4,966; those in which offenders were merely warned fell from 569 to 498, and undetected cases rose from 1,048 to 1,056. The amount of compensation taken was Rs. 33,833, or an average of Rs. 3-13-11 from 8,741 persons.

Offences are summarized below according to the jurisdictions of two Commissioners.

	East, We		l Division :	Divisions in the Southern Division ;— Koliba.					
	1915-16.	1916-17,	Plus or minus.	1915-16.	1916-17.	Plus or minus.			
Total offences ,	No. 5,002	No. 5,606	+ 604	No. 1,273	No. 1,302	+ 29			
Fires	• 333	392	+ 59	43	71	+ 28			
Fellings	2,191	2,317	+ 126	731	728	- 3			
Grazing	2,091	2,284	+ 193	339	419	+ 80			
Other offences	387	613	+ 226	160	· 8 <b>1</b>	- 76			
Cases taken into Court	214	189	- 25	214	199	- 15			
Cases disposed of	208	188	- 20	217	199	- 18			
Percentage of convic- tions.	95.6	<b>92</b> ·2	 	Ð1.9	85.9	-			
Cases compounded	3,776	- 4,441	-+ 665	454	525	+ 71			
Compensation taken, Rs	30,356	32,408	+ 2,052	1,617	1,425	-192			
Cases warned No	258	252	- 6	311	246	- 65			
Offenders not traced	754	72	30	294	332	+ 38			

Communal punishment in the shape of enhancement of grazing fees or suspension of privileges was inflicted by the Collectors of Poona and Kolába on twenty-one villages where persistent damage by cutting or grazing had taken place; on the other hand in the former division in five villages where such punishment had resulted in improved behaviour, grazing fees were again reduced to the normal rate. In Kolába the system was continued of working selected coupes for the supply of timber, firewood and agricultural implements to the coast towns and villages; previously these people having no other source from which their wants could be met, and seeing the outturn from the forests all exported to Bombay, were driven to purchase from Katkaries and Thakurs who in their turn had to manufacture dead wood to keep up the supply. The system while of great convenience to the public is of equally great benefit to the forests in that it does away with the main incentive to abuse of the dead wood privilege by the wild tribes. From 15 depôts established for the above purpose 1,874 agricultural implements and 8,830,976 lbs. of fuel were sold by the coupe contractors.

A further indirect measure which is no less in the interests of forest protection than of the public is the tahal campaign carried on in Kolába by Revenue and Forest officers; for an increase in the supply available from private lands must cause a corresponding decrease in depredations on the forests. While a noticeable improvement is apparent in methods of cutting, it cannot be said that there is as yet any inclination on the part of landholders to increase the supply by artificial propagation. For breaches of tahal rules three villages were punished by doubling of grazing fees or suspension of privileges, and for notably good work one village had its grazing fees remitted.

#### Southern Circle.

The following table gives the number and classification of forest offences reported during the year, as compared with those of 1915-16 and with the average of the past three years :--

**D** 15—5

· · · · · · · · · · · · · · · · · · ·	Tak	A en into c	ourt.	0	B ompoun	de <b>d.</b>	[t	C Indetect	ed.			
Nature of offence.	1916-17.	1915-16.	Average of past 8 years.	1916-17.	1915-16.	Average of past Syears.	1916-17.	1915-16.	Average of past Syears.	1916-17.	1915-16.	Average of past Syears
I.—Injury by fire	27	<b>28</b>	28	125	68	- •81	989	890	736	1,141	976	812
IIUnauthorized fellings	96	5A	190	2,384	2,455	2,601	\$51	876	473	2,883	2,888	8,194
III Unauthorized	32	-21	46	1,341	1,998	1,314	16	13	15	1,389	1,367	1,975
-IVOther offences	18	5	9	261	302	831	3	9	n	289	816	351
Total	175	m	903	4,111	4,148	4,897	1,859	1,278	1,235	5,645	6,537	5,765

The total number of offences reported exceeded those of the previous year by 108 but were less than the average of the past three years by 120.

There was an increase in the number of fires, due to a larger number detected in betta lands of Kánara C. D., as per new betta rules introduced from February 1917 and to the several fires in the Siddápur range of Kánara S. D., purposely set by people to manufacture dead wood.

The offences of unauthorized grazing also slightly increased in Kånara N. D. and E. D. and Belgaum. The increase is ascribed to greater vigilance on the part of the staff and to more systematic reporting rather than to any actual increase of cases.

Unauthorized fellings and other offences decreased notably in Kánara S. D.

The policy of rewarding forest subordinates and villagers for detecting forest offences and punishing them for neglect was continued.

The results of cases tried by courts are compared in the following table :--

District	1916	9-17.	1915	-16.	Percentage of acquittals.			
Division.	Convictions.	Acquittals.	Convictions.	Acquittals.	1916-17.	1915-16.		
Kánara N. D Kánara E. D Kánara C. D Kánara S. D Kánara W. D Belgaum Dhárwár-Bijápur.	11 5 23 41 20 27 8 1	2 1 9 11 2 2 2 	13 4 8 36 6 16 21 1	2 4 4 17 5 3 3 	15•4 16•7 23·0 21·2 9 1 6·9 20·0	13·3 50·0 83·3 92·1 45·4 15·8 12·5		
Total	136	29	105	83	17.6	26.0		

The percentage of acquittals has decreused by 9 per cent. and is shared by all divisions except Kánara N. D. and Dhárwár-Bijápur.

Cases sent to court were largely those in which the offenders refused to compound; only 2.9 per cent of the t til cases of the year were thus dealt with.

There was formerly a bad practice in Kánara which caused a lot of trouble to both the Magistrates and the forest staff. The fines levied by subordinate Magistrates from offenders were generally much less than the compensation originally fixed by the Forest Department with the result that offenders naturally refused to compound and preferred to go to courts. The Collector has, however, suitably dealt with such instances and they are not likely to give further trouble.

There were four important cases during the year, one in Kánara E. D. and three in Kánara C. D. In the Yellápur range of the former a serious case of theft of timber was detected, in which heavy compensation was recovered from offenders. In the latter a certain Mahomedan of Isloor in the Sirsi range who systematically committed forest offences in the past was caught in two cases of theft of timber and fined Rs. 513 by the Sub-Divisional Magistrate, Sirsi. In another case of illicit cutting the offender was fined Rs. 300 by the court but, owing to some error in the legal procedure, the case was ordered to be re-tried and is pending disposal. The person who gave false evidence in the case of assault on a guard of the Badámi range in the Bijápur sub-division, referred to in the last report, was tried and convicted.

The number of cases compounded and the compensation recovered are compared in the following table :---

19	16-17.	, <b>19</b> 1	5-16.	Average of past three years.					
No. of cases.	Compensation.	No. of cases.	Compensation.	No. of cases.	Compensation.				
	Rs.	s	Rs.		Rs.				
3,785	23,873	3,809	21,397	3,906	20,975				

Nine-hundred and ninety-five offenders involved in 379 cases were let off with simple warning.

The number of undetected offences rose from 1,278 last year to 1,359 during the year, the increase being due to fires which are always difficult to trace.

Sind Circle.

The classification of forest offences detected during the year is given in the following prescribed form :—

•	Cases	ı taker	into (	Court.	Ca	568 CO)	проин	ded.	Ca	998 UZ	detec	ted,		To	tal.		[
Division.	Fires.	Unauthorized fel- lings.	Illickt grazing.	Other offences.	Fires.	Unauthorized fel- lings.	Illicit grazing.	Other offences.	Fires.	Unauthorized fel- lings.	Illicit grazing.	Other offences.	Firee.	Unauthorized fel- lings.	Illicit grazing.	Other offences.	Grand total.
Sukkur	8	52	111	2		598	808	6	50	1 404	[		52	1.054	819	8	1 000
	<b>°</b>	9	6	1	••• ·	917	950	5	28	61		***	22	287	256		1,933
Lárkána	-				***	1 .				1		***				6	671
Hyderabad		31	5	1		\$48	731	. 90	8	22	1.	•••	8	801	787	<u>21</u>	1,067
Jerruck	1	5			1	87	160	1	5	7	•••	•••	T	99	160	1	267
Total of 1916-17	3	97	22 (	4	1	1,150	1,949	32	85	494	1	•••	89	1,741	1,972	86	8,838
Total of 1915-16	8	97	53	22	1	1,153	2,699	23	158	892		·	167	1,642	2,752	45	4,606
Average of past three years.	4	80	28 (	18	1	878	2,407	31	135	848		4	140	1,900	2,436	52	8,925

The total number of cases is less by 90 than the average of the past three years and is less under every head but that of unauthorized fellings. There is a great increase in the number of cases of unauthorized fellings reported; this number varies directly with the amount of walking done by the administrative officers.

Rain in the Kohistán hills during the month of March kept the number of illicit grazing cases down considerably, the total number being 1,972 compared with 2,752 during the previous year, and 2,436 the average of the past three years.

Undetected cases increased from 550 to 580 as compared with a threeyearly average of 482, but the increase was entirely under the head of unauthorized fellings. The form itself gives all statistical details.

The 3,132 cases compounded produced Rs. 11,937 in compensation as compared with 3,876 cases and Rs. 12,919 of last year.

Eighty-one cases were let off with a warning against 153 of the previous year.

	Pending from last Cases of the year	year 	,	•••	54 126
•		•			
-			Total	•••	180

Of these 122 were decided during the year, three cases pending last year in the Jerruck division were withdrawn, and two compounded. Of the 122 cases 94 resulted in conviction and 28 in acquittal: the percentage of acquittals being as follows :---

0-10.
3.7
) <b>°</b> O.
•69
~~
3•9

Out of the 23 cases lost in Sukkur no less than 16 were in the Kot Sultán range alone where they were tried by the Honorary Second Class Magistrate.

The two fire cases taken to court in the Sukkur range were not decided by the end of the year.

A case of obstructing a forest guard in the performance of his duty was successfully prosecuted in the Lárkána division, and a similar result was obtained in the Hála range of Hyderabad division. In the latter case the accused was sentenced to one month's rigorous imprisonment. In another case in which the services of the Public Prosecutor were obtained the nine accused were fined Rs. 40 each. It is satisfactory to note that all the eight cases reported pending in the Hyderabad division last year ended in conviction.

#### (b) Protection from Fire.

#### Northern Circle.

On the whole the fire protection of the circle was satisfactory there being 317 fires burning 24,119 acres as against 362 fires burning 38,576 in the last year, a reduction of  $12\frac{1}{2}$  per cent. in number and 37 per cent. in the area and last year showed a marked improvement on former years. Circumstances in different districts vary very much and it is difficult to find any common cause for the improvement recorded. That rainy weather continued till the end of November and began again at the end of April doubtless reduced the area burnt in many instances. There is also little doubt that the people generally are steadily acquiescing to a greater extent in the undesirability of firing the forests. The disappearance of dead bamboos has relieved the forests of much inflammable material in many localities. Incendiarism continued in the old centres but was less extensive and continued to show an absence of malice towards the department, hunting and local jealousies among those interested in grass being the motives.

Panch Maháls.—Actual fires (neglecting mere breaches of rules) were 53 burning 5,573 acres as against 47 burning 4,874 acres in the last year. The Divisional Forest Officer's explanation that last year being a year of scarcity taught the people to protect their grass is a little difficult to accept. The figures of both years are about half the normal and when it is found that in spite of a normal season grazing offences maintained famine proportions it is feared that the reduction of fires was partly due to the absence of grass, which cannot be eaten and burnt.

Surat.—Results were as good as usual.

North Thána.—There were 55 fires burning 4,465 acres against an average of 59 fires burning 4,645. Half the area burnt is closed forest. The Dahánu range showed by far the worst result but it is noted that the Range Forest Officer was very short of roundguards owing to sickness. Results are satisfactory.

West Thána,—There were only 41 fires burning 1,544 acres as against 75 burning 5,126 acres last year. The decrease is attributed to a very wet season. Eight fires are stated to have been cases of incendiarism of which

1

six were made cases of prosecution. Only three were disposed of during the year and three were pending at the close which shows very undesirable delay in disposal. Of those disposed of, punishments varying from a fine of Rs. 2 to Rs. 10 were given, displaying a lack of appreciation of the gravity of the offence by the trying magistrates.

21

East Thána.—There were 78 fires burning 7,732 acres as against 75 • burning 9,992 acres in the last year. Except in the Tansa catchment area fires were not serious and in this centre of incendiarism the area burnt has been reduced by 50 per cent. in the last three years—a very satisfactory result.

South Násik.—There were 47 fires burning 3,231 acres as against 50 burning 4,469 acres in the last year. Dindori range was answerable for 26 fires burning 2,419 acres and Násik for 15 burning 549 acres. The valuable forests of Peint are almost immune from fires. There was only one fire in these ranges, viz., of 215 acres in North Peint. Some cartmen who were responsible were caught and punished.

North Ndsik.—A decrease from 26 fires burning 5,404 in the last year to 8 fires burning 250 acres is at first rather startling, but last year showed a big increase over the former years, and the average of the last three years is still only 16 fires, so that coupled with a wet season the result is not so surprising. The Divisional Forest Officer describes it as a 'lucky' year in fire conservancy. The Conservator fears it is largely 'luck' where slackness among subordinates is recognized.

Násik Sub-division.—This sub-division shows one fire less than last year but a reduction of two-tHird of the area burnt. No reason is given.

The following statement required by Government Resolution No. 248 of 12th January 1904 shows the area protected :---

		Total forest	Extent of valuable	Proportion of valuable	Extent of	Exter	Extent of forest burnt.			
Division.		aréa of the forest f division in which c charge of tinuous the Forest tection f Department. fire is		forest for which ccn- inuous pro- ection from fire is desirable. forest which hay been continuously protected from fire for five years.		Open forest.	Closed forest.	Total.		
		Acres.	Acres.	Percentage.	Acres.	Acres.	Aores.	Acres.		
Panch Maháls		2,12,152	2,12,152	74.7		1,679	3,894	5,578		
Burat .	•••	4,63,507	4,63,507	99.3		42	81	73		
North Thána	••••	2,08,206	2,08,206	90-8		2,373	* 2,092	4,465		
West Thána		2,05,974	1,97,778	88· <b>4</b>	1,500	914 <sub>.</sub>	630	1,544		
East Thána 🧳		2,94,530	2,80,531	70-2	4,856	2,869	4,863	7,782		
South Násik	•••	2,17,860	2,17,860	95·9	1 1	2,105	1,126	8,231		
North Násik		3,16,214	2,75,102	97.9	49,920	100	150	250		
Násik Sub-division		1,65,133	1,65,138	78-6	J l	867	884	1,251		
Total		20,83,576	20,20,269	<u>89</u> ∙0	55,776	10,449	18,670	24,119		

#### Central Circle.

The number of fires increased by 75, from 432 in 1915-16 to 507 in the year under report, and the area burned by 48,741. acres, from 1,55,471 to 2,04,212. Separating the figures for the Commissioners' jurisdictions, the Central Division has 431 fires and 2.02,815 acres, as against 385 and 1,54,638 in 1915-16, and the Southern Division has 76 fires and 1,397 acres, as against 47 and 833. Results, therefore, must be put down as unsatisfactory.

East Khandesh, it is true, shows a decrease in the area burned of a few thousand acres, though an increase of nine in the number of fires; but it has to be admitted that it is little more than chance whether the acreage is more or less, for in the Sátpudas, where the bulk of the fires occur, conditions and arrangements for the fire protection are not at present such that the Forest Department can ascribe success or failure to any one measure that it carried

**D** 15—6

out or failed to carry out. The difficulties that are experienced, and the measures that it was proposed to take to counteract them, were dealt with at some length last year, and Government having called for a special report, which has been submitted, it is unnecessary to go into the matter in detail now. But the problem may be stated briefly to be firstly, the introduction into these now uninhabited hills of a resident population, dependent on the forests for their livelihood and available at any season for preventive and protective fire measures; secondly, the exaction from forest villagers living near the forests of the help which it is their duty to give in return for the generous privileges they enjoy, but which help they now sedulously refrain from giving; thirdly, greater control, both as to place and season, over the movements of the casual fire-causing non-forest villager who now visits the forests for the sole purpose of taking something from them, but who has no interest whatever in their protection.

West Khåndesh calls for no special comment other than that the area burned was slightly less than last year even though the number of fires was greater. The favourable results as regards area are ascribed partly to the effect of communal punishment in the previous year, partly to energetic work by the forest staff, and several of the fires were in comparatively valueless areas recently transferred from pasture to forest proper.

North Khandesh shows a decided setback, the number of fires rose from 44 to 72 and the area burned from 61,261 acres to 1,24,004, the division being thus responsible for more than the whole net increase shown for the circle. The greater part of the area burned was in the Akrani where the forests are unorganized, and if the 92,884 acres accounted for in this way be deducted from the total, there remain 31,120 acres of organized forest burned, a figure which is practically the same as that of last year for the corresponding areas. For the disappointing results in the Akrani the Divisional Officer gives two explanations, one that three fires started almost simultaneously and the population is too limited for such an emergency to be successfully met, the other that some patils and villagers showed gross negligence in fire matters, negligence which it may be mentioned was promptly punished.

Poona and Sátára are divisions which call for few remarks, the total burned area of the two amounting to no more than 7,089 acres. In numbers fires are comparatively large 124 in the former 86 in the latter, but partly because grass is so valuable a commodity, mainly because it is so scanty and confined to limited and isolated areas, no fire that breaks out is allowed to or can spread far; the anxieties that confront Khándesh officers are unknown here.

Kolába also presents a simple problem with a total area burned of but 1,397 acres, that is, an average of 18 acres for the 76 fires that broke out. Here the careless rab-burner is the main source of danger, and 35 of the 76 fires originated in this way; in 23 cases the offender being prosecuted.

Communal help rendered to Government in extinguishing fires lies very much on lines that might be expected. In Khandesh where no villager cares whether the grass is burned or not, and where work on a fire involves extremes of exertion and discomfort, much pressure, moral and material, is required to keep the people up to the mark. Thus in one division alone, North Khandesh, communal punishment had to be inflicted on 23 villages, four only being found to deserve reward for good help. In East Khandesh, a report has recently been made to Government asking for permission to substitute individual for communal punishment, the peculiar conditions and status of the privilege holders of the Sátpuda ranges making the latter form impracticable for successful application. In Poona, Sátára and Kolába, on . the other hand, extinguishing a fire is not only a comparatively simple matter but one in which, as a rule, villagers in their own interests readily help; in Poona, however, exceptions to this as usual occurred in areas in temporary charge of the Military Department, the villagers' personal interest in such being less, and they, no doubt, having a score to pay off against the Military rakhawaldars for impounding of illicitly grazed cattle; four villages had their grazing fees doubled as a result.

٠,

For the whole circle the area under special protection was 23,88,058 acres and the cost incurred Rs. 16,819; 21,83,846 acres, or 91.4 per cent. were saved. Of the 2,04,212 acres burned 23,259 acres or 11.3 per cent. which is only half of last year's percentage were closed forest.

As regards origins of fires North and East Khándesh both show 11 cases due to carelessness in burning fire lines, though it is only fair to state that all these cases were not the result of departmental work, but that a large proportion were due to negligence of coupe contractors; it is satisfactory to note that the latter division has not to be pilloried this year, as has been the case for several years past, for the bad work of the forest staff in this respect. Eighty-nine cases occurred through fires crossing external boundaries, careless rab-burning in Kolába being the chief cause of offence in this respect. In 47 cases malicious firing is said to have been the cause, though proof of the same is generally wanting. In 188 cases the cause was unknown.

Fifty-four cases were taken into court, and in 31 of them convictions were obtained, in two the offenders were acquitted, three were withdrawn and 18 were pending at the close of the year. Seventy-one cases, either trivial ones in which little or no damage occurred, or rab-burning cases where the offenders made every effort to prevent damage occurring, were disposed of by compounding.

#### Southern Circle.

The area attempted to be protected from fire was 4,085 square miles as compared with 3,603 square miles in the preceding year. The percentage of failures was 2.0 against 8.7 which is satisfactory. The cost of protection was Rs. 5.6 per square mile against 5.3 in the previous year. Fire protection was, on the whole, much better this year than ever before, because of chiefly the late heavy rains in November, which kept the forests green longer than usual, and the special measures taken as a result of the disastrous fires of the previous year. The detailed results are compared with those of the previous year in the following statement :—

Divisio	Division.		Area attempt- d to be protected.		Area burnt. Area actually			entage of cess. ,	Cost.		squar	per o mile octod.		
			1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17	1915-16.	1916-17.	1915-17.	1916-17.	1915-16
			Sq. m.	Sq. m.	Sq. m.	Sq. m,	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	Rs.	Rs.	Rs.
Kanara N. D.		•••	420	405	10	116	410	289	97*6	71.5	4,945	3,426	12-1	11.8
Kánara E. D		•••	587	641	5	71	582	570	99 <b>°1</b>	90.0	4,899	4,662	8.4	8.2
Kanara C. D			779	285	20	38	759	247	97.4	86*6	1,026	869	1.4	8.6
Kanara S. D	•••	•••	708	708	n	5	697	703	98·4	99·3	357	508	-5	•8
Kanara W. D	·	•••	829	837	8	36	821	801	99.0	95·7	2,838	1,493	<b>3</b> •5	1.8
Belgaum	•••••••		636	627	20	35	616	592	96-9	94·5	7,934	6,030	12 <sup>.</sup> 8	10-2
Dhárwár-Bijápu			107	81	9	14	98	67	91'6	83·3	768	528	7.8	7.9
Ratnágiri		,	19	19	• •••		19	19	100°0	100-0	30	28	1.2	1.2
. · · ·	Tota	1	4,085	3,603	83	315	4,002	3,288	98.0	91-3	22,797	17,564	5.7	₹·8

It will thus be seen that fire protection was satisfactory in all divisions except the Kanára S. D., where the increase of six square miles noticeable in the area burnt was due to fires in betta lands. Under the betta rules, introduced during the year, the holders of betta lands are responsible for any fires in their bettas. In all the divisions the usual fire-protection measures of clearing fire traces were systematically followed. In three blocks of organized forests (Maingini, Goyar and Nagi) in Kárwár range, Kánara W. D., the fire protection was entrusted completely to the villagers and they were paid lump sums by the Divisional Forest Officer in person, and the headmen awarded turbans in cases of good work; the three blocks are reported to have been thus kept immune from fire during the whole year at a small cost of Rs. 65. Besides money rewards and presents, liberal free

· ·		Number o	f villages				
Division.	grazing for	ree or concession good general stion.	Punished for bad protection by enhanced grazing fees.				
	1916-17.	1915-16.	1916-17. ,	1915-16.			
Kánara N. D.	2	58	28	21			
Kánara E. D.	54	63	25	70			
	16	L	16	16 19			
	)	6	25 27	80			
		77	166	239			
Diferrate Differen	2	14	17	37			
Total	205	219	304	482			

grants of timber and free grazing were also given for good protection. Communal rewards and punishments were given as under :---

Form No. 15 shows the number and origin of fires. The particulars of detection and disposal, compared with those of last year, stand as under :----

· · · · · · · · · · · · · · · · · · ·	÷.	1916-17.			1915-16.				
Total number of fires reported Number detected Number compounded Number prosecuted	• •••	$152 \\ 125 \\ 27$	( 100 (13·3 (10·9 ( 2·4	per cei "	nt.) ) )	976 96 68 28	(100 (9 <sup>.</sup> 8 (7 <sup>.</sup> 0 (2 <sup>.</sup> 8	per c "	· )

Of the 27 cases prosecuted conviction was obtained in eight, the rest remaining pending in Magistrates' courts. The percentages of detection and disposal show much improvement over the previous year, and the Divisional Forest Officers report that detected cases were all suitably dealt with.

The statement showing areas enjoying continuous immunity from fire for a period of seven years, prescribed in Government Resolution No. 248 of 12th January 1904, is given below :---

`		Total forest area of the	Extent of valuable forest for	Proportion of valuable forest	Extent of forest	Extent of forest burnt during the year.				
, Division.		division in charge of the Forest Department.	which continuous protection from fire is desirable.	which has been continuously protected from fire for seven years.	naturally immune from fire.	Open forest.	Closed forest.	Total.		
· · ·		Acres.	Acres.	Percent. Acres.	Acres.	Acres.	Acres.	Acres.		
Kánara N. D.		2,72,843	2,72,843	58,030 or 21.3	500	1,448	4,993	6,441		
Kánara E. D.		8,75,223	8,75,223	8,24,775 or 86.5	6,000	2,589	· 346	2,885		
Kánara C. D.	•••	5,33,496	Accurate	figures not	available	•••	•••-,	12,936		
Kánara S. D.	•	4,58,055	4,11,045	2,00,000 or 48.6	1,09,180	7,149	2	7,151		
Kánara W. D.	••••	5,30,398	1,80,808	1,11,127 or 85.0	52,994	1,813	8,151	4,964		
Belgaum	•••	4,07,138	4,07,138	48,500 or 11.9	48,500	6,079	6,703	12,782		
Dhárwár-Bijápu	ır.	1,85,712	1,83,407	1,32,638 or 72.3	2,297	4,231	1,379	5,610		
Ratnágiri		12,054	2,546		9,508	•••	25	25		
Total	•••	27,69,919		•••••	·····	••••	••••	52,794		

#### Sind Circle.

Division.		1916-	17.	191 <b>5-16.</b>				
·	•	Number of fires.	Area burnt.	Number of firos.	Area burnt.			
Sukkur Lárkána Hyderabad Jerruck	•••	52 22 8 6	Acres. 1,285 375 270 58	55 47 7 54	Aores. 3,644 1,247 242 1,318			
Tot	al	88	1,988	169	6,451			

Form No. 15 shows the number and origin of fires. It will suffice here to contrast results of the present year under report and the previous year :--

The general improvement is due chiefly to a good inundation, there was less firing of forests for grazing, and the rain in March 1917 kept hill graziers from bringing their cattle to the riverain forests.

At the same time, as the figures show, there were other causes contributing to the successful fire protection of the year.

In Sukkur the average area per fire dropped from 66 to 25 acres; this is stated to be due to prompt\_action taken to extinguish fires. In Jerruck the average area decreased from 25 to 10 acres; the Divisional Forest Officer attributes this success to the value of the fire breaks supplied by traces cleared in all dangerous areas. New fire tracing work was carried out in the Lárkána, Hyderabad and Jerruck divisions. In Jerruck 9 miles 792 feet of jungle were cleared at a cost of Rs. 235 or Rs. 40 per. mile for 50 feet wide traces and Rs. 20 per mile for 25 feet wide traces; 10 miles were traced free of cost.

In Lárkána fire lines 100 feet wide totalling three miles long were cut free of cost in the Lárkána, Sehwán and Kandiáro ranges.

In Hyderabad three-half mile lengths 100 feet wide were cut free of cost in the Hala and Sakrand ranges.

Firewatchers were entertained in the Mulchand, Sháhbunder and Tatta ranges of the Jerruck division.

The statement required by Government Resolution No. 248 dated 12th January 1904, regarding areas enjoying continuous immunity from fires for a period of seven years is given below for 1910-11 (vide Government Resolution No. 4081 of 22nd April 1908):—

•	-	-	Area of valuable	Proportion of valuable forest	Extent of forest	Extent of forest burnt during the year.					
Division.		Total forest area.	for which for which continuous protection from fire is desirable.	which has been continuously protected from fire for seven years.	naturally immune from fire.	Open.	Closed.	Tota].			
		Acres.	Acres.	Acres. Per. cent.				Aores.			
Jukkur		2,94,018	2,94,018	2,73,145 or 92 <sup>.</sup> 9	ן א גו	1,212	73	1,285			
Arkána		1,47,938	1,47,938	1,46,060 or 98°7		875		. 875			
Iyderabad		1,65,035	1,65,035	1,64,435 or 99.6	P <sup>I</sup> Abhas	231	89 <sup>-</sup>	270			
erruck		J,44,542	1,04,229	87,309 or 83*8	Newly 1 kaohas.	86	22	58			
Total		7,51,533	7,11,220	6,70,949 or 94.8		1,854	184	1,988			

#### (c) Protection from Cattle.

Northern Circle.

The following statement shows the number and kind of animals impounded from open and closed forests respectively compared with previous years :----D 15-7

						26		•	•					
	Cows and bullocks.		Buffalces.		G	Goats.		Sheep.		Other ani- mals.		tal. ,	id total 1916-17.	Grand total for 1915-16.
Division.	Open.	Closed	Open. Close		Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Grand for 19	Grai
Panch Mabáls	785	10,544	\$88	3,321	▲. 29	19	8,208	1,251	13	7	4,423	15,141	19,5 <b>64</b>	23,261
Surat	731	78	52	72	206	145	. 52 J	50		·	1,041	<sup>*</sup> 345	1,386	416
North Thana 🐂		1,507		418	925	504	22			··· '	947	2,429	3,376	2,987
West Thána	274	2,258	•••	655	475	189		·			749	3,102	3,851	3,424
East Thàna 🛛	193	3,439	35	349	459	383			]		687	4,171	4,858	4,097
South Násik	129	3,225	7	434	981	184	9			2	1,126	9,845	4,971	5,105
North Násik		4,153		515	8,494	668	1,234	1,060	ł	95	4,728	6,691	11,419	12,790
Násik sub-division		1,947		148	4,209	477	1,785			23	5,944	2,595	8,539	8,898
<b>Total</b> , 1916-17	2,112	27,151	482	5,912	10,778	2,768	6,260	2,361	13	127	19,645	38,319	57,964	
Total, 1915-16	1,283	27,985	347	5,010	12,546	8,499	3,557	1,466	69	211	17,802	43,171		60,97
Average for the past three years	1 01 /	23,466	346	4,037	12,535	6,440	4,230	1,835	66	120	18.491	<b>3</b> 5,898	54,399	

Panch Mahals.-The number of grazing offences was 843 involving the impounding of 19,564 cattle as compared with 864 involving 23,261 in the last year. But last year's figures were double those of the previous year and were excused on the two-fold ground that it was a year of scarcity causing an influx of outside cattle with turbulent owners and that to save fodder-grass strict protection was necessary. The Divisional Forest Officer is being asked to explain his figures of offences under all heads as this seems an instance in which lawlessness under exceptional circumstances threatens to become a habit unless promptly checked. It may be the increased figures indicate the necessary checking process.

Surat.—Figures are only remarkable for an unusual amount of trespass in Mándvi in June and July when all jungles are closed. The Conservator doubts the necessity of such a rule, but it is said to be of long standing and the number of cattle involved is not very great. The matter will receive attention in the coming season, change towards laxer control being undesirable without good reason.

North Thána.---Returns from this division are fairly normal showing an increase of 12 per cent. above the comparatively small average total of 3,000 cattle impounded, which was also the total of the last year. Of the total something over 50 per cent. are cows and bullocks from closed forest and 43 per cent. were goats from all forests. Of the increased number impounded 50 per cent. were buffaloes from closed forest and 50 per cent. cows and bullocks and goats, all from closed forest. The result is satisfactory, though as the Divisional Forest Officer points out better results are likely to accrue under the revised working plan.

West Thana.-The figures of this division correspond very nearly with those of North Thana; with more open country the total impoundings are slightly larger, viz., 3,851 which is an increase of  $10\frac{1}{2}$  per cent. on last year's figure. Of the total 60 per cent. are cows and bullocks from closed forests while buffaloes from closed forests and goats from all forests each form 17 per cent. Of the  $10\frac{1}{2}$  per cent. increased impoundings, 6 per cent. are buffaloes from closed forests and  $4\frac{1}{2}$  per cent. are goats from all forests, representing an increase of 50 per cent. in the number of buffaloes impounded and 33 per cent. in the case of goats. These results taken in connection with materially improved fire protection are very satisfactory, and as mentioned under North Thána the revised working plan should show improved protection.

East Thána.—This division shows much the same conditions, but Igatpuri being open country swells the total impoundings which are 4,858, showing an increase of about 12 per cent. on last year's figures. Seventy-one per cent. of the total are cows and bullocks from closed forest, 17 per cent. are goats from all forests and  $8\frac{1}{2}$  per cent. are buffaloes, chiefly from closed forest. Eightyseven per cent. of the increased impoundings are cows and buffaloes from closed forest. The Divisional Forest Officer explains the increase as due to cultural operations for which guards are yearly being made more responsible. In self-defence they become keener on keeping the closed forest free of cattle.

The reason is logical and probably correct. The revised working plan will increase this tendency.

South Násik, North Násik and Násik Sub-division.—All these charges show slightly improved results and call for no remark except that the present arrangement of closure in the Násik district handicaps any effort to protect the forests from cattle. As soon as possible the system of closure will be revised as part of the general revision of the working plan. Igatpuri, as formerly under Násik, is similarly afflicted.

#### Central Circle.

One thousand six hundred and seventy square miles, representing pastures and protected forests in charge of the Revenue Department, were open to all animals throughout the year. Of the 3,730 square miles in charge of the Forest Department, 616 square miles or 17 per cent. being organized areas under regeneration, were permanently closed to all animals, and 119 square miles or 3 per cent. of kurans were kept closed during the grass-cutting season but opened to grazing of horned cattle in the hot weather; 2,995 square miles or 80 per cent. were open to all animals but browsers throughout the year.

The following statement compares the numbers and kinds of cattle impounded from open and closed forests, the total impoundings for the jurisdiction of the Commissioner, Central Division, being 43,087 as against 46,820-in the previous year; from open areas the figure is 16,680 as against 14,491, from closed areas 26,407 as against 32,329:--

Division.	Cows and bullocks.		Buffaloes.		Goats.		Sh	өөр.		ther mals, T		tal.	Grand
·	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	total.
East Khándesh	529	5,537	156	1,878	414	377	1,927	410	26	95	3,052	8,237	11,299
West Khåndesh	111	5,163	9	857	1,569		2,699		66	128	4,454	6,148	10,609
North Khándesh	32	4,957	22	721	171	121				3	225	5,802	6,027
Poons	653	2,905	61	319	8,297	654	1,946	230	14	67	5,971	4,165	10,136
Sátára	5	1,682	_····	321	743	50	2,230	2			2,978	9,055	6,033
Kolábe	5	2,536	32	661	452	166					479	3,368	8,642
Total, 1916-17	1,935	22,780	280	4,757	6,646	1,368	8,802	642	106	323	17,159	29,770	46,929
Total, 1915-16	2,131	27,859	341	4,050	7,706	1,208	4,947	1,949	117	258	15,242	35,324	50,566
Average of past three years.	1,491	23,489	195	3,516	9,802	2,002	7,352	1,094	219	253	19,061	30,356	49,417

The net decrease in impoundings for the circle is 3,637, those from open forest having risen by 1,917, those from closed forest fallen by 5,554. The only points that call for remark are that in every division but Kolába there has been a considerable decrease in the number of horned cattle impounded, while sheep and goat trespass, these animals being forbidden in any forest in charge of the department, has largely increased in Poona and West Khandesh and slightly increased in East Khandesh. That impoundings of horned cattle from closed areas should have been less than those of the previous year, may be put down partly to the abundance of grass after a favourable monsoon, partly to efficient protection by the forest staff, while the fact of the same animals having had to be impounded in less numbers from open forest indicates that their owners realized that it was better to pay the fees at once with a good grace than to refuse to do so, and thereby have to pay pound fees and compensation for each occasion of trespass, and inevitably the grazing fees as well later on; at the same time there are still many attempts on the part of the people to evade payment, for in Poona no less than 17,708 animals had to be charged for at double rates, they being caught in the forests after the prescribed date and their owners having declined to pay until they were actually caught. In the same division it is estimated that quite 10 per cent. of the cattle for which fees were eventually paid were caught trespassing, and had to be taken to villages before payment took place; the owners, of course, when the trespass was in open forest, could avoid impoundment by paying, but the unnecessary labour thrown on the forest staff was enormous. The effect would be salutary if the rules could be so amended that owners who pay voluntarily within the prescribed date be charged the single fee, while those who evade payment until caught be charged double.

Comparison of the number of horned cattle impounded with the number admitted to graze in forests free or on permit is interesting, the figuresbeing 29,160 and 8,59,337, or slightly over 3 per cent., proof positive that no excessive hardship is caused to the public by the protective measures enforced. The hardship is all on the State, for in this circle most of the forests are hopelessly overgrazed and that too by useless animals; were none but such as are of value kept and stall feeding adopted, the advantage to both sides would be great, impoundings would decrease and the forests be more quickly regenerated. The grazing rules, it is true, allow of limitation of numbers of cattle to be admitted to given areas, but so long as the cattle exist in such quantity facilities have to be provided somehow, and the rules remain a dead letter. The whole question is now before Government in the form of a suggestion made by the Inspector General of Forests as to the possible superiority of the Central Provinces' system, and under which differentiation of fees according as the cattle are kept for agricultural purposes or for profit tends both to reduction of useless animals and to less pressure on the forests, and that too with no decrease in revenue obtained.

Southern Circle.

The details of area open and closed to grazing are given in Form No. 16. An abstract is given below :---

•	Year.	• •	Closed to all animals for whole year.	Closed to all animals for part of year.	Open to all animals (except browsers) for whole year.	Open to all animals for whole year.
1916-17	•	•	Per cent. 20.9	Per cent.	Per cent. 73·2	Per cent. 5 <sup>.</sup> 6
1915-16	•••	•••	15.3	0.3	78.8	5.6

The above figures do not, however, furnish an accurate comparison, as the numbers furnished by the Divisional Forest Officers in previous years were not quite accurate.

The number of cattle that grazed in the forests during the past three years are compared below :---

	Year.		Horned cattle.	Sheep and goats.	Other animals.	Total.
1916-17 1915-16 1914-15	•••	•••	488,167 468,991 462,441	1,386 6,328 2,135	477 704 739	490,030 476,023 465,315

The following table prescribed in Government Resolution No. 4081 of 22nd April 1908 gives the comparative details of cattle impounded for illicit grazing :--

Division.		s and ocks.	Buff	loes.	G	oats.	, Sb	eep.		her mals.	To	tal.	Total open and	Total open and
•	Open.	Closed.	Open.	Olosed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	closed for 1916-17.	closed for 1915-16
Eénera N. D	68	1,768	19	471	***	- 37	- <b>1</b> 1				70	9,961	2.831	1,975
Ránara E. D		887		195	- 28	121		1			28	1,504		-,970 986
Rápara C. D	19	190	***	21		190		- 9			19	340	1,232	
Kábara S. D	ท	49	5	14	63		8				148	63	852	833
Kánara W. D	·	255	4	46	-1-								211	483-
Belgaum		1,408		948				758	•**			301	<b>3</b> 01	430
Dhárwár-Bijápur.	89	1,468	10	235	*** .	1,240	4	1,080	***	- 25		9,119	3,118	5,208
Bainágiri		6					-			· 20	103	4,098	4,201	8,823
						•••	***	•••		•••	***	6	· 6	41-
Total, 1916-17	230	6,946	28	1,975	91	1,588	19	1,848	 	84	861	11.391	11.752	
Total, 1915-16	800	6,283	109	2,741	530	2,370	1	920		19	940	19,333		10.050
Average of past three years.	897	6,990	149	2,527	659	3,449	97	1,132	8	24	1,207	13,122		18,978

28

The impoundings have on the whole decreased in all divisions except Dhárwár-Bijápur, where those of sheep in closed areas rose from 222 last year to 1,080 this year on account of persistence in contravention of rules. The people are, however, beginning to learn that cattle are not to be grazed in closed forest.

#### Sind Circle.

93.9 per cent. of the forest area was open to the grazing of cattle except goats and camels. The latter animals were admitted to 561.72 square miles of forest or 64.8 per cent.

Impoundings.—There has been a general decrease in the number of impoundings in the forests of the province as compared with the figures of last year and those of the past three years; the table at the end of this paragraph shows details. In Lower Sind this was due to the exceptionally favourable condition of rainfall in the Kohistán hill tract, which resulted in large numbers of cattle remaining away from the forests throughout the year. In Lárkána the decrease is ascribed to the energy displayed by subordinates in reporting illicit grazing cases previously, while in Sukkur it is stated that the herdsmen found the yearly grazing fees much cheaper than those levied under the bi-monthly system and registered most of their cattle. Temporary cattle pounds for the control of gormal (semi-wild cattle) were opened in certain forests frequented by these animals.

In Sukkur 155 cattle were caught, the revenue from fees being Rs. 171 and the expenditure Rs. 115. In Lárkána 12 cows were caught in the Amrot forest, fees being Rs. 12 and expenditure *nil*, while in Hyderabad 126 cows and calves were caught in nine pounds in the Hála and Sakrand ranges and Rs. 134 recovered from their owners, the pounds having been managed without expense by literate sub-rangers or guards in addition to their own duties.

The result is still not very satisfactory. The animals, though easy to approach are shy and difficult to catch. They are animals for which no grazing fees are paid, and their condition of gor or semi-wildness is brought about by their being turnel loose by their owners to live in the forests night and day. The remedy is to insist that all cattle should be driven by herdsmen at night to their folds by their owners, the people avoid this in order to avoid paying fees during the period when their animals are out of milk. The help of the Revenue Department must, and will be sought. Injury is chiefly done to the young coppice shoots by browsing, and to seedlings by trampling.

Newly exploited coupes were fenced with waste branchwood. The total length of new fences put up amounted to  $349\frac{1}{2}$  miles.

Repairs to existing fences were carried out over 692<sup>3</sup> miles. This work was done by forest guards free of cost with the help of maldars and coupe contractors. Special effort was made this year to start fencing coupes containing coppicing species directly felling operations began.

The animals impounded during the year compared with those of the preceding year are shown in the subjoined table as required by Government Resolution No. 4081, dated 22nd April 1908:—

															···	
		and ocks.	Buffe	loes.	She	ep.	Go	ats.	Can	aels.		her mals.	· To	otal. `	Total o	of open losed.
Division.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Ореп.	Closed,	Open.	Closed.	Òpen.	Closed.	Open.	Closed.	1915-16.	1916-17.
		882	871	509	76		1,687	1,629	387	481	52	166	3,179	3,647	7,201	6,826
Suktur · Lárkána	606 129	387	225	185		39	166	1,152	104	420		15	624	2,198	4,113	2,822
Hyderabad	139	554	197	463			296	394	65	186	8	141	704	1,788	2,796	2,442
Jerruck	397	479	215	372 -	21	39	83	390	83	393	95	153	894	1,826	4,048	2,720
Total, 1916-17.	3 270	2,302	1,008	1,529	97	78	2,232	8,565	639	1,480	147	475	5,401	9,409	•••	14,810
Total, 1915-16.		3,549	595	1,589	4	366	2,796	4,636	537	1,954	185	372	5,692	12,466	18,158	<u></u>
the second the		3,246	512	1,591	175	212	3,391	4,152	528	1,282	+ 123	260	5,994	11,079	***	

Impoundings.

#### Northern Circle.

In Surat Rs. 343 were spent by employing parties for creeper cutting. Perhaps special circumstances of the locality justify this, but careful check is required; for, as in the case of broad-casting seed, the amount of work done is very susceptible of exaggeration. Generally the cut creepers are a valuable criterion that the protective officer has passed that way, and it is extraordinary the amount of creepers that can be cut in that way, making extra expense uncesirable.

In the Dahisar range of North Thána and the Bassein range of West Thána small contracts were given to men who cut the creepers for the resulting firewood. In the latter range Rs. 1,388 were realized in this way. In all divisions creepers are reported to have been cut by guards.

In the Umbergaon casuarina plantation 20,000 healthy seedlings were destroyed by a small moth. Specimens were sent to Dehra Dun for identification and advice.

#### Central Circle.

In all divisions cutting of climbers was carried out by guards. In Kolába coupe contractors were made to clear out *Euphorbia* or other growth that interferred with regeneration. In Poona eradication of prickly-pear from babul coupes took place at Government expense, 20,250 cubic feet being removed at cost of Rs. 36; and a further useful work consisted in the freeing of some 15,000 seedlings in teak coupes which were in danger of being suppressed or choked by surrounding growth. Both in Poona and Sátára construction of 'tals' went on; in the former over one running mile being built at a cost of Rs. 101, in the latter 211 new 'tals' were built for Rs. 45; the value of the work in preventing erosion and in forming suitable plots for artificial plantations behind the 'tals' was very apparent.

#### Southern Circle.

In Kánara W. D., a strip varying from 15 to 40 feet wide along the greater length of the Kodibág casuarina plantation was eroded by the heavy tides of June. Over 100 trees came down. The Public Works Departmentare taking steps to prevent further erosion by putting up "groins" in the sea and a dam of sand and dry stones inside the plantation at the most dangerous spot, where also, further in, a large area of rice land is threatened. Wild elephants and pigs did some damage to forests in the Supa and Dándeli ranges. Defoliating insects (*Eupterote castanea* and *Hyblæa puera*) again attacked the teak over a considerable area in the Kánara Northern and Central Divisions. In some of the teak nurseries in Kánara E. D., many of the largest plants were attacked and destroyed by the larvæ of beetles. In Kánara S. D., the casuarina trees in Kasarkod and Haldipur suffered to a certain extent from caterpillars of *Arbela guadrinotata*; the damaged trees were cut and sold. Prickly-pear, which is a pest in the Bijápur forests, was removed by villagers as far as possible without extra cost to Government. *Lantana* continues to spread in the Haliyál teak pole area in Kánara N. D., and in parts of Dhárwár, and it is difficult to check its growth. The floods of the Krishna and other rivers of Bijápur, which were very high this year, did some damage to babul kurans by uprooting the trees on the banks. The planting of zili (*Sesbania ægyptiaca*) along the banks is being continued with a view to check erosion as far as possible.

#### Sind Circle.

The weather in the cold season was not severe on the whole and young plantations were not seriously injured by frost in any division. Rats were troublesome, and did some damage by gnawing the stems of young trees below the ground. Porcupines also gave trouble in the plantations of tali (*Dalbergia Sisco*) in the Sukkur division where they tore the bark off young stems; a spring trap is being experimented with a view to get rid of these animals which usually do damage at night. The defoliating caterpillars appeared in enormous numbers in the southern forests of the Jerruck division, and the damage done by them was considerable. Large trees as well as the smallest seedlings were attacked, but the injury caused actual loss only in the case of the latter. Kamo creeper cutting was carried out by the staff, and in the Jerruck division also by contractors in a large area under thinning operations in all ranges. Small contracts were also given or the removal of creepers in some areas in this division.

#### 4.—SYLVIOULTURE.

#### (a) Natural Reproduction.

#### Northern Circle.

(i) From seed.—While most divisions made good efforts, by tending, at establishing natural seedlings which otherwise would have perished, only the three Thana Divisional Officers record exact extent of operations and results. These were very encouraging, percentages of successes varying from 25 to 50 per cent. as a rule, and occasionally as high as 90 per cent. All Divisional Forest Officers are being asked to record similar data in future.

(ii) By coppice.—This is everywhere good, though naturally less vigorous above than below ghats. Everywhere more or less tending is necessary for its success.

#### Central Circle.

Conditions as regards rainfall were favourable, and reproduction by seed, that is to say in so far as germination and the first appearance of seedlings was concerned, left little to be desired. The difficulty is to ensure the seed-lings withstanding the effects of drought, weeds, fires and grazing, and that is where artificial measures come in. Reproduction by coppice also, so far as nature is concerned, is entirely satisfactory, though in this respect too heavy toll is taken by fires and grazing. The one exception to good natural repro-duction either by seed or coppice is found in the case of the anjan in Khandesh, where not only can a good seeding not be counted on more than once in three years, but also a very large proportion of felled trees fail to coppice at all. The absence of regeneration in coupes was much commented on by the Inspector-General, who in the light of Central Provinces experience gave valuable advice as to experiments which should be carried out, both as regards preparation of the soil to form a more favourable seed bed, and as regards season of felling which may possibly affect coppicing, and adoption of the system of felling the trees at varying heights above ground instead of as is now done flush with it, for, as he pointed out, the standing growth afforded ample evidence that pollarding the anjan almost invariably produced good results.

In Poona and Sátára the natural extension of sandalwood is very noticeable in some localities, affording the promise of good revenue in years to come from this most valuable species.

#### Southern Circle.

(i) From seed.—The year was again very good for teak, the other valuable species such as matti, honni and sissum also seeding well. As the year 1915 was excellent for teak seed, the vast number of seedlings, which lay dormant in 1916, have come up in the rains of 1917. The work of weeding and mulching the natural seedlings has been receiving special attention with satisfactory results everywhere.

(ii) By coppice.—Regeneration by coppice was, as usual, good in all the forests worked under this system, though, unfortunately, fires again devastated many of the old coupes in the the Khánápur Central and East ranges and destroyed both seedlings and coppice. Where the young growth gets a fair chance, it does splendidly and with a little help soon establishes itself. In Kánara W. D. it was noticed that jamba coppice was very susceptible to fires, in some places whole groups of it being completely burnt. The stumps, however, are again coppicing. Mr. Hodgson, Divisional Forest Officer, Kánara N. D., is experimenting with regard to his observations on the effect of fire on teak seedlings, mentioned in the last annual report, and his report is awaited.

#### Sind Circle.

## (i) State of existing reproduction.

The area flooded was 4,47,753 acres compared with 2,71,093 acres of the previous year. The rains in Lower Sind were also plentiful. In consequence natural regeneration from seed was good everywhere. Seed had been scattered profusely throughout the forests of Lower Sind by the large number of famine-stricken cattle which grazed in them and on the babul pods prior to the inundation season of 1916, and in Jerruck division the forests of Viran, Sonda and Hillaya were entirely closed to browsers in order to take full advantage of the extensive natural seeding above referred to. The only setback in Lower Sind was due to the fact that some areas under regeneration received such a depth of flood water that both natural seedlings and coppice shoots died.

## (ii) Measures for inducing or aiding reproduction.

There was no felling or girdling of inferior species with a view to open . the canopy as this is not necessary under the system adopted, scorched trees not yet dead were cut back in three divisions for fresh coppice shoots. All debris left in coupes after felling was burnt where this could be done without endangering the forest, in order to provide a good seed bed for future babul regeneration, and areas not fully stocked naturally were broad-casted with seed after the inundation season.

Thinnings in natural crops were carried out in all divisions in babul areas; the details are as follows :---

Division.	Material.	Price realized.
Lárkána	 390 trees.	Rs. 310.
Hyderabad	 19,030 c. ft. 223 pieces.	Not yet sold.
Jerruck	 Over 765 acres.	Rs. 9,255.

(b) Artificial Reproduction.

#### Northern Circle.

#### Regular plantations.

The only repular plantations are of casuarina in North and West Thána, all under the Divisional Forest Officer, North Thana. Rs. 2,458 were spent on four plantations and planting up 27 acres; 10,000 plants were put out and . are doing well.

#### Cultural operations.

Panch Mahales.-- A statement shows that 385 maunds of seed, chiefly Terminalia tomentosa and Tectona grandis, were dibbled in blanks in all ranges at a cost of Rs. 206 but the only result recorded is that the germination of teak was not satisfactory. From the Godhra nursery 10,745 teak and 2,155 plants of other trees were transplanted into exploited coupes. They were subsequently mulched and shaded with recorded good result.

Surat.-In the Bulsár range 69,500 plants were raised in the Welwach nursery and 32,025 in the Delwada nursery at a cost of Rs. 319 and Rs. 50 respectively and 24,175 teak, 8,700 tanach, 4,500 shisam and 100 beo were transplanted to old coupes without recorded result. In the North Dángs 15,000 teak and 2,300 shisam were planted out, of which 9,845 teak and 1,500 shisam were living in the month of May, when there were as many more seedlings ready to plant out.

All three Thana divisions showed even better results but detailed record conveys very little and abbreviated record must fail to do justice. It is rightly recorded in the divisional reports and is appreciated there.

South Násik division has not had a chance owing to the constant change of officers, but will probably do well though under a climate less favourable for such operations.

North Násik and Násik Sub-divisions have a yet more difficult task and will probably do well to limit themselves to natural seedlings or those raised by dibbling. For instance, in the present monsoon Malegaon had little over one inch of rain up to the end of August. Not much can be done on that.

#### Central Circle.

Regular plantations comprise the restocking of casuarina coupes in Kolába by planting out seedlings grown in nurseries, and by sowing of seed in the babul coupes in Poona and East Khándesh. Results were generally satisfactory.

Cultural operations received much attention in Poona, Satara and Kolába, and it is clear that a system has now been found which shows the possibility of obtaining definite results, which has never been the case in the past, and of greatly adding to the value of these forests in the future. The work which had its inception in Kanara lies in the mulching and tending of young plants, either the natural ones which spring up with the monsoon, or artificial ones put out from nurseries. The system being more or less in its infancy, precisely the best methods of work are at present a matter of experiment, one division, Poona, maintaining that raised mounds and beds are essential for success, while Sátára and Kolába claim equally good results from level beds or pits; probably the main factors are the thorough working of the soil before planting and the amount of tending that the plants receive in the ensuing hot weather. What can be said with certainty is that the work has been taken up with enthusiasm in all three divisions with so fir much success, that there is enormous scope for its extension, and that it has reached a stage at which considerable expenditure on it in future will be justified. Kolába records the successful establishment of 55,000 plants at the close of the year, while in Poona it is said that of 80,000 seedlings, mostly teak, 70 per cent. survived including many which had been temporarily cut back by fire; both most creditable results. Sátara gives no actual figures, but the Conservator himself saw the good work done in several places in that division. Khandesh at present has not been uniformly so successful in the matter, nor is there so much scope for it there as for other measures of regeneration; still of 65,000 seedlings treated in North Khandesh 25 per cent. are said to have survived.

#### Southern Circle.

#### Regular plantations.

The casuarina plantations on the Kánara and Ratnágiri coast were extended by 37 and 3 acres, respectively, at a total cost of Rs. 4,464. All the plantations were doing well except the one at Harwáda in Kánara C. D., where a number of plants, planted two to four years ago, have died.

#### Cultural operations.

Kanara N. D.—In the pole forest area thousands of natural seedlings found in the newly exploited coupes, were weeded and mulched. Junglewood species were planted in areas where only pure teak seedlings were found, as teak thrives better mixed with other species. Some three lakhs of plants were transplanted in the Kulgi range with good results. In the high forest about 30 acres were planted up with teak, honni and sissum.

Kanara E. D.—The planting and tending of teak and junglewood seedlings was carried on as usual in the coupes newly exploited. Teak and junglewood seed were dibbled in on patches where rubbish had previously been burnt, with fairly good results.

Kánara C. D.—About 230 acres of forest were sown with teak seed. Thousands of teak and matti seedlings were planted in felled areas.

Kanara S. D.—The casuarina coupe cut in 1915-16 was planted up with seedlings raised in the nursery. Teak and junglewood seed was dibbled in in suitable places in the newly exploited coupes.

Kánara W. D.—Natural seedlings were all successfully tended as usual by mulching and freeing them from interfering growth. Teak and junglewood seed were sown in suitable patches. A big nursery was made at Rengani in Gund range, whence teak seedlings were transplanted. The matti plantations made in flat blank areas in the Kadra range last year have survived in about -85 per cent. of cases where the soil was mulched and in every case where this -was not done the plants died.

р 15—9

Belgaum.—Natural teak seedlings were weeded, mulched and shaded, and replanted in the case of failures. Teak, junglewood and sandal seed was collected and sown in different places and seedlings of all species were transplanted from nurseries.

Dharwar-Bijapur.—Seeds of different kinds were sown in all the five ranges of the division. Sandal seed, sown broadcast and dibbled in under the shelter of bushes, was successful in a few cases. Sowing and planting was continued in conjunction with, and supplementary to, natural reproduction by coppice. A few of the seedlings raised last year were destroyed by fire. The agriculture—combined with—forestry operations could not be carried out in the Chickgulbal, Ingalgundi and Mamdápur coupes of the Bijápur sub-division as the area was under water for several months.

Ratnágiri.-The nurseries and plantations at Harnai, Dápoli, Dhámápur and Tondavli were maintained with due care at a total cost of Rs. 412.

### Sind Circle.

Regular plantations.—The regular plantations in Sind are those of tali. There were 301 acres under regular plantation at the commencement of the year, to these 2 acres were added in Lárkána and 1 in Hyderabad, making a present total of 304 acres. The details are :—

Sukkur.-Kot Sultan plantation irrigated by Persian wheel. Six plants of Eucalyplus Stuartiana were added during the year of which three died; there were few casualties among the tali plants. Expenditure Rs. 293.

Zarkhel plantation irrigated by a water channel with distributaries from the Sherwah. Expenditure nil.

Rahuja garden.—Many plants of species of citrus were put out this year, and orders issued to graft varieties of orange on to these. The whole garden has been well weeded, and some of the old tali trees thinned to make room for other trees not indigenous to Sind. All fruit trees did well except the vines which have got old. A corner of the garden has been cleared at the Collector's request for the introduction of the wild hill olive (Olea cuspidata). If this species thrives on the plains it is proposed by this department to graft on to it the European olive (Olea Europea) which has a much better yield of oil and which having failed to ripen its fruits at Siálkot in the Punjáb is not likely to succeed from seed in Sind. Grafts can, it is believed, be obtained from Kashmir. The expenditure on the Rahuja garden during the year was Rs. 1,529.

Hyderabad.—In Hyderabad one acre was added to the Shah Makai plantation for tali; the area now stands at six acres and the yearly expenditure was Rs. 86.

The Monument, Miani bungalow and the small gardens of mango and divi divi in the Miani range were maintained at a cost of Rs. 1,069.

Jerruck.—The regular plantation for tali in the Jerruck division is at Khatro, the area being 23 acres. The plants are doing well and were pruned during the year. Means have been devised to secure irrigation in future for most of the plantation by flow from a small canal *ex* the Fuleli. In this plantation tarwad (*Cassia auriculata*) was sown in 1912; the plants are at present some 20 feet in height in this alluvial soil, and specimens of bark have been sent to Maihar to be tested for tannin.

Cultural operations.—One thousand five hundred and fifty-six acres of uplands were treated under the system of agriculture with forestry in all divisions, the assessment paid being Rs. 2,981 which was credited to the Revenue and Public Works Departments by book transfer. Only in the Jerruck division where in the Katiar range Mr. Nenumal has shown good supervision can the results be called really satisfactory. Tarwad seed germinated in the Bahman forests of Lárkána and the seedlings are said to be doing well.

In exploited coupes 11,777 acres were broadcasted with 3,126 maunds of babul and kandi seeds; results in riverain areas after a good inundation were on the whole good, but a second flood late in August rather upset the calculations of some of the Rangers and covered up the germinated seeds. These were resown except in a lew arrears which will be sown up this year. Attention was paid to the resowing of coupes where germination had not succeeded and kachas, high enough to keep the resultant seedlings, which had silted sufficiently above flood water, were also broadcasted with seed especially in the Lárkána and Jerruck divisions.

# (c) Operations for the Improvement of the Growing Stock.

### Northern Circle.

Panch Maháls.—In two blocks of Godhra, one in Kálol and one in Hálol, badly grown teak were cut back in formerly exploited coupes and branches of other species threatening teak were cut back.

North Thána.—Seventy-pine coupes formerly exploited were thinned in favour of teak at a cost of Rs. 2,333. The pick of the material was sent to railway and bunder depôts while the inferior material was sold locally. The total amount thus realized was Rs. 4,825.

East Thána.—Similar thinning was done in 40 coupes at a cost of Rs. 950. The best injaili and teak went to the Military and the balance sold locally. Gross realization amounted to Rs. 3,096.

### Central Circle,

It is under this heading that the teak bearing forests of Khandesh come into prominence, not so much to give a record of work carried out as to emphasize its necessity in future. The forests are now full of stunted, unsound, misshapen trees of neither present nor future value, and their removal and replacement by sound coppice was a point on the need for which the Inspector-General of Forests laid great stress; in theory removal in the past has been supposed to be done by contractors, at any rate so far as the larger trees are concerned; in practice contractors knowing the material to be unsaleable have left the trees standing; the new working plan will provide for each coupe being taken in hand after the contractor has finished with it, and for all unsound growth large or small being cut back at departmental expense. Needless to say, if the work is to be of full value fires must be kept down.

### Southern Circle.

In all divisions the usual operations were conducted on a larger scale than ever before : creepers were cut, broken trees cut level with the ground, inferior species girdled and improvement fellings made; the bamboos interfering with the growth of teak were also cut; thinnings, cleanings and prunings were carried out in all the *casuarina* plantations on the Kanara and Ratnágiri coast.

### Sind Circle.

Kamo creepers (*Phyllanthus reticulatus*) were cut in all divisions and the khabar creeper (*Salvadora Persica*) also in the Jerruck division. Thinnings were undertaken in all divisions this year and in Jerruck on a fairly large scale, the operations extending over 765 acres and the amount realised being Rs. 9,255.

In Hyderabad mutilated trees were cut back under the orders of the Deputy Conservator.

### 5.—Exploitation.

# (a) System of Management.

(i) Major Forest Produce.

### Northern Circle.

Statement of area of various systems of exploitation in force with percentages :--

	clean by co	hod of felling ompart- ient.		form thod.	С М	froup ethod.	Sel Me	ection sthod.	S Co	imple ppice.	Ŵ	ppice ith dards.	Im	hod o <b>f</b> prove- nent.	area a not Wo	orkable nd area under rking lan.
Division.	Area in square miles.	Percentage of total area under the syl- vicultural system.	Area in square miles.	Percentage of total area under the syl- vicultural system.	Ares in square miles.	Percentage of total area under the syl- vicultural system.	Area in square miles.	Percentage of total area under the syl- yicultural system.	Area in square miles.	Percentage of total area under the syl- vicultural system.	Area in square miles.	Percentage of total area under the syl- vicultural system.	Áres in squære miles.	Percentage of total area under the syl- vicultural system.	Ares in square miles.	Percentage of total area under the syl- vicultural system.
				*	—	<u> </u>								/	-	
Panch Maháls	•••	•••	114	34-4	•**		. •••		•••	•••	164	49-4	26	7.8	28	. 8•4
Surat	***		•••	•••	•••	<b></b> ·					68	9•4	159	22-0	497	68-6
North Thana			301	94-4		•~~ .	.16	5	•••		••••	•••	•••	•••	2	0-5
West Thàna	***	+14	309	95.9						· •••					19	4-1
East Thána			<b>39</b> 5	87-3	•				•••		·		58	12.7	1	•
North Násik 📖				***	<b></b>	•••				- 01	244	<b>4</b> 9•5	47	9-6	203	40-9
South Násik	•••			•••			247	71-6			71	20*6			27	7-8
Násik sub-divi- sion.	4	1.6	<b>.</b>			<b>•</b> ,••		***			29	11-2		<b></b>	225	87-2
Total	4		1,126	34 6		·	263	8.1			576	17.7	290	9+0	996	30.6

Clear fellings.—These were limited to ten babul coupes of Násik subdivision in the first instance. Subsequently, with the approval of the Inspector-General of Forests, the standards in the coupes of the year in the three Thana divisions were felled in anticipation of the introduction of the revised plan which is under preparation and will introduce the uniform system. Therefore, in the statement the whole of these Thana forests are carried from the heading "Coppice with standards" to that of "Uniform method". A similar change in treatment of the forests of the Eastern Maháls under the authority of the Superintendent of Working Plans should have been shown in the statement in last year's Administration Report.

Selection fellings.—These were confined to the below-ghat forests of the South Násik division.

Coppice with standards.—The forests of the Western Maháls were still included under this method but its application on sylvicultural lines so approximates to clear cutting that the uniform method will be introduced in the coming season except in the Hálol range, the conditions of which require further study. The forests of the Mándvi range of the Surat district and the above-ghát teak forests of North and South Násik divisions and Násik subdivision come under this heading.

Method of improvement.—This is prescribed in the North and South Dangs and Bulsar-Chikhli of the Surat division also the anjan forests of North Násik.

Unregulated fellings.—These, chiefly for revenue, take place in the Central Dangs of Surat, but must shortly give place to some method for improvement.

### Central Circle.

Clear fellings were undertaken in babul and casuarina forests only, 22 babul coupes aggregating 319 acres being felled in Poona and East Khandesh, and 1 coupe of 1 acre of casuarina in Kolába.

Improvement fellings comprising mainly a system of selection of overmature and unsound trees, were carried out in the Sátpuda forests of East and North Khándesh, in the Umarpata, Deomogra, Dhulia and Pimpalner forests of West Khándesh, on the Mahábleshwar and Mátherán plateaux of Sátára and Kolába, and in the Akola and Lonávla forests of Poona. The selection system, pure and simple, is nowhere in force in the circle.

Coppice fellings took place in the teak forests of Poona, Sátára and Kolába, and of the Edlábad forests in East Khandesh.

Of the total organized areas of the circle amounting to 2,301 square miles, 33 square miles are under clear fellings, 1,516 under improvement fellings, and 752 under coppice with stardards. Unregulated fellings in forests consisted solely of extraction of material for free grants in all divisions, of clearance of dead and dying trees in babul forests, and of clearance of rides and views at Mahableshwar and Matherán; outside forests, of the sale of royalty trees in occupied lands in all divisions and of reserved trees in unassessed Government waste in West Kbandesh.

## Southern Circle.

The systems of management were the same as before.

Clear fellings.—These were carried out in the coast casuarina plantations of Kánara on an area of 17 acres realizing Rs. 147 per acre and in babul. forests of Bijápur, where two coupes measuring 19 acres in all were exploited, realizing Rs. 72 per acre.

Selection fellings.— The following operations were carried out in the Kanara divisions in accordance with the provisions of the sanctioned working plans :—

Division.			Nu	umber of trees cut.	· .
27172/010	,		Teak.	Blackwood.	Junglewood.
Organised Area					
Kánara Northern		•••	1,831	• 73	863
Kánara Eastern	•••	•••	3,267	******	1,119
Kánara Central	•••	•••	167	60	1,300
Kánara Western	*• • • •	•••	687	19	219
Tot	al, 1916-17		5,892	152	3,506
Ťoł	al, 1915-16	••.]	9,501	469	3,794

Exploitation in Gund range of Kánara W. D. is somewhat in arrears in respect of junglewood for want of a road but, in view of the progress made in road construction up the Kálinadi valley, the girdling operations this year have been extended to nandi and matti in the hope that, by the time the felling is due, it will be possible, and will pay, to bring these timbers down to Kodibág depôt. In Kádra range high forests, besides teak, the usual junglewood species were exploited.

Improvement fellings.-These were carried out as under :--

	Division.			Number of trees cut.				
	Divisio	<b>n.</b>		Teak.	Blackwood.	Junglewood.		
Kánara Northern Kánara Eastern Kánara Western	y'ı • •••	•••		10,373 3,424 439	1,749	3,081 56 3		
		Total, 1916-17	•.]	14,236	1,749	3,140		
•		Total, 1915-16	•••	11,321	750	573		

ъ 15—10

	Area in	Revenue p	er acre.	Quality.	
Division.	acres.	1916-17.	1915-16.		
Organized area.		Rs.	Rs.	•	
Kánara N. D Kánara E. D Kánara C. D Kánara W. D	1,368 258 681 78	94 19 23 22 68 71	118 20 22 25 202 85	Teak poles, timber and fuel. Teak poles and fuel. Do. do. Do. do. Logs, poles and fuel. Railway fuel.	
Belgaum	{ 2,200 . 6,295	59	•••		
Total, 1915-16	. 5,833		65		
Unorganized area.					
Belgaum	538 356 3,501 1,672	5,	17 8 4 22	Timber and fuel. Railway fuel. Local fuel. Poles and fuel.	
Total, 1916-17	6,067	7	••••		
Total, 1915-16	6,768	•••	10		

Coppie fellings.—This method of exploitation, which is most common, was adopted in all the divisions except Ratnagiri as under :—

The revenue realized per acre shows a decrease below that of last year owing to dislocation of business caused by the war and consequent want of bidders for standing coupes.

Unregulated fellings.—In all the divisions, except Kanara Western division and Ratnagiri, dead sandalwood trees exploited from various jungles were converted into billets of different sorts, which fetched a revenue of Rs. 46,482 as against Rs. 36,761 in the previous year.

In the Kánara Eastern and Southern divisions and Dhárwár-Bijápur, 721 junglewood trees exploited in various jungles fetched Rs. 741.

In the Kánara Western and Belgaum divisions extraordinary fellings were made in the most suitable areas for supplying the following material to the Military Department, Bombay, for war purposes :--

Junglewood poles	21,131 No.
Junglewood logs	9,593 c. ft.
Mango planks	4,620 running feet.
Bamboos of sorts	201,150 No.

The value of the material was not fully credited during the year.

### Sind Circle.

Clear fellings with some reserves to provide large timber.—Seventeen thousand four hundred and eighty-eight acres of forest were exploited under this system in accordance with the provisions of the working plans, as compared with 16,691 acres during the previous year. After exploitation, the branchwood not required for the fences was burnt where feasible and a lyisable, and the soil resown with babul and kandi seed either broadcast or in drills. With the permission of Government the maximum girth of babul reserves was increased from 25" to 36", it having been found that there were few small trees and that these could not attain the girth of 60" (the minimum required for a good log by the Gun Carriage Factory at Jubbulpore) during the short rotation of 30 years. The stools of kandi and bahan were carefully coppiced everywhere.

Improvement fellings.—These include the cutting back of material in burnt areas, and the levelling of stumps of trees illicitly cut.

The statistics are as follows :---

In Sukkur 204 acres of burnt area were worked over, the material realizing Rs. 60);

In Lárkána 348 acres of burnt area were exploited, the material realizing Rs. 4,400;

• In Hyderabad the cutting back of mutilated trees yielded 1,081 maunds of fuel which will be sold during the ensuing year;

In Jerruck 82 acres containing a little burnt wood were worked over, this burnt material yielding Rs. 80.

Unregulated fellings.—These include the removal of wood in erosion fellings, all wood actually dead whether standing or fallen, free grants, and wood cut to meet the urgent demands of the Public Works and other departments. Statistics are as follows :—

In Sukkur 4,829 acres were cleared against 1,292 acres in the previous year; this included the site of the Quetta Military Farm near Ruk and a little area cleared for the central pussage of the Indus.

In Lárkána owing to good competition 803 dead and fallen trees yielded Rs. 3,525. The area cleared for fear of erosion was only 35 acres against 247 acres of the previous year.

In Hyderabad the area cleared was 141 acres against 107 acres of the previous year.

In Jerruck 85 dangerous trees along the river frontage of Budka realised Rs. 100. Forty-two dead stumps in Khatro and 120 dead stumps in Hilláya yielded Rs. 60, and 374 acres threatened with erosion were exploited in the forests of Ach Marho and Alláhbux in Shah Bunder range (being coupes prescribed for 1917-18) and yielded Rs. 4,070. Two thousand seven hundred and fifteen babul and 6,945 lye stakes were cut by the Public Works Department at a cost to them of Rs. 966.

### (ii) Minor Forest Produce.

#### Northern Circle.

This is worked without fixed plan as public demand requires consistently with the well-being of the forests:

#### Central Circle.

This is disposed of as occasion demands by departmental collection and sale, or by farming the right of collection, or on permit. Under the first method mhowra sied and hirda form the main items, yielding respectively Rs. 4,938 and Rs. 5,153; unler the two latter hirda yielded Rs. 11,001 and grass and grazing Rs. 2,79,661. Other minor products, roshagrass, leaves, pods and fruits, bamboos, earth and stone, brought the total revenue to Rs. 3,38,845 as against Rs. 2,97,381 in 1915-16.

# Southern Circle.

The systems of exploitation as detailed in Form No. 20 were the same as last year except that a large number of bamboos were departmentally extracted for supply to the Military Department; a small quantity of hirda was also collected by departmental agency in Kinará E. D. for experimental purposes. The total revenue from minor forest produce was R3. 1,95,789 against Rs. 1,89,089 during 1915-16.

# Sind circle.

# Form No. 20 gives details.

Minor produce was farmed out to contractors. This includes lac, babul pods, grasses. Fishery rights produced Rs. 44,104. Of these there was a great demand for lac, the contracts rising from Rs. 675 to Rs. 17,100. Efforts were made to induce the insect to spread to fresh compartments by cutting the topmost branches of suitable trees to obtain succulent shoots on which alone the young larvæ can exist, while branches of seed-lac were tied in close proximity on the leeward side. The results will be noted during the ensuing year. It was noticed that the insects from seed-lac which had swarmed on old branches had died.

Revenue from grazing realized Rs. 37,950.

# (b) Agency of Exploitation.

(i) Departmental Agency.

### Northern Circle.

This was confined to the North Dángs by which 5,359 logs of teak measuring  $3,787\frac{1}{2}$  khandies (of  $12\frac{1}{2}$  cubic feet) and of other species 963 logs totalling 811<sup>1</sup>/<sub>2</sub> khandies were felled and taken to the sale depôt at Fort Songad station (Tapti Valley Railway). The Subir saw-mill also prepared the following :---

12,006 narrow guage sleepers All teak. 16,326 sizes of scantlings 1,34,668 battens. 10,345 boards.

# Central Circle.

Fellings under this heading are confined to as small limits as possible, nearly all coupes being sold standing to contractors; for the supply of fuel to Mahábleshwar Rs. 5,537 were spent on the departmental extraction of 3,64,326 cubic feet, the resulting price being Rs. 11,518; at Matheran 65,676 cubic feet were extracted, the cost being Rs. 4,818 and the revenue Rs. 7,037. From the Poona babul forests, 1,08,861 cubic feet, the results of floods, windfalls, erosion, and dead and dying trees, were cut by the department and sold for Rs. 8,453. As regards minor produce mhowra seed was collected departmentally in North and West Khandesh, the net revenue being Rs. 1,354, and hirda collected on the share system in the Rájur and Akola ranges of the Poona division realized Rs. 3,732.

### Southern Circle.

The works carried out under this head comprise timber and sandalwood brought to depôts for annual sales, fuel supplied to the Madras and Southern Mahrátta Railway for locomotives, other produce cut or collected experimentally to create a market for departmental use or for supply to other Government departments. Details are given in the following table :---

		Average of three preceding years.						7016-17.					
;	Balance.	Exploited during the year.	Toşal.	Disposed of during the year.	Cost.	Re- ceipts.	Balance.	Exploited during the year.	Total,	Disposed of during the year.	Cost,	Re- ceipts.	
Major.	C. ft.	Ć. ft.	C. ft.	C. ft.	Rs.	Rs.	C. ft.	C. ft.	C. ft.	C. ft.	Rs.	Rs.	
Timbor	6.21 636	9,98,381	16,20,017	9,38,904	4,21,790	10.80,200	3,79,744	10,93,661	18,33,405	11,42,748	4,96,663	14,30,055	
Fuel	8,64,708	35,93,623	44,58,331	36,50,019	1,24,387	2,46,353	7,80,258	41,15,014	48,95,272	37,76,369	1,59,546	2,31,120	
Sandalwood. Valuo Bs.	86	34,883	<b>34,949</b>	34,199	2,353	84,199	2,005	44,997	47,002	46.482	2,973	46,482	
Minor.							.		-				
Pamboos, Value Rs.		49	49	. 49	34	49		11,712	11,712	1,483		1,48	
Grass and other minor produce, Value Rs.		2,433	8,146	2.263	2,140	2,332	510	625	1,135	822	9,915 468	558	

The quantity of timber exploited during the year was 10,93,661 cubic feet against 9,80,423 in the previous year, an increase of 1,13,238 cubic feet. This increase is mainly due to a larger quantity of teak brought to Kodibág depôt from Gund and the Kálinadi slopes in Kánara W. D. and to the extraction of poles and other material for war purposes in Kánara W. D. and Belgaum. Though considerable progress in communications was made between Gund and Kadra they have not yet reached the stage where they can affect the outturn from that (Gund) range. A scheme for the improvement of communications from Gund to Kodibág depôt is being drawn up by Mr. Pipe, the Engineer specially deputed to make preliminary investigations during the year. The percentage of timber exploited departmentally to the total outturn was 47 against 55 in the previous year.

The quantity of fuel extracted departmentally during the year was 4,115,014 cubic feet against 3,660,641 cubic feet in the previous year, an increase of 454,373 which is due to larger quantities of railway fuel extracted in Kánara W. D. and to the departmental exploitation of fuel from coupes for retail sale to the public at the Honávar, Bhatkal and Shiráli fuel depôts in Kánara S. D. owing to want of contractors to run the depôts. The percentage of fuel extracted by Government agency to the total outturn was 44 against 31 in 1915-16.

The outturn of sandalwood was slightly greater in quantity than that of the previous year, but the revenue therefrom increased considerably, the prices obtained during the year being on an average nearly 50 per cent. higher all round. The revenue from this source was Rs. 46,482 against 30,675 in the previous year.

The departmental exploitation of bamboos worth Rs. 11,712 is an unusual operation and was undertaken in Kánara N., E. and W. divisions and Belgaum for supply to the Military Department.

In the Belgaum division, grass was cut departmentally and sold. Experiments in ensilage were not made as there is no demand for fodder of this description. In Kánara E. D. a small quantity of hirda was collected for experiment. In the Dhárwár-Bijápur division some gum was collected departmentally and sold for Rs. 202 at a net profit of Rs. 71.

The Government buffaloes (11) in Kánara N. D. carted firewood for the use of the Government saw-mills in that division and helped to cart sawn material from the mills to the railway station. The cart depats in Kánara N. and E. divisions, established in the year 1915 as per Government Resolution No. 2198 dated 9th March 1914, are independent of the above buffaloes and they worked at a net profit of Rs. 516 during the year as separately reported to Government shortly after the close of the year.

The monorail in the Belgaum division was again not used owing to frequent breakages and inexperience of the contractor's men to repair them.

The work turned out by the two Government saw-mills in Kánara N. D. was as under :---

		-		- Outtu	rn.	
Ма	Material.			1916-17.	1915-16.	
6 feet teak sleepers 7 ,, 2½ ,, Planks (teak) Scantlings (teak) Battens (teak) Scantlings (junglewood) Battens (junglewood)	• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	Number. " C. ft. " "	24,172 3,190  4,234 6,303 11,672 4,269 589	7,472 144 200 2,118 16,065 6,655	
Value of the outturn, estim Charges for running mills, Net income, estimated	estimated	•••	Rs. ** **	96,286 74,182 22,104	57,360 49,987 7,373	

The results of the year show a satisfactory improvement over the previous year. Three new saw-mills were purchased at the close of the year as per Government Order, Financial Department, No. 1250 of 21st April 1917 :---

One 1C horse-power mill with accessories and fittings complete for use in Kánara E. D., cost Rs. 10,222;

One 12 horse-power mill with accessories and fittings complete for use in Kánara C. D., cost Rs. 16,600;

One 14 horse-power mill with accessories and fittings complete for use in Kánara W. D., cost Rs. 20,110.

A contractor's saw-mill operating in Kánara E. D. is reported to have done the following work for this department :---

6 feet teak sleepers	•••	•••		No. 14,891	
7	•••	•••	•••	,, 626	
Planks	•••	•••		C.ft. 2,800	
Battens			•••	.,, 3,389	
Scantlings	•••	•••		" 3,140	

For sleepers the contractor gets the usual wages fixed in his contract agreement; for all other material he is paid a  $\frac{5}{5}$ th share on the sale price of the material, the remaining  $\frac{3}{5}$ th share going to the department; the Government share during the year amounted to Rs. 4,515.

### Sind Circle.

With the exception of the extraction of wood from Budka coupe in the Jerruck division which has been mentioned under Chapter IV—Research and Experiments, departmental operations were confined to the supply of fuel to Government steamers on the Indus. The quantity supplied totalled 1,04,717 cubic feet, the value being Rs. 2,911 and the expenditure Rs. 2,679.

# · (ii) Purchasers.

#### Northern Circle.

All forest produce except that mentioned above, that removed by privilege holders and free grants was removed by purchasers (under contract). For quantities and value see statement under "(c) Outturn and sources of forest produce".

### Central Circle.

By this agency is removed the greater part of the produce of the circle. Two hundred and fourteen coupes in all divisions were sold, less by 19 than in the previous year, but the price realized rose from Rs. 2,32,849 to Rs. 2,54,209 as a result of keen demand for timber and fuel. In Khándesh large quantities of dead wood were removed by purchasers either on permit or by sale of the right to collect in definite areas.

Disposal of royalty trees from revenue lands in accordance with the policy of Government that occupants should become the owners of such trees at a moderate price, and clearance of growth in revenue waste in West Khandesh, brought in Rs. 1,40,037 from 1,74,774 trees as against Rs. 1,00,661 from 1,23,768 in 1915-16.

Grass and grazing receipts both showed a steady increase, the former from Rs. 1,02,433 to Rs. 1,11,398, the latter from Rs. 1,43,083 to Rs. 1,68,263 or a total increase from Rs. 2,45,516 to Rs. 2,79,661. The number of animals on which grazing fees were paid was 9,47,862 as against 8,68,069, and 65,395 animals belonging to privilege holders grazed free of charge.

Bamboo revenue rose from Rs. 8,301 to Rs. 11,086; rosha-grass from Rs. 2,617 to Rs. 5,469, but hirda and shikekai fell slightly. On the other hand, the demand for tanning materials such as tarwad bark and ghatbor fruits rose to such an extent that miscellaneous revenue increased from Rs. 11,048 to Rs. 21,237.

D. I.	Average of pas	t three years.	1916-17.		
Produce.		Quantity.	Value.	Quantity.	Value.
<i>Major.</i> Timber Fuel	•••	C. ft. 7,87,879 66,07,829	Rs. 2,72,464 97,079	C. ft. 12,17,000 51,51,000	Rs. 2,92,950 1,06,152
Total	••••	73,95,708	3,69,543	63,68,000	3,99,102
<i>Minor.</i> Bamboos Grass and grazing Other minor produce	••••	Number. 41,02,448 	53,228 67,746 57,286	Number. 56,28,731 	65,484 75,740 54,565
Total	•••	•••••	1,78,260	•••••	1,95,789
Grand total	•••		5,47,803		5,94,891

# Southern Circle. The value of produce removed by purchasers was :---

The increase in the area of coupes sold accounts for the increase in the revenue from the major produce.

The increase in the number and value of bamboos is due to the increased demand as a result of the extensive destruction of houses in Dhárwár district by floods in November 1916; a considerable number was also purchased by Mr. Strickland of Shimoga from Kánara W. D. for sale to the Military Department.

The increase in the amount of grazing fees collected is due to the larger number of animals that grazed in the forests.

The decrease in the value of other minor produce is trivial and it is due to the fall in the prices for hirda farms.

### Sind Circle.

Receipts from the sale of coupes and deadwood at the annual sales are shown below :---

Divisio	מנ.	Descriptio	Description of area exploited.			Value realised.	
 Sukkur	· · · · ·	Coupes	•••		# 10,908	Rs.	125
Lárkána . Hyderabad .	•	Irregular f Coupes Coupes Coupes		····]}	3,579 3,448 3,095	$\begin{bmatrix} 22,0\\36,2\\1,02,2\\64,0\end{bmatrix}$	)46 221 201
Jerruck .		Deadwood	 Cotal, 1916-17		21,030	1 3,08,4	
		r l	Cotal, 1915-16		20,736	2,53,1	13

To the above must be added the revenue from all irregular fellings and thinnings amounting to Rs. 26,791 received during the rest of the year. It will be noticed that there is a rise in the receipts of Rs. 55,362 or a 22 per cent. increase on last year's figures; this is chiefly due to the rise in the price of fuel. The excess yield from the Hyderabad coupes alone was Rs. 33,246, the sales being held for the first time at Karáchi.

The revenue realized by the sale of fuel under the permit system was Rs. 7,095 against Rs. 6,704 of the previous year. There were increases in Sukkur and Hyderabad divisions and a slight decrease at Tatta in Jerruck. Prospects for the coupe revenue during the coming year as also the permit revenue in the Hyderabad division are excellent.

The grazing fee collect	tion was	as under :—	
Division.		1915-16.	1916-17.
•		$\mathbf{Rs.}$	$\mathbf{Rs.}$
Sukkur		13,136	13,748
Lárkána		6,797	6,991
Hyderabad		14,815	9,994
Jerruck	•••	11,435	7,217
Total		46,183	37,950

The fall in grazing revenue in Lower Sind is due to the unusual rains in the Kohistan hills which resulted in the herdsmen staying at home and in Kutch, outside the forests.

Minor forest produce.—The revenue derived from minor forest produce farmed out and assessment levied on lands leased out for cultivation as compared with last year's results is detailed below :—

Produce.	1915-16.	1916-17.
·	Rs.	Rs.
Lac	645	17,100
Babul pods	24,284	19,107
Grasses	3,888	3,253
Fishery	4,341	4,644
Cultivation	13,325	<b>13</b> ,482
Paban and bih	••• •••	450
- Total	46,483	58,036

As the figures show there was a drop in the revenue from babul pods owing to the absence of many of the hill herdsmen, and a large increase in lac revenue.

# (iii) Rights and Privileges.

# Northern Circle.

These were as usual. There were no complaints. Full details are given in Forms 19 and 20 and statement under "(c) Outturn and sources of forest produce "below.

# · Central Circle.

The value of the produce removed under this head was :---

				•	Rs.
Timber	- • •		•••	•••	15
Fuel	•••		•••	÷ •*• •	11,039
Grass and gr	0		•••	••••	28,481
Minor produ	ce .	•		•••	2,531
			•	Total	42.066

the major part representing privileges in Khandesh exercised under the Tapti Codes. In addition Rs. 11,032 were paid in cash as khoti shares on the forest revenue in the Kolaba division.

### Southern Circle.

There are no right-holders in this circle. Privileges are many and they are abused, though endeavours are made to check the abuse by enhancement of grazing fees and curtailment of free grants of forest produce ordinarily allowed by rules. It is difficult to give accurate figures under this head and the following is but a repetition of the figures returned in previous years :--

Produce.	Quantity.	Valuo.
Major. Timber Firewood	C. ft. 3,00,000 30,41,686	Rs. 72,000 6,46,353
Minor. Bamboos Grazing Minor produce	Number 30,00,000	15,000 8,00,387 1,80,000

Sind Circle.

The extent and value of forest produce and grazing enjoyed free under privileges amounted to :--

•			Y	alue Rs.
	Grazing, 9,989 animalş	9 × 6		3,859
	Firewood, 18,642 cubic feet	•••		179

(iv) Free Grants.

### Northern Circle.

Timber and other produce to the value of Rs. 4,503 as against Rs. 4,883 in 1915-16 was granted free. These grants were normal.

### Central Circle.

These were made to a value of Rs. 3,631, as against Rs. 5,008 in 1915-16, and for the usual objects such as rewards for fire protection, rebuilding houses, schools, temples, tals and wells.

### Southern Circle.

The value of forest produce granted free, compared with the average of the past three years, is as under :---

Produce			Average of pa	st three years.	1916-17,			
	Produce.	:	Quantity.	Value.	Quantity.	Value.		
Timber Fuel	Major. 	•••	C. ft. 33,617 31,229	Rs. 10,028 . 305	C. ft. 43,000 22,000	Rs. 10,138 212		
	Total	•••	64,846	10,333	65,000	10,350		
Bamboos Grazing Other minor	Minor.  produce		- 46,602 	418 4,916 1,478	84,220 	398 2,245 1,90 <b>1</b>		
<u>.</u>	Total	•••	••••••	• 6,812	•••••	4,544		
- 	Grand total		••••	17,145		14,894		

Free grants of timber worth Rs. 2,449 were made to poor villagers in the Bijápur district for repairing or rebuilding their houses damaged by the heavy rains of November 1916, which brought down thousands of tenements and caused much damage in the country. The increase in the number of bamboos is due to grants made to two villages partially destroyed by fire in Kánara Northern division. The decrease in the value of free grazing is due to the reason that this concession was curtailed or stopped in several cases for forest fires. On the whole the grants made were normal.

45

р 15—12

# Sind Circle.

Free grants are shown below :---

• •

				Val	ue,	
Produc	<b>6-</b>		- Extent.	1915-16.	1916-17.	
Grazing Minor produce Timber firewood	••• •••	•••	2,611 animals. 460 bundles. 4,798 c. ft.	Ps. 1,960 42 597	Rs. 1,091 19 359	

In addition to the above free grazing was allowed to forest contractors to the value of Rs. 2,051.

# (c) Outturn and Sources of Forest Produce.

# Northern Circle.

The outturn from all sources of forest produce for the year 1916-17 compared with that of the previous year was as follows :---

		,		,	м	aterial.				د
Agency of exploitation.		Tim	ber.	Fu	Fuel.		Total wood.		Grass and grazing.	Minor produce.
		Cubic feet in solid.	Value in Rupees.	Cubic feet in solid.	Value in Rupees.	Cubic feet in solid.	Value in Rupees.	Value in Rupees.	Value in Rupecs.	Value in Rupees.
	(1916-17	1,09,233	1,25,538	67,969	2,293	1,77,202	1,27,831	<b>4</b> 8		4,949
Government	(1915-16	89,250	1,57,529	98,744	5,023	1,87,994	1,62,552		68,120	8,799
	f <sup>1916-17</sup>	23,33,828	16,86,782	61,79,820	12,338	85,13,648	16,99,120	93,348	98,502	39,216
Purchasers		26,39,965	11,91,533	54,41,809	11,755	80,81,774	12,03,288	34,427	1,02,887	35,924
Muss quantaaq	<b>{ 1916-17</b>	8,591	<b>3,3</b> 65	6,840	55	15,431	3,420	470		618
Free grantees	···` ( 1915-16	8,722	2,466	80	2	8,802	2,468		•••	6
Dulullogo bold	¢1916-17	76,220	2,28,660	86,58,571	3,00,635	87,34,791	5,29,295	11,695	3,65,197	36,240
Privilege hold	ers. ( 1915-16	76,220	2,28,660	76,21,903	2,64,641	76,98,123	4,93,301	5,048	2,96,780	67,000
Tota	1, 1916-17	25,27,872	20,44,345	1,49,13,200	8,15,321	1,74,41,072	23,59,666	45,561	4,63,699	81,018
Tota	1. 1915-16	28,14,157	15,80,188	1,31,62,536	2,81,421	1,59,76,693	18,61,609	39,475	4,67,787	1,01,729

# Central Circle.

Comparison for two years is made in the following statement :---

.

.

			1	• ,	• ,		Mater	ial.				
Agency of exploitation.			Timber.		Fu	Fuel.		Total wood.		Bamboos.		Minor produce.
· ·			Cubic ft. solid.	Value. Rupees.	Cubic ft. solid.	Value. Rupees.	Cubic ft. solid.	Value. Rupees.	Number.	Value. Rupees.	Value, Rupees.	Value. Rupees,
	( 1915-16		7,147	1,387	2,85,283	22,504	2,93,430	23,891	-			
Government	1916-17	•••	10.000	2,320	8,42,920	28,312	8,53,728	20,691 30,632	1,567 155	94	26	19,403
	•	•••						•		1		10,389 {
Purchasers	-{		7,50,773 	3,09,469	80,08,501	70,934	37,59,274	8,80,403	8,43,634	8,301	2,45,516	24,044
	1916-17	•••	8,22,184	3,86,849	29,47,144	55,206	87,69,328	4,42,055	10,80,050	11,086	2,79,661	37,708
Free grantees	∫ <sup>1915-16</sup>	•••	19,604	3,266	29,091	903	48,895	4,169	10,000	85	<b>.</b>	.669
TICC BIBLICCS	1916-17	•••	17,719	2,732	957	47	18,676	2,779	2,485	38		814
Privilege hold-	∫ <sup>1915-16</sup>		1,427	165	5,02,918	10,666	5,04,840	10,831		-	27,688	4,659
ers.	1916-17	•••	316	15	5,06,819	11,039	5,07,135	11,054	1,200	8	28,481	2,528
Total	∫ <sup>1915-16</sup>	••	7,79,151	3,14,287	88,26,788	1,05,007	46,05,939	4,19,294	8,55,201	8,479	9,73,230	48,775
10041	1916-17	••	8,51,027	8,91,916	37,97,840	94,604	46,48,867	4,86,520	10,83,890	11,128	3,08,142	51,439

-

# Southern Circle.

The total outturn of the year is summarized in the following table :--

Agency of exploitation		Tim	ber.	Fu	le].	Total	wood.	Bam	boos.	Rendel	Minor	
	Cu	abie set.	Value.	Cubic fect.	Value.	Cubic feet.	Value.	Number.	Value.	Sandal- wood Value.	pro- duce, value	Grasing value.
Government	10,9	9,661	Rs. 14,30,055	. 41,15,014	Rs		Rs.		Rs.	Rs.	Rs.	Rs.
Purchasers	12,1		2,92,950 10,138	51,51,000	1,06,159	63,68,000	16,61,175 3,99,102	22,894 56,28,731	1,483 65,484	46,482	 54,565	556 75,740
Privilage baldour		0,000	72,000	22,000 30,41,686	212 6,46,353	65,000 33,41,686	10,850 7,18,953	84,220 30,00,000	398 15,000	•••• •••	1,901 1,80,000	2,245 3,00,387
Total, 1916-17	26,5	53,661	18,05,143	1,23,29,700	9,83,837	1,49,83,361	27,88,980	87,35,845	82,365	46,483	2,38,466	3,78,928
Total, 1915-16	20,5	54,281	14,66,968	1,46,59,010	9,77,421	1,67,18,291	24,44,389	52,63,841	63,128	36,761	2,51,927	8,76,947

The number of cattle for which grazing was allowed during the past two years is as under—

		1916-17.	1915-16,
Free	•••	30,569	33,085
On fee	•••	4,59,461	4,42,938
Total	•••	4,90,030	4,76,023
			·

The total expenditure incurred under "Management of State Forests" was Rs. 8, 24,635 against Rs. 7,28,850 in the preceding year.

# Sind Circle.

The outturn from all sources of forest produce is compared with that of 1915-1916 in the following statement :---

•	ł	Material removed.										
		Timber.		<b>Fu</b>	Fuel.		Total wood.					
		C. ft.	Value.	Ö. ft.	Value.	C, ft.	Value.	Minor. produce.	Grazing.	Total.		
<u> </u>			Rs.	-	Bs.		Rs.	Rs.	Rs.	Rs.		
Government	•••	11,118	1,796	289,384	13,246	3,00,502	15,042	2,468	•	17,510		
Purchasers		8,58,557	1,04,882	1,84,89,686	2,99,309	1,68,43,243	4,04,392	40,821	87,950	4,83,163		
Free grantees	•••	8,191	351	67	• 7	8,258	858	19	2,048	2,425		
Privilege holders	•	***		18,642	179	18,642	179		8,859	4,038		
Total, 1916-17	••••	3,67,866	1,07,029	1,87,97,779	8,12,741	1,91,65,645	4,19,971	43,308	43,857	5,07,136		
Total, 1915-16	[	2,15,029	67,222	1,60,15,512	2,01,603	1,62,30,541	2,68,825	34,428	54,887	8,58,140		

The quantity and value of material removed by the Public Works Department from the areas temporarily alienated to it along bunds and canal banks were as follows :—

Material.		Quantity.		Value. Rs.
Timber—Timber pieces	•••	18,636	••,•	1,675
Branch wood bundles	••	3,550	•••	473
Earthcubic	feet	29,05,928	•••	726
-		Total	•••	2,874

# CHAPTER III.

# FINANCIAL RESULTS.

### Northern Circle.

Financial results of the year as compared with those of last year and the average of the past five years are given in the following statement :----

Head.		1916-17.	1915-16.	Average of five preceding years.
Revenue	 •••	Rs. 20,40,421 (deduct) 642	Rs. 16,57,003 (deduct) 68,120	Rs. 15,75, 50 Famine fodder.
• •		( net) 20,39,779	(net) 15,88,883	
T7	A	1,99,549	3,55,694 (deduct) 1,53,330	3,29,800 Famine fodder.
Expenditure	В	1,99,549 - 3,83,804	(net) 2,02,361 4,08,045	3,88,083
Total, Expendi	ture	5,83,353	6,10,409	7,17,883
Surplus	•••	14,56,426	9,78,474	8,57,767

N.B.—The above figures include the following on account of royalties on forest produce from lands outside forests :—

	•			Rs.
	Revenue	•••		3,65,091
•	Expenditure		<u>.</u>	2,996

.

. .

Classification of Revenue and Expenditure of the year 1916-1917 :---

IREVENUE.						
Particulars.		Receipts.	Percentage.			
Major produce Minor produce Famine fodder	•••	18,26,951 2,12,828 642	89 <sup>.</sup> 5 10 <sup>.</sup> 5			
Total		20,40,421	100			

II.--EXPENDITURE A.

	Rs.	Percentage.
Extension and constitu-	2,200	. 1.1
Improvement Exploitation	92,630 1,04,719	46·4 52·5
Total	1,99,549	100
	. [	

# III.-EXPENDITURE B.

· Particulars.		Charges.	Percentage.
Administration Executive Protective	•••	Rs. 33,567 1,44,195 4,05,590	5.7 • 24.6 69.7
Total	•••	5,83,352	100 -

Figures of the various divisions compared with those of last year are as follows :--

Division.	Year.		Receipts.	[ ]	Expenditure	•	
			Hocerpus,	A	В	Total.	Not results.
			Rs.	Rs.	Rs.	Rs.	Rs.
Panch Maháls	{ 1915-16 1916-17		1,14,023 1,58,060	10,927 7,825	48,650 43,245	59,577 51,071	+54,446 +1,06,939
Surat	{1915-16 1916-17	•••	2,32,603 2,01,657	1,12,298 1,05,786	62,784 52,885	1,75,032 1,58,178	+ 57,571 + 43,479
North Thána	<b>{</b> 1915-16 1916-17		5,54,038 8,04,419	28,281 88,110	- 54,539 55,768	82,820 93,868	+4,71,918 +7,10,551
West Thána	{1915-16 1916-17	•••	9,56,096 8,51,174	14,817 14,195	49,756 56,819	64,073 71,014	+1,92,013 +2,80,160
East Thána	1915-16 1916-17	•••	2,03,488 2,89,209	14,924 16,183	63,525 60,333	78,449 76,516	+1,25,039
South Násik	$\left\{ {\begin{array}{*{20}c} 1915-16\\ 1916-17 \end{array}} \right.$	: 	1,68,442 1,61,437	16,128 9,070	54,C46 88,666	70,169 47,736	+98,278
North Násik	$\left\{ \begin{matrix} 1915\text{-}16\\ 1916\text{-}17 \end{matrix} \right.$	•	59,819 68,428	2,468 5,885	91,051 28,775	33,514 31,460	+ 26,805 + 33,968
Násik sub-division (newly created)	$\left\{ {\begin{array}{*{20}c} 1915-16\\ 1916-17 \end{array}} \right.$	•••	4,057	761	 13,183	13,944	- 9,987
Total*	{1915-16 1916-17	•••	16,57,003 20,40,421	8,55,694 1,99,549	4,08,045 3,83,804	7,63,739 5,83,858	+8,93,264
Average of past five years	*** ***	-	15,75,650	8,29,800	3,88,093	7,17,883	+8,57,76

\* This is inclusive of the figures for the Direction office, Working Plans division and Famine folder.

Panch Mahals.—An increase of Rs. 55,118 was due to a fairly normal agricultural year and war demands, resulting in seventy coupes being sold for Rs. 1,16,366 as against 47 coupes for Rs. 71;248 in the last year. A decrease of Rs. 2,192 in receipts from teak in malki fellings was due to a smaller number of trees being sold, though prices were considerably higher. A decrease of Rs. 5,279 occurred under grass, owing to the prices returning to normal on the disappearance of scarcity in neighbouring districts.

Surat.—The growing surplus of this division on which we have been priding ourselves received a slight setback due firstly to the May sale of timber at Fort Songad estimated to realize Rs. 2),000 being postponed owing to lack of trucks which had prevented the removal of material sold last February; and secondly to last year's receipts from the saw-mill being unduly inflated by the inclusion of a bill amounting to Rs. 13,771 for sleepers supplied in 1914-15, so that the saw-mill surplus revenue for last year's working was really Rs. 16,246 and not Rs. 30,017 as then shown. Compared with the former figure this year's surplus from the saw-mill working of Rs. 18,916 compares very favourably, especially in view of the fact that working expenses were Rs. 4,958 higher. Against this we have a saving on total expenditure of Rs. 18,200 made up of Rs. 10,600 under "B—Establishment" and Rs. 7,660 under "A—Conservancy and Works". This last figure includes a bill for cartage amounting to Rs. 4,600 which ought to have been paid before the end of the forest year and now remains a charge against the coming year. Frices or timber were higher. The total financial results were very satisfactory.

North Thana.—The dullness in the timber trade due to war continued, chiefly by rendering the supply of trucks difficult, but selling of standards in the coupes of the year (as elsewhere recorded) produced an extra Rs. 80,000, thus giving a net increase of Rs. 58,777 in coupe prices over last year's figure. An increase of Rs. 2,00,674 was realized by a greater number of trees being sold from gurcharans and malki lands. Both of these increases must be regarded more in the light of 'windfalls' than anything else. An increase of Rs. 10,000 in the total expenditure was due to providing accommodation for Rangers and their offices in the newly constituted ranges, and to the part construction of the Saiwan-Udhwa road.

East and West Thánas.—These two divisions are taken together as not separately comparable with last year's returns owing to the reorganization of charges already alluded to, and they must be compared with the joint results of Central and South Thána of last year's report. There was a net increase

р 15—13

of Rs. 96,491 over last year's joint receipts chiefly due to the sale of standards in coupes and, as in North Thana, this must be regarded in the nature of a 'windfall'. A demand for timber stimulated by the war was negatived by a shortage of wagons due to the same cause and resulted in general dullness in trade though abnormally high prices were realized where transport was

available. North and South Násik and Násik sub-division.—As in the case of East and West Thánas, and for a similar reason, it is impossible to compare each charge with last year's returns. They are, therefore, grouped together. There was an increase of Rs. 27,928 in total net revenue as compared with Intere was an increase of Rs. 27,928 in total net revenue as compared with Iast year, due entirely to better prices received for coupes.

General.—Financial results were very satisfactory, and if it had not been for the lack of railway transport due to the war, results would have been far better still.

# Central Circle.

Excluding famine fodder operations, the financial results of the past two years and the average of the five preceding years are as follows :----

Year.	5	Revenue.	Expend	liture.	Surplus.	
		Re	Rs.	Rs.	Rs.	
1916-17		8,83,£98 { A. B.	1,14,897 } 4,06,741 }	5,21,638	3,61,960	
1915-16	•••	7,72,218 { A. B.	1,04,365 4,00,991 }	5,05,356	2,66,862	
Averagø 1911-12 1915-16.		7,69,567 { A. B.	1,32,242 3,93,283 }	5,25,525	2,44,042	

and separating the jurisdictions of the two Commissioners the figures are :---

### Central Division.

		Revenue.	Expenditure.	Surplus.
Yeaz.		Rs.	Rs.	Rs.
1916-17 1915-16 Average of 1911-12 1915-16.	to	7,16,800 5,93,549 6,31,841	4,24,601 4,13,867 4,26,027	2,92,199 1,79,682 2,05,814

### Southern Division.

1916-17	1,66,798	97,037	69,761
1915-16	1,78,669	91,489	87,180
Average of 1911-12 to	1,37,727	99,499	38,228
1915-16.		· · · ·	

Thus the net revenue, in spite of an increase in expenditure of Rs. 16,282 has risen by Rs. 95,098, a satisfactory state of affairs which is mainly due to two divisions, North and West Khåndesh, though East Khåndesh and Såtára also showed better results than in the previous year. The Poona surplus showed a slight decrease and that in Kolába a considerable one. Looking to gross receipts which are a better index of a season's working than is the surplus, for the latter may be affected by establishment and other varying charges, it is found that every division but Kolába showed a rise, North and West Khåndesh a most noticeable one, and Såtára to a substantial degree which is all the more qualifying in view of the fact that the division has been worked at a deficit for some years past. Comments on each division follow.

East Khåndesh.—Gross receipts increased by Rs. 9,625 due to good demand for timber coupes and bamboos and to increased royalty on forest material imported into the district from adjacent States. Grass and grazing receipts also improved. Establishment charges fell with the transfer of an Imperial officer to the Indian Army Reserve and his replacement by a Provincial officer. The surplus accordingly rose from Rs. 73,102 to Rs. 88,815.

North Khandesh.—The stagnation in the timber and fuel market which so adversely affected revenue in 1915-16 entirely disappeared, and gross

receipts increased by Rs. 46,615 as compared with that year, and by Rs. 18,879 as compared with the average of the five preceding years. Prices paid for coupes were excellent, and grass and grazing and rosha-grass revenue also increased. Expenditure showed a slight rise, and the net surplus was Rs. 51,570 as against Rs. 10,008.

West Khandesh.-Similar conditions prevailed as in North Khandesh. Gross receipts rose by Rs. 50,829 and the surplus by Rs. 50,710, the result of great demand for timber and fuel, both from coupe and from revenue lands under clearance by the department; and grazing receipts also showed an increase of Rs. 10,000, partly due to the transference of large areas from pasture to forest proper.

Poona .-- Though the surplus showed a small decrease of Rs. 3,460, this was entirely due to establishment charges, there having been for half the year a second sub-divisional officer on high pay attached to the division. The gross receipts were the highest ever recorded, and what is more to the point is that they were obtained entirely from lands in charge of the department, and were not swollen, as was the case in 1915-16, by Rs. 24,000, the sale proceeds of babul on lands under transfer to the Revenue Department. These highly satisfactory results were due to increasing demand for all forest material, to careful supervision of grazing collections and to the high price realized for tarwad bark.

Satara.-This division; in spite of increased expenditure, showed a surplus of Rs. 1,407 instead of the deficit of Rs. 9,329 which occurred in 1915-16, and of the continual deficits of many years past. Better prices for coupes, and the growth of demand for fuel at Mabábleshwar, to which must be added better arrangements, both sylvicultural and financial, for meeting the latter, were the cause of the improvement, and it is an improvement which may be expected to continue looking to the absence of material outside, and the dependence of the district on local resources which can only be met from the forests.

Kolaba.-A rise in expenditure of Rs. 5,548, combined with a decrease in receipts of Rs. 11,871, resulted in a surplus decreased by Rs. 17,419 as compared with that of 1915-16, but still well above the average of the five previous Jears. The decreased revenue was due partly to less being received for coupes, not it may be said owing to poor demand but to inferior quality of several of the coupes, to fewer royalty trees in occupied lands being disposed of, and to grazing revenue falling owing to prevalence of cattle disease; the increased expenditure was mainly owing to payment of khoti shares for two years in one, the khots in 1914-15 having in 1915-16 refused to sign their agreements. Thus the setback may confidently be said to be purely temporary.

珀ead.	Receipts.	Percentage.
Major produce Minor produce	· Rs. 4,72,541 4,11,057	58·5 40·5
. Total	8,83,598	100
Head.	A. Charges.	Percentage.
Extension and constitu- tion Improvement Exploitation	Rs. 8,625 69,049 37,222	7.5 60.1 32.4
Total ·	1,14,896	• 100

Further classification of the revenue and expenditure is as follows :---

<u>B.</u>						
Head.	Charges.	Percentage.				
Administration Executive Protective	0 00 169	13·8 85·0 51·2				
Total	4,06,741	100				

# Southern Cirele.

The gross revenue and the surplus have beaten all previous records. The following table compares the revenue and expenditure with those of the previous year and with the average of the preceding five years :---

Year.	Revenue. •	<b>E</b> ≭p endi	iture.	Sarpins.	Percentage of surplus to gross revenue.
	Rs.	Rs.	Rs	Re.	•
1916-17	- 23,57,731	A 8,37,221 B 4,08,185	12,45,406	11,12,325	47~
1915- <b>1</b> 6	19,95,685	A 7,35,480 B 4,04,419	11,39,899	8,55,786	43-
Average of 1910-11 to 1914-15.	17,52,274	A 6,59,727 B 3,60,335	10,20,06z	7,32,212	42-

The above shows that there was an increase in the receipts and surplus as compared with the corresponding figures of the previous year and the average of the five preceding years. Though the expenditure increased by about a lakh over the last year for reasons stated below, the percentage of net to gross revenue also increased from 43 to 47 mainly on account of curtailment of all sorts of expenditure with a view to economy.

The following statement compares the revenue and expenditure in details of budget heads with those of 1915-16 :---

Budget heads.			Amoun	at .	T	ifference.
· · · · · · · · · · · · · · · · · · ·			1915-16.	1916-17.		
· · · · ·	_		Rs.	Rs.		Rs.
Receipts	I	•••	13,74,332	17,09,697	+	3,35,365
	II	•••	5,68,738	5,94,890	+	26,152
· •	III	•••	459	253	_	206
-	1 <u>V</u>	•••	11	11		
	<b>v</b>		52,145	52,880	+	735
•	Total, Receipts	•••	19,95,685	23,57,731	+	3,62,046
Expenditure A.	I		5,91,151	6,69,562	+	78,411
_	II		7,050	6,463	·	587
	111		62	73	+	11
	VI	•	12,475	10,175	<u> </u>	2,300
	VII	•••	71,701	78,442	+	6,741
	VIII		48,171	55,591	+	12,420
· · ·	IX.		9,870	16,915	+	7,045
	Total, A.	•••	7,35,480	8,37,221	+	1,01,741
Expenditure B.	· I		3,45,766	3,51,387	+	5,621
•	11		45,216	43,192		2,024
•	111	•••	18,437	13,006	+	169
,	Total, B.	•••	4,04,419	4,08,185	+	8,766
То	tal, Expenditure	•••{	11,39,899	12,45,406	·+	1,05,507

52

The gross receipts rose by 3.6 lakhs over those of the previous year mainly under the revenue head I. Notwithstanding the general dislocation of trade and business due to war, prices for all classes of timber kept up in a wonderful way, teak realizing record prices at the Tavargatti sales in Kánara Northern division. Larger quantities of timber, brought for sale from the Gund and Sulgeri forests in Kánara Western division, and larger amounts of arrear revenue collected also contributed to the increase. A larger number of coupes sold account for the increase under II.

The increase of Expenditure A by 1.01 lakh occurred as under :---

Under I.—Due to the purchase of saw-mill machinery worth about Rs. 47,000 for the four Kanara divisions and to payments of wages for larger quantities of timber exploited from forests.

Under VII.—Due to increased expenditure on road construction and development of river communications in Kánara Western division.

Under VIII.—Due to the unusual cost of Wild Tribes (Berad) Settlement in the Khánápur taluka of the Belgaum division (Rs. 6,224), to larger amount of cultural operations undertaken during the year and to the cost incurred in protecting burnt areas in all divisions.

The deputation of a Special Engineer, Mr. Pipe, for the improvement of river communications in Kánara Western division contributed to the increase of expenditure under B-I-Salaries.

The following table exhibits the proportion of revenue and expenditure under the different heads :---

Particulars			Total.	Percentage
Revenue			Rs.	
Major produce	•••	•••	21,09,062	89.2
Minor produce		•••	1,95,789	8.3
Miscellaneous	••••	•••	52,880	2.3
•	Total	•••	23,57,731	100
· · · · · · · · · · · · · · · · · · ·				
Expenditur		- I.	12,586	1.5
Extension and consti	enhiôn	•••	1,21,446	14.5
Improvement	•••	•••	7,03,189	84.0
Exploitation	•••	•••	1,05,109	040
	Total	•••	8,37,221	100.
TT	D			
Expenditur	е Д.		59,549	14-6
Administration	• • •, •	***	1,71,807	42.1
Executive	•••	•••	1,76,829	43·3
Protective	· · ·	•••	1,10,040	
	Total		4,08,185	100.

The outstandings of revenue at the opening and close of the year were Rs. 4,92,395-9-8 and Rs. 5,93,907-7-9 respectively. Eleven items amounting to Rs. 1,477-8-3 were written off as irrecoverable revenue under the orders of the Conservator.

The outstandings due to the department by contractors and disbursers stood at Rs. 2,22,837-15-10 against Rs. 2,02,267 at the end of the preceding year.

The estimated value of timber and other produce in depôts rose from Rs. 10,85,650 to Rs. 11,84,170 on account of the larger quantities of material on hand at the close of the year.

The value of live and dead-stock shows a net difference of R3. 38,027 in favour of the year, being part value of the three new saw-mills and other

**д** 15—14

machinery purchased for use in Kánara Northern, Eastern, Central and Western divisions at the close of the year.

Year.	Revenue.	Expendi	ure.	Surplus.	Percentage of surplus to gross revenue.	
	Rs.	Rs.	Rs.	Rs.		
1916-17	5,34,270	A 34,933 B1,82,170	2,17,103	3,17,167	59.3	
1915-16	£,79,875	$\left\{\begin{array}{ccc} A & 32,511 \\ B & 1,83,151 \\ \end{array}\right\}$	2,15,662	1,64,213	43.5	
Average of five years-1910-11 to 1914-15.	4,10,937	A 43,575 BJ,65,801	2,09,376	2,01,561	49.0	

the those of the preceding

Sind Circle.

The collection of coupe revenue tendered in any particular year in Sind is spread over two years; the revenue as shown for the present year includes therefore half that due for the year 1915-16. The figures show an increase in revenue, expenditure and surplus. This increase in surplus of revenue is shared in by all divisions, the greatest increase being in Hyderabad where it is Rs. 68,084, the total surplus Rs. 1,24,327 being greater than last year's gross revenue of Rs. 96,612.

The percentage of net to gross revenue increased from 43.2 to 59.3 per cent. Even including a normal programme of expenditure under "Conser-vancy and Works" which has at present been curtailed owing to the war, the percentage of surplus would be 52.9 per cent. if average figures are used under head A of expenditure.

The following table compares the receipts and charges of the year in detail according to budget heads with those of 1915-16 :---

Bu	dget heads.		1915-16.	1916-17.	Difference.		
Receipts	I II III IV V		Rs. 6,082 3,45,431 1,105  27,257	Rs. 16,678 4,87,933 871  28,788	+ + +	Rs. 10,596 1,42,502 234  1,531	
́ Т	otal, Receipts		3,79,875	5,34,270	+	1,54,395	
Expenditure A.	I II VI VI VII VII IX	· · · · · · · · · · · ·	4,217 64 1 1,896 5,662 15,788 4,883	7,948 848  1,143 6,172 14,497 4,325	++  +	3,731 784 1 753 510 1,291 558	
•	Total, A.	•••	32,511	34,933	+	2,422	
Expenditure B.	II III	• • •	1,50,352 22,400 10,399	1,51,375 20,833 10,462	++	1,023 2,067 63	
•	Total, B.	••••	1,83,151	1,82,170		981	
To	tal, Expenditure	• • •	2,15,662	2,17,103	+	1,441	

Revenue.—The total revenue of the year shows an advance of Rs. 1,54,395 over that of the previous year and Rs. 1,18,994 over the average of the preceding five years. The increase was due to the following causes : -

- (i) Better prices obtained by the sale of coupes, and wood from thinnings.
- (ii) Increase in the Sukkur division due to the clearing of forest on an area temporarily alienated to the Military Department for a farm.
- (iii) Better revenue from minor forest produce, especially lac.
- (iv) Departmental exploitation of one coupe in the Jerruck division.

Expenditure.—The slight increase in expenditure under "Conservancy and Works", viz., Rs. 2,422, was entirely owing to the money spent on the departmental exploitation of the coupe referred to under the head of revenue. There is a decrease under "B.—Establishments", this is wholly due to economy under head of travelling allowances B-II, the increase under B-I was due to the privilege leave allowance paid to the retiring Deputy Conservator.

The following statement shows the proportion of revenue and expenditure under the different heads :---

Particulars.		Total.	Percentage.
Revenue.		Rs.	Rs.
Major produce Minor produce	•••	4,22,349 1,11,92 <mark>1</mark>	79. 21
•		5,34,270	100
Expenditure A.	.	~`	
Extension and constitution Improvement Exploitation	•••	24,995 9,938	71 29
•		34,933	) 100
Expenditure B.			
Administration Executive Protective	• • •	29,872 82,829 69,969	16 46 38
· · ·		1,82,170	100

The revenue outstanding on 30th June 1917 was Rs. 24,900 against Rs. 77,510 on the same date last year. This represents instalments payable by coupe contractors and others which are not due or recoverable until after the close of the year.

Bhai Jethmal has still to pay Rs. 2,214 on account of the lac contract of the Jerruck division for the year 1908-09. He has filed an appeal in the Court of the Judicial Commissioner of Sind which will shortly be heard.

The financial prospects for the ensuing year are excellent.

# CHAPTER IV.

# Research and Experiments.

### Northern Circle.

In Panch Mahals and North Násik experiments in tapping Boswellia . serrata were carried out with considerable success. They will be continued in the coming year in the light of much valuable information gained.

### Central Circle.

Mr. Thomson in Poona continued his experiments on germination of hirda and confirmed the results obtained in the previous year, namely, that removal of the dried up fleshy covering of the seed has a marked effect. The cultivation of lac was carried out on a small scale, but with no better results than before; propagation is simple enough, but protection of the insects from ants has completely failed.

Eucalyptus of various species, grevillea and casuarina are under experiment on the Toranmal plateau in North Khandesh, and offer promise of successful introduction.

A most important work was carried out by Mr. Starte in North Khandesh at the instance of the Indigenous Industries Committees and on lines suggested by the Forest Economist, with the tapping of salai (Boswellia serrata) which tree exists in great numbers in the Satpuda hills but is of no present economic value. It is unnecessary here to give details of the work, for all results have been communicated to the Committee and to the Forest Economist, but the latter's reply to Mr. Starte may be partly quoted :---

"The results you have obtained are by far the most important as yet available, as the method of carrying out the experiments was all that could be desired. I recently sent small samples of gum, turpentine and resin to the Conservator suggesting that he should forward them to you to see; we have also sent bulk samples to various firms for valuation, and I will send you copies of their reports in due course. I trust now that as the experiments both as regards tapping and the preparation of bulk samples have reached an advanced state, we shall be able to induce a firm seriously to consider the proposition of starting this industry."

There the matter stands at present, and all that can be said is that in raw material the Khándesh forests offer a practically unlimited field for such an industry. The following remark is taken from the Inspector-General of Forests' Note: — Of the three products obtainable from the Boswellia crude resin, turpentine, gum, and rosin, the first two "have been reported on favourably for commercial purposes, and when the problem of making the gum suitable for commercial mucilage has been solved, there is every hope of the commencement of a new forest industry which may expand to large dimensions: with its favourable situation and large supplies of salai Khándesh should be able to take an important part in the development of this industry, when it comes."

# Southern Circle. (i) Research.

Survey of Tanning Products.—At the beginning of the year, Mr. J. A. Pilgrim, Tannin Expert to the Government of India, paid a visit to the Belgaum division with a view to making enquires into the relative value of the various tan stuffs used by local tanners. He visited the principal tanneries in the district and drew up a short note of his enquiries. He was of opinion that there existed an urgent necessity of testing the various products locally and advocated the establishment of a tannery at Khánápur. Nothing further was done in this direction during the year.

Fruits of kumbia (*Careya arborea*), avla (*Phyllanthus emblica*) and lantana were sent to the Imperial Forest Research Institute, Dehra Dun, from the Belgaum division, with a view to ascertain their commercial uses, if any. The first two were declared useless as tanning materials, as they contained very little tannin. The lantana seeds were found to contain no colouring agent in sufficient quantity to be of any economic value.

Charcoal making and wood distillation.—Further experiments of charcoal manufacture were made in the Khánápur central range, Belgaum division, during the year. It is understood that contractors in the Belgaum and Gokák ranges have now regularly taken to charcoal making and supplying it to the Poona market. The details of charccal making experiments in the Belgaum division up to date are given below :—

Year.	Amount expended.	Quantity sold.	Revenue realized.	• Remarks.
1912-13 1913-14 1914-15 1915-16	58 7 3 2,716 3 6	Mds. lbs. 137 12 14,876 25	Rs. a. p. 58 7 8 2,335 6 3	· · · · · · · · · · · · · · · · · · ·
1915-10 1916-17 Total	855 1 3	8,789 14 2,089 16 25,893 11	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Charcoal worth Rs. 1,212 on hand at the close of the year.

The Divisional Forest Officer reports that under the present primitive conditions of manufacture it is almost impossible to produce charcoal at a low enough rate to compete with the supply from other sources, and advocates the introduction of a proper plant for the dry distillation of wood;. the bye-products of charcoal, now wasted, would then become the main items of value, leaving charcoal as a residue of pure profit.

One hundred cubic feet fuel of the marginally noted species were sent

Teak (Tectona grandis). Hela (Terminalia belerica). Jamba (Xylia dolabriformis). Kharsing (Stereospermum xylocarpum). Biba (Semecarpus anacardium). at the suggestion of the Commissioner, S. D., from the Belgaum division to Mr. Shaligram, Industrial Inspector, Kolhápur, to be tested for charcoal and bye-products. The result of his experiments is awaited.

In Kanara Southern division, a coupe contractor was instructed in the manufacture of charcoal and the Divisional Forest Officer estimates the contractor's net profit at one rupee per maund of 56 lbs.

Rosha-grass.—A sample of grass, suspected to be "rosha" grass and sent to Dehra Dun for identification from the Belgaum division, was pronounced to be a different species (Cymbopogon martini).

Burrs on trees.—A consignment of "burrs" of casuarina, kindal, mattiheddi and savar was sent to Dehra Dun from Kanara Western division, for trial in veneering work and a report thereon is awaited.

### (ii) Experiments.

Timber seasoning.—The Forest Economist, Dehra Dun, visited the experimental seasoning shed at Kodibág (Kánara Western division) and the experiments of seasoning different timbers under different methods undertaken by him in the Dándeli range (Kánara Northern division) and at Kodibág were continued, the seasoned logs at Kodibág having been sawn up intoscantlings. The results of the experiments will be known next year.

Wood blocks for street pavement.—The teak and jamba paving blocks sent to the Bombay Municipality for trial in 1915 from Kánara Northern division were put down on an area of about 7,522 square feet of Frere Road a road most heavily subjected to cart-traffic—and successfully passed through one complete monsoon according to the report received from the Municipal Engineer. Such wooden pavings ought to prove most advantageous in big cities like Bombay both from a financial and sanitary point of view and it is open to the public bodies and corporations to take due notice of the experiment tried with success in Bombay.

Junglewood sleepers for railway line.—The trial lot of matti (Terminalia tomentosa) sleepers supplied from Kánara Western division to the North-Western Railway and laid on 1st August 1911 was thus reported on :—

- " With bearing plates—Fifty-eight laid down of which 52 are in good order, 4 cracked at one end, not serious, 1 surface cracks, 1 badly cracked.
  - "Without bearing plates—Fifty-eight laid down. 50 in good order, 4 cracked at one end, not serious, 3 surface cracks, in some cases somewhat serious, 1 seriously cracked but not sufficiently so to cause rejection."

In Kånara Western division, at the Conservator's suggestion, the experiment was made of cutting jamba (Xylia dolabriformis) sleepers from green trees of large size and then seasoning in shade, with a view to ascertaining whether this will overcome the difficulties of (i) heart-shake and (ii) cracking. Twenty sleepers of the usual measurements of teak sleepers that are annually supplied to the M. & S. M. Railway ( $6' \times 8'' \times 4\frac{1}{2}''$ ) were sawn out of one tree and are now seasoning in the forest bungalow at Gund. The Divisional Forest Officer reports that six of them show heart-shake more or less and the remaining 14 appear sound; none, however, showing any tendency to crack since cutting four months ago. Further observation is necessary before arriving at any definite conclusion.

р 15—15

Camphor seed.—In Kánara Central division, camphor seed was obtained from Formosa by Mr. Tuggurse, Extra Asistant Conservator, in charge Ankola range, and seedlings were successfully raised. They are to be planted out in selected areas in 1917-18.

In Kánara Western division, 50 camphor plants were put out round the Gudalli forest naka and are doing very well.

Junglewood seed.—The Divisional Forest Officer, Dhárwár-Bijápur, reports that the old unproductive method of sowing seed in piths several inches deep in vogue in Bijápur forests was ordered to be abandoned and one of sowing in pits refilled with earth and dibbling seed under shelter of bushes was sustituted coupled with tending of seedlings by weeding, soil-mulching and providing artificial shade wherever necessary. This change of method is reported to be productive of good results. Sowing of nim (Melia indica) seed was also tried in small ploughed plots in the Mandihal naka compound and in a last year's coupe in the Badámi range, and from the successful results obtained the Divisional Forest Officer is of opinion that a thorough breaking up of soil is essential for raising good seedlings.

In Kánara Eastern division, measurements of teak coppice were continued with a view to finding out whether the thinnings of clumps of shoots had a beneficial effect on the growth of the remaining shoots. The Divisional Forest Officer, Mr. Edie, states that so far as the experiment has gone the indication is that early thinnings of shoots are not beneficial and that thinnings should be made when the shoots are about ten years old.

Lantana, effective method of its destruction.—In connection with the attempts made in all divisions for the destruction and removal of lantana wherever it occurred, Mr. Dodgson, Divisional Forest Officer, Kánara N. D., reports:—

"The lantana which had been burnt and uprooted in a coupe in the Haliyal range in the previous year came up very, very sparsely. The new shoots which did appear were again pulled up and teak and honni plants introduced which promise well. The experiment of burning and uprooting lantana was carried out in other areas during the year under report."

#### Sind Circle.

The following exotics were tried in the Ráhuja garden :---

(1) Acacia Farnesiana, (2) Butea frondosa, (3) Acer oblongum, (4) Bauhinia alba, (5) Cedrela toona, (6) Celtis australis, (7) Diospyros Embryopteris, (8) Terminalia belerica.

Out of these (3), (6) and (7) failed to germinate. No. 8 germinated but subsequently the seedlings died. The rest are doing well. Dendrocalamus strictus planted last year along the water channels is flourishing.

In Lárkána nim (*Melia indica*) and bamboo seedlings are doing well, but the former plant failed in Hyderabad. In Jerruck tali was transplanted into the Kháthár forests and its average height is 8½ feet at two years from seed. Plants of 1915 and 1916 were still thriving in Kháthár, Ghárko and Khánáni forests. The experiment has shown that tali needs only care in its initial raising to enable it to take its chance in suitable parts of the forests of Sind with reasonable hope of success. It has been decided not to extend the cultivation of bamboos, as without prohibitive expense in watering they are not likely to reach marketable dimensions.

In Budka forest a greenwood coupe of 1916-17, measuring about 22 acres, was exploited semi-departmentally, *i.e.*, a contractor worked for a half share in the proceeds. The material was auctioned for Rs. 6,628. The outturn of the coupe was 258 timber pieces (3,913 cubic feet) and 77,229 cubic feet of fuel. The experiment was valuable both as serving as a guide to the normal yield per acre and as demonstrating the financial advantage obtainable under departmental working as opposed to the contract system. The Karáchi contractors had offered half the net price obtained for the coupe in question at the annual sales, though it must be conceded that the price of firewood rose between August 1916 and March 1917, the dates of the respective sales. An experiment was made in order to test the wood of asri (*Tamarin* articulata) and bahan (*Populus Euphratica*) for making bobbins for cotton mills, but has been held up for the present as it is impossible to get these reinforced with metal according to the patterns furnished by the Secretary, Indigenous Industries Committee.

Tarwad seed has been obtained by the Deputy Conservator from Káthiáwár and Deccan and distributed to all Divisional Forest Officers to sow up in inland areas.

### CHAPTER V.

### ADMINISTRATION.

### Northern Circle.

The circle was in charge of Mr. W. F. D. Fisher throughout the year. Divisional charges were held as follows :---

Panch Mahals.—Till 26th July 1916, Mr. W. C. Milne; from 27th July 1916 to 30th June 1917, Mr. B. J. Patel.

Surat.—Till 28th August 1916, Mr. R. W. Inder; from 29th August 1916 to 23rd November 1916, Mr. R. K. Kanitkar; from 24th November 1916 to 30th June 1917, Mr. A. C. Hiley.

North Thana.-Throughout the year, Mr. W. E. Copleston.

West Thána.—Throughout the year, Mr. B. H. Dalal.

East Thána.—Throughout the year, Mr. P. E. Aitchison.

South Ndsik.—Till 25th July 1916, Mr. D. R. S. Bourke; from 26th July 1916 to 30th October 1916, Mr. W. F. D. Fisher (in addition); from 1st November 1916 to 30th June 1917, Mr. J. B. Brooks.

North Násik.-Throughout the year, Mr. H. A. Bhadbhade.

Working Plans.—Throughout the year, Mr. P. E. Aitchison (in addition).

All officers worked well. The changes noted were necessitated by Messrs. Bourke, Inder and Milne being taken for the Indian Army Reserve of Officers.

### Sub-divisional Officers.

Mr. L. S. Koppikar acted as Personal Assistant to the Conservator till 30th October 1916 when he assumed charge of the new independent charge of the Násik sub-division.

Mr. D. N. Damle was on leave till 18th February 1917 when he joined the Northern Circle and from the 2nd March to the 30th June he was Subdivisional Officer, North Thana.

Mr. R. K. Kanitkar was Sub-divisional Forest Officer, Surat, from 24th November 1916 till 5th March 1917 when he was transferred to East Thána.

Mr. K. E. Kotwal served as Sub-divisional Forest Officer, East Thána, till 30th March 1917 when he was transferred to Surat sub division.

Mr. V. G. Bhalerao was Sub-divisional Forest Officer, West Thána, throughout the year.

Extra Assistant Conservators on probation :---

Mr. N. C. Ramchandani was in charge of the South Godhra range (Panch Mahals division).

Mr. Y. R. Divekar was in charge of the Galkund range (Surat division).

Messrs. Koppikar, Kotwal, Bhalerao and Ramchandani are mentioned as having worked exceptionally well throughout the year.

All divisonal offices were examined during the year except Surat and South Násik.

The office establishment worked satisfactorily, but there is great need of improving the standard of ability as it would effect economy in many directions.

The protective staff (with the inevitable exceptions) also did well in trying and hard circumstances. Here again some greater liberality would be true economy.

Casualties.—There were 29 deaths or rather over  $2\frac{1}{4}$  per cent. of the total staff within the year, resignation 25 or just  $2\frac{1}{4}$  per cent. and retirements 9—total 5 per cent.

Discipline.—Dismissals 12, services dispensed with 33, degraded 9, suspended 2 and fined 181.

These figures showing a dissolution by death, discipline and discontent of 8 per cent. of the total staff within the year indicates some lack of economy and postulates inefficiency.

*Recruitment.*—Extra Assistant Conservator, Mr. Ramchandani, continued his probation and is now competent to be confirmed in the Provincial Service when vacancy occurs. Mr. Y. R. Divekar reported himself for duty from Debra Dun as an Extra Assistant Conservator on probation.

Range Officers.—Of two students selected in 1914-15, who completed their course in March last, one has resigned. Of two selected in 1915-16, one resigned while at College. Of four students selected in the year under report, one resigned after completing the preparatory tour. These resignations have necessitated nine recruits being asked for in 1917-18, but only six can be accommodated at Dehra Dun. Of twelve additional rangerships required by expanding work in the circle, only three have been sanctioned, the other ranges are being held by foresters on wholly inadequate pay. Matters are less satisfactory in the foresters' and guards' grades.

The relations of Forest with Revenue officers have been uniformly satisfactory.

### Central Circle.

Mr. L. Napier held charge of the circle throughout the year, as also did Messrs. D. A. Thomson, C. E. L. Gilbert, H. W. Starte, C. G. Dalia, V. D.'P. Ribeiro and A. F. Gonsalves of their respective divisions of Poona, Sátára with the superintendentship of Mabábleshwar in addition, North Khándesh, Kolába, Working Plans and West Khándesh. In East Khándesh alone was there any change in divisional officers, Mr. R. P. Dalley being transferred to the Indian Army Reserve, and being relieved from July 2nd, 1916, by Mr. R. V. Pethe, the sub-divisional officer, who then remained in additional charge until relieved of the sub-division by Mr. E. O. Sampson from Sátára from January 11th, 1917.

Messrs. R. A. Shirali and G. S. Dangi were the sub-divisional officers in West Khándesh and Kolába respectively throughout the year, and Mr. G. R. Patker in North Khándesh except for one month during which he was on leave. Mr. A. N. Master held the Poona sub-division for six months and was then transferred to Sátára, being relieved by Mr. B. J. Joshi who had till then been attached to the former division as instructor of the Foresters' Class and additional sub-divisional officer.

Two Ranger class students from Dehra Dun joined the circle, both with higher standard certificates, and two new students and one who had been selected in 1915-16 but whose ill-health necessitated his leaving the college, were sent up for the 1917-19 course.

Thirteen students out of 16 nominated successfully passed through the Foresters' Class held at Poona, but there is an ever increasing difficulty in obtaining from the existing subordinate protective staff men of sufficient sducational qualifications to profit by the instruction, and the nomination of outside candidates will probably become inevitable; unfortunately such candidates cannot be guaranteed immediate appointments on passing, and without such guarantee they are loath to come forward. And as few educated men are willing to take up forest guards' appointments and to learn their work in those low paid grades, future prospects are not hopeful. Recruitment is everywhere most difficult of the class of man that present-day conditions demand. Similarly, there is a great dearth of qualified candidates for the post of junior clerks in range offices, more especially in those in backward and unpopular districts like Khándesh.

All Divisional officers worked with great energy and were well supported by their Assistants; and the good services of many Range officers have been brought to the Conservator's notice for special zeal in fire protection or sylviculture or general good administration of their charges. Promotion, however, is slow and prospects poor, and opportunity for rewarding good work is unfortunately seldom possible. Office establishments are generally favourably reported upon. The Conservator's head clerk, Mr. N. H. Damle, retired after 33 years' faithful and efficient service to Government.

Casualties were 22 deaths, 21 resignations, 32 dismissals and 24 retirements. One temporary depôt officer in East Khandesh was prosecuted for defrauding Government; his case is pending.

The civil suit, referred to in last year's report, in which a contractor had instituted a suit against Government on account of cancellation of his contract, was decided in Government's favour, the contractor bearing his own costs.

The Akráni pargana in North Khándesh was administered by the Divisional Forest Officer with, as the Collector records, sympathy and discretion; extracts from Mr. Starte's report are given below:—

"The Akráni pargana which comprises 1,94,683 acres of reserved forest and about 50, 000 acres of revenue land continued to be administered by the Forest Department.

"In all Akrani revenue land comprises some 148 villages of which 118 are occupied. Sixty-seven of these are surveyed and the boundary marks were kept in repair by the various patels who received Rs. 150 in rewards for this work. There are also eight in-forest-settlements and two jahágir villages in the pargana.

"The assessment received from cultivated lands amounted to Rs. 3,586. There is a steady rise in the area brought under cultivation as shown by the assessment figures given below :---

	•		Rs.	-
<b>19</b> 12 <b>-13</b>	••••		2,507	
1913-14			2,828	·
1914-15	•••	•••	3,219	
1915-16	· ••1	•••	3,356	
1916-17	•	•••	3,586	

"The rate of assessment which is annas 4 per acre, except at Toranmal where it is annas 2, is too low in many villages, and at the request of the Collector of the district a report was submitted in 1915-16 on this question and also as to the advisability or otherwise of introducing the permanent survey settlement. The matter is in abeyance.

"The contribution to the local fund amounted to Rs. 228-7-3.

"The collection of tagái outstandings made good progress and no money was written off during the year. Rs. 6,483 capital *plus* Rs. 1,024-11-0 interest were repaid as against Rs. 8,147 and Rs. 1,134 respectively last year. During the year fresh tagái advances amounting to Rs. 1,000 were made as compared with Rs. 4,000 last year.

"The rainfall was satisfactory and general crops good. The mhowra crop was gain poor.

"On the whole the health of the people was good, but a mild outbreak of small-pox occurred in the villages of Bhusia, Mál and Bilgaon in the middle of April, and at Toranmal in the middle of June. Only one case was fatal—at Bhusia.

"Early in May foot and mouth disease (locally known as 'Kurmund') broke out among the cattle and several succumbed to the disease.

р 15—16

"Seven years ago two Government stud-bulls, one Sonkhairi and one Thilári, were brought up to Akráni. Privately owned cows were then collected together to graze with the bulls. This was not popular with the people for they do not like to let their cattle leave their homes. Accordingly, the Sonkhairi bull was temporarily handed over into the charge of the patel of Bhogwáda to graze with the cattle of his village, and the Thilári was given into the charge of the Revd. A. P. Franklin of Mundalwad. Accurate figures have not been obtained but the Mahálkari reports that in all 42 cows were covered and 13 healthy calves produced. During the year the Sonkhairi bull lost one eye in a fight but otherwise both bulls are healthy. They are probably now past their prime for breeding, and if new bulls are supplied it would be better to provide somewhat smaller bulls of the short-horned variety, as the Akráni cows are rather small. During the year Government paid Rs. 30 towards the maintenance of the two bulls.

"The Government primary school at Dhadgaon and the Mission school at Mundalwad continued to do well, but the Government school at Kamod is still not popular.

"Owing to the war, less money was spent on repairs and improvements of bridle paths, but 95 miles of bridle paths were repaired, and the cart-track from Dhadgaon to Mundalwad improved at a cost of Rs. 380-8-0. During the year a district bungalow has been completed at Dhadgaon. It should be fully furnished.

"Owing to lack of funds no new chawdis have been built although they are required at Mundalwad, Mándvi, Bhusia and Domkhedi. It is very uncomfortable for the Mahálkari and taláties to move about in the rains owing to lack of suitable accommodation. At present there is only one chawdi out of Dhadgaon, viz., at Chanseli.

"The provision of a Government dispensary at Dhadgaon for which plans and estimates have already been prepared is still urgently required. Its construction should not be delayed longer than is absolutely necessary.

"Out of the grant for improvement of village water supply a well was sunk at Telkhádi at a cost of Rs. 300, one-third of the cost being borne by Government and two-thirds by the people (Rs. 100 in cash and the equivalent of Rs. 100 in labour). Blasting was required and the upper portion has been properly lined with stone and cement.

"No cases were tried by the Divisional Forest Officer as second class Magistrate although he was instrumental in settling various complaints by arrangement between the parties. Eight cases were tried by the Mahálkari (the Range Forest Officer) in his capacity as third class Magistrate for abkári cases only. In all 11 persons were tried by him and all convicted, one being sentenced to imprisonment, and fines amounting to Rs. 160 being recovered from the rest.

"Akrani revenue lands contain many well wooded areas indistinguishable from forest proper; hence in June 1913 the more thickly populated portion was put under a simple working plan to regulate the cutting of firewood and supply of hutting material. The former is given free, and the latter on low fees. Owing to the supply being greater than the demand the demarcation of coupes is in arrears but it will be necessary to lay out new coupes next season. During the year 7,806 acres of revenue forest were burnt as compared with 99 acres last year.

"In general the year was one of steady progress accompanied by contentment of the people."

In North Khåndesh in-forest-settlements, to provide for labour for fire protection and other forest works, were maintained and extended with good results both to Government and to the settlers, and the general contentment and well-being of the latter was very marked. Under the easy terms given by the department land is in great demand, cultivation is good and careful, and little trouble experienced in recovering tagái advances. Proof of the wellbeing and contentment was afforded in one case by an application from three adjacent settlements, and which has been forwarded to the Educational authorities, to be provided with a joint primary school. In East Khándesh in the uninhabited hills the necessity for such settlements is a matter of great urgency, but so far attempts at forming them have met with little success, partly owing to the land being less suitable for cultivation, partly to the settler available not being by nature and habit of a good cultivator stamp. But all forest progress in the East Khandesh Satpudas depends on the introduction of settlers, and efforts will be continued.

# Southern Circle.

The charge of the circle was held by Mr. T. R. Bell throughout the year.

Messrs. Dodgson, Edie, Marjoribanks, Butterworth, Limaye and Koppikar continued in their charges of Kánara Northern, Kánara Eastern, Kánara Western, Kánara Central, Kánara Southern and Dhárwár-Bijápur divisions, respectively, throughout the year.

Mr. Hodgson continued in charge of the Belgaum division for the first 8½ months of the year up to 15th March 1917 when he left to undertake special military work as Timber Supply Officer in Bombay. For the remainder of the year Mr. Miller, Divisional Forest Officer, Working Plans, held charge of the division.

The Ratnágiri division continued to be in charge of the Collector, Mr. J. P. Brander, I.C.S., throughout the year.

There was no change among the Sub-divisional Officers. Mr. Bendigeri was transferred from Kánara S. D. as an additional Sub-divisional Forest Officer in the Belgaum division in May 1917 to assist in timber supplies required by the Military Department.

Kánara W. D. badly needs an energetic Sub-divisional Forest Officer; Mr. Shrigley, who was posted there by Government during the year, has not arrived.

The Sirsi range of the Kanara Central Division was divided into twothe Sirsi East and the Sirsi West ranges during the year.

The candidate, Mr. Jagan Nath Dutt, nominated by Government for the Provincial Service Course of 1917—19, satisfactorily underwent his three months' practical training in this circle and joined the Imperial Forest College, Dehra Dun, in April 1917.

The three candidates deputed for the Rangers' course of 1915—17 passed the final examination and were posted as Rangers in Belgaum, Kánara E. D. and Kánara C. D. More Rangers are wanted.

For the Ranger's course of 1916-18 three candidates were nominated and sent up to Dehra Dun during the year.

The Belgaum Forestry Class was as usual conducted by Mr. Hattiangadi, Sub-divisional Forest Officer, Belgaum, in addition to his own duties. Of the nine students sent up from the different divisions, eight passed and one failed at the final examination.

• The Conservator visited all the divisions of the circle except Ratnágiri and all the divisional offices were inspected. Range offices situated at the head-quarters of each division were also examined with a view to see whether the several instructions and standing orders issued at the detailed inspection last year have all been properly followed. No serious irregularities were noticed.

### Land Revenue Administration.

Kanara N. D.—The three forest mahals, viz., Dandeli, Virnoli and Kulgi comprising 23, 12 and 11 villages, respectively, in the Haliyal taluka of the Kanara district were started from the 1st August 1916, the respective Rangers being ex-officio Mahalkaris and the Divisional Forest Officer, ex-officio Assistant Collector. The Divisional Forest Officer states that one village which had been depopulated for many years was partially occupied and that every endeavour is being made to induce people to settle in these forest tracts.

Kánara E. D.— The two mahals, viz., Bilki and Kirwatti, the latter newly started during the year from 1st August 1916, were successfully administered by the respective Range Officers under the supervision of the Divisional Forest Officer, the *ex*-officio Assistant Collector.

The Devikop mahál of four villages in the Kalghátgi taluka of the Dhárwár district, administered by the Divisional Forest Officer, Dhárwár, from 1st August 1913, was split into two, *viz.*, Devikop and Kargod, comprising three and one villages, respectively, for administration by the Divisional Forest Officers, Kánara N. and E. divisions, from 1st May 1917.

Kanara W. D.—The revenue charge of the Supa mahal consisting of 120 villages was handed over to the Divisional Forest Officer, Western division, from 1st August 1916. He states :—" It is somewhat too early to judge of the effects of this change from the point of view of general administration ; when the Divisional Forest Officer can find time for only a limited amount of ordinary village inspection—a fact which postulates the retaining of a good and trustworthy Mahalkari in the Petha—it is already clear that holding the revenue charge simplifies forest work in certain directions. What the people do in their fields matters very much to forest protection and in particular to the annual fire record ; and it is of the first importance that the giving out of waste lands on easy terms should be supervised by one directly interested in maintaining a population for forest works. It would be difficult to speak too highly of the help given by the Mahalkari, Mr. M. S. Hegde, in trying to induce the people to greater care in the use of fire, more economy in the use of tree growth and more diligence in undertaking forest labour in the off-seasons."

No new kumri assignments were given during the year.

Belgaum division.—The Belgaum range mahál and the Khánápur West range mahál were successfully administered. It is reported that, though the kumri villagers avoided forest works, efforts made to induce them to patronise such works were successful, particularly in the latter mahál.

The policy of giving out forest land suitable for cultivation was continued.

Betta assignments.—The Divisional Forest Officer, Kánara S. D., states that all the work in connection with the betta assignments in the Sirsi and Siddápur talukas has been finished.

Hunting and shooting.—

· · ·	1916-17.	1915-16.
Game licenses issued	No. 43	No. 48
Breaches of game rules brought to light.	" 2	,, 4
Fines recovered for breach of rules	Rs. 100	Rs. 155
Rewards paid for reporting illicit shikar.	" 30	,, 50

Casualties and punishments.—The health of the subordinate forest staff was satisfactory everywhere except in Gund and other malarial parts of Kánara W. D. A liberal supply of quinine treatments was made to all the establishment as usual. The casualties were:—

Seventeen men-1 forester, 12 guards, 2 clerks and 2 peons-died as against 16 in 1915-16.

Twenty-three men-1 ranger, 6 foresters, 13 guards and 3 head clerksretired as against 22 last year.

Thirty-nine men-37 guards and 2 peons-resigned as against 38 in the previous year.

Year.		Fined.	Degraded.	Suspended.	Superseded.	Dismissed.	Prosecuted.	Total.
1916-17		<b>4</b> 56	13	10	22 .	6	3	510
1915-16		396	· 31	29	46		. 9	511

Punishments-

•

Criminal offences.—T he particulars of the three prosecutions instituted during the year are :—

Division.	Subordinate prosecuted.	Charge,	Result of prosecution.
Kánara W. D	1 Forester	Theft of Government money. Rs. 99-14-7.	1. month's imprisonment and Rs. 100 fine.
Kánara W. D. 🛛	1 Guard	Absconded with Gov- ernment money. Rs. 8-11-0.	the offender not being traced; lost money is being recovered from the arrear pay due to
Kánara S. D	1 Guard	Misconduct	him. Under trial.

The appeal of the forester and two guards of Kanara E. D. in the tortur e case, mentioned in the last report, was rejected by the High Court.

The relations between the Revenue and the Forest officials as usual have been satisfactory.

Services.—The Divisional Officers have all worked well, but have had little rest owing to extra duties imposed upon them for timber supply for military purposes in Kánara W. D., N. D. and Belgaum. The Sub-divisional Officers have also done well. In the Ranger grades the Conservator would like to mention Messrs. Mudchatkar, Hasabnis, Nerlekar and Rego in Kánara and Mr. Rege in Belgaum for hard work and attention to duty. The Conservator's Personal Assistant, Mr. Chandavarkar, has been as indefatigable as ever and Mr. Bellare, the Conservator's Head Clerk, again deserves mention. Also Mr. Nagarkatti and the Conservator's camp clerk, Mr. Mavinkurve, have worked very hard. Taken as a whole the office members have acquitted themselves creditably.

The Divisional Forest Officers report that the work of guards and most of the foresters is far from satisfactory and that it is most difficult to obtain . good recruits, the hard, strenuous, lonely life on low pay not being attractive to able-bodied men, who can earn better wages in other departments of the public service or in private firms, factories, mills, railway works, etc. It often occurs that the uneducated, irresponsible cooly, who is supervised by the guard, receives higher wages than the guard, who is generally literate and has a fair amount of responsibility attached to his post. This is not as it ought to be. If guard's minimum pay be fixed at Rs. 10 per month and his service made superior as in the Police Department, it might attract men of the right stamp, render recruitment less difficult and improve the tone of the establishment considerably. On a full discussion of the subject in the Forest Conference of 1913, certain proposals were submitted to Government, who have in their Resolution No. 2683 of 5th March 1915, Revenue Department, postponed the issue of final orders in the matter. In view of the fact that the pay and prospects of the policemen have been further improved recently, an early consideration of the case of forest subordinates would improve matters.

Preliminary proposals for increasing the staff of Rangers were submitted to Government at the close of the year; orders thereon are awaited.

### Sind Circle.

The Sind circle was in charge of Mr. G. R. Duxbury throughout the year.

Mr. V. R. Mirchandani held charge of the Sukkur division during the absence of Mr. A. C. Robinson on three months' privilege leave, in addition to his own duties as Sub-divisional Forest Officer. Proposals sent up during the year regarding the partition of the Sukkur and Lárkána divisions into three charges with Mr. Mirchandani as the new Divisional Forest Officer,

d 15—17

-Shikarpur, have been recently sanctioned by Government. The new arrangement will enable each officer to thoroughly inspect his charge, especially the erosion fellings and kachas; this was formerly a physical impossibility for the Divisional Forest Officer, Sukkur, who has not been provided with a steam launch.

Under the sanction of Government the officers in charge of the Lárkána and Hyderabad divisions changed stations. The Jerruck division remained throughout the year ably administered by Mr. Newman who completed his sixth consecutive year of charge during the year under report.

• In accordance with Government orders proposals asking for extra Rangers required for the Sind circle were forwarded. The Sind forest staff were less favourably treated than those of any other circle in the Bombay Presidency at the last reorganization and only 55 per cent. of the ranges received Rangers. These proposals were returned for incorporation into a consolidated scheme for all forest subordinates in the Bombay Presidency and fresh proposals dealing with the need for more foresters and the increasing of the pay of the Sind forest guards were forwarded before the close of the year.

It was found necessary for a time owing to the paucity of suitable officers, to work the Rohri and Rádhan ranges as sub-ranges under the Sadhuja and Lárkána ranges respectively. The position was again restored after the close of the year under report.

The four surveyors in the Working Plans office formerly on the temporary establishment were made permanent from the 1st April 1917 under Government Resolution No. 3452 dated 28th November 1916. These men are now on graded pay instead of receiving biennial increments, and will be attached to divisional offices in the places of the present temporary men when working plans have been completely revised.

On the whole, the standard of work improved throughout the circle. Among the Rangers Mr. Rodrigues now in Hyderabad division, Messrs. Nenumal and Mewaram in Jerruck division and Messrs. Kotumal and Dalpatrai in the Lárkána division deserve special mention. The first-named is easily the best Ranger in Sind.

The office establishment worked well. Unfortunately the moral stability of many of the members of this, as well as of the protective establishment, is hot equal to their industry. There is moreover still a good deal of careless work. The Deputy Conservator can recommend the Head Clerk of the circle office, Mr. Imdadali Mahomed Ashraf Kazi, for his integrity and devotion to duty.

Efforts to recruit candidates from youths who have passed the School Final Examination have been fairly successful during the year.

Forest students, Dehra Dun.—Mr. Gianchand Madhok, Ranger, reported for duty early in April, and was posted under Mr. Rodrigues but owing to the paucity of officers had very shortly to take up an independent charge in the Sukkur district.

The reports on the two candidates of 1916—18 class, on the whole, are not encouraging. Mr. Deputy Lal Kishori Lal Sharma, probationary student for the year 1917—19, received practical training under the Deputy Conservator, and the Divisional Forest Officer, Jerruck, and left for Debra Dun in March 1917. This student who is a son of a native officer of the 10th Lancers now serving in Mesopotamia has started well.

All the divisional forest offices and that of the Working Plans Assistant, were inspected by the Deputy Conservator during the year, who also personally inspected 11 range offices in the circle. The rules laid down by the Forest Conference of 1916 have been adopted and many new registers opened in consequence.

All Divisional Forest Officers with one exception worked well throughout. the year as did the Sub-divisional Forest Officer, Sukkur. Good progress has been made in the classification of records in all offices, arrears are chiefly in the Direction office, where it was found possible this year to carry out 20 years' classification of records during the touring season. Conservator's circulars for the past 40 years were personally classified and indexed by the Deputy Conservator, and indices distributed to all Divisional Officers, who were ordered to withdraw obsolete circulars from their files and classify those left in accordance with instructions.

The following casualties occurred during the year. These are arranged under the head of superior service Rs. 12 and over, and inferior service upto Rs. 10, as requested by the Commissioner in Sind in his review of 14th October 1916 :--

		I.	. •	·.		Casualties	9.			Disci	pline.	
Div	Division. Deaths	Deaths.	Retire- ments.	Resigna- tions.	Dismis- sals.	Services dispensed with.	Percent- age.	Degrada. tions.	Fines.	Superses- sions.	Percent. age.	
Su	kkur.		Ŧ					· ·				<u>.</u>
Inferior	•••	•••		•••	2	. 3	16	1	6 )	65		<u>}</u>
Superior	·	•		3	•	1	1	}15.11	{ 7	19	•••	66 98
Lår	kana.				· ·							ľ
Inferior	••••	•••		•••	8		2	h	( 4	12		<b>`</b>
Superior		•••	3	1	• • • •	•••		} 9·4	{ \			25.0
Hyde	erabad.			•	1							
Inferior	•••	•••		•••		1		}	(2)	. 1		1
Superior	•••	•••	1			•••	· ···	} 2.8	{	•••		} 4.1
Jer	ruck.										° •	
Inferior	•••		1	•••	23	2		)	<b>(</b>	7		1
Superior	•••				•••			27.2	1	8		<b>}10</b> .9
Workin	ig Plan	s. ·		•						i		
Inferior	•••					••••					·y•	•••
Superior	, <b></b>			··· ,					[			•
To	tal.	-					<u>`i</u> ,					<u>`</u> `
nferior	•••		1		28	6	18	)	( . 12	85		)
Superior	•••		4	4		1	ī	} <sup>13·3</sup> ,	{ 7	22		24.02

As usual the heaviest punishments were inflicted in the Sukkur division where the old staff was thoroughly demoralised some years ago. The fines and degradations inflicted on officers of the superior service refer to Sub-rangers on Rs. 12, who are almost entirely illiterate, and are merely promoted beat guards. The large number of resignations shown in Jerruck refers chiefly to the men in the ranges where the forests are flooded by the inundation. These men were drafted on to the inland forests of Katiar where artificial regeneration is in progress, and showed their discontent by resigning. The proximity of Karáchi where ordinary coolies receive as much as 12 annas per diem also very much affects the recruitment of Jerruck, causing the beat guards to refuse to serve on Rs. 9 and Rs. 10 per month.

Relations between the Revenue and Forest Departments continued to be cordial during the year.

A theft of Rs. 373-5-11 occurred in the Sadhuja range forest office when in the charge of the Range Forest Officer, Ghotki, in adition to his own duties. After a careful enquiry by the Divisional Forest Officer, Sukkur, and personal inspection of the premises by the Deputy Conservator, Sind Circle, a report was made to the Commissioner pointing out that both Ranger and clerk were guilty of carelessness, and the money was ordered to be made good from these officers by 12 monthly instalments from their pay.

### CHAPTER VI.

### GENERAL.

### •Northern Circle.

The most notable event of the year was the visit of the Inspector-General of Forests with the object of discussing, in the forests, the revision of all the existing working plans of the Thana divisions—this revision to be under one plan which was then being drafted. It is satisfactory to see from paragraphs 10 and 11 of Mr. Hart's Inspection Note, dated 16th April 1917, which is on record, that the treatment proposed met with his approval.

Not less valuable is the Inspector-General's reference to the gurcharans of the Thana district. A revised working plan on the lines suggested by him in paragraph 15 of his Inspection Note had been drawn up in the previous season (1915-16) for the Central Thána division by the orders of the Conservator, but reference to Government in the matter was postponed for several reasons which were mainly, (i) that it was advisable to first complete the revision of the forest plans then in hand, (ii) that Government should have an opportunity of considering the representations of the Collector regarding the management of the gurcharans, (iii) that the Inspector-General might record his opinion during his forthcoming visit, (iv) that proposals for the much needed reorganization of the protective staff then being prepared might be considered by Government and (v) that officers migh acquire a knowledge of their new charges under the Thána divisions reorganization scheme. These matters having now sufficiently matured, the permission of Government to the complete preparation of the proposed revision is being asked. The importance of this matter lies in the fact that the gurcharans in question are equal in area to, and of greater commercial value than, a Thána forest division. If the proposals to be made are sanctioned, the revenue from gurcharans should rise from two to seven lakhs of rupees and benefit every inhabitant of the country-side.

During the year the Committee appointed to consider the development of indigenous industries commenced its enquiries. A written statement on the subject, asked for by them, was duly submitted and from time to time during the year the specific requirements of many individual industries, e. g., bamboos for pulp, timber for matches, picture-frames, bobbins; firewood for glass making; gum for resin, etc.; grass for oil; barks, etc., for tan; and others, have come up for consideration, all pointing to the conclusion that the industrial welfare of the country is directly dependent, like forest revenue, on the development of forest management along the most scientific lines.

It is impossible to refrain from mentioning here the ceaseless and increasing difficulty which has been experienced throughout the year in endeavouring to carry out urgent works and even in arranging for routine duties owing to (i) the shortage and inefficiency of the present protective staff and (ii) the lack of the ordinary amenities of life of that staff in the more unhealthy and out-of-the-way localities in this circle. Reorganization proposals have been submitted. The money required to give effect to those proposals is but a fraction of the immediate additional revenue anticipated by proposed improvements in working. It is, therefore, earnestly hoped that the much-needed relief will be accorded.

### Central Circle.

Rainfall was good throughout the circle and the year was a prosperous one for trade and forest revenues. And that the prosperity will continue, looking to the increasing world demand for forest material and the scope that exists for development of industries now untouched, is a matter beyond question of doubt.

From the nature of its forests, the circle could make few direct contributions to war requirements, for the Deccan divisions are not even self-supporting in forest material but depend largely on imports from elsewhere. But war demands for small timber, fuel and grass had a marked effect in Khandesh, as was evidenced not only by the demand for coupe material but by the fact that

- . -

accumulated stocks in contractors' hands were completely cleared off by the end of the season, a happy state of affairs to which the timely, though unexpected provision, of wagons by the railways largely contributed. A demand for grass was indeed made by the Military authorities in January, and was met by the department putting all its resources at the disposal of Mr. Bhiladwalla, its famine fodder contractor in West Khandesh, and enabling him to meet and fulfil a contract that he had entered into with the Military department.

For the current year revenue prospects are even more favourable than in the one under report.

### Southern Circle.

The importance of forest resources of the Southern Circle was duly recognized by Government during the year, and some preliminary measures for the development of forests were undertaken. The urgent necessity for good roads to open up valuable areas was realized and one of the most import-ant and difficult roads—the Kadra-Gund Road—in Kanara W. D., undertaken, is nearing completion. A special Engineer was deputed for the improvement of the most useful waterway for floating timber in Kánara W. D.

Mr. Haines, Executive Engineer, Dhárwár district, deputed to the Forest Department last year on the work of improving transport facilities, after making a preliminary examination of the bed of the Kalinadi river, reverted to his appointment in Dhárwár and in accordance with the recommendation of the special conference of the Commissioner, S. D., the Conservator of Forests, S. C., and the two Secretaries to Government, Public Works Department, Mr. Pipe, Executive Engineer, Ahmednagar district, was deputed to proceed with the work for seven months from 15th November 1916 to 15th June 1917. During this period he surveyed the whole of the Kalinadi from below Jogáli slide to the tidal limit above Kádra, with a view to preparing a project for improving the floating channel. He also prepared a rough survey of the Káneri river from a point called "Durga Seri" to its junction with the Kálinadi. About half the blasting work preliminary to the possible evolution of a floating channel for logs along this most difficult nala was carried out by him and two trial dams of wood and masonry were constructed to head up the water in one main channel. It is to be seen how they will have stood the year's floods. Mr. Pipe's work was carried out with energy and determination under the most adverse circumstances as regards labour and supplies. His final report on the double project is awaited.

Government having sanctioned the survey of the line (16 miles) for the light forest railway from Dandeli to the Alnavar Station of the M. and S. M. Railway, the survey was made by an officer of the Railway company. Details regarding construction and management are under consideration. This forest railway is calculated to help the exploitation in Kanara N. D. to a considerable extent.

In addition to the two steam saw-mills working in Kánara N.D. three new steam saw-mills were procured for the other three important divisions of Kánara, which are being erected and will commence work in this fair season.

Fire protection and sylvicultural operations were conducted on an extensive scale, special parties being appointed for the purpose. The only retrograde step of the year was the curtailment of expenditure on buildings and wells so as to utilize the money on operations of a more urgent and remunerative character. Data for the preparation of a working plan for the Bijápur forests was collected and that for the forests of Kánara S. D. is to be collected shortly; endeavours are being made to bring the whole area of the circle under regular working plans as soon as possible and to revise such of them as have become due for revision. Large areas of pasture forests in the Dhárwár and Bijápur districts in charge of the Revenue Department having been neglected, proposals were made for their re-transfer to the management of the Forest Department and these have recently been submitted to Government. It is hoped that these areas will soon return to this department to the mutual advantage of the ryot and the State. The

h

р 15—18

Ratnágiri forests unfortunately are worked at a net annual loss of about Rs. 3,000. The forests are small, scattered scrub jungle and produce no valuable material; the Collecter in charge states that a reorganization of the forests and establishment is necessary and that proposals for the same have been submitted by him to the Commissioner, S. D.

The financial results of the year, bringing in nearly a quarter of a crore of revenue, are most encouraging; with more intensive management combined with good roads and other facilities for the systematic exploitation of the produce, it would not be too much to hope for a sustained annual revenue of half a crore and over in the next quinquennium.

The Inspector-General of Forests visited the circle and made a detailed tour for about a month in February 1917 through the important forests of Kánara N., E., C. and W. divisions and Belgaum with a view to advise on working plans.

The Tanning Expert to the Government of India visited Belgaum and neighbouring towns to make a survey of tanning products of the country and of local private tanneries.

The Forest Economist paid a visit to Kánara W. D. and N. D. in connection with the experiments of seasoning different kinds of timber under different methods.

The Timber Supply Officer of the Military Department, Bombay, visited Ankola in Kánara C. D. about the timber supplies required for war purposes. Arrangements have been made for the regular despatch of timber and bamboos in large quantities from Kánara N., E., C. and W. divisions and Belgaum.

Labour supply was again deficient in the Khánápur ranges (Belgaum) as also in the Gund range of Kánara W. D. and, generally, in Kánara N. D. Notwithstanding the exertions of the revenue authorities in securing labour and carts in Khánápur the annual delivery of fuel to the Railway Company fell short by 8 lakhs of cubic feet. In Kánara W. D., the labour supply was sufficient for all work on the coast, even the extra contracts for supply of war material being carried out without any difficulty. It is only above ghats in Gund and in Kánara N. D. that scarcity of labour is severely felt. In these parts, the villages are practically uninhabited and labour has to be imported from the coast. As people on the coast find work near their homes, they naturally often refuse to go above ghats. The only solution of the difficulty appears to be to get the deserted villages inhabited again by giving out suitable cultivable land on easy terms. Messrs. Dodgson and Marjoribanks, who are *ex*-officio Assistant Collectors for forest maháls in Kánara N. and W. divisions, are taking a keen interest in their land revenue administration and try to improve matters.

The Berad (Criminal Tribes) Settlement, established by Government at Shiroli in the Khánápur taluka of the Belgaum district for the supply of forest labour, was started in March 1917 and the number of Berads gradually rose to about 100 including some Lamanis from the Bijápur district. Their services were utilized for various forest operations.

During the working season plague and cholera were prevalent in Kánara N. D. with the result that the work of carting contractors was much hindered.

At the Tavargatti depôt and Alnávar station in Kánara N. D. great difficulty was experienced by contractors and purchasers in removing their material owing to the shortage of wagons on the railway, caused by war requirements. The Divisional Forest Officer apprehends that this may affect prices adversely in the coming sales if this state of things continues.

The new timber depôt, established on the coast at Tádri in Kánara C. D. last year, was removed to a more satisfactory site further up the river at Divgi.

The enumeration of sandalwood trees in malki lands of the Dhárwár district, undertaken in 1913-14, was continued during the year, and the Forester, specially put on the work, counted 32,060 trees in 42 villages of the Dhárwár taluka. According to the figures furnished by the Mamlátdárs the total number of sandalwood trees standing in malki lands of the Bijápur district, excluding the Badami taluka, for which figures have not been received, are 3,043 in 188 villages. Steps are being taken to have a correct enumeration of the trees made in both the districts as soon as possible.

The Collectors of different districts make the following remarks in forwarding the several reports :---

Kánara(By Mr. J. H. E. Tupper) :--

Kánara N. D.—" Fifty per cent. of the total area is closed to grazing and it is observed that the number of impoundings shows a marked increase.

"Mr. Dodgson administered three small forest mahals as ex-officio Assistant Collector in addition to his work as Divisional Forest Officer. He has been very successful in his dual capacity. He is the only Divisional Forest Officer who reports a serious attempt at repopulation of the deserted villages. One village has partially been reoccupied. It is interesting to note that Mr. Dodgson has been convinced by the acuteness of the labour question that the only solution is to get the depopulated villages inhabited again. We are now trying to work out a scheme of in-forest cultivation which will effect this purpose."

Kánara E. D.—" Mr. Edie administers two small forest maháls as ex-officio Assistant Collector in addition to his work as Divisional Forest Officer. His administration in both capacities has been most successful."

Kánara S. D.—" The large increase of fires in the Siddápur range in a year in which fires generally have greatly decreased is said to be partly apparent only and partly due to scarcity of fuel, driving people to the manufacture of dead-wood by firing the forests. It is hoped that the establishment of the fuel depôt at Siddápur will eliminate the second cause."

Kanara W. D.—" Mr. Marjoribanks administers a very large area, larger than the biggest taluka of the district, as *ex*-officio Assistant Collector. His administration, both as Divisional Forest Officer and as Assistant Collector, is worthy of the highest praise, and a most promising start has been made in the experiment of forest maháls.

"It is a matter of extreme difficulty to get the subordinate magistracy to realize their duties in dealing with small forest cases. The District Magistrate has issued clear orders on the subject for their guidance and hopes for improvement. These cases are carefully watched.

"Undersigned has inspected a fair amount of kumri in company with the Divisional Forest Officer and investigated the economic condition of some of the kumri villages personally. In view of the knowledge thus acquired the Collector entirely agrees with the views expressed by the Divisional Forest Officer.

"Arrangements have been made for the final disposal of cases in which bettas have not been accepted in order that the gardeners may have no legitimate cause of complaint and no pretext for protracting proceedings.

The greatest obstacle to the development of all forest operations is the scarcity of labour, and every possible means must be availed of to increase the supply to meet the inevitably and rapidly increasing demand. The best means of increasing the local supply is in-forest cultivation to which Mr. Marjoribanks alludes in his paragraph 102. A scheme is under consideration to attract agricultural labour, which can be utilized for forest purposes, by the offer of land on exceptionally favourable terms. As Mr. Marjoribanks observes labour has a natural tendency to gravitate below ghats, and below ghats the Revenue Department can do but little to attract additional population by giving out land on favourable terms because the entire area of assessed waste land available for expansion of cultivation below ghats is limited to about 10,000 acres, much of which is not very attractive quality."

Belgaum (By Mr. E. L. Sale) :---

"The early construction of the road from Gunji to Shiroli is most advisable. The cost of construction would very soon be recouped by the larger supplies of wood that would result from the provision of a proper cart-road. The experience gained over the Kanbárgi-Muchandi road shows how the absence of cart-roads deters contractors from bidding freely for coupes. "The system of allowing reduced rates of grazing to all who have assisted in putting out fires is a good system but as worked it presents possibilities to the forest officer who draws up the statement showing those present who helped to extinguish any particular fire. It is suggested that the village patel should also sign such statements.

"The area of forest in the Murgod mahál north of the Kaladgi road which had been relinquished by the Forest Department was again handed back to that Department for management during the year. Government have also now sanctioned the return of all the forest lands remaining in this mahál and Parasgad taluka to the Forest Department.

"Mr. Hodgson's time was much taken up in the past year in providing wood for military requirements. He consequently was not able to devote much time to the revenue work of the forest mahals. Little progress was made in the giving out of suitable cultivable land in kumri villages in exchange for the temporary kumri rights.

"Mr. Hodgson has done excellent work during his tenure of the office of Divisional Forest Officer, Belgaum, in the development of communication roads to the forests and has shown the greatest enthusiasm in all branches of his work. It is to be hoped that the progress in improving the existing roads in the forest villages of Khánápur will continue and that new roads will be provided where the exploitation of the forests is hindered by the lack of proper communications."

Dhárwár and Bijápur-Remarks of the Collector of Dhárwár (Mr. E. G. Turner):-

"The report appears satisfactory though it is impossible to compare the financial results for this district owing to this being the first completed year since the changes in the Dhárwár forest division were made. The undersigned can endorse Mr. Koppikar's remarks as to the need for placing many of the pasture lands under the Forest authorities' control, and an agreement with Mr. Koppikar as to which lands should be so transferred has at last been settled and the final recommendation will shortly be made. Mr. Koppikar is very keen on a straight demarcation line so as to make conservancy easier and give less grounds to villagers for trespassing. From the several proposals put forward by him it does not appear that great importance was attached to this theory at the time of the forest settlement. However what progress can be made in this direction by exchange of lands is being considered."

Remarks of the Collector of Bijápur (Mr. V. K. Namjoshi) :--

"It is satisfactory that the forest revenue of the district rose to Rs. 41,750 during the year from Rs. 33,726 during the preceding year, the revenue from minor produce alone being Rs. 31,060. The advantage of having a forest in their neighbourhood must have been specially brought home to the many people whose houses were destroyed by the floods of November last and who got free grants of timber from the forest for rebuilding them.

"It is satisfactory to note the decline in the number of forest fires during the year; but this was due of course to the special seasonal conditions of the year.

"The total number of impoundings in Badámi and Bágalkot were 3,275, sheep and goats being the principal offenders. Out of the total number of 1,10,069 animals admitted to grazing in forests during the year, the number of sheep and goats was only 1,117. This seems to indicate that facilities for grazing in the case of these animals require improvement. As this matter is the subject of a separate correspondence, it is unnecessary to say more about it here.

"It was unfortunate that a large number of seedlings grown with some trouble should have died from neglect on the part of the subordinate staff. A large number of houses is being built and factories are multiplying. The demand for timber and fuel is on the increase. The development of treegrowth to meet this increasing demand is absolutely necessary. "The Acting Collector endorses Mr. Turner's remarks about straight demarcation. The various proposals submitted by Mr. Koppikar in this respect were judicious and his treatment of the ryot has been sympathetic."

#### Sind Circle.

When referring to a question asked by Government as to whether rails from light railways now laid down in France and Mesopotamia and likely to be available after the war would be wanted for the exploitation of forest produce in the Sind Circle, it was pointed out that what are needed so badly by the Sind Forest Department are tugs and barges to hire to contractors who have no boats of their own for the water carriage of their forest produce. At present country boats are very expensive to hire, and the boatmen most unreliable. This gives a great advantage to the bigger contractors who possess boats, and tends to keep contracts in the hands of a few, which is bad both for the State and the public. This want of facility of transport is one of the chief reasons why there are so few contractors in the Hyderabad and Jerruck divisions.

Another urgent need is a steamer for the Sind Forest Circle Officer. It is imperative that a large percentage of erosion fellings and kachas must be inspected, a fact brought home only too clearly this year by the bad administration found in the Hyderabad division, where the rules regarding erosion fellings have not been stringently observed. As the forests of Sind lie on the river bank and are about four miles broad, inspection by steamer, as in the early days of the administration when under Sir William Schlich, Divisional Forest Officers held free passes to travel on the steamers of the Indus River Flotilla Company, is a common sense procedure.

Reference must be made to high prices prevailing for wood all over the province. The principal cause was of course the large export of fuel to Mesopotamia from Lower Sind and to Quetta and the neighbourhood from Upper Sind. In Karáchi the situation was further aggravated by the combination of the three principal contractors (who at present practically control the market) owing to one firm being unable to put six lakhs maunds of dry fuel on the market at one time. The shortage of waggons on the railway, resulting in none being available for the local fuel supply, and the disinclination of the aforesaid contractors to put any of their dry stocks wholesale on the market when a few waggons were available owing to the appearance of a well-to-do new comer in the fuel market, led to a great depletion of dry stocks in Karáchi itself, and a general inflation of prices.

Personal appeal to the loyalty of contractors, and refusal to accept tenders from combinations combined with the putting of all available deadwood on the market, has brought down the price of the military contract from  $15\frac{1}{2}$  annas to 9 annas per 100 lbs. and the local supply from Rs. 1-4-0 to 14 annas per maund and will, it is hoped, decrease the latter much more appreciably in the near future. In the meantime it is necessary to encourage the smaller contractor in every possible way as indicated above.

The position in Upper Sind must be ameliorated by the acquisition of more forest land which is in great deficit due to a mistaken policy in the past, and the Commissioner has been addressed on the subject during the year under report.

It was held by the Judicial Commissioner of Sind in a case during the previous year that rule 4 of the old Sind rules under section 41, Indian Forest Act, was illegal. This necessitated new rules being drawn up, and these were prepared, submitted to and sanctioned by Government and introduced during the year under report.

Felling rules were standardized and introduced into the agreements as is done in the Presidency proper. Leaving these to the discretion of the Divisional Forest Officers had proved most disastrous in the Hyderabad division.

At the request of the Timber Supply Officer, Bombay, statistics as to the timber available in the markets of Sind were obtained and forwarded early in 1917.

р 15—19

Arrangements were made to give instruction in arboriculture to subordinates of the Public Works Department, District Local Boards and Municipalities at Ráhuja in Sukkur and in Hyderabad. At Ráhuja all these candidates passed, while at Miáni the six candidates who sat for the final examination were successful, one of the students being absent through illness. The Commissioner has sanctioned one class being held for the province to be opened yearly at Hyderabad. The Forest Department was represented by a stall at the Arts and Crafts Exhibition opened by the Commissioner in Hyderabad in November 1916, where amongst other exhibits specimens of bobbins turned from the wood of bahan (*Populus euphratica*) were shown.

Chil and deodar logs and sleepers and logs of tali (*Dalbergia sisoo*) were as usual imported into Sukkur, Rohri and Shikárpur from the various parts of the Punjáb, and large quantities of timber and fuel to the large towns of Upper Sind from the territories of His Highness the Mir of Khairpur.

There were no civil suits during the year.

Mr. Rieu in forwarding the Hyderabad report remarks: "It is satisfactory to note that in the Unerpur range of the Karáchi district there was only one case of accidental fire in which the area damaged was insignificant."

In paragraph 101 of the Jerruck report the Divisional Forest Officer, Jerruck, writes: "The price of fuel remains at a very high level in Karáchi at the close of the year owing mainly to the greed of certain leading contractors, though ostensibly to shortage of railway transport and requirements of army in Mesopotamia."

The Collector of Karáchi in forwarding the Jerruck report comments as follows: "The Collector notices with satisfaction the result of the year's good inundation and rainfall reflected in the reduction of forest offences and cattle impoundings, and the success attained by the departmental measures in keeping the forests safe from fires.

The Collector does not accept as accurate the statement made in paragraph 101 of the report as to the principal cause of the high price of fuel in Karáchi. The price would never have risen as it did but for what are there represented as the merely ostensible reasons for the rise. The latter were therefore the main and direct causes. The dealers, as it subsequently turned out, had somewhat overestimated the extent of the shortage in the supply, not having anticipated that the restriction on the use of railway wagons for private consignments would be relaxed. As soon as this was realized, prices eased off somewhat, and the present rates probably fairly represent the existing relation between supply and demand."

The Deputy Commissioner, Upper Sind Frontier, in forwarding the Sukkur report remarks as follows: "Only one pending case belongs to this district.

There were only two forest cases before the courts, and in neither was there any complaint about the attendance of the subordinate officers of the department. There does not appear to be anything else in the report that invites comment. The creation of the new division should be an advantage to both the Forest and Revenue Departments."

REMARKS OF THE COMMISSIONER, NORTHERN DIVISION, ON THE FOREST ADMINISTRATION REPORT OF THE NORTHERN CIRCLE FOR THE YEAR 1916-17.

#### No. F.O.R.-47.

REVENUE. DEPARTMENT. Camp, Poona, 18th October 1917.

Submitted to Government.

2. The Commissioner has no special comment to make on the report.

H. SMITH,

For Commissioner, N. D.

# REMARKS OF THE COMMISSIONER, CENTRAL DIVISION, ON THE • FOREST ADMINISTRATION REPORTS OF THE NORTHERN AND CENTRAL CIRCLES FOR THE YEAR 1916-17 SO FAR AS THE AREAS IN THE CENTRAL DIVISION ARE CONCERNED.

#### No. A.—1436 of 1917.

#### Poona, 27th October 1917.

The following review of the administration reports of the Northern and Central forest circles for the year 1916-17, as far as the areas in the Central Division are concerned, is submitted to Government in the Revenue Department.

2. The forest ranges in the Násik district were rearranged in order to secure more efficient administration, the Igatpuri range being transferred to the Thána division and the remaining ranges in the Násik district being formed into new three sub-divisions. There was a net decrease of 36 square miles, 192 acres in the forest area in the Central Circle, mainly as a result of the disforestment of certain pasture areas which are now to be given out for cultivation in the Poona and Ahmednagar districts.

3. The length of new boundary demarcated during the year was only 97 miles—68 miles in the Akola range, 26 miles in West Khándesh and 3 miles in the Dindori and Peint ranges. The remaining work—124 miles in the Rájur range (Ahmednagar) and 63 miles in South Násik division is expected to be finished shortly.

4. Preparation of new working plans and revision of existing ones were delayed owing to certain suggestions of the Inspector-General of Forests, who specially visited the Sátpuda forests and the teak and babul forests in Poona: the Inspector-General's recommendations are receiving the careful attention of the officers concerned.

5. Road works in North Khåndesh—Hisala-Bhoiti road and Wasurdi-Kodil road—were pushed on; and proposals regarding the fresh alignment of the Akráni road which were discussed by the forest officers have already been submitted to Government.

The Commissioner sympathizes with Mr. Napier's remarks as to the need for inspection bungalows in North Khåndesh where tents are uncomfortably warm in the hot weather.

6. As regards the proposed Dhadgaon dispensary, when the distribution of dispensary grants for the current year was discussed in a recent conference of the Divisional Commissioners and the Surgeon-General the Commissioner did not press for this dispensary because :--

- (1) No Sub-Assistant Surgeon is available.
- (2) If one were sent he would always try to get away. He would have nothing to do and would himself get ill.
- (3) The natives do not want a dispensary and would not use one, and Government servants could only be given quinine and cough mixture, and they can have that without a dispensary.

For these reasons the Commissioner does not think that the Dhadgaon claim is very strong. Indeed it appears doubtful if it would ever be advisable to have a dispensary at this place—at all events there are other places where dispensaries are more wanted and would be much more useful.

7. The accompanying statement shows the nature and number of the forest offences committed. Their number rose from 6,998 to 7,274, of which 229 were taken into Court, 6,174 were compounded and warnings were given, and 871 remaiued undetected. The largest increase in any single district was 248 in the Poona division, and the Commissioner ascribes it to pilfering of forest material for the erection of temporary huts by villagers of plagueinfected areas. Communal punishment was inflicted by the Collectors of Poona and Kolába on 21 villages for persistent damage by illicit cutting and grazing. Mr. Napier's suggestions for the better protection of State forests from loss by fire were submitted to Government with this office No. A.-1339, dated 8th September 1917.

```	1915-16.	1916-17.
East Khándesh West Khándesh North Khándesh	. 10,045	11,289 10,602 6,027
Poona Sátára North Násik South Násik	. 11,562 5,571 16,537 11,484	10,136 5,033 11,419 4,971
Násik Sub-division (newly formed)	1 •	8,539
	74,841	68,016

8. Statistics of impoundings in the several forest divisions are given in the margin. General improvement is noticeable in all divisions except West Khandesh. Mr. Napier remarks that the decrease in the impoundings of horned cattle from closed areas was due to there being abundance of grass and to efficient supervision.

9. Minor produce.—Proceeds from hirda fell from Rs. 22,863 to Rs. 16,160; the decrease is an example of ordinary fluctuation.

10. The financial results of the year's administration are very satisfactory. The revenue of the forest divisions in the Central Circle within the jurisdiction of the Central Division amounted to Rs. 7,16,800 against Rs. 5,93,549, and the expenditure to Rs. 4,24,601 against Rs. 4,13,867, leaving a net surplus of Rs. 2,92,199 against Rs. 1,79,682. North and West Khándesh divisions mainly contributed to the increase which is due to brisk timber and fuel markets.

There was an increase of Rs. 27,928 in the total revenue in the Násik ranges. As Mr. Fisher remarks, owing to the reorganization of these charges it is not possible to compare each charge with the previous year's returns.

11. The demand for forest material tends to increase. Mr. Napier observes that the war demand for timber, fuel and grass has cleared off the accumulation of stocks in Khándesh. The Commissioner is glad to add that the year's working has as usual been very satisfactory, reflecting credit on all members of the department. Relations between Forest and Revenue Officers continued to be excellent.

> C. N. SEDDON, • Commissioner, C. D.

76

•		A Cases taken i	nto'Court.		Ca	B uses compound	•	ued.	, ,	O Cases und				Tot	al.		
Divisions.	Injury to forest by fire.	Unauthorized felling or appropriation of wood and other minor forest produce.	Grazing without	Other offences.	Injury to forest by fire.	Unauthorized felling or appropriation of wood and other minor forest produce.	Grazing without	Other offences.	Injury to forest by fire,	Unauthorized felling or appropriation of wood and other minor forest produce.	Grazing	Other offences.	Injury to forest by fire.	Unauthorized felling or appropriation of wood and other minor forest produce.	Grazing	Other offences.	Grand total, 1916-19
East Khandesh	7	17	16	· 16	7	238	818	162	47	64	3	<b>3</b> .	61	319	<b>3</b> 37	181	898
West Khándesh	9	5	5	. 1	1	199	895	32	55	75	8		65	· 279	403	83	780
North Khåndesh	6	2	1	8	12	171	144	. 64	43	103	2	•••	61	276	147	67	551
Poona	4	25	26	. 8	88	767	878	194	- 83	128	6	1	120	920	910	203	2,158
Sátára	8	22	11	2	26	455	476	121	56	46		6	85	523	487	129	1,224
North Násik	1	8	. 3	1	1	180	· 334	• 46	· 6	14	•••	1	8	202	887	48	595
South Násik	1	. 7	9	2	5	163	123	38	41	36	•••	, , , , , , , , , , , , , , , , , , ,	47	206	132	40	425
Násik Sub-division	• •••	3	5	• •••	1	301	278	11	13	36			14	840	283	11	648
Total	31	89	• 76	83	86	2,474	2,946	668	344	502	14	11	461	8,065	8,036	712	7,274

# Number of forest offences committed in the Central Division.

.

.

•

• .

77

### REMARKS OF THE COMMISSIONER, SOUTHERN DIVISION, ON THE FOREST ADMINISTRATION REPORT OF THE SOUTHERN CIRCLE FOR THE YEAR 1916-17.

#### No. 6111.

## REVENUE DEPARTMENT. Belgaum, 24th October 1917.

Alteration in area.—Parasgad forests (7 square miles) have been transferred to the Forest Department for management. Proposal for the transfer of pasture forests in Dhárwár (56 square miles) are under consideration.

Proposals for transfer of the Ratnágiri forests (18 square miles) to the Revenue Department have been submitted to Government under this office No. 429 of 6th August 1917.

2. Forest settlement.—As the forest settlement in all districts of the division is complete although in some cases effected some 30 years ago I was struck with the large number of proposals for afforestation of new survey numbers submitted from time to time by district officers and have issued orders that except where cogent reasons exist or where the forest settlement is out of date or where lands are required for in-forest cultivation, proposals for afforestation of numbers not included in the demarcation sanctioned at the time of forest settlement should not be submitted. Many cases in which lands have been provisionally notified under section 4 of the Forest Act are held up either for examination in the light of these tests or owing to the time of Prant Officers being taken up by more urgent work which prevents a careful examination of each proposal. This is especially necessary in Kánara where 82 per cent. of the district is already under forest and population has steadily decreased.

3. Demarcation.—The Conservator reports that the Collector of Dhárwár has issued orders requiring Inámdárs to clear the common boundaries between their lands and Government forests. Such an order does not appear to be legal (vide Government Order No. 10632 of 1st September 1917). I am pointing this out to the Conservator and the Collector.

4. Control of regular working plans.—Arrears in the exploitation of forests according to working plans are due to the difficulty in procuring labour and transport and these arrears will continue to accumulate until these difficulties are removed. To counteract the deficiency of labour in malarious and inaccessible parts where forest growth is good in-forest cultivation must be started and encouraged. This important question has engaged my attention and I have been considering on what lines the scheme should be worked and have lately held a conference of forest officers and which the Collector of Kanara attended. Roads are as necessary as labour. A detailed scheme for the improvement of communications of forest estate estimated to cost three lakhs of rupees has been submitted to Government under this office No. 5115 of 11th November 1916 and orders are awaited.

5. Fire.—The number of offences by fire has increased, being 35 per cent. above the average of the past three years and 16 per cent. above last year's figures, but the area burnt decreased from 2,13,959 acres to 52,794 acres, *i. e.*, by 75 per cent. which is satisfactory. Sixty-four villages were reported for bad fires in which I issued necessary orders inflicting penal rate of fees on the villagers by whose negligence or carelessness fires were caused and remitting altogether or ordering the levy of ordinary fees in the case of those who helped to put them out. It is essential that rewards and punishments should be closely associated if forest fires are to be checked.

6. Grazing.—Grazing rules are capable of improvement on the lines of the Central Provinces rules as stated elsewhere, and the question is already engaging my attention and I am in correspondence with the Conservator on the subject. The lack of grazing in Kánara is accentuated by the fact that a very large proportion of the cattle is unfit for labour. Unfit cattle are grazed at 2 annas which is the rate that useful cattle pay. In the Central Provinces the ryot is allowed a certain number of plough and domestic cattle at the usual rates; any in excess of that number pay Re. 1.

7. Financial.—Forest revenue increased from 20 lakbs to 23.5 lakbs or 17.5 per cent. This is due to the increased area in the coupes sold.

8. General.—I attended the Conference of forest officers on 11th and 12th September 1916 and another Conference on 22nd October 1916. The Chief Secretary to Government and the Honourable Member in charge of the Revenue Department accompanied me in a brief tour over the forests of Kánara.

A rough estimate of the resources of the forest estate has been submitted to Government under this office No. 1546 of 11th April 1917. The estimated increase in revenue (gross or nett) will be 300 per cent. It would be an advantage if a special officer could be deputed for a scientific investigation of the latent resources of the forest estate.

My report on sandalwood is pending the receipt of certain information which I called for in July 1916 and which I now learn is to be yet put up before me.

Proposals for the establishment of a Forest College in Dharwar are under consideration of Government.

The Gunji-Shiroli road referred to by the Conservator is useful not only for the exploitation of forest produce but also for the inhabitants of several villages. I have granted Rs. 2,000 for the construction of this road out of my discretionary grant for works of public utility.

I consider considerable profit can be obtained if charcoal is manufactured by drywood distillation instead of by the wasteful method of burning. This matter is under investigation, but it is difficult for the forest officers who have large charges to consider the commercial side of the forest estate, in addition to their duties of conservancy and exploitation of the forest coupes. A Forest Engineer is shortly to be appointed who will relieve the Divisional Forest Officers of the duty of constructing roads and buildings and other works which belong to the engineering side of forest work.

#### L. J. MOUNTFORD,

Commissioner, S. D.

REMARKS OF THE COMMISSIONER IN SIND ON THE FOREST ADMINISTRATION REPORT OF THE SIND CIRCLE FOR THE YEAR 1916-17.

#### No. 3238 of 1917.

#### REVENUE DEPARTMENT.

Office of the Commissioner in Sind. Government House, Karáchi, 5th November 1917.

Submitted to Government.

2. The revenue of the year amounted to Rs. 5.3 lakhs against an average of Rs. 4.1 lakhs in the last five years; and the expenditure to Rs. 2.1 lakhs against an average of Rs. 2.1 lakhs. The surplus revenue as compared with the previous year rose from Rs. 1.6 lakhs to Rs. 3.2 lakhs.

3. Of the increase of a lakh and a half over the revenue of the year 1915-16, Rs. 50,000 is apparently due to the earlier recovery of outstanding instalments; for it is reported that the revenue outstanding was Rs. 24,900 only against Rs. 77,510 on the same date last year. This fact is not put forward in the causes given by the Deputy Conservator for the improvement of revenue.

4. The grazing revenue fell from Rs. 55,000 to Rs. 44,000; while minor produce rose from Rs. 31,000 to Rs. 43,000; the chief feature under the head of minor produce being the revival of the demand for lac, with an increase of revenue from Rs. 600 to Rs. 17,000. 5. The timber exploited rose by 76 per cent. from 2.1 lakhs of cubic feet to 3.7 lakhs; while the revenue thereof increased by 60 per cent. from Rs. 67,000 to Rs. 1,07,000. No explanation of this decrease in the price of timber is offered in the report.

6. The fuel exploited increased from 160 lakhs of cubic feet to 188 lakhs, or 17 per cent.; while the revenue increased from Rs. 2 lakhs to Rs. 3.1 lakhs, or 50 per cent.

There is reason to doubt whether these figures of outturn are accurate; and since they are most important to demonstrate the efficient working of the Department, every care should be taken to render them as accurate as possible.

7. The statement of disciplinary measures taken towards the establishment shows an improvement over last year, when the Commissioner had occasion to comment on the inadvisability of wholesale punishments by degradation or fine of superior officers. These punishments are still too numerous in the Sukkur division, where of officers classed as 'superior' 7 were degraded and 19 fined; but in other divisions it was found necessary to punish three men only by fine. The Deputy Conservator will no doubt take steps to see that the recent unsatisfactory system does not continue to be followed in the Sukkur division.

8. Favourable rains and a higher inundation protected the forests equally from fires and illicit grazings, but the number of unauthorised fellings rose slightly; this result being, in the opinion of the Deputy Conservator, a sign of more vigilant inspection. The number of cattle impounded fell from 18,000 to 15,000.

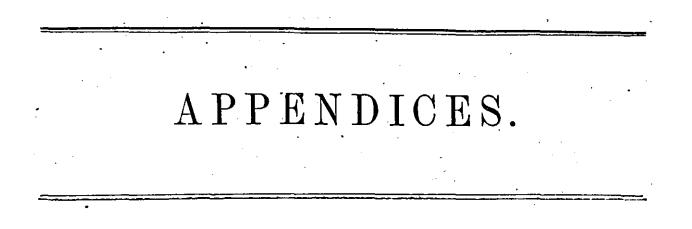
9. An improvement in supervision and control is expected from the re-distribution of the Sukkur and Lárkána divisions into three charges, which was sanctioned by Government with effect from the 1st of August 1917. Proposals for the improvement of the administrative staff are before. Government.

10. The chief feature of the year was the very heavy demand of the Military Department for the supply of fuel to Mesopotamia, the export during the year having amounted to 88 lakhs of cutic feet. The accumulated stocks of dry fuel were largely depleted, and in consequence the price rose very high. In Karáchi the situation was rendered more acute by the shortage of railway wagons for the conveyance of fuel, and prices, which ordinarily ruled at 10 annas per maund, for a time exceeded a rupee. So also in Hyderabad prices rose from 8 annas to 12 annas. The public were considerably inconvenienced by the shortage and high prices. Attempts have been made to bring more fuel into the market by throwing open additional coupes for exploitation, but the continuance of the heavy demand for Mesopotamia maintains the stringency of the market.

11. The Deputy Conservator suggests that the area of forests in Sind is insufficient. It amounts to 7,00,000 acres as compared with an annually cultivated area of 43,00,000 acres and a population of 35 lakhs. The Commissioner agrees that the reservation of additional forest area is desirable, but the difficulty is to find land available for irrigation. If the Deputy Conservator can secure the means of irrigation for waste lands, his proposals for reservation of forests will receive very careful consideration.

12. The need of steamers and barges for the conveyance of fuel suggested by the Deputy Conservator will be considered in consultation with the Inspector-General of Forests at the time of his approaching visit to Sind.

H. S. LAWRENCE, Commissioner in Sind.



•

# FORM No. 7.—Area of Reserved Forest, 1916-1917.

	· <u> </u>	<u> </u>									
Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 19	• 1st July 16.	Added during the year.	Exclud- ed or trans- ferred to other heads.	Area on : 19	30th June 117.	No, and date of Notification of addition or transfer.	Ronarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		· 
• 1	2	8	4	5	6	Ż	8	9	10.	11	12
NORTHERN CIRCLE.				Acres.	Eq.m. a.	Ácres.	Acres.	· Acros.	Sq.m. a.		
Pauch Maháls	412448	Panch Ma háls,	- Reserved	212,199	831 850		(6) 47	212,152	831 312	$\begin{array}{c} (b) \ 4363 \\ \hline 1 \ 5 \ 1009, \end{array} \begin{array}{c} (b) \ 73 \ 10 \\ \hline 25 \ -7 \ 19 \ 17. \end{array}$	
arat	<b>111 419</b>	Surat	Do	51,791	80 591		. 191	51,791	80 591	•••••	
angs (leased) 🚬 🚛	*****	Dángs	. Do	211,795	330 505		***	211,795	830 595	***	
orth Thána	619979	Thána	Do	214,140	834 389	(a) 5	(b) 5,948	209,206	825 206	$\begin{array}{c} (a) \ 4878 \\ \hline 0-5-1010, \ 18.7-1910, \ 11780 \\ \hline 30-11-1910. \end{array}$	
est Thána	484 864	Do	De	236,335	369 175	113,069	151,612	197,792	809 32	<u>(b) 11780</u> 30-11-1016.	
ast Thana		Do	-	010.001	392 211	194,928	(ð) 113,089	294,530	400 130	(b) 0754 (b) 11786 10-10-1916, 30-11-1016.	•
	• ,						(6)			(a) 7940 (a) 10°04	
outh Násik		Násik "	Do	402,956	629 396	ia) 15,005	197,390	221,601	346 121	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
orth Násik	\$7.899	Doin	Do	278,362	591 122	108,267	(8) 154,624	\$ <b>3</b> 2,005	518 485	$\begin{array}{c} (b) \ 11207 \\ \hline 2J - 11 - 1010, \\ 48.08 \\ \hline 11 - 4 - 1917, \\ \hline 28 - 11 - 1016, \\ \hline 12 - 4 - 1917, \\ \hline 28 - 11 - 1016. \\ \hline \end{array}$	
1.sik Sub-Divi- sion.		Do	Do	416	-	· <b>18</b> 9,58 <b>7</b>	(ð) 5	189,582	206 192	(b) 8700 11646 24-3-1917, 28-11-1016,	
hmedabad 🐆	••••	Abmedabad	Do	12,033	18 512		•••	12,032	18 512	******	
	•		Total, Northern Circle.	1,932,810	3,019 150	621,851	622,715	1,931,446	3,017 566		-
CENTRAL CIRCLE.			CHelo,	•						-	
ast Khändesh	444 u 14	East Khán- desh.	Reserved	: 511,870	799 510	14	- <sup>999</sup>	511,884	799 524	8110 of 29-8-1016.	
est Khándesh	******	West Khán- desh.	. Do,	494,627	772 517	251	•••	491,878	. 773 158	8850 of 12-9-1918.	
orth Khándesh	all 19	North	Do	555,706	863 246	430	•1•	556,196	809 80	206 of 9-1-1917.	
oons and Ahmed- nogar.		Khándosh Poona and A h m e.d	Do	646,521	1,010 121	§ 486	¶ 380	648,627	1,010 227	$\begin{array}{c} \frac{\$ 0757}{6.7\cdot1916,} & \underline{0349}\\ 11-7-1916, & 11-7-1916,\\ \underline{6847} & 11209\\ 11-7-1916, & 2\overline{1-11-1916}, \end{array}$	
- 1	•	nagar.				· .				$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	•	•								10-2-1017, 20279         12-4-1917, 8849           23-6-1016, 62!99         22-0-1016, 5206	
•		÷								23-6-1916, 19-5-1916, ¶ 5949 1990	•.
										$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
						•			•	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
•						-		•		6850 11-7-1916, 22-8-1916, 11649 25-11-1916, 3>1-1917,	
- 7	• , <sup>,</sup>	.				.				$\begin{array}{c} 28-11-1310, & 3-1-1017, \\ \hline 204(a) & 4807 \\ \hline 8-1-1917, & 17-4-1917, \\ 8198(a) & 11289 \end{array}$	
-				•					-	8198 (a) 11289 22-8-1016, 21-11-1016, 9517 3-10-1916.	
	•	1		1	1	I .	4			9-10-1910*	

,

# FORM No. 7.—Area of Reserved Forest, 1916-1917—continueu.

Division,	Bange.	Civil District	Name	Area or 19	ı ist July 16.	Added during the year.	Excluded or trans- ferred to other heads.	Ares on 1	30th June - 917:	No. and date of Notification of addition or transfer,	Remarks.
Divisione		or Territory,	Forest.	Acres.	Equivalent in square miles.	Acres.	Aores.	Acres,	Equiva- lent in square miles.		
1	8	3	4	5	6	7	8	9	• 10	11 .	12
CENTRAL CIRCLE-contd.	· <u> </u>			Acres.	Sq.m. a.	Acres,	Acres.	Acres,	8q.m. a.		n
Sátāra	001 4a	Sátára	Reserved	<b>45-1</b> ,440	710 40		***	454,410	710 40		
******	******	Do	Leased	232	0 232		•••	232	0 232	•••••	
•								-			
Kolába	*****	Kolába	Reserved	287,903	449 543	***	-17	287,903	• 449 543	•••• <b>•</b>	•
Ahmednagar and Sholápur.	*****\$	Ahmed n a- gar and Sholápur,	Do	473,068	739 108	, <b>`••</b> •	*24,027	419,041	701 401	•7750 of 8-8-1916 6150 1804 1805-1917, 10-2-1917, 287 14:0	
				,		!				9-1-1917, 6-2-1917, 7947 300 15-8-1916, 9-1-1917, 3748 6638 26-3-1917, 5-9-1916, 9421A. B C,	
	•			 				<del></del>		2-10-1916.	
	,		Total, Central Circle,	3,124,427	5,350 427	1,181	21,407 	3,401,201	5,814 241	-	
SOUTHERN CIRCLE.	•										
Kanars, N. D	¥6.28 <b>8</b>	Kánara and Dhárwár.	Reserved	271,073	423 353	(a) 1,229 †495	(ð) 12	272,785	426 145	(a) 5077 and 5081 15-5-1916.	-
•										5207 7355 19 5-1916, 25-7-1916. 	
	•									$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Kánara, E. D	443e3#	Do,	Do	409,068	639 103	(c) 183	(d) 1 † 2	)		(c) 5076 and 5080	• •
			Ì				(d) 1 † 2 (e) 33.077 * (f) 333.	\$ 375,843	587 163	15-5-1916. 7107 10894	† Mistake in area nov rectified.
					<b>)</b>	•				$\begin{array}{c} \hline 19.7-1916,\\ 12578\\ \hline 21.12-1916,\\ \hline (1).5049,\\ \hline 30.1-1917.\\ \hline \end{array}$	(c) Area trans ferred from Kánara, E. D to Kánara C. D., (G. O No. <u>11396</u> 27-10-15.)
						-			· ·	$\begin{array}{c} (d) \cdot 8848 \\ \hline 12 \cdot 9 \cdot 1916, \end{array}  \begin{array}{c} 0 & 0 \\ \hline 16 - 5 - 1917, \end{array}$	C. D., (G. O No. <u>11396</u> 27-10-15.)
			ļ						ł	-	ferred from Kánara, E. D
				1				•			to Kánari W. D. (G. O
Eánara, C. D	14\$1 <b>4</b> 8	Kánara	Do	467,831	731 21	(g) 11	(ħ) 17	500,932	763 452	<u>(g) 5033</u>	No. $\frac{11395}{27 \cdot 10 - 15}$
	•	· .				(e) 33,077		<b>)</b>		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
-									ļ	13-6-1916, 21-6-1916, 9128 9518	
				}						21-9 1916, 8-10-1016, 10142 599	•
			· ·	1						23-10-1016, 16-1-1017. 4800 17-4-1917.	
Kánara, S. D	2 m 16g	Do	Do	411,044	612 161	(i) 9	( <i>j</i> ) 33	411,020	642 140	(i) 8443 29-8-1916,	
	•									$\begin{array}{c c} (j) & 5983 \\ \hline 2 \cdot 6 \cdot 1916, \end{array} & \begin{array}{c} 7074 \\ \hline 18 \cdot 7 \cdot 1916, \end{array}$	
	1						•			29-8-1913, 18-11-1916, 11263 12157	
								•	Ι.	21-11-1016, 11-12-1016, & 5746 & 5746 8-5-1917.	

84

Division.	Rango,	Civil District or Territory,	Name of Forest,		n 1st July 916.	Added during the year.	Excluded or trans- ferred to other heads.	Area on	30th Juno 117.	No, and date of Notification of addition or transfor.	Bomarks.
				Acres.	Equivalent in square miles,	Aoros.	Acres,	Астея.	Equiva- lent in square miles.		
1	2	8	4	5	6	7	8	9	10	11	13
SOUTHERN CIRCLE-contd.			]	Acres.	Sq.m. a.	Acres,	Acres.	Aeres.	Som a	]	
Kánara, W. D	******	Kánara	Reserved	527,503	821 235	(k) 40 (f) 833	(2) 2 *0,598	621,370	Sq.m. a. 814 410	(k) 10800 & 10802 10-11-1910, (7) 0427	<ul> <li>Mistako i area no routifiod.</li> <li>(a) Area trans forrud from</li> </ul>
Belgnum .	496000	Belgaum	Do	435,819	630 110	(m)1,153	<b>864</b>	436,175	• 091 035	(m) 8100 108 3 & 10905 22 9.1010, 10-11-1:10, 11:05 200 21 11-1010, 9-1-1017, 4220	Kánara, E. I to Kánara O. D., (G. C No. 11300 27-10-15 (f) Area traus ferred from
Dhárwár and Bijápar,	******	Dhárwár aud Bijá- pur.		<b>3</b> 18,054	496 014	(n) 30	(0) 69 • 681 •	817,354	405 551	& <u>4-1017.</u> <u>(n) 5068</u> 7506 7517 <u>10.6-1014</u> , <u>31-7-1014</u> , (c) 5091 & 5081 6848 18.6-1010, <u>10-7-1016</u> ,	W. D., ((i. 0 No. 11395 No. 27-10-15)
Ratnágirl		Ratnágiri	Do	12,054	19 534			12,054	18 534		
			Total, Southern Circle,	2,852,003	1,456 228	3,159 33,410†	7,893 33,410	2,847,683	4,440 473		† Areas trans forred from
	•								· · · · · · · · · · · · · · · · · · ·		Division Division,
SIND CIRCLE.	*****	Sukkur	‡ Old Gublo	11,481	22 364			14,403	22 381		t This forest transferre from the U per Sind Fro
			Other Forests	234,837	366 97	+8,715	-1,300	236,770	869 616		tier District Bakkur D triet. + Gained action of t river.
		Upper Sind Frontier.			65 329	+491	-230	42,193	65 509		-Lost action of t river.
4	•		Total	290,731	451 170	4,230	1,536	3)3,438	458 313		
Lirkāna . 🚥	******	Sukkur Lárkána	Forests Kasimshah		50 428 8 143	 §¶8		32,420	50 420 8 146	Government Resolution	§ Reservation
		Laiduna	Other Forests		93 472	+0.10		60,582	94 803	No. 5173 of 22nd Δυ <sub>5</sub> ust 1916.	¶ The A notified is 5 13 acres a the area eording to 5
	· · ·	Nawábshah.	Forests	53,704	84 34	+210	-1,150	52,834	62 414	1	lago form the whi forest is 2,4 17 ; hone acres ho
			Total'	148,275	231 435	1,103	1,53)	147,038	231 98		been accour ed for, + Guined action of f
•											river. - Lost action of t river.
Hyderabad		Hyderabad.	Khanote No. I .	1,009	1 369	**68	***	- 1,097	1 457	No. 12520 of 19th Decem- ber 1916.	** Reservation
			Jhirkl		1 425	••9	•••	1,074	1 431	No. 0240 of 25th Septem- ber 1916.	D₀.
			Khanote	6,104	0 344	**52	***	0,156	9 826	Government Resolution No. 1350 of 19th Decem ber 1916.	D0.
		f anfahi	Other Forests	68,458 5 972	100 018	+9,015 ††329	-1,473 100	5,000 5,022	118 490 .8 502	Government Resolution	tt Reservation
		Karáchi	Manjhand	5,373 23,955	9 263 37 175	+ 20	-719	25,580	80 029	No. 3050 of 12th March 1917.	+ Gained action of t
	. •	Nawábshab.	Forests	50,612	79 62	+575	<u>-1,000</u> 3,931	49,497	257 865		river. - Lost sction of t
Jerruck	• •••••	ffyderabad.		158,476 · 18,860	214 310 29 440	+ 222	- 209	18,373	28 453		river. + Gained 1
:	-	Karáchi	Do	128,060	200 60	+ 2,710	-4,610	1:0,169	107 89		action of t river. Lost
K			Total Total, Sind	1 16,420 744,901	228 500 1,159 141	2,941 20,913	4,819 11,800	141,542 750,043	225 543 1,173 228		action of the river.
			Cirelo, • GBAND <sup>®</sup> TOTAL ···	8,053,706	13,985 306	630,504	699,991	8,934,428	18,955 228		

۰.

•

# FORM No. 7.-Area of Reserved Forest, 1916-1917-concluded.

•

FORM No. 7-A.—Area of Protected Forest, 1916-1917.

Dicision.	Range.	Civil District or	Name of	Area on 1 191	ist July 8.	Added during the year.	Excluded or trans- ferred to other heads.	Area on 3 191	0th June 7.	No. and date of Notification of addition or transfor.	Remarks.
	•	Territory.	Forest.	Acres.	Equiva- lent in square miles.	Acres.	Acres.	Acres.	Equiva- lent in square miles.		
1	2	3	4	б	6	7	8	9	10	11	12
NORTHERN			_	Acres,	Sq. m. a.	Acres.	Acres.	Acres.	Sq.m. a.		
CIRCLE.		Surat	Protected	205 <b>,013</b>	325 13			208,013	825 13	•• <b>•</b> , <sub>sin</sub>	
leaseg). North Thána 🛛 🚥	····142	Thana	Do	93,472	146 33	•••	(ð) 567	92,936	145 105	(b) 743 (b) 6272 20-1-1917, 10-5-1917, <u>11780</u> 30-11-1916.	
Vest Thána 🚥	€ 14 ÷ + +	Do	Do	64,901	101 261	47,818	(ð) 44,994	67,725	105 525	(b) 10564 (b) 6161 3-11-1016, 10-5-1917, 11758 30-11-10:6.	
Sast Thána 🔐		Do	. Do,	98,072	163 152	40,532	47,818	90,786	141.546	11786 30-11-1916.	
South Násik 🐽	647.000 -	Násik "	. Do	56,144	87 464	(a)5,040		· 61,184	95 384	(a) 631 (a) 11766 17-1-1917, 30-11-1910.	1
		-	Total, Northern Circle	520,602	813 282	93,300	93,379	520,613	813 293		
CENTRAL CIRCLE.								·			
Sátára 🦡 🚥	844955	Sátára	Protected	658	I 18			658	1 19	#1+***Q	
Poona	9659 <b>6</b> 3	Ahmed nagar.	Do	7,139	11 99			7,139	11 99	av1948	
Kolába		Kolába ("	. Do	<b>4</b> 7,247	73 527		6	47,241	73 521	7751 8633 8-8-1016, 5-9-1916, 8-144 126.17 2-9-1916, 22-12-1910, 6281	
					 				·	23-8-1016.	
SOUTHERN	<i>,</i>		Total, Central Circle,	55,014	88 41	,	6	55,038	85 638	·	
CIRCLE.	a ba paç	Kánara and Dhárwár,	Protected Forest.	57	0 57	1 *1			0 58		* Mistakes
		. ,				ļ	l		Į		areas roctifi
lánara, E.D. 👞	******		. Do	8,284	584	•2 (a) 2	1	} 1,703	2 420	(a) 7073 18-7-1916.	(b) Area tra ferred fr Kánara, E. to Kána
	1								ļ		Kánara, E. to Kána C. D., (G. No, <u>11396</u> 27-10-10
Cánara, C. D. 🧸	******	Kánara	. Do	80,985	48 265	(b) 1,579	(c) 7 40	32,564	50 584	(c) 9737 10-10-1916.	
lánara, S. D. 🔐	••••••	. Do	Do	42,035	65 435		(d) 1. 40	<b>42,</b> 035	65 435	(d) 7938 14-8-1916,	
árara, W.D. 🚥	** <b>#</b> *# <b>#</b>	Do	. Do	8,210	12 530	*813	-	9,028	14 69		
elgaum 🔐 🖿	•	Belgaum	. Do	12	0 12			12	0 12	·····,	1
PIND CIECLE.			Total, Southern Circle.	84,583	132 103	823 (b) 1,579	} (b) 1,579	85,406	133 286		
ikkur 🚥 🚥	*****	Upper Sind Frontier,		585	0 585	100	585	585	0 585		
	•		Total, Sind Circle,	585	0 585			585	0 585		х. 
			GEAND TOTAL	C60,814	1,012 334	95,792	94,901	661,642	1,033 522	<b>.</b>	

86

# FORM No. 7-B.—Area of Forest Proper, Reserved or Mixed Fuel and Fodder Reserves under the management of the Forest Department for 1916-1917.

Division.	e. Range.	Civil District or Territory.	Name of Forest.	Area on 1916	lst July 3.	Added during the year.	Exclud- ed or trans- ferred to other heads.	- Area on 80		No. and date of Notification of addition
•				Aores.	Equivalent in square miles.	Acres,	Acres.	Acres.	Equivalent in square miles.	or transfer.
1	2	8	4	5	6	7	8	9	10	11
NORTHERN CIRCLE				Acres.	Sq.m. a.	Acres.	Acres,	Acres,	Sq.m. a.	}
Panch Maháls		Panch Maháls.	Reserved	212,199	331 359	•••	(b) 47	212,152	831 812	
Surat	******	Surat	Reserved and Protected	463,507	724 147	•••		463,507	724 147	No. 7.
North Thána	*****	Thána		214,149	334 389	(a) 5	(b) 5,943	208,206	325 206	Vide Form
West Thána		Do	Roserv d and Protected	238,886	873 166	118,700	151,612	205,974	821 534	No. 7.
East Thána	****	Do		218,333	841 93	194,928	118,731	294,530	460 180	
Sonth Násik North Násik Násik Sub-		Násik Do. Do	Do Do Do	894,224 842,745	615 624 535 345		192,359 133,580 5	217,860 316,214 165,133	340 260 494 54 258 13	Do.
Division. CENTRAL			Total, North- ern Circle .	2,084,043	3,256 203	601,815	602,282	2,083,576	· <b>8,255</b> 376	
CIRCLE. East Khandesh	*****	East Khán- desh.	Reserved	488,615	763 295	14		488,629	763 309	.f
West Khán-	*****	West Khán- desh.	Do	881,360	595 560	251	•••	<b>3</b> 81,611	596 171	
desh. North Khán-	<b>801</b> 1 1 1	North Khán- desh.	Do	555,766	868 246	430	***	556,196	869 86	•••••
desh. Poona	••••	Poona and Ahmednagar.		366,897	573 177	486	*5,579	861,804	565 204	• Out of thi 5,400 acre transforred t the R. D
								· ·		vide G. R No. 3013, date
Sátára Kolába •••	•••••	Sátára Kolába	1 2	<b>33</b> 0,490 269,327	516 250 420 527	••••	***	830,490 269,327	516 250 420 527	
SOUTHERN CIRCLE.			Total, Cen-	2,392,455	<b>3,7</b> 38 135	1,181	5,579	2,388,057	3,731 217	
Kánara, N. D	• <b>6 6 6</b> • • • •	Kánara and Dhárwár.	tral Circle . Reserved and Protected.	271,130	423 410	· 1,725	12	272,843	426 203	* ****
Kánara, E. D	• • • • •	Do	Do	410,023 -	640 423	192	8 (a)34,656 (b) 333	375,223	586 183	• Transfers of areas from division as per G. O. R. D., No. 1130
Kánara, O. D.		Kánara	Do	498,846	779 286	11	17	533,496	833 376	of 27th Octobe
Kánara, S. D		Do	Do	453,079	707 599	<b>34,</b> 656 9	33	453,055	707 575	(a) from Kánara E. D. to Kánara C. D., vide form Nos. 7 and 7A. (b) from Kánara
Kánara, W. D	••••	Do	Do	535 <b>,8</b> 05	~ 837 125	(ð) 383	6,598	530,398	828 476	E. D. t
Belgaum	· , +•	Belgaum	Do	401,369	627 89	1,156	•••	407,138	636. 98	(e) Area trans ferred from the
Dhárwár' and Bijapar.		Dhárwar avd Bijápur.	Reserved	186,412	<b>291 17</b> 2	(o) 4,618 80	· 730	185,712	290 112	Revenue De partment to that of the Forest Depart
Ratnágiri		Ratnágiri	Do	12,054	18 534	•••	•••	12,054	18 534	ment as pe Collector's No F. O. R. 35 o
SIND CIRCLE			Total, South- ern Circle.	2,768,718	4,326 78	<pre></pre>	7,393 •34,989 }	2,769,919	4,327 639	3 74L D.4.L.
Sukkur	•••••	Sukkur and Upper Sind	Forests	291,315	455 115	<b>#</b> 41,239	• 1,536	294,018	459 258	*Vide Form No. 7.
Lárkána …	•••••••	Frontier. Sukkur, Lárkána and Nawáb-	.Do	148,275	231 435	•1,193	• 1,530	147,938	231 98	*****
Hyderabad		shah. Hyderabad, Karáchi and	Do	156,476	244 316	• 12,510	<b>* 3,</b> 981	165,035	257 555	
Jerruck		Nawábshah. Hyde r a b a d and Karáchi.	Do	146,396	228 476	• 2,941	* 4,819	144,518	225 518	
			Total, Sind	742,462	1,160 .62	20,913	11,866	751,509	1,174 149	
			Circle. Geand Total	7,987,678	12,480 478	667,492	662,109	7,993,061	12,489 101	

# FORM No. 7-C.—Area of Fodder Reserves and Pasture Lands under the management of the Revenue Department for 1916-1917.

			Lievenu	te Depart m	ent jor 13						
Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1 1916	lst July •	Added during the year.	Exclud- ed or trans- ferred to other heads.	Area on 30 191			No. and date of Notification of addition
	<b>.</b>	Termoory,		Acres,	Equivalent in square miles.	Acres.	· Acres.	Acres,	Equivatin squ mile	are	or transfer.
1	2.	3	4	5	6	7	8	9	10		11
NORTHERN CIRCLE.	<u>.</u>			Acres.	Sq.m. a.	Acres.	Acres.	Acres.	Sý.m.	6.	
Surat	******	Surat	Reserved	8,092	12 412			8,092	12	<b>4</b> 12	***
North Thána		Thána	Protected	93,472	146 32		567	92,905	145	105	
West Thana	***	De	Do	62,350	97 270	43,187	41,994	59,543	93	23	No. 7 <u>A</u> . Do.
East Thána	******	Do	Do	92,430	144 270	40,532	42,176	90,786	141	23 546	
. South Násik	548 F5	Násik	Reserved and Protected.	64,876	101 236	5,040	5,031	64,885	101	<b>2</b> 45	Vide Form No. 7A.
North Násik	******	Do	Reserved	85,617	55 417	1,218	21,044	15,791	21	431	Do.
Násik Sub-divi-		Do	Do		119	24,449		24,449	38	129	
sion. Ahmedabad	,	Ahmedabad.	Do	12,032	18 512	•••	•••	12,032	18	512	
	-	-								012	
CENTRAL CIRCLE.	-		Total, Northern Circle.	368,869	576 229	113,426	113,812	368,483	575	483	
East Khandesh	*=5***	East Khán-	Reserved	23,255	36 215			23,255			
West Khåndesh		desh. West Khán-		113,267	176 627	•••	•••	113,267		215	6619 <del>09</del>
Poona	141+00	desh. Poona and	D	000 500	448 43	5,400	 201	291,962	176 456	637 122	
Sátara		Ahmednagar Sátára		124,840	195 40			124,840	450 195		
Kolába 🚥	*****	Kolába	Reserved and Protected.	65,823	102 543	•••	. 6	65,817		<b>4</b> 0 <b>5</b> 37	*****
Ahmednagar and Sholápur.		Ahmednagar and Sholá- pur.	Reserved	473,063	• 739 108	***	24,027	449,041	701	- 401	
SOUTHERN CIRCLE 7			Total, Central Circle.	1,087,016	1,698 296	. 5,400	24 231	1,068,182	1,669	22	
Kánara, E. D.+		Kanara and	Reserved For-	2,329	3 409			· · · · · · · · · · · · · · · · · · ·		 	
Belgaum	*****	Dhárwár. Belgaum	est.		53 42	***	· • 4,613	2,329 20, 210	8	409	
•							3,013	29,349	45	549	Trunsferred to the management of the Forest Depart- ment as per Collec- tor's No. F. O. R. 37 of 17th October
Dhárwár and Bijá- pur.	*** **	Dhárwár and Bijápur.	Do	131,642	205 442	<b>*</b> 45	•	131,642	205	<b>4</b> 42	1910.
			Tatel C. I					- <b></b> -			
SIND CIRCLE.			Total, Southern Circle.	167,933	262 253	***	* 4,613	163,320	255	120	
Jerruck	6 <i>8</i> 9 39	Karáchi	Malir	24	0 24	• •••	•••	24	0	24	******
		· ·	Total, Sind Circle.	24	0 24		•••	21	0	 24	
}			GRAND TOTAL	1,623, 42	2,539 162	118,826	142,659	1,600,009	2,500	9	• '

88

ABSTRACT OF FORMS Nos. 7, 7-A, 7-B and 7-C.

D 15—23

.

•

	· · ·		In charge of	the Forest Dep	artment.	
Division.	-		Reserved Forest.		Protect	ed Forest.
	Forest p	roper.	Pasture reserves.	Fuel and Fodder reserves.	Forest proper.	Pasture reserve
	Sq.m		Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. a.
NORTHERN CIRCLE.				oq.m. u	~1	
	331	312 134	*****	•••	325 13	*****
		154	••••	2 50	020 10	
North Thána •	900	32	•••••		12 512	
West Thána • East Thána •	1 450	497	****	•••	•••	
	-	050				
OUTER THEFT		270	*****	0 630		••••
	494 258	- 54 13			••• •	•••••
		10	*****		•••	
Ahmedabad •	•••	••			· •••	····
. Total .	2,914	,188	•••••	<b>3</b> 40	3 <b>87 5</b> 25	
CENTRAL CIRCLE.		· 				
East Khándesh	763	809				
West Khándesh .	465		****	131 27		
North Khándesh	869	36		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Poona	554	105	•••••	•••	11 99	
Sátára •	1 417	232 78		3 449	. 1 18	•••••
Kolába •	······································	10	******	0 777	•••	•••••
Ahmednagar and Sholápur.		•••	•••••	•••		
Total .	3,584	<b>2</b> 64		134 476	12 117	
		<u> </u>				•••••
SOUTHERN CIRCLE.						
· · · · ·	. 424	186	1 576	0 23	•••	0 58
Kánara, Eastern .	. 476	431	106 603			2 429
	. 682	49 <b>1</b>	99 601	•	50 564	
Kánara, Southern .	1 759	. 490 215	256 290 61 195		65 435	
n 1 <sup>′</sup>	000	215 86	7 0	•••	0 12	14 68
N 2 7 10127	265	452	12 326	11 614	•••	••••••
Ratnágiri	12	534	*****	5 0	•••	*****
Total .	. 3,631	325	546 31	16 637	116 371	16 555
SIND CIRCLE.		 -		·		
Sukkur .	1 001	313	•••••		0 585	••••
Lárkána Hyderabad	0.517	98 555	•••••	•••	•••	• • • • • • • • • • • • • • • • • • • •
erruck	0.05	518	•••••	•••		
Total .	. 1,173	204	·•	•••	0. 585	
GRAND TOTAL	. 11,303	341	546 31	154 513	405 010	
GAAND LUTAL .	11,000	041	0*0 31	194 513	467 318	16 555

•

	Reserved Fores		Protected Forest.	Total F Area		. Remarks.
Forest proper.	Pasture reserves.	Fuel and Fodderreserves.	Pasture reserves.			
Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m.	a.	
•••				331	812	
	3 53	9 359		736	559	
***		•••	145         105           93         13	470 414	311 557	
0 273	•••••	••••	141 546	602	36	
•••	4 212	1 289	95 384	441	505	
	24 431	•••	<b>5 6 8</b>	518	485	
•••	38 129	10 219	\$**	296	142	
•••	*****	18 512	•••	18	512	
<sup>·</sup> 0 27 <b>3</b>	70 185	29 520	475 408	3,831	219	
	36 215	•••	•••	799	524	
	176 627	•••	•••	773 869	158 36	
***	456 122	•••		1,021	326	
	189 385	5 295		711	290	
<b></b>	29.16	•••	73 521	523	424	
	701 401		•••	701	401	
• • •	1,589 486	5 295	73 521	5,400	239	
	· · · · · · · ·	•		:		
				426	203	
***	3 409			589	592	
•••		•••	·	833	376	
	•••••	•••		707 828	575 478	
i 0	42 549	2 0	••••	682	7.	
	205 422	• ••• •	• • •	495	554	
				18	534	
1 0	252 120	2 0	•••	4,583	119	•
· ·			•.	120	959	
	•••••		•••	459 231	258 98	
		•••	· · · ·	-257	555	
0 24		•••	••••	225	542	
0 24		`	• •••	1,174	173	
1 297	1,912 151	37 175	550 289	14,989	110	

## 7-B and 7-C for 1916-17.

.

•			· · · · ·			ABBA	IN SQUARE M	ILES
	·					. [		
. ,	Forest Division.		Civil District or Territory.		Name of Forest.	Finally settled during	3110110 01	Taken in hand during the year.
			•			the year.	the year.	the year.
			2		3	4		6
. <u>'</u>	· •						]	l
	NORTHERN CIRCLE,					· · ·		
	Reserved Fores	t.	•		· , · · · · · · · · · · · · · · · · · ·			
Pan	ch Maháls	•••	Panch Maháls	•••			****	41998
Sura	at •••	•••	Surat		******			<b>445</b> +40
Nor	th Thána		Thána	<b>48</b> 1	Girgaon	<u>5</u> 640		
Wes	st Thána	•••	. Do		441+44	•••••	<b></b>	
Eas	t Thána		Do	•••	*****	••••		
		•	•	-	(Amboli	<u>42</u> 640		****
Sou	th Nasik	·	Násik	•••	11	8		· •
		•	, <b>,</b>		(Trimbak	640	1747 <b>40</b>	
Nor	th Násik	•••	Do	•••	******	*****		
Nás	ik Sub-Division		Do	•••	•••••	******		
Ahr	nedabad	, <b></b>	Ahmedabad		•••••	, <b>.</b> ,	•••••	•••••
• . -	-		· Total	•		<u>55</u> 640		
						•		
•	Protected Fores		, # 			•		
Ö			Surat	***	488 <i>84</i> 8 -	*****	,000+++>	
Nor	th Thána	•••				* , • •		Bat389
Wee	et do.	•••	Do	•••	-		••••	**1895
Eas	t do.	. <b></b>	Do	•••	******		******	******
Sout	th Násik		Násik	<b>7</b> 44	••••	******	6=s <sup>1</sup> *8	•••••
	•		Total	Fa+			÷•••	
ч. •			Total, Northern Circ			·[	.	·

, :

•

•

.

# Settlements during the year 1916-1917.

. . .

Cost during	THE YEAR.	-	GOVERNMENT OF SETT	NOTIFICATION LEMENT.	
In Forest Accounts.	In other Accounts.	Entire cost per square mile of areas finally settled.	No.	Date.	Renarks,
					•
7	8	9	10	11	12
R3.	Rs.	Rs.			
•	. ·	•		•	•
305888	******		•••••	*****	· .
*****	******	******	464,	******	
C01-49	* * * * * <b>*</b> *	•••	<b>±878</b>	9 May 1916.	
464 <sup>-</sup> 88	4== +34	141.06	*****	+44-13	
******	••••••	• <b>*</b>	••••••	••••	
	<b>76.</b> •••••••		7949 1467	17 August 1916. 6 February 1917.	. ,
			10804	10 November 1916.	
84 64 <b>8</b> 8	1	*****	789.000	441744	
10+44 <b>3</b>	801100	*****			•
171148	•••••	*****			
******			***		
· ·	· · ·				
		# ••;100 _	• #01-4 b	400704	
-		Je4148		100.00	
	<b>149</b>	60.848	. <b></b>	******	
	•••••	••• ••	<b>***</b>	•••••	
•••••		•••••			
				/	

p 15-24

.

	•	For	M No. 8—P	rogress maa	le in
			AREA	IN SQUARE I	811 ES
livision.	Civil District or Territory,	Name of Forest.	Finally settled	In hand at commence-	Tak

•	FORM No. 8-Progress made in Forest

•

	-			Ausa	10 900423	
	Forest Division.	Civil District or Territory,	Name of Forest.	Finally settled during the	In hand at commence- ment of	Taken in hand during
	-			year.	the year.	the year.
			-	<u> </u>	}	
-	1	2	3	4	5	6
						{ .
	CENTRAL CIRCLE.					
	Reserved Forest.		<b>`</b>			
. ·	East Khándesh	East Khandesh	Kandari	<u>14</u> 640	1 - <b>364</b>	
	•		•			
-	West Khándesh	West Khándesh	Pangan	152 - 640	•••	$\left\{\begin{array}{c}\\ 22 \ \underline{405}\\ 640\end{array}\right.$
						640
	North Khándesh	Do, e.	Sangari	430 640	•1•	• •
	•	- · · · ·	•		~	-
			(Nande, Bhauli, Aglam	<u> </u> .		
	Роодв	Poona	Nande, Bhauli, Aglam be, Donje, Khamgaon Sitewadi, Anjanwala Atwan, Kune, Awala Ghuteke, Paud Kol wadi.	a 485 s 640	•••	100
	•		Ghuteke, Paud Kol wadi.			· ·
			1		• •	· ·
	• ·					·\$,
•			-		· · ·	
	· ·		• •			
			Kombhalne		32	156 640
	2		e		.   .	
•• ·	Sátára	Sátára		l	45	175 64.)
	• /		, num menduaguar,		640	64.)
-	· · ·					
• •	Kolába	Kolábs		- 	•••	•••
		:		·	 	
	-	Total, Central Circle	- 194-78	$1\frac{541}{640}$	<u>77</u> 640	23 <u>96</u>

COST DUBING	THE YEAR.	•		NOTIFICATION TRMENT.	
In Forest Accounts.	In other Accounts.	Entire cost per square mile of areas finally settled.	No.	Date.	Remarks.
7.	<u> </u>	9	10	11	12
R. a. p.	Rs.	Rs.			
					·
5780			8410	29th August 1916.	
			8850	12th Eeptember 1916.	· · ·
*****			481 <b>9</b> A	17th April 1917.	
2,283 0 0		••••••	296 2758 & 59 11266	9th January 1917. 6th March 1917. 21st November	•
•			6757 6449	1916. 8th July 1916. 1.1th July 1916.	
534 0 0			6847 1959 1960 4542	Do- 19th February 1917. 12th April 1917. 23rd June 1916.	•
		• •	6279 8849 6206	23rd June 1916. 22nd September 1916. 19th May 1916.	
		• · · · ·	11863 • 7088	10th November 1915. 11th June 1917.	
•	-		12158 4441	11th December 1916. 12th April 1917.	
**** <b>*</b> *	- *=\$`\$4	••••	6479 6273 8198	25th May 1917. 19th May 1917. 22nd August 1916.	
			8280 10799	24th August 1916. 10th November 1916. 14th December	• •
58 8 O	• •••••		{ 12334 632 5259	14th December 1916. 17th January 1917. 27th April 1917.	
500				- 1481	
2,938 0 0				· · · ·	• •

# Seltlements during the year 1916-1917-continued.

-

.

.

-

.

-

< <u>-</u> •

FORM No. 8-Progress made in Forest Seltlements

					•	Area	IN SQUARE M	iles
Forest Division.	Civil District or Territory.		Name of For	28t.	settle	nally d during year.	In hand at commence- ment of the year.	Taken in 1 <b>5</b> 1d during the year,
1	2	¢ .	3			4	5	6
SOUTHERN CIRCLE.								
Reserved Forest.								
Anara, Northern	Kánara and Dhárwár		Reserved Fores	t	(a)	$1\frac{589}{640}$	424	1 <sup>396</sup> <del>e</del> 40
Do. Eastern	Kánara and Dhárwár	••	Do.		; (ð)	188 640	(ħ) 639	<u>-68</u> -610
	•							•
Do. Central	Kánara	•••	Do,	3.00	(c)	11 . 640	731	******
Do. Southern	Kána <b>ra</b>	•••	S Do.	<b>8</b>	(d)	9 640	642	***
Do. Western	Kánara	••••	Do.	•••	(e)	40	824	191 640
Selgaum	Belgaum	•••	Do.	***	(1)	1 <u>516</u>	680	78 640
		. }					,	
hárwár and Bijápur.	Dhárwár and Bijápur		Do.		(9)	<u>30</u>	497	<u>57</u> 640
latnágiri	Ratnágiri	•••	Do.	••••		•••	19	*****
	Total, Reserved Forest .	•••	•••••			103 640	4,456	2 <sup>154</sup> 2 <del>610</del>
Protected Forest.	:	-				-		
Kánara, Northern	Kánara and Dhárwár		*****		•		57 640	
Do. Eastern	Kápara and Dhárwár	•••	*****		(i)	2 640	. <i>(j</i> ) 5	******
Do. Central	Kánara		******	ĺ	••	• *	49	* *****
Do. Southern	Kánara	•••	*****			• •• •	66	* = F = #
Do. Western		••••	*****		••		- 13	******
elgaum	Belgaum	•••	******		••	••••	12 640	441 apa
	Total, Protected Forest .		******		• • •	2 840	132	986
	Total, Southern Circle	-	Tap:			105 640	4,588	2 <mark>154</mark> 640

•

:

.

during the year 1916-1917-continued.

٠.

· · ·

COST DURI	ING YEAR.	<b>E</b> otire		
In Forest Accounts.	In other Accounts.	cost per square mile of areas finally settled during	Government Notification of Settlement, Number and Date.	Romarks.
	i	the year.	· · ·	-
. 7		9	10 • 11	12
 Rs. (	Rs.	Rs.	]	Areas disformated Areas lost or gaine
	1.5			during the year, by rectification of errors in measure ments and record
***	*** *	•••	$ \begin{array}{c} (a) \\ \underline{5077} \\ \underline{16} \\ \underline{516} \\ 16 \\ \underline{516} \\ 15 \\ \underline{516} \\ 15 \\ \underline{516} \\ \underline{516} \\ \underline{5207} \\ \underline{19} \\ \underline{516} \\ \underline{7516} \\ \underline{7516} \\ \underline{7516} \\ \underline{5207} \\ \underline{19} \\ \underline{516} \\ \underline{7516} \\ \underline{5207} \\ \underline{19} \\ \underline{516} \\ \underline{5207} \\ \underline{19} \\ \underline{516} \\ \underline{5207} \\ \underline{19} \\ \underline{516}	A. A. 12 +495
			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
•••		. •44	$ \begin{array}{c} (b) & \frac{5076 & 5080}{15 \cdot 5 \cdot 16} & \frac{7107}{18 \cdot 7 \cdot 16} \\ \hline 10 \\ 10 \\ \hline 10 \\ 125 \\ \hline 12 \\ 11 \\ 11 \\ 45 \end{array} $	1 -2
	-		30-1-17 ; 5933	17
***	544	•••	(°) <u>13-6-16</u>	83
	407	•=•	(d) $\frac{8443}{29-3-16}$ ;	
401_	\$ <b>4</b> \$		(e) $\frac{10800 \& 10832}{10.11.16}$ ;	2€,596
448	•••	•••	$(r) \frac{8199}{\frac{22-3\cdot16}{290}},  \frac{1003 \& 10805}{10\cdot11\cdot16},  \frac{4265}{21\cdot11\cdot16}, \\ 290  4220$	••••••
			7-1 17 4-4-17	69 —66L
•=•	*47	•••	$(g) \frac{5083}{16-5-16}, \frac{7505 \text{ and } 7517}{31-7-16}$	
***	•=	***		
,				
				(h) Out of this area the transfer made during the year were :
				51 437 to Kanara, C.I. S33 to Kanara, W.C
***	•••		•	•••• +1 ••• +2
) 143		•••	(i) <del>7073</del> <del>18-7-16</del>	$ \begin{array}{cccc}  & & & +2 \\  & \frac{7}{40} & & & \\  & \frac{1}{40} & & & \\  & & & & \\ \end{array} $
. •••	•••		•	*** <u></u> +010
••••	***			*** *** . ·
	***\$	•••		
•••	•••	•••		
	•••	•••		(1) Out of this area 2 square miles 299 acres were transferred to Kanara, Central Division, during the year.

.

97 '

• '

98

, -

FORM No. 8.—Progress made in Forest

			•	ARE	A IN SQUARE 1	IILES
-	Forest Division.	Civil District or Territory.	Name of Forest.	Finally settled during year.	In hand at commemnce- ment of year.	Taken in hand during year.
•	1	2	8	. 4	5	6
	SIND CIRCLE. Sukkur	Sukkur	***			vee* 44
-		Total				*****
	Lárkána	Sukkur, Lárkána and Nawábshah.	Kashinshah i	•• <u>2</u> 610	2 840	•••••
	•	Total	•••••••	2 640	<u>2</u> .640	
	<b>∐y</b> ?erabad ••	• Hyderabad	Deh Jamalabad .		197 640	17 010
	•	Karáchi	Deh Halla Purana	<u>52</u> 640	149 640	<u>17</u> 640
	· · · · · · · · · · · · · · · · · · ·	Nawabshah	. Deh Ghirkbi	9 640	820 040	101.*45
		0 <b>\$</b> 2	Deh Tanghiani		•••••	•••••
	•	Total		478 6	1 35 640	89 40
	Jerruck	Karáchi and Hyderabad				F04*49
		Total	•=•		• • • • • •	•••••
		Total, Sind Circle	····•	<u>480</u> 640	$1 \frac{37}{640}$	<u>89</u> 640
	•	GBAND TOTAL		6.541	4,589 114	25 <u>839</u> 640

# Settlements during the year 1916-1917-concluded.

COST DUBING	THE YEAR.		GOVERNMENT	NOTIFICATION	
			OF SETT	LEMENT.	
In Forest Accounts.	In other Accounts.	Entiro cost per equare mile of areas finally settled	N0.	Date.	Remarks.
	•			-	
7	8	9	10	11	12
Re.	Rs.	Rs.			•
	• # # • • • •	***	     	•••••	
		100106	168		
	••• ••	••••	8173	22 August 1916.	
			· •••••		
		· · · ·			-
	<b>1</b> 96		12520	19 December 1916	
	**		******	••••	
			9240	25 September 1916.	
<b>684</b> , 1 1			3050	12 March 1916.	
		, ,	•		
		••••	F#3+48	•••••	
			· ·		
				••••···	
		F 4 4 4 0 0			•
			3		- -
2,938 0 0			······		

.

. .

# 100

# APPENDICES.

FORM No. 9 - Record of Demarcation and Maintenance of Boundaries, 1916-1917.

· _			·	•	· .					
Division.	Length of Boundaries artificially domarcated		Length of previously existing Boundaries	Total length of artificially marked Boundaries	Length of Boundaries still to be domarcated	Length of natural Boundaries not requir-	Total length of Bonndaries at the close	Expenditure ( During 1	ON DEMARGATION ME YEAR.	Romarks.
-	daring the year,	Boundaries repaired.	not repaired.	nt the close of the year.	at the close of the year.	ing artificial marks.	of the year.	On new work.	On repairs.	
1	2	. 8	` <b>4</b>	5	6	7	8	9	10	u
NORTHERN CI3CLE.	Miles,	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs. a. p.	Rs. a. p.	
Panch Mabáls		, 950	· ,	939	*****	101	1,060	* ····s	61 0 0	-
Surat 🐂	- ett.tes u	835	466488	• 835	***	′ 103	033	ever	68 0 0	
North Thána		027	144164	£27	<b>41617</b> 9	19	940	<b>Milio</b>	451 0 0	
West Thána	105.000	755	140 010	755	001 <b>786</b>	32	787		503 0 0	
East Thána	3	1,390	48 * 886	1,393	39	141	1,573	. 50 0 0	281 0 0	
North Násik 🚥	- 8	1,541	**1•36	1,547	63	190	1,800	33 0 0	533 O G	
South Násik	<b>78 8</b> 2 90	1,251	•*****	1,251	1	73	1,825		109 0 0	
Násik Sub-División .	Pad 050	717	<b>\$</b> \$\$404		*** 114	59	776		88 0 0	
Tetal, Northoru Circle	6	8,378		6,384	103	718	9,205	83 0 ♦	1,841_0_0	
CENTRAL CIECLE.				•	<u></u>				•	
East Khändesh	Par 144	2,183	<b>P</b> T & or o	2,183		107	2,290	611956	163 0 0	
West KhAndesh 🛛 🕳	28	817	•	* 843	******	67	910	132 0 0	539 0 0	
North Khándesh 🛼	*****	809	••••	309	·····	52	301		870 0 0	
Poons	68	10	8,131	8,212	121	, 451	9,787*	<u>421 0 0</u>	803 0 0	• The difference of 1,249 miles between the last and this year's faures is due to restifications
litāra 🔐	*** ***	8	4,246	4,254	-	80	4,334		450 0 0	and this year's figures is due to rectification.
ζslába	192	1,797	••••••	1,989		72	2,061	2,543 0 0	671 0 0	The difference of 91 miles between the last and this
Total, Central Circle	266	F,121	7,380	12,750	124	829	18,743	8,096 0 0	2,591 0 0	year's figures is due to rectification.
SOUTHERN CIRCLE.			-			·	•			
Kánara, Northern		- 100 mg	623	624	******	14	638	<b>4</b> 00.	8.0.0	
Do. Eastern	pro104	80	1,533	3,563		31	1,501	644 (M)	207 0 0	
		• •						14 - A		
Do. Central	<b>3</b> 0	10	3,791	8,631	. *** ***	108	8,042	· •••	17 0 0	

FOBM No. 9.—Record of Demarcation and Maintenance of Boundaries, 1916-1917-concluded.

Division.	Length of Boundaries artificially demarcated during the	Boundaries	Longth of previously existing Boundarics not	Total longth of artificially marked Boundaries at the close	Length of Boundaries still to be demarcated at the close	Length of natural Boundaries not requir- ing artificial	Total length of Boundaries at the close	EXPRIMITURE OF DURING T	T DEMAECATION HE TEAR.	Remarks,
	year.	repaired.	repaired.	of the year.	of the year.	marks.	of the year.	On now work.	On repairs.	
1	2	8.	- 4	5	6	7	8	9	10	11 .
SOUTHERN CIRCLE-concluded.	Miles.	Miles.	Miles.	Miles.	Miles,	Miles.	Miles.	· Rs. a. p.	. Rs. a. p.	
•		-			· ·					
Kánara, Southern 🟎	480	******	3,040	4,426	******	100	- 4,526	501 0 0	241990	
			• -							
Do, Western	24	•••••	1,812	- 1,636	. 24	152	2,012	(a) 1,534 0 0	*****	(a) Includes Rs. 233 wages puid for last year's work
Belgaum	~ 6	15	· 1,753	1,774	114	141	2,029	419 0 0	105 0 0	•
					· · ·					
Dhirwar—Bijapur .	*** +48 *	540	675	1,215	8	20	1,2;2		115 0 0	
Ratnágiri 🔐 💀			140	140	*1\$749	70	210		<b>.</b>	
		·								
Total, Southern Circle	547	595	14,270	15,413	140	Č45	16,2(3	2,461 0 0	451 0 0	
SIND CIRCLE.	Miles. ft.	Milcs. ft.	Milos.	Miles, ft.	Miles.	Miles. ft.	Miles. ft.	``	· ·	
Sukkar	1 3,168	920 836		927 4,094	•••••	181 098	1,103 4,992	\$1401 <b>0</b>	***	•
•	÷			•						· .
Larkáva ••• •••	1 1,320 -	504 4,214	******	508 254	•••••	76 701	552 958	• •••	****	
Hyderabad	11 2,708	330 8,200	610 <sub>264</sub>	851 690		185 1,859	<b>5</b> 30° 2,*45	a taoa t	542143 ·	
Hyderabad	<b>1 1</b> ,100								•	
Jerruck	1 2,310	251 4,037	, 688 sey	253 1,067	1+20+7.0	232 5,050	466 837	<b>4</b> 50.748	***,**	
Yotal, Sind Circle	15 4,231	2,022 1,787	195066	2,038 731		675 8,321	2,713 4,952	 ,,,,,,,		
•		·		<b>.</b>	 · •		41.004.4.000		4,863 0 0	•
GRAND TOTAL	854 4,224	16,119 1,767	21,650	39,624 731	878	2,867 8,321	41,964 4,052	5,646 0 0		•
					-	.		· I	• [	

•

		•	``		· · · · · · · · · · · · · · · · · ·							EAB S	URVEYED .	AND UND	er, su	BVE:
	- Sri	ICIAL S	URVBYS-	-MAPS O BTMBNT	or 4" scale or or Forket Su	OVRE, BY S BYEY BRANG	ORVEX SU.	01		OR	DINARY	, INCLU	DED IN DIST	BICT SURV	BY5.	
Division. •	. <u></u>	. V	7ith Inter	ior Deta	ile.	Bounda	y Surv	eya.		With	Interi	ior Det	ails.	Bounda	ry Surv	0 <b>75.</b>
		wing	With detail Growing	10 E	Total cost.	Previous.	Of the year.	Totai Cost.		dotails owing ck.	deta Gro	hout ils of wing ock.	Total Cost.	Previous.	Of the year.	Tota
	Pre- vious.	Of the year,	Pre- vious.	Of the year.			Jean		Pre- vious,	Of the year.	Pre- vious,	Of the year			]	
1	2	8	4	5	6	7	8	: 9	10	11	13	13	2 <sup>14</sup>	15	16	17
CIRCLE.	Şq. m.	Sq. m.	Sq <b>, m</b> .	8q. m-	Rs. a. p.	Sq. m.	Sq. m.	Rs.	8q.m.	Sq. m.	Są. m.	Sq.m.	Rs.	8q. m.	Sq. 10,	Rs.
Reserved Forest. anch Mahals	•••	+14		<b>5</b> -1		819448	•••	•••			***		******			•==
orth Thána 🚥	9449' 119	•••• •••	•••	878 875	688 1 m2 Bayend	440 <b>409</b> 624766		- 143 - 144	••* •••	••••	884 884	114 744	481148) 488448	+1+ +++		9994 4994
est Thána 🛶		·	 	407 307	874 5×0 888	467 ang 1677 ang			•••		• * • • • •		****** *****	• \\0 4 • •	416 141	
onth Násik orth Násik	••• •••	411 	949 144	194 999 (	414544 971 <sub>414</sub>	965 × + + 5		••• •••	- 44 - 44	 			492-94 850-98	, , <b>9</b> 99 898	174 410	1995 1997
asik Sub-Division . hmedabad ···	944 944			•••	and say that gas	494 pab		***	135 080		197 416	••• •••	807448 8 <b>9</b> 7448	***		рні. 199
Total	94%							'				•••	·····			
Protected Forest.					•	- <del></del>										
urat					414.9M	196 rab					A44					
lorth Thána	-	***			anter Bababa			4945 195	4+3 990	 	••••			41- 841		448 412
ast Thána 👘 🐜		498 750			*******	******	•••• •••		•••	• 	 	••••		1 .		61.P
and Wanth and	· ·				`	· · · ·						•				
otal, Northern Circle	1	•••			9781.pt			***				- <u></u>				
	· #4				ter	*******										••
CENTRAL CIRCLE, - Reserved Forest.					,											
last Khändesh Vest Khändesh			229 676	,	*****	#18.000	-	***			497	10	Not known		27	400
orth Khandesh			646	44.	******	202723 440724		411 469	•••	••• ••	1		686440 #86748	96		494 828
ALOO		<b>.</b>	<b>5</b> 25		*****								*****	Pab		
átára		***	530		,,,,,,	<b>***</b> •••		5 					a			
lolába	•••		450		*****	******										
lagar & Sholápur	<u></u>	<u> </u>	787	.:.	#=6 tdp	6417-9							******			
Total			8,793			*****		400			498	10	*****	96		
Protected Forest.		{														
oons			1 11		111114								*****			
lolába		640 865	-74		. 88478 <b>8</b> 996044	101100 101100		648 <sup>(</sup>	,		100		****	***	 200	***
Total			86	•••		******		•••				10		•		
'otal, Central Circle,		+1.9	3,879			****					408	10				
SOUTHERN CIRCLE.																
Kánara, Northern					* ******					- 14						•
Do. Bastern	•	-			449.58				-	]		· •••			***	••••
Fo. Central		•••	-		- 8117458	******					114		* <b>3.</b> 3+3+48	***	4++	<b>***</b>
Tánaza, Southern						-		880			499		****	***	•••	***
Do, Western					-				·					797 719		304
Selgaum					••••				- +++			•••	******	999 · ·	- 194	
hárwar—Bijápur,				1	41144	*****		196			104	101	<b>6</b> 11,00 <b>9</b> •			***
atnágiri	·			<u>`</u>		******		194					******	***	474	
fotal, Southern Circle								·								
SIND CIRCLE.		-		·									**		1+4	***
ukkor							1.	}	ļ .		ļ	1				
árkána 🔐	1					******							******			
Iyderabad "					ļ .	* ******		•••			7~	•••	1 902.000.			
erruck	]					64,149 <b>6</b>		***		444	49.0		*****1			4
otal, Sind Circle						******	·				•		***	·		
GEARD TOTAL			3,879		¦	******				•16			494444	· •••		***
	1	1	1 -10,0		-104 ptg	***.**	1 144						and the other designment of th			

.

# FORM No. 10 .- Statement of Forest Areas Surveyed and

.

'. .

.

.

# under Survey during the year 1916-1917.

				COST.										AB.	E YE.	VG TH	OURI.
					T	•		Total Forest area at	Areas		VEYS BY	nibe Sue Bes.	SS OR 07 L OFFIC	Compa	N AND	Спл	
Remark			Batire do					end of the year as per	remain- ing to be taken	еув.	iary Surv	Bonn	s.	Detail	nterior	With I	
·			all Surve to end of year.	f tho year.	C	1 <b>6</b> .	Previou	Forms Nos. 7 & 7A.	under Survey.	Total	Of the	Pre-	Total	dor ich.	Un 4-iu	h or er.	4-inc 07
•	•								-	Cost.	year.	vious.	Cost.	Of the year.	Pre- vions.	Of the year.	
\$1			80	29	-[-		28	27	26	.~ 25	24	23	21	21	20	19	18
		. p.	Rs. a	Rs. a. p.		a. p.	Rs. a	Sq. m.	Sq. m.	Rs.	Sq. m.	Sq. m.	Rs.	Sq. m.	Sq. m.	Sq. m.	q. m
		•	949 1865.00	4+4+++ +++++4		•	938* <i>*</i>	<b>3</b> 32 412 325		•10	•••	•••		::	•••		411 411
				******		•	*****	809 450		***			***	•••	•••	***	•••
			#8	******		•	*****	346 519		***	616 878	***	***	•••	 200		***
			*****	****** ******			69394 693 <sup>83</sup>	296 19		***	***	•••	++E #89	•••	•••	•••	•••
				******	-			<b>│</b>	<u> </u>				· •••				
			<u>a</u>		- -			3,018			•18	<u> </u>					•••
•				4	ł			825				S			•••		
		,				-	*****	145 106							***		•••
			600446 418 84	*****		•	* *****	142 96			***		•••			***	•••
•		<u> </u>															
			<u> </u>		-			814 3,832		•m	•••	•••	•••		_ •••	***	***
	1		******		- -		•••••••										·
•	-	•					-				-						
		0 0	24,034 63,091			0 0	24,084	800 773	87				04 <i>g</i>			•••	
		0 0	1,371	(11 190 199 î.g		0 0	63,494 1,371	869	223	•••		•••	, 449 184	•••	•••		***
_		οó	1,11,290	*****	)	0.0	1,11,293	1,010	494							•••	•••
N	N	0.0	62,569		,	0 0	62,58)	710	181	•••	•••	· •••			***	•••	•••
Not known.	Pot		N.7			ţ	Nil	450	-		418		·		***		<b></b>
		0 0	91,230		)	0 0	91,290	702	41						•••		•••
		00	8,54,238 *7,085			0 0	3,54,233 •7,085	5,814	976						•••	ę.e	
					-					<u> </u>							<del></del>
		-					*****		   m	•••• ` •••		•••	-117				
				*****	_ _			74		•••			***	::			***
			*** e**		_ _			86		488	•••		.,,,				••••
		0 0	3,61,323		4_	0 0	3,61,323	. 5,400	976		••••	•••		,		<u></u>	 7
									·				-				ŗ
				1				h		-++	••••		- 489		-17		***
								,		•••	***	. <b></b>	409			***	<b>9</b> 44
		0 0	3,90,231	····••.	'	0 0	3,90,231	3,386		, <b></b> ,			•••	•••	•••		
			-							-10	49.9	•••					•••
				-				; ·		<b>F48</b> 4		•••	,	•••	144	•••	-
			57,104	******			57,104	682		•••	"	***		` <b></b>			•
			15,268 681	*****			15,208	496	276		- **		-115	•••		41	•••
			Dor		-[	0 0		<u>19</u>	·				·	- <u></u> -`	••• 		•••
		0 0	4,63,184	······	-	0 0	4,63,184	4,583	276	***							••• *****
				man	ļ			459		-			1				
		·			1			231		<b>9</b> 4		•••				•11	<b>646</b> ,
								258			***		• •••	<b>.</b>	***		. 179
		<u>ا</u> ه د	11,097					208		 2,902		208	••• 9,095				***
			11,997		- -			1,174	·	2,002		208		····		· ,,,i	652
											***		9,005	***	144		. 652

• Represents cost of arrear mapping and cannot conveniently be distributed amongst the several Divisions, including South and North Násik.

104

# APPENDICES. FOBM No. 11.—Progress made in Working Plans, 1916-1917.

Division,	AREA UNDER SANCTIONED WORKING PLANS.						ARBA NOT UNDER WORKING PLANS.			REVISIONS.			ng Plans			
	At commancement of year.	Added during year.	Pednoted during year.	Actual aros.	Porcentago of 5 total forest area (as shown in column 10).	Plans under preparation.	Bognired at by breast	Not required at plesent.	Total forest area in Form No. (Total of columns 5, 7, 8 and	Due or required.	In progress at end of year.	Bevised Plans sanctioned during year.	Expenditure <sup>e</sup> on Working during the Scar.	Remarks.		
1	2	8	4	Б	6	7	8	9	10	11	12	13	11	· 15		
ORTHERN CIRCLE.	Sq. m. (	Sq. m.	Sq. m,	Sq. m.	Percent.	Sq. m.	Sq. m.	Sq. m.	Sq. m. }	8q. m.	Sq.m.	8g. m.	Rs.			
auch Mabáls	332	948		<b>3</b> 32	103	<del>61</del> 4				219	114	146	*** ***			
urst	69	441'		69	100		-		<b>6</b> 9	69	-13		,, <del>7</del>			
orth Thána	325	-11	• •••	825	100	+18		•••	825	••• 0	325	449				
est Thána	309			- 309	95 9		13		322	**4	\$09		p			
st Thána 👘	459	-		459	83-8		1		460	81	375	242		· ·		
ath Násik	315	· •••		• 315 .	92'6			25	340	915		-				
rth Násik	<b>40</b> 0		-	400	60.8	- 14		94	494	400			B3-++4	•		
ásik Sub-Division 🚛	179			179	69'3	-		79	253	179	••• •••	•••				
Total	2,338			2,338	91.8		14	198	2,600	1,205	1,1 23	168				
eased Surat 🦡	383	•••		328	<b>69</b> -2		267		655		***					
otal, Northern Circle .	2,776		•••	2,776	85-3		281	198	3,255*	1,205	1,123		asses -	• Exclusive of the area in charge of the Revenue Repart meet.		

# FORM NO. 11-Progress made in Working Plans, 1)16-1317-concluded.

•		ABEA NOT UNDEB WOBEING PLANS.			n No. 7	-	REVISIONS.		Plane	· · ·				
Division.	nt of the	ie yenr.	during the	At elo yes	ur.	aration.	Plans n prepa:	ot under ration.	5.5		end of	sanctioned	Working	Bernaha
	At commoncement year.	Added during the year.	Deducted dur year.	Actual area.	Percontage / of total forest area (as shown in column 10).	Plans under preparation.	Required p present.	Not required a present.	Total forest area (Total of columns	Due or required.	In progress at year.	Revised plans st during year.	Expenditure on during the year.	Remarks.
1	2	_ 3	4	5	8	7	8	9	10	• 11	12	13	14	15
CENTRAL CIRCLE.	Sq. m.	fq. m	8q. m.	Sq. m.	Sq m.	Sq. m.	Sq. m	59. m.	8q. m.	£g m	. Eq. 111	5q. m.	Rs.	
East Khändesh	749	542	, .tek	749	98.2	•••		15	704		*400			*Chopdo, Raver and Yaw forests,
West Khändesh	180			180	83-3	•••	151†	265	<b>59</b> 0	50		•••	*** ***	Fq. n Nawapur 96 Nandurbar 157
North Khándesh	564		•••	564	64·D	3051			808-7	•••	- 504	<b>,</b>	*****	1 Devmogra Reserves. Akrani 30 Shirpur (newly afforested
Kolába	416	•••		416	98-8	.***		5	421	- - - -	•••			arch) 0.7 304-7 Shirpur, Shahada and Taloda.
Poona 🔹	, 328		85	320	56.6	72	<b>.</b>	173	505		320		   ^	§H anded over to Revenue De partment.
Sátára •	64			64	12.3	97	•••	255	516	 •	••• .			
Total, Central Circle.	2,301	·	8	2,263	61-5	474	151	813	3.731¶	50	1,284	••••		This is exclusive of the are in charge of the Revenu Department.
SOUTHERN CIRCLE.					•	•						-		
Kávárs, Northern	350			850	62 2	42	•	.34	428	107	107	(a) 61	<b>3,</b> 581	(a) The Bhagwati Plan special allowance of Rs. 366-10-9 wa paid to the Working Plan Officer.
Kāpara, Eastern 🔩	331		(0)51	277	47-0	. 78		235	500	157	157	(ð) 30		(b) The Kirwatti Plan specia allownnce of Rs, 100 was pui to the Working Plans Otheor,
Kái ara, Contral - `	.224	(c) 54	•••	278	83-3	- 1	104	430	833		26			(e) Area transferred from Kanara, Eastern Division, to Kanara, Central Division.
Kávara, Southera	71	•••	-	71	10.0	-97		-540	708			· · · ·	,	
Kárara, Western Belgaum	• 258 . 182	 (d)149	•••	258 331	31·1 48·5	••• 305	406 - 111	571 48	8.39	168	 168		23	(d) The Gokak Range Fue Plan special allowance o Rs. 500 was granted to the Divisional Forest Officer, Bel gaum, for compiling this Plan
Dhárwár-Bijápur Rataágiri		•••				253	59 	204 19	496 19				<b>4,</b> °20 	
. · ·						<u> </u>			<u> </u>	<u> </u>				
Total, Southern Circle .	<u>)</u> 1,416	149	411	1,565	3i·1	756	163-	2,099	4,583	452	458	01	8,124	
SIND CIRCLE.	Sq. m. ac.		Sq. m. ac.	Sq. m. ac.		-	Sq. m. ac.	Sq. m. ac.	Sq. m. ac.	Bq. m. ac,	Sq. m. ac,	Sq. 111. ac.		
Sukkur	419 547	- m		419 547	91-59	13.277	•	26 74	459 258	459 258	• •••	1	624 19 <b>8</b>	· ·
Lárkázs	203 176	. 70		202 176	87.0		4 44		231 98 257 555	***	222 490	~~	6,801	
Hyderabad Jerruek	225 142 225 281	 	·	225 142 225 281	87*34 99*8	•••	8 263		257 555 225 542		 	•••	······································	•
Total, Sind Circio			i	1,072 506	91.4	13.277	12 307		1,174 178		·	  91	6,801	
GRAND TOTAL	7,585 508	149	8	7,706 506	60.2	1,243 277	607 307 3	3,185 <b>36</b> 3 ]] 	2,743 178	z,206258	3,039490	PT	18,920	

.

D 15-27

		}	••		Year in	Area up t	o date.	Estimated annual output (cubic				
Livision	Livision.		Name of Wor	60	which notioned.	To be worked.	Actually worked.	Teak,	Junglewood.	Fuel.		
1			3				3	- 4	5	6	7	. 8.
			· · ·		•	Î		.Aores.	Acres.	. Cft.	Oft.	Oft.
		d	Supa High Forest Plan	Blocks I	to VII		1895	]	of furniture	. 08	85	ano 110
•		-]]	Bhagwati Plan, Blocks	VIII, IX	and XX		· 1916	} ed by Di	e not furnish- visional For-	78	19	* +58+++
	•		Haliyal Teak Pole Plan	L	•••		1904	est Offic	er .	No estimate	givon Cou	pes to be c
inara, Northern	•••	11	Plan for Block VII-A .		***		1915	108 -	108		******	المعالم
			Dhārwar Plan	-	***		1900	11,412	11,412	, in.	419-11	
		• U	Kalghatgi Plan	•••	•••	. I	in the press.	} }				******
			Tallfaux Glause Dian			- {	1005	. 100	1 100	23	、	•
			Yelläpur Slopes Plan		•••	"	1905	1,100	1,100	39	***	
			Yellápur Aboveghat Pla	30	***	{	1905	54,287	48,009	. 30	*** ++*	*
Do. Eastern	••••	{	Mundgod High Forest	Plan	***	•	1908	20,541	16,024	21	<b>953</b> *48	*****
			Mundgod Teak Pole an	rea Plan	- 444		1909	6,940	6,946	15		187
		્ય	Kirvatti Teak Pole Pia	D	•••	{	1916	******			******	
			Ankola High Forest P	lan	***		1910					
		į	Ankola-Kumta Cosst I				1912		}			
Do. Central	{	Sirsi Fuel Plan				1914	} `	Particulars	not furnished	by the Divis	ional Fore	
		ł	Yekambi-Sonda High	Forest Plu			1915	} <b>}</b> ·				
								[				
	,	{	Honáwar Tali Palm Pl				1000	h				1
Do. Southern		{	Kasarkod Casuarina P				} }	}}	Correct par	ticulars not	furnished by	the Divisio
- -			Chandawar Fuel Plan		***		1915		1			
		ι	Soppin-hosalli High F	orest Plai	n	•••	1913	P .	{			
		ſ	Gund Plan	•••	***		1696	14,188	9,651	63	<u>,</u> 4	
			Kalinadi Slopes Plan	***	441 ·		1911	5,173	4,604	4	55	*****
			Supa Fuel Plan	•••			1906	9,903	4,032	Not estimat		******
Do, Western	•	{	Kárwár Fuel Plan		***		: 1903	13,121	9,651		,	1,150
•		Į			•		1	1			#*31P\$	
			Casuarina Plantation		***	•••	1911	55	55	{	*****	25
• • •		Ĺ	Radra Teak Plantation	n Pian	***		1910	712	760	Output no 	t estimated.	******
		ſ	Galihalli-Godoli Teak	Pole Serie	es, I, II	{	1900	h	1 .		}	
		ł	Nagargali Plan	•••	•••		1915	.	1	{		
Belgaum		{	Khánápur Fuel Reser	ves Plan	•••		1903	}	Particular	not fur.ish	ed by the Div	isionalFor
			Varkhad Hemadge Pla	un (	····		1906	}}	{	. <del>.</del>		
		4	Gokák Fuel Plan	••	++#		<b>.1916</b>	μ.	{			
·			Banképar-Hungal Pla	n .			(In the pres				•	,
háiwár-Bijápur	<b>,</b> ta	{	Bijápur Plan		***		(Under pres	1 '	*** ***	*****	aus ===	*=
		-					Cowart hte			*****	*****	
latnágiri			1					1	1			

•

Belgaum, 29th September 1917.

. .

106

.

eet in thous	ande).		<u>ا</u>	Actual ontp	ut for 1916	-17 (cubic feel	in thousand	s), <sup>-</sup>	•
Other produce.	Gross value.	Net profit.	Teak.	Jungles Wood.	Fuel.	Other produce.	Gross value.	Net profit.	Brief statement of reasons for strears.
9	10	11	12	13	14	15	16	17	18
falue Rs.(in thousands). 24	Rs. in thousands.	Rs, in thousands. 252	Oft. 119	Cft. 79	· Oft.	Value Rs. (in thonsands). 46	Bs. in bousands. 634	Re, in thousands, 491	
61.FT-B	98		180	84	11	23	40		
o moet dem	3		146	87	177	******	78	]]	
4×2 <b>100</b>	r 1014	-	106	. 85	117		39	235	
191111	-	tie ne	109	\$5	180		44		· ·
	******	Padava	2	10	81		1		•
*	84	17	<b>5</b> 9	1			95	( 1 00	
				-					
##5gs+	<b>\$</b> 8	30	146	43	-1-		273	181	Difficulty in procuring labour and transpor
40 y v v V	83.	24	25	2	***	*****	- 43	27	Do. do, and large excel in the number of ansound trees over the estimate.
499 jau	Coupes sold standing.	11	Coupes sol	d standing	-10		Ibland	17	
*****				- 12	-++	447×48	******	**4 3=0	
1			1 1				u l	{ ·	
1									•
filcer,			1		•				
. •			ł.				l	1	
			] .]					1	•
19		·				Ì		1	
Forest Off	CO I.				,				
			] .]				,	ļ	
11×44	58	. 32	52	1	• •••	· · ·	89	71	Follings are 8 years in arrears for difficulti of exploitation and transport.
	=0	26	6	19		[	83	` 2	Baroly one year behind hand.
	50				925	· 100141	68	13	Arrears due to distance from the M, and S. 1
-46°-69		545		•••	620			)	Rallway line for which the fuel is expected
*****	Not estima- ted.	10		62	10,072	******	15	15	No arrears. The deficit in area represen unworkable coupes.
*** ***	4	8			52		5	8	
			1	•••	- ere		2	2	
								·	
					•	4			
-		•	1	-	-				
ficer.						1			
						· ·			
	· • -		[ ]	1					
	149441			}	41	******	*****	- 20,000	
808500 p		******			- 994 - 24		<b>***</b> ***		
				1			<b>1</b> .		
444444 -		*****	444			* u03 yto.		194.40 ·	

\_\_\_\_\_ T. R. D. BELL, Conservator of Foresis, S. C. • . 2 . .

107

-

108

## APPENDIORS,

# FORM No. 12.—Statement showing communications

I     Hend quarter houses.     Ros bouses.       I     2(a)     2(b)       NORTHERN CHRCLE.     Rs. a. p.     Rs. a.       Pauch Maháls         Surat         North Thána         North Thána         North Thána         North Thána         North Thána         Vest Thána         Total, Northern Circle         Nath Khándesh         Nath Khándesh         Nath Khándesh         SOUTHERN CIRCLE.									14 V 18 V 19	nowing	CO Mente Or	nication
Discision.       Exp         Hend       Res         1       2(a)         XORTHERN       Rs. a. p.         Pauch Mahéls          Surat          North Thána          North Thána          North Thána          North Thána          North Thána          Vest Thána          Total, Northera          CENTRAL       CIRCLE         East Khándesh          North Khándesh          SOUTHERN       CIRCLE         Kánara, Northern          Kánara, Cautral          Kánara, Western          Manara, Western          Ratnágiri          SiND CIRCLE       323 6 10												_,,
Discision.       Exp         I       2(s)       2(0)         NORTHERN CHRCLE.       Bs. a. p.       Rs. a.         Pauch Maháls           North Thána           Vest Thána           Total, Northera Cirole           Total, Northera Cirole           Nath Khándesh           Nath Khándesh           North ClaCLE.           SOUTHERN CIRCLE.           SOUTHERN ClacLE.           Kánara, Cantral           Kánara, Soathern           Kánara, Western           Balgaom           Dhárwár-Bijápur		· ·.	· New	works and	ertaken d	mring the j					1	<u></u>
I     I       1     2(a)       NORTHERN CIRCLE.     Rs. s. p.       Pauch Mahéls        Surat        North Thána        West Thána        Vest Thána        Total, Northera Circle        Total, Northera Circle        Vest Khándesh        North Khándesh        Total, Central Circle        Vest Khándesh        North Khándesh        North Khándesh        North Khándesh        North Khándesh        Rast Rafina        Kánara, Central        Kánara, Central        Kánara, Central        Kánara, Central        Kánara, Central        Rainágiri        Total, Bouthera        Circle        Balgaom        SiND CIRCLE,     323 6 10	Building	<b>.</b>		<i>.</i>		Roads an	đ paths.			-	Other works.	
AussionAussion12(a)2(0)NORTHERN CURCLE.Bs. a. p. Rs. a. CURCLE.Rs. a. p. restPauch MaháisSuratNorth ThánaWest ThánaWest ThánaWest ThánaTotal, Northern CircleTotal, Northern CircleWest KhándeshYoshaWest KhándeshNath KhándeshNorth ERN CircleSOUTHERN CircleSOUTHERN CircleKánara, CantralKánara, CantralKánara, CantralKánara, WesternBalgaumDhárwár-BijáparTotal, Southern CircleKánara, CantralRatnágiriJárságiriKánara, CantralKánara, CantralKánara, CantralKánara, CantralKánara, WesternKánara, CantralKánara, CantralKánara, Western	rponditure on .		Cart	roads.	Bridi	e paths.	Ot	hers.				Total espen-
NORTHERN CIRCLE.       Rs. a. p.       Rs. a.         Pauch Mahais           Surat           North Thána           West Thána           West Thána           Vest Thána           Total, Northera           CENTRAL           CIRCLE           East Khándesh           North Khándesh           North Khándesh           North Khándesh           North Khándesh           North Khándesh           Vest Rhándesh           North Khándesh           Northera           SOUTHERN       CIRCLE          *Kánara, Cantral           Kánara, Cantral           Kánara, Western           Belgaum        48 </td <td></td> <td>Others.</td> <td>Length.</td> <td>Cost.</td> <td>Length.</td> <td>Cost.</td> <td>Length.</td> <td>Cost.</td> <td>Total length of paths or roads.</br></td> <td>Total expon- difure incurred.</td> <td>Expen- ditura incurred.</td> <td>diture on new Works.</td>		Others.	Length.	Cost.	Length.	Cost.	Length.	Cost.	Total length of paths 	Total expon- difure incurred.	Expen- ditura incurred.	diture on new Works.
Pauch Maháls            Surat            North Thána            West Thána            East Thána            South Násik            Total, Northera            CENTRAL CIRCLE            Vest Khándesh            Narth Khándesh            Narth Khándesh            Narth Khándesh            Narth Khándesh            Narth Khándesh            SOUTHERN       CIRCLE.           Kánara, Northorn        43<0 (	b) 2(c)	2(d) 3	4(a)	4(8)	4(c) .	4(d)	4(e)	4(f)	6	6	7	. 8
Panch Maháis Surat Narth Thána West Thána Last Thána South Násik Total, Northern Cirols CENTRAL CIRCLE. East Khándesh Narth Khándesh Narth Khándesh Narth Khándesh Narth Khándesh SOUTHERN CIRCLE. *Kánara, Northern 43 0 ( 84 1 Kánara, Central Kánara, Central Kánara, Soathern Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Soathern Kánara, Western Kánara, Western SIND CIRCLE. SUND CIRCLE. SUND CIRCLE.	a. p. Bs. a. p.	Bs. a. p. Bs. a. p	. Milca.	Rs. p. p.	Milos.	Ba, `a, p.	Miles.	Rs. a p.	Miles.	Rs. a. p.	Rs. a. p.	Rs. z. p.
North Thâna	n	***			417	.,	••••	·		***		
West Thána Last Thána South Násik Total, Northern Cirols CENTRAL CIRCLE. East Khándesh West Rhándesh North Khándesh North Khándesh North Khándesh North Khándesh North Khándesh Total, Central Circle 43 0 c 84 c Kánara, Northorn 43 0 c 84 c Kánara, Cautral Kánara, Cautral Kánara, Soathern Kánara, Western Kánara, Western Kánara, Western Ránara, Western SIND CIRCLE. Sukl S23 6 10	g: [·{	3,750 0 0 500 0 0 }4,250 0	0, 111	10,009 0 0	-91	***	. 418 .	.41	11	10,000 O O	1,120 0 0	15,370 0 0
Last Thána           South Násik           Total, Northera Cirele           CENTRAL CIRCLE           Vest Khándesh           Narth Khándesh           Poona           Jilára           Kotal, Central Circle           SOUTHERN CIRCLE           SOUTHERN CIRCLE           Kánara, Northern        43<0 c	{ 4,725 0 0 3;215 0 0 5,167 0 0	3,107 0	0 51	<b>3,410</b> 00	•••		•••		5ł	3,410 0 0	<b>4</b> 05 0 0	16,923 0 0
South Násik Total, Northern Circle CENTRAL CIRCLE. East Khándosh West Khándosh Narth Khándosh Narth Khándosh Narth Khándosh Narth Khándosh Narth Khándosh Narth Khándosh SOUTHERN CIRCLE. * Kánara, Northern 43 0 ( 81 ) Kánara, Central Kánara, Central Kánara, Central Kánara, Central Kánara, Southern 43 0 ( 81 ) Kánara, Central Kánara, Southern Kánara, Western Kánara, Western SIND CIRCLE. SIND CIRCLE. Sukk-rr 323 6 10			1	677 0 0	<b>.</b>				1	077 0 0		677 0 0
Total, Northern Circles          CENTRAL CIRCLE          East Khándesh          West Rhándesh          North Khándesh          Poona          Bilára          Total, Central Circle          Total, Central Circle          SOUTHERN CLRCLE          SOUTHERN CLRCLE          Kánara, Northern          Kánara, Cantral          Kánara, Cantral          Kánara, Western          Bolgaum          Total, Southern          Kánara, Western          SIND CIRCLE,          Sukhtrr          SUND CIRCLE,          Sukhtrr          SUND CIRCLE,          Sukk-rr          SUND CIRCLE,          Sukk-rr          SUND CIRCLE,          Sukk-rr          SUND CIRCLE,          SUND CIRCLE,			0 11	2,000 0 0			· •••			8,000 0 0	<b>*</b> **	2,060 0 0
Total, Northera          Circle          CIRCLE          East Khándesh          West Khándesh          Narth Khándesh          Poona          Bilára          Total, Central          Circle          SOUTHERN          ClacLE.          Kánara, Northorn          Kánara, Cantral          Kánara, Cantral          Kánara, Western          Bolzaum          Total, Southera          Sinora, Cantral          Kánara, Western          Bolzaum          Sinora, Bouthera          Gircle          Sind Gircle <t< td=""><td></td><td>•••• •••••</td><td></td><td>\$26 0 0</td><td>***</td><td>•** </td><td></td><td></td><td>10</td><td>926 0 0</td><td>1500</td><td>941 0. 0</td></t<>		•••• •••••		\$26 0 0	***	•** 			10	926 0 0	1500	941 0. 0
East Khándesh West Rhándesh Nuth Khándesh Poona witára Total, Central Circle SOUTHERN CLRCLE. *Kánara, Northarn 43 0 ( 84 0 Kánara, Cantral Kánara, Cantral Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Southern Kánara, Cantral Kánara, Western Kánara, Western Silnd CIRCLE, Suklarr SIND CIRCLE, Suklarr Silnd CIRCLE, Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklarr Suklar	13,167 0 (	\$,250 0 017,417 O	0 39	17,013 0 0	-		in .	··· '	89	17,013 0 0	1,540 0 0	35,979 0 0
Last Khándesh West Rhándesh North Khándesh Poong sitára Total, Central Circle SOUTHERN CIRCLE. *Kánara, Northorn 43 0 ( 84 ) Kánara, Cantral Kánara, Cantral Kánara, Soathern Kánara, Western Kánara, Western Ránara, Western Kánara, Western SIND CIRCLE.											·	
West Khándesh Nath Khándesh Poona äitára Kolába Total, Central Circle SOUTHERN CIRCLE. *Kánara, Northorn 43 0 ( 84 ) Kánara, Eastern Kánara, Central Kánara, Central Kánara, Sosthern Kánara, Western Kánara, Western Kánara Southera Sind Circle 48 0 C 574 ( SIND CIRCLE, Sukk-rr 323 6 10	•										703 0 9	708 0 0
Poona           milára           Total, Central Circle           Total, Central Circle           SOUTHERN CIRCLE.           *Kánara, Northorn        43 0 (         Kánara, Northorn        43 0 (         Kánara, Northorn        43 0 (         Kánara, Cantral           Kánara, Sonthern           Kánara, Western           Bolgaum        490 (         Dhárwár-Bijápur           Total, Southera Circle        48 0 (         SIND CIRCLE,        323 6 10			· · · ·		•••		,44 111		++6	84.0 74.7	400 0 0	108 0 0 169 0 0
<ul> <li>Milára</li> <li>Kolába</li> <li>Total, Central Circle</li> <li>Total, Central Circle</li> <li>SOUTHERN CIRCLE.</li> <li>Kánara, Northern</li> <li>Kánara, Northern</li> <li>Kánara, Caulral</li> <li>Kánara, Caulral</li> <li>Kánara, Soathern</li> <li>Kánara, Western</li> <li>Kánara, Western</li> <li>Mánara, Wester</li></ul>		6 M	9	1,764 0 0						3,784 0 0		1,764 0 0
Kolába Total, Central Circle SOUTHERN CIRCLE. *Kánara, Northern 43 0 ( 84 ) Kánara, Cantral Kánara, Cantral Kánara, Cantral Kánara, Soathern Kánara, Western Belzaum 490 ) Dhárwár-Bijápur Total, Southera Circle 48 0 c 574 ) SIND CIRCLE. Sukkzr 323 6 10	· · ·	- +++ ++++++	1	507 0 0					.1	307 0 70	44 B	807 0 0
Kolába Total, Oentral Circle SOUTHERN CIRCLE. *Kánara, Northern 43 0 ( 84 ) Kánara, Eastern 43 0 ( 84 ) Kánara, Cantral Kánara, Cantral Kánara, Cantral Kánara, Cantral Kánara, Cantral Kánara, Cantral Kánara, Western Mánara, Western Ránara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Kánara, Western Southera SIND CIRCLE. SUND CIRCLE. SUND CIRCLE.		<b></b> 200 0 0		- 1			-		- 416	, <b>44</b> -	***	200 0 0
Circle SOUTHERN CIRCLE. *Kánara, Northern 43 0 ( 84 ) Kánara, Cantral Kánara, Western Solar, Bouthera Circle SIND CIRCLE, Sukkzr Sukkzr Sukkza Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn Sinn	••• 50 0 0	) <u>60</u> 00	-		•••,	•••	····		494	¥11	<b>94</b> 0	60 0 0
*Kánara, Northorn 43 0 0 84 0 Kánara, Eastern Kánara, Central Kánara, Central Kánara, Soathern Kánara, Western Belgaum Dhárwár-Bijápur Total, Southera Circle 48 0 0 574 0 SIND CIRCLE, Sukkzr 323 5 10	250 0 0	250 0 0	10	2,071 <b>0</b> 0	144				10	8,071 0 0	1,177 0 0	9,408 0 0
*Kánara, Northorn 43 0 0 84 0 Kánara, Eastern Kánara, Central Kánara, Central Kánara, Soathern Kánara, Western Belgaum Dhárwár-Bijápur Total, Southera Circle 48 0 0 574 0 SIND CIRCLE, Sukkzr 323 5 10			•	/   ·	•	·					*****	
Kánara, Central Kánara, Soathern Kánara, Western Belgaum Dhárwár-Bijápar Total, Southera Circle 48 0 0 574 ( SIND CIRCLE, Sukktr	0 0 107 0 0	239 0 0	18	4,475 0 0			3	30 0 C	19	4,415 0 0	155 0 0	4,639 0 0
Káuara, Soathern            Kánara, Western            Belgaum            Dhárwár-Bijápar            Dhárwár-Bijápar            Total, Southera        48       0       574         SIND CIRCLE,        323       5       10         Sukkzr         323       5       10	100	**	-	2,204 0 0					•			2,510 0 0
Kánara, Western            Belgaum         490         Dhárwár-Bijápur            Dhárwár-Bijápur            Ratnágiri            Total, Southera        48       0       574         SIND CIRCLE,        323       5       10         Sukkzr        323       5       10			2	377 0 0		-			. 2	877 0 0		• •
Kánars, Western            Belgaum         490         Dhárwár Bijápur            Dhárwár Bijápur            Ratnágiri         48       0       574         SIND CIRCLE,        323       5       10	827 0 0	827 0 0				#1	en+ .					827 0 0
Dhárwár-Bijápar Ratnágiri Total, Southera Circle 48 0 0 574 ( SIND CIRCLE, Sukkar 323 6 10			- 9	8,813 .0 0		516	18	74 0 0		8,892 0 0	<b>m</b> 19 608 6 6	
Dhárwár-Bijápur            Ratnágiri            Total, Southera Circle        48       0       574         SIND CIRCLE,        323       5       10	0 0 52 0 0	548 0 0		2,542 0 0				-	· • •	2,548 0 0		i i
Total, Southera Circle 48 0 0 574 ( SIND CIRCLE, Sukkar 323 6 10	619 0 c											8,718 0 0
SIND CIRCLE.									494	418	400 0 0	1,010 0 0
5ukkar	0 0 1,605 0 0			18,856 0 0			 		•••• 			,
Sukker	<b></b>		-					101 0 0	80	10,900 0 0	15,725 0 0	36 <b>,413 0</b> ·0
lárkéna ·				1		-   		•				
		··· 222 5 1 ··· 257 9		<u> </u>		,				· ••• ·	286 8 0	-659 13 10
isderabed		20/ 9 			9	160 0 0		•••	• 0	150 0 0	561 7 7	969 0 8
ertvek		····				,	····			<b>7</b> 14	••8	
Total, Sind Circle 322 8 10	257 9 2		- 1			150 0 0		····		150 0 0	 787 16 7	1.517 14 6
Grand Total 370 5 10 574 0	0 0 15,279 9 1	4,250 0 0 20,478 14 1	1 108	37,410 0 0	.9	150 0 0	21	164. 0 0				77,307 16 0

. · · ·

# and buildings during the year 1916-1917.

			, 	<del></del>	· 	Repairs e	xocuted o	luring the	Fear,				_		
		Building	9.					Roa	ds and p	aths.			Other works.		-
	) ]	xpenditure Houses	·		Ca	priroads.	Brie	llepaths.		Others.	 Total			Total cxpondi- ture	Remark
Head quarter houses.	Rest houses,	for subordi- nate establish ment.	Uthers.	Total - erpen- diture incurred.	Longth	1	Length,	Cost,	Length	Cost.	length ( paths o roads,	expendicu	ro turo incurred	incurred,	-
9(a)	9(8)	8(0)	9(d)	10	" 11(a)	11(ð)	11(c)	11(d)	11(e)	11(f)	12	13	- 14	15	18
19. a. p.	. Rs. a. p.	Rs. a. p	Rs. n. p	. Rs. a, p	. Miles.	Rs. a. p	Miles.	Rs. a. p.	Miles.	B.s. a. 1	p. Miles.	Rs. a. p	. Rs. a. p	. Rs. a. p.	<u></u>
216 0 0	)	105 0		129 0 (	•••			***				******	91 0	0 223 0 (	D
***		L,509 0 (		1,509 0 (	174	5,915 0 (		***			174	5,815 0	0 651 0	e 7,975 o i	D
•••		311 0 (		311 0 0		318 <sub>0</sub> 00						\$18 0	0	629 0 (	
•••		351 0 (		351 0 0	11	831 0 0	·	•••		- '	u	981 0	0 44 0	0 728 0 (	)
991 201	6 PF4	208 0 ( 228 0 (		208 0 0	1	240 0 0 1,113 0 0	•••		***	···· ·	<b>n</b>   . 11	240 0	۰ - ۲		1
				.			[ <u> </u>					1,118 0	· · · · · · · · · · · · · · · · · · ·	1,339 0 (	}
4 0 0	•••	2,710 0 (	 	2,731 0 0	196	7,917 0 0			•••		196	7,817 0	0 833 0	c 11,283 0 (	
0 0 0		239 0 0		299 0 0	1	<b>497 0</b> 0	<b>14</b> 7		` #1#		61	4.97 0	10	( 797 · 0 c	
 6 0 0	 81 0 0	709 0 0 483 0 0		709 0 0 533 0 0		1,549 0 0 125 0 0	•••	 746 0 0	***	***	2		0	2,258 0 0	
	5600	68 0 0		124 0 0	2	95 0 0	 80	1,157 0 0	***	· ··· .	82	871 0 1,192 0	0 •••••• 0 ••••••	1,404 0 0 1,316 0 0	•
···· .	115 645	233 0 0		233 0 0 290 0 0	- I	3,025 0 0			***	88 0 0	29		0 151 0	0 3,497 0 0	
		269 0 0			7	85 0 0 		••••	•••	 	7		0	375 0 0	
0 0	90 0 69	2,001 0 0	21 0 0	2,188 0 o	114	5,316 0 0	30	1,903 0 0		88 0 0	144	7,307 0 (	152 0	0 9,617 0 0	
0 0	205 0 0	579 0 0		885 0 0	90 2	2,809 0 0					90	2,809 0 0	603 0 0	4,207 0 0	• The follow
0 0	501 0 0	496 0 0		1,311 0 0	60 8	1,695 O O	· •	30 0 0	·		66	3,725 0 0	715×0 0		Items have b excluded :
	425 0 0	436 0 0	·is .	861 0 0	4	113 0 0					4	113 0 0	·8 0 0	963 0 0	Distri Local Bo
	260 0 0	456 0 0	50 <b>0</b> 0	766 0 0	17 1	475 0 0					· 17	1,475 0 0	14 0 0		for repair Local Bo
0 0 1	80 <b>5 0</b> 0	<b>3</b> 28 0 0	107 0 01	,321 0 0		2,519 0 0					52	12.519 0 0	364 0 0		roads
	267 0 0			725 0 0	-	526 0 0		L 06		8.0 0	75	4,534 0 0	59 0 0		Contributi from Distr Local Board
0 0 3 		138 0 0	•	139 0 0		149	· [						45 0 0		let Rs. 4,000 com exclu ed :—
		10 0 0	}	10 0 0			t		••••	-	*****	******			Contributi d to Distri Local Boa
				]-	<u> </u>	<b></b>  _					, mana			1	for repairs Local Boar roads—
0 0 2,4	463 0 02,	666 0 0 :		,017 0 0	208 25	,167 0 0	6	so o o	""    -	800	304	25,205 0 0	1,508 0 0	33,030 0 0	Rs. 5,000
•	6	15 0 5 <sub>1</sub> '	6	15 0 5							{		609 6 11 S	1,124 7 4	-
·		05 9 0	{ -	β5 9 Ó	•••	•••						*****		465 P 0	
: ]		24 7 8 60 3 1		324 7 8 09 8 1		1	•••				481449 014794	····14		1,105 5 8 2,112 3 11	
		14 4 2	2,2	214 4 2 7		<b>_</b>							,593 5 4 4	1,807 0 b	
0 0 2,6	553 0 0 9,5	i91 4 2 1	<b>93</b> 0 0 19,	,153 4 2	608 36,5	B00 0 0	86 1,03			0 0	644 . 4	0,329 0 0 5,	<b>,995 5 4</b> 56	9,607 9 C	

.

## Form No. 13.—Statement showing register of

					J .		-											
	}		``````````````````````````````````````	1.						New case	s of the y	70ar.		+	, 		. <b></b>	
Forest Division.	Cas	es pendir previous y	ear.	Inj	ury to fo by fire.	rest	Ū	anutboriz folling.	æđ	Uı	nauthoriz grazing.		0ť	hor offen	OČB.		Total.	
	Δ.	В.	All.	A.	B.	С.	Δ.	В.	C.	<u> </u>	В.	σ.	Δ.	B.	σ.	Δ.	В.	σ.
1	2	. 8	4	5	6	7	8	9.	10	11	12	13	14	15	16	17	18	19
NORTHERN				-			-						ĺ	ļ	ļ			
CIRCLE. Paneb Maháls	4	133 '	137	5	6	50	16	550	256	18	824	1	1	18		40	1,398	307
Function and the second		10	10	3	16	. 2	1	21	3		. 96	]. <b></b>	8	10		7	83	5
North Thana	6	76	82	144	+18	55	· 21	191	151	1	228	- 114		27		22	449	206
West Thina	8	29	32	6	4	31	27	197	115	9	362	2	{ · 1	20	3	43	589	151
East Thána	• Б	. 23	- 28	5	· 9	64	18	329	113	6	240	7	6	48	1	83	626	185
South Násik	2		2	1	5	41	· 7	163	. 38	Ð	123		2	38		19	829	77
North Násik •••	8	·	3	1	1	6	8	180	14	· 3	334		1	46	1	ĬS	561	21
Násik Sub-Division	5	•••	5	<b>,</b> 14	· 1	13.	3	301	86	5	278	. "***	109	11	•••	8	<b>5</b> 91	49
Total, Northern Circle	. 28	271	299	<b>9</b> 1	42	262	101	1,932	724	51	2,425	10	12	224	5	185	4,623	3,001
									 		}			 			<b></b>	
CENTRAL CIRCLE.	` 					1		1.		,				· ·			-	
East Khandesh	9		Ð	7	7	47	17	238	64	. 16	318	· 3	18	163	3	50	1,725	117
West Khändesh	14		14	Ð	1	55	5	199	75	5	395	8	1	32		20	627	133
North Khándesh	4		. 4	6	12	· 43	2	171	103	1	144	2	3	64		12	301	148
Poona	. 8	` •••	8	4	33	63	25	767	128	26	878	6	8	194	1	63	1,872	218
Sátára	5		5	3	26	56	22	455	46	n	476		2	121	6	<b>3</b> 3	1,078	· 108
Kolába	65		65	- 23	. 12	. 36	128	314	286	\$5	\$80	· 4	13	65	8	199	771	332
Total, Central Circle	, 105		105	52	91	320	199	2,144	702	94	2,591	18	43	608	16	383	5, 164	1,056
SOUTHERN CIRCLE.													 					
Kánara Northern	6	63	91	8	4	54		. 131	32			3	İ		·	•		
Kánara Esstern			· 2	<b>.</b>	16	69	3	128	51	2	195	1	÷	6		13	836	89
Ránara Central (New Division).		97	107	3	21	392	19	619	47	1	02 23	***	"" 。	22 49	794	4	253	120
	1		2		-	} .		<b>۱</b> .	-	•			8	1 40		26	711	429
Kānara Sonthern 🧼 🧰 Kānara Wéstern 👘		241	280	2	- 44	162	22	709	40.	1	24		13	82		88	859	223
Rel	2 10		- 2	5	5	83	84	243	19	6	83		1 1	15	·.A	46	. 296	102
		125 80	144 81	6 8	32.	156 	7	340	119	. 17	729	8	· ••• .	27	3	30	1,129	281
Dhárwár-Bijápur (New combined Division)	-		. 01		2	60	9	207	42	. 5	246	. 10	1	<b>*</b>	•••	19	512	115
Hatnágiri	7	9	10	•••	1	••• .	<b>***</b>	7	1		•••	***		. 8		<b>996</b>	11	1
Total, Southern Circle.	79	638	717	27	1.01	089					- <b></b>		· ·	 ·			i <u></u> ",	
					125		98	2,384	851	32	1,841	. 16	18	261		175	4,111	1,359
SIND CIRCLE,				i.									<u> </u>					
Sukkur	<b>3</b> 4		- 34	2		50	52	. 598	404			. <b> </b>					-	
Lárkána	1		1			22	يرى 19	217	61	11 8	808		2	6	•••	67	1,412	454
Hyderabad "	10	·´	10		•••	- 8	81	248		0 5	250 731	 1	. 1.	5	***	16	472	83
Jerruck .	9	6	. 15	I	. 1	5	5	87	7		100		1	20 1	***	87 6	900	91 19
Total, Bind Circle		6	60			85	· 97	. 1,150						<b></b>				12
Grand Tatal		<u> </u>		<u> </u>		<b></b>	<u> </u>		494 	22 	1,949 ————	1		82	•••	123	3,132	580
Grand Total ,	266	915	1,181	103	. 259	1,656	495	7,610	2,271	199	8,806	45	77	1,135	21	874	17,330	8,008

# breaches of Forest Rules during the year 1916-17.

				. <u> </u>	<u> </u>				<u> </u>	_ <u></u>		the year		<u> </u>		- <b></b>			ses pen	dine	
*	Total	£2,965.				ctions.				ittals.				To	ta]. 7				ses pen sc close year.	of	.  Renia
	 	<u> </u>	·	<u> </u>	.ees	<b>-</b> -,	sons,		uses.	Pers	ons. 		Cases.		.	Persons	'. 		1		
л, 	B.	<u>C</u> ,	All. /	A.	B.	Δ.	B.	A.	B.	A.	в. •	A.	B.	All.	A.	B.	All	Δ.	B.	* All.	
20 	21	22	23	24	25	26	) 27	23	29	<b>30</b>	31	82	83	34	35	<b>3</b> 8	37	98	99	• 40	i,
				fę.				-				•	Ì						}		
44 7	1,531 93	307 5	1,892 105	35	1,400	92 .6	<b>2,67</b> 2	1		3		36		1	95			8	181	139	
28	522	206	750	19	400	37	. 901	1		. 8		20	1 · ·	1	6 40		1	5	20	31 131	
49	618	151	815	29	600	. 48	1,619	2		28	HF	31		1	76	1	1	15	15	33	
38	619	165	872	34	546	130	2,118	4		10	ł	38	· _ 546	584	140	\$,118	2,258		103	103	
21	829	· 77	427	17	329	67	993	4		6		21	829	350	-79	903	1,068			.,.	
16	561	21	598	13	561	72	1,128	1		5		. 14		1	. 77		1.	. 2		2	
13 	591	· 49	653		556	15	1,540	2		3		13	. 556	569	18	1,540	1,558		35	<b>9</b> 5	
213	4,894.	1,001	6,108	160	4,169	487	11,174	15		58		175	4,468	4,643	525	11,174	11,609	28	426	431	
					<b>**</b>		· · ·														
65	725	117	907	52	565	145	1,564	2		3		54	565	619	149	1,564	1,712	n	171	182	1
34	627	133	794	· 21	415	34	1,487	5		7		26	415	411	41	1,487	1,529	8	212	220	1
16	891	148	555	13	274	30	606			1		13	274	287	31	606	687	2	• 117	110	
71	1,872	216	2,161	54	1,663	, <b>159</b>	3,961	6		35		60	] -,000		194	-	1			215	]
43	1,078	108	1,229	33	879	72	1,663	2		5	•••	35	1		77			65	199	207	
264	771	182	1,367 	171	661	403	1,356	28	•••• 	62		199 		- 860	465	1,356				175	
493	(	1,056	7,013	344	4,460	843	10,637	43		113		387	4,460	4,847	956	10,637	11,593	103	1,004	1,107	
	{													1.							
21	419	. 69	539	in	369	19	1,012	2		4		13	360	983	23	1,012	1,035	8	50	59	
6	258	120	- 384	5	251	6	545	ĭ		1		6	251	257	7	545	552		7	7	
<b>S6</b>	808	429	1,278	23	725	- 31	1,6]0	8		15	•••	32	725	257	48	1,610	1,656	4	83	67	]
74	1,103	222	1,899	41	836	63	2,057	11		17		. 52	886	938	80	2,057	2,130	22	217	239	Į
48	296	EOI, -	446	20	233	35	546	2	•••	9		22			44	1	590	26	63	69	ŀ
49	1,253	281	1,583	27	1,113	54	2,043	2		7		29			.61 20		2,104 2,032	20	140 23	160 · 32	
19	592	115	728	8	569	17	2,012	2		3		10		ŀ			2,002		2	2	
1	20	<u>1</u>	223	1	18	2*.	20			 			·								
251	4,749	1,859	6,362	136	4,104	227	9,845	29	••••••••	56		165	4,104	4,329	293	9,845	10,128	89	<b>5</b> 85	674	
							i				'	•			, , ,		0.00F	<b>.</b>			
101‡		454	1,067	48	.1,412	79	1,871	23	36.0	85	•••	66 11	1,412 439	1,478 450	164 19	1,871	2,035 495	81 6	 33	32 89	
17	472	83 81	572	8	439 999	12 61	476 1,110	3	•••			39	989	1,038	01	1,110	1,171	8		8	
47 155	999 255¶	81 22	· 1;077 232	- 89 4	999 246	8	<b>3</b> 05	 2	•••	4		6	246	252	12	305	317	6	8	14	
180	3,133	<b></b> <b>5</b> 90	3,898	 94	<b>3,</b> 096	i 160	3,762	· 28		90		122	3,093		250	8,762	4,018	62	41	93	
,140	18,245	3,008	23,381	734	16,189	1,697	85,418	115		273		849	10,198	17,037	2,020	35,418	37,438	232	2,050	2,338	

One case withdrawn,
Two cases withdrawn.
Two were transferred to B class and 1 was withdrawn.
Three were withdrawn.
Three were withdrawn.
One was transferred to A class.
(A) Means cases taken to Court.
(B) - ..., compounded and let off with warnings.
(C) ..., undetected.

FORM No. 14.—Area of Forest Tracts protected from fire during 1916-1917.

Division.	Forest Ranges.	Year in which protection commenced.	Arca protected during 1915-1916.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
- <u>·</u> 1.	2	. 3	4	5	6	7	8	9
NORTHERN OIRCLE.		[i	Acres.	Acres,	Acres.	Aeres.	Rs. a. p.	
eanch Mabéls	North Godhra Range. South do Kglol Hálol	· · · ·	88,541 21,438 27,908	<b>37,428</b> <b>51,828</b> 21,527 28,264	562 190 846 ],474	86,866 51,638 20,681 26,790	2,372 0 0	
	Dohad	1	43,619 25,824	46,242 26,863	1,458 1,043	44,784 25,820	}	
	Total	······	207,825	212,152	5,573	206,579	2,372 0 0	
urat	Dángs Mándvi Bulsár-Chikhali	• •••	418,719 40,882 2,810	419,808 40,887 2,810	73	419,735 40,887 2,810	} 6 <b>,115 0 0</b>	
	Total	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	462,411	463,505	73	463,432	6,115 0 0	
North Thána	Umbargaon	•-{ <b>{</b> •-•	74,665 77,771 57,773 	31,746 26,705 20,963 64,221 32,798 81,778	601 120 708 2,544 476 18	81,145 26,565 20,257 61,677 82,322 81,755	2,864 0 0	
	Total	++	210,209	208,206	4,465	203,741	2,864 0 0	
West Thána •••-	West Váda Bhiwndi Sálsette Kalyán	5555 545 101 105 102 485 103 485 104 485 105 485 105 105 105  53,470 92,388 37,741 14,396 31,345 30,997	32,919 43,970 14,809 83,438	817 229 306 280	82,602 43,741 14,503 83,158	8,609 0 0		
	Total		200,337	205,970	1,544	204,426	8,609 0 0	
East Thán <b>a •••</b> •	Mokháda North Sháhápur South do. East Murbad East Vada	···· · ··· · ··· · ··· · ··· · ··· · ··· ·	104,141 62,978 23,612 46,146 52,878	45,604 29,371 46,809	75 8,968 677 871 995	38,957 41,636 24,069 29,000 45,814	<b>4,735 0 0</b>	
	Total .		•289,750	291,760	7,732	284,028	4,735 0 0	
Couth Næsik	Dindori North Peint		40,074 50,177 107,171	58,784	2,419	51,315	416 0 0	
	Total	***	197,422	2 220,857	7 8,23]	217,626	416 0 0	
North Násik	Baglan	1  *-* *-*	109,251 115,082 108,972	120,029	54	119,975	<b>246 0 0</b>	
	Total	• • • • • • • • • • • • • • • • • • •	831,255	316,077	7 250	815,827	246 0 0	-
Násik Súb-Division ,	Yeola	•••• ••• ••• ••• ••• ••• ••• •••	21,249 62,458 25,749 31,607	3 77,580 25,831	5   1,155 8   36	5 76,481 3 25,797	} 17ŏ 0 0	].
•	Total	···	- 141,06	3 165,13	2 ],25]	l 168,881	175 0 0	
	Total, Northern Circ	:le.	2;039,772	2,083,659	24,119	9 2,059,540	20,582 0 0	<b>-</b>

# FORM No. 14.—Area of Forest Tracis protected from fire during 1916-1917-continued.

· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		·					
Division.	Forest Ranges.	Year in which protection commenced.	Area protected during 1915-1916,	Area attompted to be protected.	- Failures.	Area actually protected.	Cost.	Bemarks.
1	2	8	4	5	6	7	8 -	9
CENTRAL CIRCLE.		•	Acres.	Acres.	Acres.	Acres.	Rs. a. I	,
East Khándesh	Cháliagaon Chopda Edalabad Jalgaon Jánmer Parola Ráver Yáwal	· · · · · · · · · · · · · · · · · · ·	<ul> <li>36,729</li> <li>106,466</li> <li>36,487</li> <li>37,420</li> <li>63,556</li> <li>43,842</li> <li>64,881</li> <li>29,000</li> </ul>	38,250 107,700 41,346 88,812 64,390 43,921 76,210 78,000	1,970 19,781 1,652 622 1,907 79 6,703 23,210	86,280 87,919 89,694 88,190 62,483 43,842 69,507 54,790	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Includes Erandol Táluka. Po. Bhusawal Táluka
•	. Total	•••• ,	418,381	488,629	55,924	432,705	1,453 7 6	-
	Dhulia Sákri	·   . •••	74,156	75,818	2,515	73,303	134 0 0	
Vest Kliándesh 🔐	Pimpalner Nandurbár		168,814 62,887	180,858 63,558	10,556 1,562	170,302 61,996	827 0 0 1,159 0 0	· ·
	Navápur	•••	58,329	61,877	1,165	60,212	1,762 0 0 25 2 3	Miscellancous charges.
-	Total	. <b>***</b>	364,186	381,611	15,798	365,813	4,445 2 3	-
[	Akráni Taloda	1+4 	<b>164,1</b> 34 56,956	194.683 71,161	92,884 15,041	101,799 56,120	2,280 0 0 1,307 0 0	a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
orth Khándcsh	Sháhád <b>a</b> Shirpur, East		78,165	83,581	5,800	77,781	1,170 0 0	
l	Do. West	} • · · ·	195,250	206,772	10,279	196,493	3,120 0 0	
-	Total	•••	494,505	556,197	124,004	432,193	7,877 0 0	-
olába	Alibág Pen Panvel Karjat Karjat Nágothna Roha Mangaon Mahád	····	27,413 29,951 27,536 32,250 21,596 35,218 39,219 26,274 25,808 2,122	27,489 29,964 27,672 82,520 21,879 35,226 39,281 26,290 25,877 2,122	288 18 209 302 180 21 101 41 231	27,201 29,946 27,363 32,218 21,609 35,205 39,180 26,249 25,646 2,122	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•
	Dápoli Mátherán Total	• • • • •	1,107 268,494	1,107 269,327		1,101 267,930	• 52 0 0 2,752 8 0	
	Akola (A'nagar Dist.). Ambegaon	•••	66,597 38,711	66,820 38,942	195 277	66,631 38,665	······	Includes part of Sangamu Tálaka. Includes parts of Indápu and Shirar Tálukas Poora District and pai of Shirgonda Táluka Ahmednagar District.
ena	Dhond Haveli Junnar Khed Lonávla	····	10,993 24,379 39,036 34,585 46,174	7,015 26,784 39,244 35,493 47,215	 1,706 658 1,258 747	7,015 25,078 38,586 34,235 46,468.	108 8 0 10 0 0  22 8 0	of Shrigouda Tähaba Ahmed::agar District.
- <b>*</b> - <b>.</b>	Mával Mulshi Puraudha <del>r</del> Rájur (A'nagar Dist.).	····	26,530 9,913 65,015	26,619 8,579 65,037	285 830 65	26,334 8,249 65,022	848 849944 849944 845438	Includes part of Bhimthut Táluka.
	Total		361,933	361,804	5,521	356,283	141 0 0	1

FORM No. 14.—Area of Forest Tracts protected from fire during 1916-1917-continued.

Division,	Forest Ranges.	Year in • which protection commenced.	Area protected during 1915-1916.	Area attempted • to be protocted.	Failuros,	Area actually protected.	Cost,	Remarks.
1.	2	3	4	5	6	7.	8	9
CENTRAL CIRCLE		·	Acres.	Acres.	Acres.	Acres.	Rs. s. p.	
Sátára	Jávli Karád Mahábleshwar Pátan Sitáne Shirála Wái	• • • • • • • • • •	58,521 83,518 43,165 74,877 50,133 86,170 - 83,101	58,523 83,541 43,222 75,048 50,681 36,211 83,264	15 109 182 980 69 147 66	58,508 93,432 43,040 74,068 50,612 86,064 33,198	150 0 C	Includes part o Tasgaon Táluka. Includes part o Khatao Táluka,
	Total	۰ <b>۰۰</b>	<b>329,4</b> 85	830,490	1,568	328,922	150 0 0	-
	Total, Central Circle	•••	2,236,984	2 <b>,8</b> 83,058	<b>2</b> 04,212	2,183,848	16,819 1 9	
SOUTHERN CIRCLE.					- <b></b>			-1
Kånsra, Northern {	Haliyál Sambrani Dandeli Kulgi Virnoli Kalghatgi	y y y y	88,654 82,453 11,915 23,799 83,839 44,637	49,031 47,113 53,076 29,261 46,114 44,291	1,863 70  3,031 1,977	47,718 47,043 53,076 29,261 43,083 42,314	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	Total	*** '	185,297	<b>263,9</b> 36	-6,441	262,495	4,945 0 0	
Kánára, Eastern	Yellápur Kirwatti Bhartnalli Mundgod Katur Dhandsbi	58 ***. *3 *** 73 ***	87,321 78,075 89,389 49,710 84,456 25,871	114,750 66,126 64,060 64,185 42,343 23,996	623 656 190 805 453 158	114,127 65,470 63,870 63,330 41,890 23,888	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	Total	•+=	364,822	375,410	Ž,885	<b>8</b> 72,525	4,899 0 0	
Ránara Central (New Division) {	Sirsi Ankola Kumta	1906-07 1888-89 1899-00	3,561 148,07 6,360	215,273 221,906 61,751	11,290 1,862 284	203,983 220,444 61,467	86 0 0 629 0 0 311 0 0	1
	- Total		157,992	498,830	12,936	485,894	1,026 0 0	•
Kénara, Southern {	Siddápur ••• Honávar ••• Bhatkal ••• •••	1900-01	<b>201,721</b> 124,306 12 <b>3</b> ,800	204,441 124,581 124,034	4,819 1,074 1,258	199,622 123,507 122,776	22 0 0 384 0 0 151 0 0	-
	Total	•••	449,827	453,056	7,151	445,905	857 0 0	
Sánara, Western {	Kárwár Kadra Sups Gund	1887-88 1888-89 	81,099 192,064 219,193 20,367	81,655 205,971 219,286 23,488	432 1,324 2,707 501	81,228 204,647 <b>216,579</b> 22,982	608 0 0 1,028 0 0 731 0 0 471 0 0	
•	Total	9++	512,723	530,395	4,904	525,431	2,838 0 0	
ielgaum	Khánápur, Eastern Khánápur, Contral Khánápur, Western	1910.11	83,841 - 85,281 88,553 97,432 94,057	84,448 48,192 77,560 97,707 <b>99,231</b>	1,496 4,871 8,796 1,510 1,109	82,962 48,821 78,764 96,197 98,122	7,934 0 0	
<u> </u>	Total		879,114	407,138	12,782	- 894,856	7,934 0 0	

.

Divisioa.	Forest Ranges.	Year in which protection commenced.	Area protected during 1915-1916,	Arca attempted to be protected.	Fallures.	Arca actually protected.	Cost,	Remarks
1	2	8	4	5	6	7	8	9
EOUTHERN CIRCLE-continued			Acres,	Acres.	Acres.	Acres.	Rs. 8. p.	
Dhirwat-Bijápur (New Division)	Dhárwár and Gadag Hangal Kod Bádámi Bágalkot	 1907-08 1889-90	1,368 2,299	18,778 9,495 18,052 17,613 4,415	732 158 1,101 1,692 1,927	38,046 9,837 16,951 15,021 2,488	$\begin{array}{ccccc} 9 & 0 & 0 \\ 838 & 0 & 0 \\ 121 & 0 & 0 \\ 172 & 0 & 0 \\ 128 & 0 & 0 \end{array}$	
	Total	•••	42,976	68,353	6,610	62,743	769 0 0	
Retnágiri	Khed Sangameshvar Mályan Total		8,710 634	7,709 8,711 634	25 	7,684 8,711 634	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	Total, Southern Circle.		12,053 2,104,804	12,054	25 52,794	12,029 2,561,378	30 0 0 22,797 0 0	
SIND CIRCLE.				4,013,172		2,001,315	20,191 0 0	
Sakkur	Mirpur Ghotki Sadhuja Abad Sukkur Kot Sultán Kashmore	Not known 1885-86 &	<b>3 23,251</b>	43,576 53,993 74,761 83,092 27,745 . 23,255 34,596	10 120 465 287 841 85 27	43,566 53,873 74,298 35,805 27,404 23,220 34,569		
;	Total	• .	287,671	294,018	1,285	292,733	•••••	
_átkí υτ ••• ··· {	Garhi Yásin ( Lárkana Sohwán Kandiáro Total	known	82,398 48,077 23,006 48,547 147,028	82,426 48,442 23,548 43,627 147,988	93 149 13 120 	82,333 48,293 23,530 43,407 147,563		
Hyderabad	Sakrand Hála Miáni Hyderabad Unerpur Total	Not known	50,522 51,456 22,902 2,223 29,131 156,234	49,497 52,227 29,877 2,223 . 81,211 165,035	105 164  1 270	49,392 52,063 29,977 2,223 81,210 164,765		
,	LUCAL	1+#	100,234	100,030	410	104,700		
erruck	Tatta Sháhbandar Mulchand Katiar	} 1912- { } 13 { Not known.	52,832 24,540 46,942 20,788	52,236 23,927 47,578 20,801	. 86 22	52,200 28,927 47,556 20,801	223 12 10 181 8 0 629 14 5	
	Total	•	145,102	144,542	58	144,484	1,035 3 3	
	Total, Sind Circle		736,035	751,533	1,988	`749,545	1,035 3 3	
	GRAND TOTAL	•4•	7,117,595	7,837,422	283,113	7,554,800	61,183 · 4 0	

# FORM No. 14.- Area of Forest Tracis protected from fire during 1916-1917-concluded.

#### FORM No. 15.—Causes of

• `			(A	L)	¢	B)·				,(( 		S BEGINI		
		,	Fires	caused	Fires e	ntering ests by		017	ing to ca	arelessnes	s or acc	ident.		·
Division or Cir	cle.	1	thro arcless	ugh eness in ning	CTOS	sing or fire-	By wo employ the for purch cutter	yed in ests, by asers,	travelle	lagers, ers, etc., sing ough rests.		ailway gines.	01	ghtning by balloons.
· .	· ·	· L	No. of ires. i	Arca burnt n acres.	No. of fires.	A rea burnt n acres.	1	Area barnt in acres.	No. of fires. i	Area burnt in acres.	No of fires.	Area burnt in acres.	No. of fires.	Arca burn in acres.
1	· · ·	- -	2	3	·4	5	6	7	8	9	10	11	12	13
NORTHERN CI	RCLE.	-1.	<u>.                                    </u>	(										
Panch Maháls Surat North Thána West do East do Sonth Násik North do Nasik Sub-Division	444 644 646 646 646 646	•	4 2 4 2 3 5 	257 2 93 48 258 842 	2  8 8 7 1	2 515 632 285 - 10 4	  2 2 1 	 12 874 215 	4 17 4 9 4 22 1 6	906 41 66 385 458 607 62 155	1  1 4  1	8 210 10 288  8	1   	"10  
	Totaļ	••	20	_ 1,500	• 27	1,448	5	601	67	2,68)	9	519	- 1	10
CENTRAL CII	RCLE.										1			
East Khándesh West do. North do. Kolába Poona Satára	• • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	11 3 11 3 2 1	1,171 1,099 1,807 37 18 20	2 2 6 34 19 26	210 185 6,662 332 270 161	· • 3 2	829 130 6 		28,383 50 9,805 • 140, 2,43(• 1		180 10    	•••	••• ••• •••
	Total	•••	<u>.</u> 31	.4,152	. 89	7,820	16	965	122	40,814	13 8Ľ	534		920
-					.									.
SOUTHERN OF	RCLE.				• .	1		<b>.</b>						
Kánara, Northern Do. Eastern Do. Central Do. Southern Do. Western Belgaum Dhárwár—Bijápur Ratnágiri	•••• ••• ••• ••• ••• ••• •••	•••, •••, ••• ••• •••	2 2 1 12 2 2	234 9 25  569 .12 573 		854 77 830 168 207 2,045 625 25	4 2  6 13	61 1 1 166 741	53 46 33	3,005 520 1,638 600 1,180 268 1,099	1   5 5	105   15 181 	    	•••• ••• ••• ••• •••
	Total		21	1,422	67	3,831	25	969	200	8,310	. 11	.801		
SIND CIRC	LE.				-	-	-	-	-				-	-
Sukkur Lárkána Hyderabad Jerruck	-	• • • • • • • •	· 1	 62	4	  	  1 2	16 14		99 	1 1 	4 8 		···· ··· ··
,	Total		1	62	• 4	47	3	30	8	104	2	12		
Grand	d Total		73	7,136	187	13,146	49	2,565	397	51,908	 35	1,396	1	10

.

· . . .

# Forest Fires during 1916-17.

s <b>b</b> r <b>y</b> e	OR FIRE-	TRACED	Area,				}					
	· · ·	В	y Intentio	nal Firin	g.					_		
In or otain n	der to lew grass.	In order out gan reduce	e or to	Malici fire	ously d.	Ť	otal.	Causes U	nknown.	То (А), (В)	tal and (C).	Remarks
No. of fires.	Area burnt in acres .	Nc. of fires.	Area burnt in acre3.	No. of fires.	Arca burat in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area buint in acres.	
14	15	i	17	18	19	20	21	22	23	24	25	26
L		2  3   	500 534 53  180 	•••• ••• 5 ••• 9	 115 1,085 	7 18 21 20 10 . 33 1 7	1,409 51 810 575 1,120 2,087 62 .163	40 1 30 11 57 2 6 6 6	\$,905 20 3,562 406 5,722 17 178 1,08 <sup>1</sup>	53 21 55 41 78 47 8 47 8 14	5,573 78 4,465 1,514 7,732 3,231 250 1,251	Pine 6 account breaches Ruies which 1 area w barnt.
ya	••••	21	1,267	]4	1,200	117	6,277	153	14,894	817	24,119	
···· ··· ··· 1	••••	-	••• •• •• ••	8 10 16  18 	6i0 1,137 12,100  1,022 	33 13 43 22 85 3	30,032 1,197 - 22,035 422 3,555 - 1	35 50 12 17 18 50	24,511 13,317 93,500 . 606 1,678 1,386	81 68 72 76 124 86	55,924 16,798 124,004 1,897 5,521 1,568	• Breach rules which area v burnt f Includes
1		343	•••	47	14,899	199	57,242	188	134,998	507†	204,212	† Includes cases account for in Fo 13.
1 6	599	 8 2  1 2 4 	372 1  40 2 358 	*** 8 *** 54 1	650 808  7,570 220 	21 50 6ô 46 41 86 23	3,431 2,202 2,448 600 1,421 8,596 1,888 	41 21 322 179 36 82 40	2,422 597 10,133 6,393 2,767 2,129 2,524	85 406 228 93 194 68 1	6,441 2,885 12,986 7,151 4,964 12,782 5,610 25	
•	955	17	803	71	9,248	332	20,586	721	-26,955	1,141	52,704	
10	•••			2	1  15	20 1 1 6	604 8 16 58	28 21 6	694 367 192 	52 22 . 8 6	1,285 375 270 58	
11	524	•	••••	4	16	28	686	55	1,193	88	1,988	
	) 1,479	38	£,070	136	25,363	676	84,791	1,117	178,040	2,053	283,113	

.

• .

				ARRA IN SQ	UARE MILES.	•		
- · ·	Ĵ				Open to	grazing	······································	
Division.		Closed to a	l animals.	Of all a	minals.	Of all anin browsers (ca and g	nals except mels, sheep, at:).	Remarks
•	ļ	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.	Part of year.	
1		2	3	4	5	6	7	8
NOBTHERN CIRCLE. Reserved Forest.		Sq.m. a.	Sq.m. a.	Są.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. a.	
Panch Mahals		. 92 0	19 0			. 221 .0		•
urat		. 13 0	55 0	13 0		******	831 0	
North Thána West do	•••		448448	*****	••••	246 0 233 0		
est do	••	1 101 0	****** *****		*****	<b>3</b> 39 - 0	*****	
South Nasik	••	62 0	9 0	6 0		269 0	•••••	
North do Násik Sub-Division	••		• 7 0	183 0 46 0	•••••	244 0 219 0		
Ahmedabad	••			19 0			******	
makel Desembly Forest						1.771 0		
Total, Reserved Forest PROTECTED FOREST.	••		90 0	267 0		1,771 0	<u> </u>	
Surat				007 0	]			
North Thána	••			825 0 145 0	******	******	*****	
West do	••			92 0		13 0	*****	
East do South Násik	••	_		142 0 96 0	•••••		•••••	
	••	**		96 0	*****	******	*****	
Total, Protected Forest	••		*****	0 003 (	1++-+	. 13 0		
Total, Northern Circle	•	. 559 0	90 0	1,067 0	·	1,784 0	331 0	
CENTRAL CIRCLE.								-
RESERVED FOREST.			· ·	-			-	
East Khándesh		. 210 0	. 58 0	. 37 0		495 0	******	
West do	•		4.611.00	177 0	*****	506 0		
North do. Yes Iss Poona	•	·· 127 0 ·· 27 0	60 0	456 0		741.0 467.0	•••••	
Sátára		106 0		195 0	100100	<b>4</b> 10 0	******	
Kolába Ahmednagar-Sholapur	.•	1	1 0	29 0	******	364 0	******	
•		**		702 0	******		*****	
Total, Reserved Forest PROTECTED FOREST.	••	•• 616 0	119 0	1,596 0	******	2,983 0		
Poona	. •					. 11 0		
Sátára				*****	. 800-1 <u>0</u>		1	
Kolába *** ***	••	•••	149/14	74 0		 	****	
Total, Protected Forest	••		-	74 0		12 0	·	
Total, Central Circle	••		· 119 0	1,670 0		2,995 0		, •.•
- SOUTHERN CIRCLE.								
Kanara, Northern		. 213 0	1		.•	A		
Do, Eastern	••	050		20	******	211 0 833 0	•••••	
Do. Central	••	. 89 0			*****	744 0	*****	
Do. Western	••	0 0 0 O	*****		*****	690 0	*****	-
Belgaum	••	. I01 O	******	46 0	******	565 0 535 0		· ·
Dhárwár-Bijápur Batnágiri	-•		12 0	206 O	*****	264 0	*****	
	••		*****	*****	***	10 0	*****	
Total, Southern Circle SIND CIRCLE,		962 0	12 0	254 0		8,355 0		
C-1.1						•		
Sukkur			******	123 0	•••••	287 0		
Hyderabad	•••	1 10 0		134 0 187 0	*****	80 0	•••••	
Jerruck		•	2 0	117 0	" 444.119 POB449	55 O 90 O	17 0	
Total, Sind Circle	<b>9</b> 44	82 0	2 0	561 0		 512 0		
GRAND TOTAL	••	2,219 0	223 0	8,552 0		8,646 0	<u> </u>	•
	_	1	•			~,~~ V	vn20 U	

# FORM No. 16.—Area closed and open to grazing during 1916-1917.

FORM No. 17. . \_\_\_\_\_ .

120							•			FORM	I No.	17.— <i>Retu</i>	rn of Grazi
· · · · · · · · · · · · · · · · · · ·	Ē :"			· <u>-</u>		, GRAZING	ON PAYME	NT—NUMDE	B OF ANIM	ALS.		. <u></u>	
•			Ati	ull rates	•	<del></del>		·		At privi	leged ra	tes,	×
Division.	• ]					· 						Fees	received.
	Buffå- locs.	Cows and Bul- locks,	Goats and Sheep.	Çamels.	Other Ani- mals.	Fees received.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels,	Other Ani- mais,	Actual.	Value at full rates,
1	2	8	4	5	6	7	8	9	10	11	12	13	14
NORTHERN CIRCLE.						Rs. a. p						Rs. a. p.	R6. 8.
anch Maháls	2,115	3,945		,		4,087 8	1,043	3,328			•-•	568 9 6	6,844 8
grat		•••			}	*****	13,128	3,	`			2,111 12 0	18,123 0
orth Thána							.	5 72	1.11			<b>14</b> 12 0	51 4
Vest do	85	3,525	- -			2,309 6	34:	974				279 13 0	1,036 4
last do	ביתור	1,239	1.			1,015 10	2,352	2 4,293		)i		1,878 7 0	5,625 12
South Násik	3	81	(			85 0	· ·	5 48,174	28		72	7,436 0 0	54,689 0
forth do	14	293			228	535 0	15,89	1 128,374	92,820		<b>2,</b> 037	25,736 10 0	1,69,507 0
lásik Sub-Division	11	65	·		309	- 865 0	e,22	1 51,152	31,223		549	16221 9 0	68,112 12
stal, Northern Circle	<b> </b>				537	8,417 8	0 47,89	2 236,367	124,071		2,658	54,247 8 6	3,18,989 8
CENTRAL CIRCLE.					· <b> </b>					-		·)	
	859	14,477			109	15,444 0	0 36.139	9 192,480	4,710	{	· 434	31,458 0 0	2,33,763 0
ast Khándesh	170	ł	}	į	843			1 115,997	31,883			22,214 0 0	
Vest do		73,594	1			ł	0				-,100	1	1,02,201 0
North do	5		Į		15	ļ	1	3 156,424	45,445	<b>••••</b>	830	······ 28,447 0 0	
*** *		9	}			•	0 29,84				141	16,519 0 0	
atara Kolába	109					171 0				( · ·		12,210 0 0	
Total, Central Circle	]		]		4,148		_ ¥	1 632,844	81,538			1,10,848 0 0	.
		·]		·[				· [		-			
SOUTHERN CIRCLE.	·	أستسبه			1						]		
Kánara, Northern	2	55	•••	· ***	•••	255 0	1	,347	216	•••		6,338 0 0	} -
Do. Eastern	1		•••	•••	•••	******	1	,943	2		23	7,873 0 0	
Do, Central	1		<b>488</b> -		• • •		1	,071	•••••••	•••		6,153 0 0	-
Do. Southern		26				26 0	1	,759	51	•••	•••	10,925 0 0	
Do. Western	1 ·	•••	•••	` <b>•••</b>			1	,406	***	•••		7,749 0 0	
Belgann			***			8,889 0		,842	•••	- • • •	•••	10,181 0 0	-
hárwár-Bijápar	. 6	377	1,117		9	959 0	0 135	,808	1	•••	445	16,674 0 0	1,36,253 0
latnágiri				•			╺╎───	,***			•••	*****	
Total, Southern Circle	6,4	22	1,117		9	6,708 0	0 451	,176	269		468	65,693 0 0	4,50,902 0
SIND CIRCLE.	ļ.		ļ	ļ	.	1		}					•
ukkur			ł	1	347	ļ	•••		148		•••	*****	
árkána	1		•	431	135	6,991 0			•••	•••	•••	·	
Hyderabad • •••	1			593	52		2			•••	. ***	*****	•••••
err <b>uck</b>	4,162	8,057	7,633	784	148	7,217 0	· · · ·	•••	•••	•••	14 <b>6</b>	** ** = *	·
Total, Sind Circle	19,107	18,090	85,672	<b>2</b> ,248	682	37,950 0	(	-	***	•		••••	
GRAND TOTAL	156	,581	86,793	2,248	5,376	1,10,490 8	1,49	2,900	205,878		5,931	2,30,988 8 6	15.69.782 8

.

## in the State Forests during 1916-1917.

•

.

~

									_		<u> </u>	5			
<u> </u>	E	y right und	ler Settle	ment.,	<u> </u>		During pl	leasure of G unde	overnment F Settleme	or otherwint.	iso than 🧳			Grand T	
uffaloes.	Bullocks,	Goats and Sheep.	Camels.	Other Ani- mals.	Value of Fees at full rates.	Buffaloes.	Cows and Bullocks.	Goats and Sheep;	Camels.	Other Animals.	Value of Fees at full rates.	Total Value o Fees at full rates.	2	Value ; rate	
15	16	17	18	19	20 .	21	22	23	24	25	26	27	_ -	28	
					Rs. 8. p.						Rs. a.	p. Rs. a.	p. -	Rs.	. û.
•••	***			•••	*****	33,120	127 8 16		•••	•71	93,013 0	0 93,043 0	0	1,03,975	5 (
***				•••		1,719	25,551	4,217	144	71	31,558 0	0 31,558 0	0	44,681	. (
	***	•••		•		14,000	87,402	144	•••		72,126 0	0 72,126 0	0	72,177	'
•••	•••	***	• • •	• •••	*****	23,269	82,201			29	80,480 0	C 80,430 0	0	83,825	1
•••	•4•		•••	••••	-	13,974	60,237		•••	•••	55,115 0	0 55,115 0	0	61,756	(
•••	***	•••				1,050	4,500	***		300	5,850 0	0 5,850 0	0	60,624	: (
•••	***			••• *	••••••			•••		•••				1,70,042	. (
	•••	***		•-•				•••	•••					68,497	12
			•••			87,132	387,737	4,217	•••	400	3,38,172 0	0 3,38,172 0	0	6,65,579	(
						· · · ·								، ب <u></u>	
		•••			<b>6-6</b> - 1	2,306	9,868	 		53	12,317 0	0 12,317 0	0	2,61,524	. (
		•••				995	16,556	50		110		0 17,741 0	1	-,,- 1,85,268	
						3,181	27,845	100		98		0 3,890 0	0	42,246	
, ,		***	-			- 21	125				146 0			1,83,710	
••••	·	***	•••		*****	10	41				54 0		- 1	1,26,638	
-476	1,142				1,618 0 0		573	148			2,415 0	0 4,033 0	0	96,041	
476	1,142				<b>1,</b> 618 0 0		55,011	80		291	36,563 0	0 38,181 0	0 {	8,95,427	0
				<u>-</u>							<u></u>			<u></u> ,	
													Ì		•
•••	•••			***	******		257	•••	••••	***	9,257 0		0	46,913	
•••	· · · ·	•••		•••	*****		624	• <b>• • •</b>	•••	105	8,624 0		0.	43,591	
•••	•••		•••	•••	••••····		80	***	***		0 03		0	46,950	
•••	498	***	•••	•=•	4		••	***	•••	•••		******	1	<b>37,4</b> 06	
•••	- 48	140	•••	•••	••••			•••	•••	•••	19,000 0	0 12,608 0	0	57,400 58,339	0
•••	•••		•••		- ******	12 (		***	*** .		12,608 0			,57,212	
	<b>414</b>	•••	111.1	•••	•••••	••••	·	•••	***	•••		*****			-
•••			·•••			80,5				••••	30,569 0		0 4.	88,239	_
·•••						نوں ہ <del></del>	_:								
- 100	4,493		•	41	2,592 0 0	. 22	465			797	392 0 (	2,984 0 (	0 - :	16,732	0
1,190	4,495 2,481	• <b>4</b> •	•••	1	809 0 0	53	45		130	451		1,126 0 (	2	8,117	0
879	2,481	1			90 0 0	76	178		724	514	1,339 0 (	) 1,438 0 (		11,432	
9 850	240	 60	2	6	359 0 0	407	516	102	59	2,252	1,094 0 (	1,453 0 0	»	8,670	0
	·	· .			·	· · ·			• 913	4,014	3,142 0 0	7,001 0 0		44,951	0
2,428	7,448			51	3,859 0 0	<u> </u>	1,201	102	818	<u> </u>		· · ·	-		
2,904	, 8,590	60	2	51	5,477 0 0	570,6	806	4,399	913	4,705	1,03,446 0 0	4,13,923 0 0	20,	94,196	0

D 15-31

Division.	Kind of Plantation.		ARBAI	N AORES			DITURS IG THE AR,	TOTAL E TURE COMMENC	FROM	Revenue during the	Total revenue from date of	Romarks.
2.00 1010112		On 1st July 1916.	11.	Excluded during the year.	Area on 30thJune 1917.	Crestion.	Upkeep.	Creation.	Upkcep.	year.	creation of plan- tation.	2
1	2	3	4	5	6	7	8	- 9	10	11	12	13
NORTHERN CIRCLE.	-					Rs. a.	Rs. a. p	Rs.	Rs.	Bs.	Rs.	
Panch Mabáls Surat North Thána West do East do	Do Do	38 28	 57	*** *** *** 65	4,889 12 95 28 6	301 0	50 0 0 2,381 0 0 629 0 0	1,440	13,501 50 3,550 7,861	··· 25 ···	 25 	
	Total	5,038	57	65	5,030	301 0	3,060 0 0	12,843	24,962	25	25	
Panch Maháls Surat North Thána West do East do Násik Sub-Di Vision.	· Do Do Do Do	1,149 344 323	153 1,598 230 88	315 230 199	225 1,410 1,302 1,627  212	206 0 582 0 101 0 176 0  144 0	509 0 0  90 0 0	1,401	1,537 7,861 	•••• •••• •••• •••		
	. Total				4,778	1,179 0			9,398	· •••	•••	•
CENTRAL CIRCLE.	Total, Northern Circle	8,264	2,351	809	9,806	1,480 0	3,659 0 0	14,247	84,360	25	25	
East Khåndesb West do North do Poona Sátár Kolába	Do			    1	  258 109	 1 1  481 0 191 0	*****	  2,255	  2,217		  1,908	*Raising o p'ants an purchas of secds.
	Total	350	18	• 1	367	673 0	430 0 0	• 2,255	2,217	521	1,908	
East Khándesh West do North do Poona Satára Kolába	. Do Do Do	485	1.859		81 435 5,729 1,750	149 ( 36 ( 27 ( 1,795 ( 1,119 ( 	******	   	008 109 109 100 100 100 100	· · · · · · · · · · · · · · · · · · ·		7
	Total ,.	5,271	2,779	<b>5</b> 5	7,995	<b>3,126</b> C		741		•••		
SOUTHERN CIRCLE.	Total, Central Circle	5,621	2,797	56	8,362	8,799 0	430 0 0	2,255	2,217	521	1,908	
	Do De Doi	· 187 · (a) 6 · 10	8 19 		171 620 £06 6 10 155		998 0 0	1 590 69,482 1,285 36 43	11,637 12,553 78 3,748	2,472  35 202	18,231 5 516 6,784	(a) Omitt e in previou y c s r
	Total	1,128	40	••••	1,168	1,919 (	2,545 0 0	76,309	28,016	2,709	25,536	throug misundo starding.
Kánara, Eastern Dhái wár-Bijépu	Cultural operations Do	1	17,995 1,702	•••	17,995	2,961 0 360 0	1	2,961 360				
	Total		19,697		19,697.	3,321 (		9,321		•••• 		
SIND CIRCLE	Total, Southern Circle	1,125	19,787		20,805	5,240 0	2,515 0 0		28,016	2,709	25,536	
Sukkur Lárkána Hyderabad Jerruck	Regular plantations. Do. Do. Do. Do.	. 16 80	2	149 199 	233 18 31 22	-14 0 82 0 23 0	282 0 0 1,155 0 0	56 1,006	53,152 2,600 11,644 4,600	423  449 	7,467 4,233	
	Total	. 301	3	•••	304	69 (	4,171 0 0	5,410	71,996	672	11,700	
Sukkur . Lárkáns Hyderabad Jerruck	Do. Do. Do.	2,029 5,107 11,566	2,54× 2,607 4,340	1,800 1,883 1,243	7,641 2,777 5,831 14,663	12 ( 124 ( 662 ( 1,575 (	1,222 0 ( 36 0 (	2,345	89 2,266 8,176 5,302		 	•
	Total Fotal, Sind Circle				30,912	2,373 (	1,447 0 (		15,783	<b>F</b> =4	***	•
-	GEAND TOTAL		12,602		31,216		5,618 0 (			872	·	
	GRAND TOTAL	00,/33	J1,487	5,971	70,249	12,961 0	12,252 0 (	111,365	152,372	4,127	39,169	l

FORM No. 18.—Statement showing Area of Plantations in the Bombay Presidency, including Sind, for the year 1916-1917.

# FORM No. 19.

FORM No. 19. - Outturn (in cubic feet, solid) of Timber and Fuel

	Timbi	R IN TH	E ROUG	н. І	10GS.	Time	er in ti	HE ROU	өн : Pol	ES.	5AW	TN OR SC	UVVB1	3D T1	MBER.
Division.	Government.	Purchasora.	Free grantees.	Right-holders.	Total	Government	Furchasers.	Fre grantes	Right-holders.	Total.	Government.	Parchasers.	Free grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Thousands of NORTHERN CIRCLE.	C. ft.	C. ft.	C.ft.	C.ft.	C. ft.	O. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C.ft.	C. f:,	O.ft	C.ft.	C. ft.
Reserved Forest. Panch Maháis	188	41		••••	41	3	189		•••• 、	192	1				***
Surat		55	3		58.		•••	***	•••		•••	••••			**1
North Thána	•	22		•••	22	· 32	588		•••	619		•••	•••	•••	
West Thána		19	•••		19	1	211	•••	•••	273	• • • •	32			32
East Thána		32			- 32	5	188	. <b>bee</b>	•••	189	•••	80			63
South Násik ,	• • • • •	- 56	••••		56		205	1		206		•••			•••
North Násik	••	- <b>141</b>					38	1	•••	38	•••	•••		•••	***
Násik Sub-Division •••• •	•••	•••	•••	•••	 	•••	4	•••	•••	4		-+5		•••	• • •
Tctal, Reserved Forest .	e	<b>2</b> 25	3	•••	228	41.	1,418	2		1,461		112	,		112
Frotected Forest.		15	·		15		- 178			120					
	e- 488	1			15		57	•••	•••	178 57		30			30
		12			12	5.0	40	4	•••	44	•••	31			31
South Násik		22	•••		22	. •••	44			44		•••			
Total, Protected Forest	•	50		•	50	100	319	4	· ··· .	323	·    •••	61			61
Unclassed Forest. North Tháng	•	1			1		42			42					
South Násik		5		•	5		12	•••	-	12			• • • •		***
Total, Unclassed Forest .	•   •••	6		- - -	6	•	54	••••	<b>.</b>	54					
Leased Forest.	. 59		•	70	193		· · · ·				- 7		   		7
Total, Northern Circle .		339	3	76	477	41	1,791	6	·	1,838		173	 		180

# during the year 1916-1917, and Agency of Exploitation.

·	Mis	CBLLAN	EOUS.			То	TAL TI	MBER.	· · · · · ·	]	·	Fue		<u></u>	 
Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Total Outturn.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	82
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	0. ft.	C. ft.	C. ft.	C, ft.	C. ft.	C. ft.	<b>C.</b> ft.	C. ft.	C. ft.	C. ft.
***	49 <u>1</u>		••••	• <b>* * *</b>	8	229	•••	•••	232	8	<b>896</b>	•••	1,467	2,371	2,603
341	. 83	6	•••	89	•••	55	8	<b>144</b>	58		12	•••	•••	12	70
***	***	***		••••	32	610	`	ø#5	642	16 .	1,302		1,132	2,450	8,092
144	31	•••	***	: 31	3	294		4a <b>a</b>	297	9	1,746		1,127	2,882	3,779
•••	- 9 9	168		•••	5	295	•••	••••	300	4	1,895		2,740	4,639	4,939
	•••		. •••			262	1	· · · ·	263	18	11		30	59	822
***			•••	966 7	. ***	37	1	822	- 88	• • • •	124		<b></b>	124	162
•••	•••	***		*##	••••	4			4	•••	36	7	•••	43	47
· · · ·	114	6	***	120	43	1,786	5	***	1,834	55	6,622	7	6,496	12,580	14,414
	• .		***	•••		193	•••		193	•••	77		566	643	830
-		•••			•••	88	•••		. 88	•••	10	•••	90	106	194
<b>941</b>	***	•••	•••	•••		83	4	tes	87		60	•••	4.7.5	00	. 147
***	*##	•••			•••	68	·••	· ···		···	•••	••• 	···	••••	<b>Č</b> 6
,			·	•••	····	430-	4. 	· ··· ·	434	·••	147	•••	662	.809	1,243
50F	•	488	•=•	•••		43	•••	•••	43	•••	•••	849			43
•••	***	•••			•••	17	•••	•••	17	•	11		•••	11	23
· · · · ·		•••	•••	401	•	60	•••	••••	60	• • • •	11	•••		J1	71
				•••	66	58	-**	76	200	13	• •••	•••	1,500	1,513	<b>1</b> ,713
••••	114	6	•••	120	109	2,334	9	76	2,528	68	6,180	7	8,658	14,013	17,441

p 15-32

.

•

FORM No. 19. - Outturn (of cubic feet, solid) of Timber and Fuel

	Ттм	BER IN TI	HE BOU	GH :	Logs.	Ттмі	BER IN TH	E ROUG	н : Ро	LES.	Saw	N OB SQU	ARED	Тімі	BER.
Division.				;					<u> </u>				<u> </u>		
	Government.	Parchasers.	Free grantees.	Right-holders.	Tota].	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers	Free grantees.	Right-holders	Total.
1	2	3	4	5	6	7	<b>8</b> ·	9	10	11	12	13	14	15	16
Thousands of CENTRAL CIBCLE.	C. ft	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C.ft.	C, ft.	C. ft	0. ft	C.ft.	C.ft.	C. ft
ast Khándesh		•••	•••	•••	¥**,	104	71	1		72	•••	***		•	***
Vest Khandesh				•••	•••	•••	181	4	•••	185		141		•••	***
North Khándesh	•	6			6	***	117	1		118	•••	22			22
Рооля	•••	4		••••	4	7	177	3	•••	167	•••	1	****	•==	
·										- - -					•
Sátára	•••	•••		••••	•••	3	. 83	6	•••	42	•••		••••	•••	•••
Kolába	•••	31	•••	•••	31	••••	180 ·	2	•••	182		•••		••••	495
Total, Central Circle		41			41	10	759	17		786	••••	22		•••	
					•							•			•

# during the year 1916-1917, and Agency of Exploitation-continued.

.

·		<u></u>			· · ·					<u></u> .		· · · · · · · · · · · · · · · · · · ·			
·	Mis	OELLAN	EOUS.		 	Тот	AL TIMBE	R.		}		FURL.		· .	TOTAL.
Government.	Purchasers.	Free grantces.	Right-holders.	Total.	dovernment.	Purchasers,	Free grantees.	Ri ght-bolders.	Total.	Government.	Purchasers.	Free grantees.	Bight-holders.	Total.	Outturn.
17	18	19	20	21	22	23	24	25	. 26	27	28	29	30	81 ·	32
C. ft	C, ft.	C. ft	C. ft.	C. ft.	C. ft.	C. ft.	<u>├</u>	C. ft.	0. ft.	0. ft.	0. ft.	C. ft.	C. ft.	C, ft.	C. ft.
			, ,	-		•								\. 	
844	•••	•••	•••	•••	•••	71	1		72	25	751	1	•••	777	849
		-								-	)				
	-						•		•						
					° 000	381	4		185		199		10	209	394
***	*#*	•••		•••		101		•••		•••	ĺ	•••	10	205	. 034
	• •			) { }						-	. 1	ţ			
					, ,	144	1		146		450		36	486	632
••• ·	***	•••		· · · ·	1	123	L		140	***	, <b>45</b> 0	•••	30		002
•			-	-		-		}		•					
									ł		-				
•••	•••	•••			7	181	3	•••	- 191	<b>130</b>	<b>288</b>	•••		418	609
		•				- -			•			· ·			
2							-				;		-		
***	•••	• • •			3	33	6		42	127	3	•	100	230	272
					•						•		• _		
		   .									•				
		· -				213	2		215	61	256	•	861	1,678	,89 <b>3</b>
12	2	•••	***	• 2	•••	210	2				200	***	001		•
								-	•	-	•		-		
							<b></b>				 				······
	• 2	•••		2	11	823	17		851	843	1,947	i	507	8,798	<sup>₽</sup> . • <b>4</b> ,649 ~
		1					•		-			.			
									-		•	.			
. ·						•									
		·	<u> </u>						 	.			}	 	

127

		Tı	MBER IN	THE R	oven : L	065.	Тім	BER IN	THE BO	исн: Рот	LRS.
	Division. *(As readjusted on 1st Fe- bruary 1916 as per Govern- ment Order No. 11396 of 27th October 1915, Reve- nue Department).	Government.	Purchasers,	Free grantees.	Right-holders.	Total. 🕈	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
٠	1	2	3	4	5	6,	7	8	9	10	11
	Thousands of	C. ft.	C. ft.	C. ft.	C.ft.	0. ft.	C. ft.	C. ft.	-0, it.	0. ft.	C. ft
	SOUTHERN CIRCLE.				· -	-		018			
	Kánara, Northern*	274	433	2	• • •	709	. 4	817	1		32
			•		-	-		-		. ~	ļ ,
, -	·								-		•
	Kánara, Eastern	99	41	•••	***	140	- 7	139	5		15
	•										
			•								
	Kápara, Central	251	54	1		306	10	6	-	•••	1
				-	-						-
		•					· ·				
	Kánara, Scuthern	0.3	51	10	•••	61	•••	•••	•••	•••·	• • • • •
	•		.e								
					•						
	· · ·	· ·	-	•							
	Kánıra, Western	102	71	6	***	179.	. 35	1	•••	•••	3
•	Belgaum	39	15	<b></b>	***	94	48	26	5	•••	7
	• • • •		. *		-	-			•		
								-	•	·	• .
	Dhárwár-Bijápur		•••		•••		•••	11	4		' 1
	•						•				
•	· .		•								,
-	•		-					,		-	
	· · ·		·								•
	Ratnágiri	***	1	•••	•••	1	689' 	1	100	•••	
	Total, Southern Circle	765	706	19	, . ,	1,490	104	501	15		62
	•							•	•		
	•							-			
	. <b>v</b> -	{.		,	•					•	
	· · ·	<b>.</b>	-		•				-		

FORM No. 19.—Outturn (in cubic feet, solid) of Timber and Fuel

128

19 a. a. 19 <del>a</del>.

.

.

during	the year	1916-1917 and	Agency of Exploitation—continued.	
And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	•	•	·	
•			<b>≜</b>	
·····			#.	

.

4

.

. SAWN	OR SQUA	RED	Тімв	ER.		MISCELLANEOUS	•
Government.	1	Free grantees.		•	· <u> </u>		
erinr.	hase	grai	t-ho	_3	LUDI	aser	innt
Govi	Purchasers.	Free	Right-holders.	Total.	Government.	Purchasers.	Free grantees.
12	13	14	15	16	17	18	19
C. ft.	C. ft.	C.ft.	0.ft	C. ft.		C. ft.	·
				·			· ·
86	•••	••••	••••	86	Sandalwood— Kh. mds. 1bs. 13 12 21	<b>Tasta</b> ,	481.041
					Rejected pieces No. 427,		
		<b>t</b>	-	•••	Chips bags 15.		
105	•••	•••		105	Sandalwood—	· ••!4#5	140-43
			ļ		Kh. mds. lbs. 39 5 184 Rejected pieces		
					Rejected pieces 706, Chips bags 76.		
***			•••	***	≷andalwood—	102769	487144
		·		•	Kh. mds. lbs. 16 11 26		•
		1			-	•	
A**	•••		•••	•••	Sandalwood-		*** 189
·					Kh. mds. lbs. 12 11 17		
241					29	1	******
7	9			16	Sandal trees		
					1.530.		•
* +	h .				34 pieces 4 baskets chips.		
				4			
1	,	•••	•••	1	Sandalwood-	101100	9
• .		.			Kb. mds. lbs. 85 19 3		
-			ŀ		Rejected pieces 1,175,		•
	• •				Chips stacks 13,	·	
							,
•••	•==		•••	•••	<b>14' 940</b>	· • • • • • • • • • • • • • • • • • • •	*****
199	9			208	29	1	3
	• • •				Sandalwood- Kh. mds. lbs.		ť
	-				118 1 11		
					2,842, 1,530 trees,	· ·	
	•				Chips bags 108.		ì
				ľ	· . ]	•	

» 15—32a

~

129

٩

.

# FORM No. 19.—Outturn (in cubic feet, solid) of Timber and Fuel

Right-holders.				TOTAL TIMBER.			
ht-hold	Ì		- +	Free grantees.			
ht-h	· [	Government.	ors	ante			
				50 E			
្នុង	Total.	ΘΔG	Purchasors	rco			
<u> </u>		<u></u>		<u> </u>			
20	21	22	23	24			
		<b>#</b> ,	· · · · ·				
	C. ft.	C. ft.	C. ft.	C. ft.			
		۶.					
		364	750	9			
	Fandalwood — Kh. mds. lbs.	Sandslwood Kh. mds, lbs.					
	13 12 21	13 12 21		•			
	Rejected pieces	<b>Rejected</b> pieces	1 1	•			
• •	- 427, Chips bags 15.	427, Chips tags 15.		•			
	ATTA DOGO TO.	antha raga ras					
*****		211	380	5			
· _	Sandalwood-	Sandalwood-	l.				
	Kh. mds. 1bs. 39 5 18½	Kh. mds. lbs. 33 5 184					
· .	Rejected pieces	Rejected pieces					
	706,	706, Ohio hage 76					
	Chips bags 76.	Chips bags 76.					
	· .	961	60	1			
889 ···	Sandalwood-	, 261 Sandal wood—					
•	Kh. mds. lbs.	Kh. mds. lbs.					
· •	16 11 26	16 11 26					
	<b>.</b> .						
·	-		51	10			
483(48	Sandalwood—	Sandelwood-	UI UI				
	Kh. mds, lbs,	Kh. mds. lbs.	-				
	12 11 17	12 11 17					
		-					
-							
961	30	166	73	6			
,							
A41		94	90	5			
	Sandal trees 1,530,	Sandal trees 1,530,					
	34 pieces	34 pieces,					
• · ·	4 bas xets	4 basksts chips.		•			
	chips.	•					
784 a # #	9	, î	11	. 19			
~	Sandalwood- Kh. mds. lbs.	Sandalwood-					
	35 19 3	35 19 3					
- ·	Rejected pieces	Rejected pieces					
	1,175, Chips stacks 13.	1,175, Chips stacks 13.					
		OTTPS SOUCES TO		•			
	4						
	]			-			
*****		******	2				
····			-				
r		· ·					
******	39 Sandalwood—	(a) 1,097	· 1,217	43			
	Kh. mds. lbs.	andalwood Kh. mds. lbs.	l í				
•	118 1 14	118 1 14	۱ · ۱				
	Rejected pieces	Rejected pieces					
	2,312, trees 1,530,	2,342, 1,530 trees					
	Chips bags 108.	Chips bags 108.		•			
		_		-			

(a) This includes 3 thousand cubit feet of last year transferred from Dhárwár-Bijá-pur to Kánara N. and E. Divisions during the year.

-`

.

## during the year 1916-1917 and Agency of Exploitation-continued.

TOTAL TIMBE	B—continued.	· · · · · · · · · · · · · · · · · · ·	× *	FUEL.	•		
Right-folders.	Fota.	Government.	Purchasers.	Free grantees	Right-holders.	Total.	Total Outturn.
25	<b>2</b> 6	27	, 28	29	80	31	32
	C. ft.	C. ft	C. ft.	C. ft.	C. ft.	C. ft.	C, ft.
	1,117 Sandalword— Kh. mds. lbs. 13 12 21 Rejected pieces 427, Chips bags 15.		477	•••	••	477	1,594 Sandalwood— Kh. mds. lbs. 13 12 21 Rejected picces 427, Chips bags 15.
	396 Sańdalwood Kh. mds. lbs. 39 5 18 <del>1</del> Rejected pieces 706, Chips bags 76.	•**	325	8	•••	833	729 Sandalwood— Kh. mds. lbs. 39 5 19 Rejected pieces 706, Chips bags 76.
	322 Sandalwood— Kh. mds. lbs. 16 11 26	455	484	10		494	816 Sandalwood- Kh. mds. lbs. 16 11 26
	61	241	563	2		<b>8</b> 08	867 Fandalwood— Kh. mds. lbs 12 11 17
•							
	245	9 <b>2</b> 0	1,095	2	<b>F-1</b>	2,017	2,262
•••••	189 Sandal trees 1,530, 34 pieces 34 baskets chips.	2,943	1,873			4,821	5,010 Sandal trees 1,530, 34 pieces 3 baskets chips.
• • • • • • • • • • • • • • • • • • • •	25 Sandalwood Kh. n.ds. lbs. 35 19 3 Rejected pieces, 1,175, Chips stacks 13.	6	301			807	332 Sandalwood— Kh. mds. lbs. 35 19 3 Rejected picces 1,175, Chips stacks 13.
	2	•••	83		•••	33	85
	2,357 Sandalwood Kh. mds. lbs. 118 1 1 Rejected pieces 2,842, 1,530, trees Chips bags 108.	. <b>4,115</b>	5,151	22		9,288	11,645 Sandalwood- Kh. mds. lbs. 1 8 1 1 Rejected pieces 2,342, 1,530 trees Chips bags 108.
- *		N.					

This is exclusive of 300 thousand c. ft. of Timber and 3,042 thousand c. ft. of Fuel shown under privilege holder in Chapter II, Section V (c)—Outturn and sources of forest produce.
 p 15-33

ĺ

-	······································	Tn	MBER IN	THE BO	ugu: ]	LOG8.	TIMI	BR IN T	is bov	оя: Р(	DLES.	
•	•	 				i					<b>s</b> e	
•     •	Division.	Government.	Purchasers	Free grantees.	Right-bolders.	Total.	Government.	Purchasers.	Free grautees	Right-holders.	Total.	
·	1	2	.р. 8	4	5	<u>г</u> в	7			10	11	
	Th ousands of	C. ft.	C. ft.	0. ft.	C. ft.	C. ft.	<b>C.</b> ft.	C. It.	C. ft.	C. ft.	C. ft.	
. SI	IND CIRCLE.						· ·	•			•	
•	•							-		·		
Sukkar			1 48	4=4	***	1 43	· 1		•••	444	•••	
•			· ·									
	Total	•4	49	•••	•••	49	1	88	•4		· 85	
						· .		· · · · ·				
	(Actuals		•a•	•••	<b>.</b>	•••	9-9	••••	1		1	
Lérkéna	" Estimate	-1	•		•••	•••	•5	90	•••	••••	91	
•	Total	•1	3 m	•••		•=•	•5	£0	• 1	•••	92	
•												
										-		
H yderabad	Actuals	1	1	100	••• ·	1		•••	- 101	•••	•••	
·	Estimate		139		•== -	189	•2	-1			•••	
	Total	1	140	<b>.</b>	- <b>***</b>	140	-2	1			***	
	•			· ·			· · ·	·				
·	(Actuals	4.4			-	5				•		
Jerruck	Estimate	· ·	25	•••	***	25	••• • *8	••• 16	•1 •5	•••	17	
•	Total	4.4	25	•••	•••	.80	•3	- 16	•6	767		
	Sind Circle	5	214	· •••		219	2	140			144	
	GRAND TOTAL		1,299	22	76	2,227	157	3,190	 41		8,388	
								•			-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
								-		5.		
	•				-	•			÷			
	•	<b>.</b>		-				•				

FORM No. 19.—Outlurn (in cubic feet, solid) of Timber and Fuel

\*

• .

	SA W1	N OB SQ	UARE	TIME	EE.		MISCELLANEOUS	
	Government,	Purchasers.	Free grantees.	Right-holders.	Total.	Government	Purchasers,	Free grantces.
	12	13	14	15	16	17	- 18	19
-	C. ft.	C. ft.	· · · · ·	1	C. ft.	C. ft.	- C. ft.	<b>C.</b> ft.
							-	
		, , , , , , , , , , , , , , , , , , , ,				4		
	•••	•••						 
-				-			•	
_	•••	•••		••••	•••	••••	· · · ·	
	•					-		
	•••				•••		•••	
	• ••5		•••	•••	•		·	
-	•••	•••	 	••••	•••	-	•••	* ***
					•••			
			_					-
	•••	•;•		•••	•••	•••		
-	<b></b>	·		<u> </u>	ز •••			
-		i	\					
	•							•
	4	=÷9		•••	4		• •••	***
· •	•••	•••		····	•••			•290
,	4	•••	•••		4	•••	•••	•290
	4	•••	•••		1		•••	•290
	210.5	203.5		•••	414	29 Sandalwood—	117	15
			-		•	Kh. mds. lbs. 318 1 1 <del>3</del> Rejected picees 2,342		
	-					2,342 1,530 trees Chips bags 108		•
				ł				-

, during the year 1916-1917 and Agency of Exploitation-concluded.

τ

D 15-89a -

•

.

MISCELLANEO	1 <del>5 -</del> continued.		TOTAL TIMBER. ,	
Right-holders.	Total,	Government.	Purchasera.	Free grantees.
20	21	22	23	24
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
	••••	<b>£</b>	1	
9 #0 F#B		. 2	81	· 1
\$ <b>6 44 6 5</b>	110,00	2	82	1
		•		
• * * * * * * * * * * * * * * * * * * *	••••	•••••		1
••••••	•••••	•6	91	1
******	•••••	•2 •2	1 	
		-4	140	••••
· .				· · · ·
*** *****	· • • • • • • • • • • • • • • • • • • •		41	1
	*290	8	41	2
·····		. 11	354	8
	J61 Saudalwood— Kb. mds. lbs. 118 1 1½ Rejected pieces 2,342 1,530 trees Chips bags 10t	1,228	4,727	78
•	Chips bags 10{			

# FORM No. 19.—Outturn (in cubic feet, solid) of Timber and Fuel

· · · · · · · · · · · · · · · · · · ·	EB—continued.		FUBL.									
Right-bolders.	Total.	Government.	Purchaser.	Free grantees.	Right-holders.	Total	Outturn.					
25	26	27	28	29	30	31	32					
	C. ft.	C. ft.	0. ft.	C. ft.	C. ft.	C. ft.	C. ft.					
•••	1	. 35	3,812			3,847	3,848					
*****	84	б	1,247	544		1,252	1,336					
+00 <sup>-</sup> 00	85	40	5,059	6.88		-5,099	5,184					
, ,												
•••••	1	33	1,808	***		1,841	1,842					
•••••	91	I	. 272	***	<b>1</b> 9	292	383					
	92	. 34	<b>2,</b> 080	•••	• 19	2,183						
					· ·							
******	1	41	8,393	•••	•••	3,434	3,435					
*****	. 139	. 8	3,398		•••	8,401	3,510					
241000	140	44	6,791		•••	6,835	6;975					
	-	·	•		·							
******	. 9	163	2,309	448		2,472	. 2,481					
` 1146	. 42	8	2,251	•••	•••	2,259	2,301					
	. 51	171	4,560	•••		<b>4</b> ;731	4,782					
	368	289	18,490	•••	19	18,798	19,166					
76	6,104	4,815	<b>\$2,76</b> 8	30	9,184	46,797	52,901 Sandalwood					
-	<i>₹</i>						Kh. mds. lbs. 118 1 1 <del>1</del> Rejected pieces 2,342 1,530 trees Chips bags 108					
							•					

# during the year 1916-1917 and Agency of Exploitation-concluded.

÷

•

#### 136

# FORM No. 20.—Outturn of Minor Forest Produce during the year 1916-1917.

Description of Produce.         By Government Agency.         Pay Government Agency.         Pay Government Agency.         Pay Government Agency.         Value.         Quantity.					PRODUC	E REMOVE	D OR UT	ILIZED.			
Joantity         Value         Quantity	Description of Produce.			By p	ourchasers.	By free-g	rantees.	By right	-holders.	. Tot	al.
1         2         0         Ra         Ra         Ra         Ra           Stot Fords         Stot Fords	· · ·			Quantity.	Value.	Quantity.	Value.	Quantity.	Value,	Quantity.	Value.
NUM TRAN CLEME         Jack	1	2	3	4	5	6	.7	8	9	10	11
Apid and Tumbhurni laws	NORTHERN CIRCLE.		Rs.		. Rs.		Rs.	-	Rs.		Rs.
Eductor and bundles	State Forests.							· ·			
Chillani back					23,771	1 1		1			<b>16,943</b> <b>82,600</b>
Gras		1		1 1	417	, j					305 417
Hinks notes "						1 . 1				- ł	204 <b>4,24,5</b> 42
Kasari Jovers	Hirda nuts				1,275	1 . 1			-	•••••	1,275
More read and flowers	Ensent Aumone	-								1	2,273 37
Marganes (on fee)		1			1,778				1		2,601
Pamil haves	Tananana (in Bira)	-			195 1 937				1		195
Bosha grass	Palm leaves				1,366	1		1			1,937 1,365
sai wood				1 1	<b>2,199</b> . 1 1 <i>4</i> 9				•		2,199
Thorns n.	Coli mood					t		4			1,149 45
Nincellaneous        1,114        013        22,464          Total, State Foresis        871        1,58,016        1,083        3,57,443          A pta and Tembhurni layres.        9,573        9,573        8,384          Samboos         9,573         8,7443          Mowirz seed and flowers	Thorns					•	1				1,623
Leased Forests (Surat).	Gaallanaana	-		1 1							3,511 24,191
A'pta and Tembhurni leaves.	Total, State Forests	•••••	871	•••	1,58,016		1,083		3,57,443	•••••	5,17,413
A'pts and Tembhurni leaves.					<u> `</u> `	-	┨────			-	
Bainboos Grass and grazing Hirds ands Mowhra seed and flowers Miscellaneons Total, Leased Forests Total, Northern Circle Hirds and Shikokai CENTRAL CIRCLE, Hirds and Shikokai CENTRAL CIRCLE, Hirds and Shikokai Central Circle Miscellaneons Miscellaneons Total, Central Circle Total, Central Circle Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscellaneons Miscell	Leased Forests (Surat).	-	1	.						1 . 1	
Bamboos	A'pta and Tembhurni leaves.					l				1 1	224
Hirds ands		1 ···· •		•••			1			1 1	<b>12,</b> 962
Mowners aced and flowers	Hirda nuts	- ·	•	1							89,157
Total, Leased Forests	Mowhra seed and flowers			3 ···		•••		•••			4,149
Total, Northern Circle	Miscellaneons •••				2,596		•••	•••	13,776	*****	16,372
OPENTRAL CIRCLE.         Hirds and Shikekái	Total, Leased Forests	*****	.			-	***		55,689	·····	72,866
CENTRAL CIRCLE.       5,159	Total, Northern Circle		4,997	7	1,71,067		1,083	· ···	4,13,132	** ***	5,90,279
Silk cotton	CENTRAL CIRCLE.		-			-					·
Mhowra seed	<b>A</b> <sup>11</sup>			, I – –			•				16,160
Rosha grass	Mhowra seed			5		- E					8 4,938
Fruits	Rosha grass	1 .			5,469					1 1	5,469
Earth, stone, murrum, etc       284        1,527        767        28,481         Grass and grazing        1        2,79,661       38        28,481         Tarwad        1        8,657        38        28,481         Miscellaneons        1        8,657        38        28,9451         Miscellaneons        10,390        3,28,454        852        31,022         SOUTHERN CIRCLE,        10,390        3,28,454        852        31,022         Harda, Shikgekai, Cinnamon,        224        21,780             Harda, Shikgekai, Cinnamon,         21,780	Ernito				9,299	1				• •	9,472
Orass and grazing        1        2,79,661        38        28,481          Miscellaneous        1        38,657        38        28,481          Miscellaneous          4,161        13        28,9481          Total, Central Circle        10,390        3,28,454        852        31,022          SOUTHEBN CIRCLE,       Immoos        294        75,740       84,220       358            Harda, Shikgekii, Cinnamon,         294        294 </td <td>Earth, stone, murrum, etc.</td> <td>•••••</td> <td></td> <td>e 1</td> <td>1,527</td> <td></td> <td></td> <td>,</td> <td>· ·</td> <td>1 1</td> <td><b>4,</b>906 2,578</td>	Earth, stone, murrum, etc.	•••••		e 1	1,527			,	· ·	1 1	<b>4,</b> 906 2,578
Tarwad	Pambaa.	• .				L.		•••	28,481	r 1	3,08,142
Miscellaneous         4,161        13        89          Total, Central Circle        10,390        3,28,454        852        31,022          Bamboos        (a) 96,584       (a) 11,712       5,628,731       65,484       84,220       398           Harda, Shikgekai, Cinnamon, Handa, Shikgekai, Cinnamon, Honey, Wax, Nuxvomica, Ramphal and Rampatri.        (b) 297        6,927             Suarying fees         1,367	Tarwad .		1 -		3,657	1				1 1	11,125 3,657
SOUTHERN CIRCLE.       (a) 96,584       (a) 11,712       5,628,731       65,484       84,220 $398$ Bamboos        224        75,740 $398$ Harda, Shikgekái, Cinnamon,        224 $75,740$ $2,245$ Harda, Shikgekái, Cinnamon, $21,780$ $2,245$ Mamphal and Rampatri. $1,367$	Miscellaneous		•••		4,161	1	13				4,263
Bamboos        (a) 96,584       (a) 11,712 $5,628,731$ $65,484$ $84,220$ $398$ $1,712$ $5,628,731$ $65,484$ $84,220$ $398$ $1,712$ $5,628,731$ $65,484$ $84,220$ $398$ $1,75,740$ $2,245$ $1,780$ $2,245$ $1,780$ $2,245$ $1,780$ $1,780$ $1,767$	Total, Central Circle		10,390		3,28,454	•••	. 852		31,022		8,70,718
Damboos        (a) 96,584       (a) 11,712/5,628,731       65,484       84,220 $398$ Harda, Shikgekái, Cinnamon, Honey, Wax, Nuxvomica, Ramphal and Bampatri. $294$ $21,780$ $2,245$ <td>SOUTHERN CIRCLE.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>·/·····</td> <td></td> <td></td>	SOUTHERN CIRCLE.							-	·/·····		
Grass and grazingHarda, Shikgekái, Cinnamon, Honey, Wax, Nuxvomica, Ramphal and Bampatri. Quarrying fees $\cdots$ $294$ $\cdots$ $\cdots$ $75,740$ $21,780$ $\cdots$ $2,245$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ Quarrying fees Tapping fees Baini trees Supari trees Shindoli leaves $\cdots$ $\cdots$ $1367$ $\cdots$ $\cdots$ $703$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ Tali palm leaves Shindoli leaves $\cdots$ $\cdots$ $1344$ $\cdots$ $\cdots$ $\cdots$ $\cdots$		(a) 96,584	(a)11,71	12 5,629.73	65.484	84,990	899		1.	·	
Honey, Wax, Nuxvomica, Ramphal and Rampatri. Quarrying fees $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ $\dots$ <	Urass and grazing		294	۱. I	75,740						77,594 78,279
Quarrying fees $(b)$ 297 $6,927$ $703$ Tapping fees $1,367$ $703$ Tail palm trees $3,168$ $1,104$ Baini trees $291$ $1,104$ Supari trees $1$ $1,104$ Shindoli leayes $184$	Honey, Wax, Nuxvomica Ramphal and Rampatri.			-	21,780	•••	••••	-			22,077
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Quarrying fees	1	(6) 297	7			703	•••			7,630
Balait trees      291       time      time<	Tali palm trees			- i		•••		•••			1,367
Tali palm leaves	Baini trees		1		291					1 1	4,272 • 291
Shindoli leaves	Tali palm leaves	-					•••	-		1 1	1
	Shindoli leayes		1		184	1		·			641 184
Muttallenyes 1,835	Muttel log gog	1	1	1		F	1	_	j i		1,835
		<u> </u>	1	<b>***</b>		•••	•••	•••	•••		1

(a) Of this Rs. 10,229 is the estimated value of 73,690 bamboos exploited for war supplies from Kanara, N. D. and W. D.
 (b) Estimated value of 7 khandis 8½ maunds harda departmentally collected in Kanara, E. D.

# FORM No. 20.-Outturn of Minor Forest Produce during the year 1916-1917-continued.

•			•	PRO	DUCE REMOT	ED OR UTI	LIZED.		•.	
Pescription of Produce.	By Gove Ager		By purc	hasers.	By free-	grantees.	By right	•holders.	Total.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity	Value.	Quantity.	Value.
1	2	3	4	5	6	7	8	9	10	71
SOUTHERN CIRCLE- continued.		Rg.		Bs.	·	Rs.		· Rs.		Rs.
oppu (green leaves fo manure).	r	100		9	•••	•••				
langoes, Jack Truits an Cashew fruits and leaves.	···	<b>*</b> ##	••••	· · · 8		61	•••	•••	- •••••	6
ori fruits amarind fruits	• •••	•••		. 15	•••			 		1
ndi seeds		•••	*****	23 27 •	5.00 74.9	••••	, *** •	***		22
ulgal sced		• • •		1,314		•••		***	*****	<b>1,</b> 3Ĩ
ivi-divi seed		•••		70	•••	•••		144	•••••	7
aranja secd Abul pods		60		249 397	•••	***	•••	***	*****	
aivdung		***	*****	25	••••	***		•••	*****	. 00
agadful		+=+	646 ·	132				•••		13
oap nut		· •••		78	•••			448		7
handra pit antana		***	*****	- 155 92		**6	•••	***	*****	. 15 9
rickly pear		***		· 35		tes				3
room grass	· · · ·	. •••	•••••	422	•••				*****	42
akes		494	••••	98 32	•••	27 4			100-12	12
horns		*** - ***	******	303		***	••••	···· •	*** **	- 80
um .		202		- 100	···	548 ·	144			<b>S</b> ()
andurbi	• •••	•••		706	•••	983	•••	***	•••	70
irwad bark		***	*****	13,235		***,		•••	******	<b>13,2</b> 3 9
nge oark		188 788		29	 	*** /		***	*****	2
nes		•••		668		2		•••		67
cins and horns		146	600 ice	- 7 47	•••	***	· • • •	••••	*****	4
iscellaneous	<del></del>	10 505		1,95,789		4,514	•••			<b>2,12,8</b> 9
SIND CIRCLE.	· ···	.12,565	*****	1,30,709						
Vegetables, fruit an	M. s.	93	-	•					101.11	9
flowers.		-		*****	141	•••		•••		
Rahuja garden contrac		190	, )	*****			145	•••	*****	. 19
Babul seed		6	101.01			•••		636 488	***,	•
Juari grass	. 3 cart loads.	4		•••••	•••	***		•••		1. J.
Sur-reed Lopping of Bahan Babu		- •••	Contract. 645	1,727 33	••• •••		· · · · · · · · · · · · · · · · · · ·	••• •••	,	1,72 3
and Kandi branches. Babul pod contract		•••	Contract.	1,310			· · · ·	4.4		1,31
Kanh grass		•••	217 bundles	· 14		***		- 1 4		1
Dubh grass		449	303 bundles.	19		*** '		***	*****	] 45
Pabun and Bih contract			Contract.	450	•••• •••		111	***		
Date fruit Mango fruit of Dicker son Forest,	• •••	•••	Contract.	310	***	***		444	*****	31
Value of seed recovere			89 maunds.	89		•••		••• •	••••	. 8
from Maldars. Bark				5				•••		-
	····		2 cart lords.	<b>1</b>		144			·	· 1
Chabar grass .		***	168 head loads 39 head loads.	11 3	20 loads.	· ··· ·	•••	•••	****	· · · · ·
Jaw brushwood	1.	•••	20 cart loads.	3 15	20 103.09.	1		***	*****	1
			3 head loads	2	• • • •		•••	• ••	• • • • • •	
Babul leaves		•==	24 seers.	1 10	•••	•••	•••	•••	*****	10
Value of after growth.		*** .	·····	13,748	····	392	***	2,592	*****	13,73
Carmente		298	 t	17,751	•••	. 393	····	2,592		21,03
Total .			Contract.	1,815						1,81
Babul pods Kana Eur		· · · ·	Do	870		***	•••	•••	*****	· 87( 4(
Kanh grass		•••	Do.	40		9		•••	******	
Kanh grass bundles	• •••	***	******	- 12	190		•••	•••		· 1
Kanh grass bundles Ber fruit Date fruit		***		4	•••		***	•••		· 4
A Manure		•••	100 bales.	6	•••	***		•••	100 bales. 20 mds.	4
Babul seed	•••		20 mds. Nos. 128.	40 8		•••	•••		128 Nos.	· · · · · · · · · · · · · · · · · · ·
Kundi branches	4	***		6,991		317		809		8,112
Grazing										

\* This is exclusive of Bs. 46,482 on account of Sandalwood shown under Government Agency and Rs. 15,000, Rs. 1,80,000 and Rs. 3,00,387 on account of Bamboos, Minor Forest Produce and Grazing shown under Privilege holders in the statement in Chapter II, Section V (o) outturn and sources of forest produce.

D 15-34

## FORM No. 20.-Outturn of Minor Forest Produce during the year 1916-1917-concluded.

		•		PRODUC	E REMOVED	OR UTILIZ	ED.			
Description of Produce.	By Gove Age		By pure	hasers,	By free-	grantees.	By right	-holders.	T	otal.
•	Quantity	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	- Value.
1	2	3	4 .	5	6	- 7	8	<b>9</b> '	10	11
SIND CIRCLE— continued.	Mds. s.	Rs.		Rs.		Rs.		Rs.	Mds. s.	Rs.
Vegetables of Mian garden bungalow.		9	•••		•••	n • •••		•••		• • • • • • • •
Fruit of Miani Bunga low garden.		10		*****		•••	***		*****	10
Juari produced in Bun- galow garden.		4				· •••		· •		4
Karbi grass in Bunga low garden.	bundles.	10	844***	*****	•••		•••		*****	10
Fruit of Miani Mange garden. Do. Kathri Dev garden.	1	1		*****	•••	- ***	•••		•••••	165
Do. Kathri Devi garden.	Do.	251	***?**	****	•••		••••	*48		251
H Babul pods Lae	•=•		Do.	12,447 10,575	3	- •••	•••		••••	12,447
Kanh and Sur grass	• • • •		Do.	521		+++			*** ·*	10,575 521
Jaw brushwood Lopping of babul, and			166 bundles.	10	. <b></b>	***			÷	10
kaudi branches.			Nos. 3,193	271		•••	•••	•••	<i>.</i>	271
Grazing	*	. ***		9,394	•••	1,339	•••	99	* <b>*****</b>	11,432
Total		449		33,818	•••	1,339		99		. 85,705
Babul and kandi pods		1,660	Contract.	1,875	·			•••		3,585
6 Lac contract	***	***	Contract.	95 6,525	•••			***	•••••	95
Mango fruit	+++	***	· ·····	0,025	•••	• • • •	***	•••	*== * * *	6,025
Sale of kamo creeper Babul seed	o		•••••	40		•••				- <b>3</b> 40
Grazing	75 0	• 56	144	7,217		••• •••		•••		50 S
			•**	<i> </i> 14¢	***	1,094	····	. 359	***	8,070
Total	***	<b>1,716</b>		15,755	••••·	1,094		309	*****	18,921
Total, Sind Circle	•••• <sup>]</sup>	2,463		77,110		3,152		3,859		· SC,584
GRAND TOTAL	•••	30,415	*****	7,72,420	•••	9,631		4,48,013	******	12,60,479

# FORM No. 21.—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally, or otherwise disposed of during the year 1916-1917.

				•								
Name of Division or Bauge	Balance at commenc ment of the year in Forest and Sale Depôts.	e Received during ts the year.	Total.	Disposed of during the year.	of the year		on or Rango	Balance at commence ment of the year in Forest and Salo Depôts.	e- Receiv durin tho yea	g Total	Dispose of during the yea	the year
1	2	8	6	5	6	I		2	8			6.
, NORTHERN CIRCLE. Tinber.	0. ft.	C. ft.	C. ft.	C. ft.	C. ft.	SOUTHERN		0, 1	. C. 1	it. 0. 1	t. C. fi	C. ft.
East Thána North Násik		31,483 3,105 5,278	2,607 87,565 82,059 3,115 5,270	2,807 53,363 17,115 2,308 5,276	\$1,203 14,943 807	Kánara, Northor Teak Blackwood Junglewood			14,2	56 69,67	2 14 72	7 54,945
South Násik Sub-division .	. 7,286	-	7,501	7,501	· · · · · · · · · · · · · · · · · · ·		Total .	455,762	363,9	50 819,71	7 471,51	4 849,173
Total, Timber	<b>2</b> 9,089 	1,09,233	138,322	88,370	49,952	Kanara, Eastern	1 Division-		-			+
Fuel. Panch Maháis Surat North Thána West Thána	12,150 103 	10,160 9,040 4 360	7,960 24,787 16,263 9,040 4,360	7,960 18,523 13,960 9,040 4,360	6,264 2,303	Tenk Blackwond Junglewood	. ••• •		1,6	37 2,84	8 72	3 2.123
West Násik Sub-division			18,272	2,502	15,680		Total .	115,938	210,80	826,83	6 199,96	9 126,987
Total, Fuel		67,809	80,682	56,435	24,217	Kánara, Central	Division-					
Minor Forest Produce. Panch Maháls	Rs.	Re. 60	Rs. 60	Rs.	Rs. 60	Teak Blackwood	••• •	. 62,010				
Surat	. 5,258	1,908 1,152 1,587	7,168 1,152 1,587	5,261 	1,905 1,152 1,541	Junglewood	••• •		136,97	/5 210,60	7 123,119	87,305
Total, Minor Fores produce		4,707	9,965	5,307	4,658	Time On the	Total .		260,77	3 399,56	9 296,046	103,622
Total, Northern Circle	C. ft. 41,902 + Rs. 5.258	C. ft. 177,102 + Rs. 4,707	O. ft. 219,004 + Rs. 9,965	C. ft. 144,805 + Rs. 5,397	C. ft. 74,199 + Rs. 4,658	Kánara, Souther Teak Junglewood	496 8	6,263 6,531		6,26 6,90		
GENTRAL CIRCLE.				6,507			Total .	12,84	4 32	7 18,17	L 4,203	8,008
-					, ,	Kánara, Western	Division—					-
Timber. East Khûndesh North Khândesh Kolaba	173	291 426 246	1,526 426 419 7,217	1,203 426 303	\$23  116 \$23	Teak Blackwood Junglewood	800	251	76,250 1,32 83,595	1 1.572	747	17,435 825 60,788
Pouna	1	7,161 2,691	3,084	6,894 2,69 <del>4</del>	020 111		Total	10,003	166,166	3 177,069	89,978	88,093
Total	1,464	10,808	12,272	11,510	763	Belgaum Divisio	a		-			
Firewood. East Khøndesh North Khøndesh	29	24,570 340	24,650 369	<b>24,</b> 650 310	29	Teak Blackwood Junglewood	899 891 898 898 899 899	115	13,916 1,202 79,141	1,407	600	7,149 897 7,078
Kolaba Poona Sátara	I D'000	60,946 129,964 127,100	05,897 138,052 162,350	55,380 127,212 129,633	10,517 10,840 32,717		Total	1,521	91,249	95,770	80,736	15,03 i
. Total	49,398	. 342,920	391,918	337,215	54,103	Dhárwár—Bijápu	r Division					
Minor Forest Produce.	Rs,	Rs.	Re.	Rs. '	· Rs.	Teak	••• •••	(a) 3,076	1,274	1,274	1,274	***
West Khandesh North Khandesh Kolaba Poona		2,182 2,764 16 5,245	2,182 2,764 16 5,245	2,182 2,764 16 5,245			Total	(a) 3,976	1,274	1,274	1,274	
Sátara ••• •••	•••	. 100	185	182	3	Total, Southern C. Teak	s.s an	536,971	(a)651,032	1,151,027	815,056	808,371
Total		10,392	10,892	10,380	3	Blackwood Junglewood	···· ···	60,096 142,677	25,816 420,789	85,912 563,460	22,480 304,682	63,452 258,834
Famine Fodder (arrears from 1915-16).		Q1 70P	A1 702	, 84.092		Total 1	limber	739,744	( <i>a</i> ) 1,097,037 —3. <b>976</b>	1,883,405	1,142,743	690,057
West Khándesh *** Kolaba *** ***		61,725 1,045	61,725 1,045	64,735 1,045		Fuel, Kénara Fastern I	ligision	100		100	109	
Total Total, Central Circlo	C. 1t. 49,862	85,770 C. ft. 358,728	65,770 C. ft. 403,590	05,770 C. 1t. 348,725	 C. ft. 54,865	Kánara, Eastern I Kánara, Southern Kánara, Western Belgaum Division Dhárwár-Bijápur I	do do Division	40,367 265,333 472,117 2,341	241,019 920,853 2,848,028 5,554	291,416 1,165,686	132,450 935,795 2,650,568 7,470	145,960 190,891 760,577 475
	+ Rs.	+ Rs. 76,162	+ Rs. 76,162	+ Rs. 76,159	+ Rs. 3	<b>4</b>	Total	760,258	4,115,011	4,693,272	3,776,369	1,110,903
			I	<u> </u>	1		1	<u></u>			1	

(a) 3.976 c. ft. teak of Dhárwár-Bijápur being trausferred partly to Kánara, Northern and partly to Kánara, Eastern, the material stands included in the figures of those Divisions.

.

•

-

•											-
ł	Balance at commence- ment of the year in Forests and Sale Depôts.	Roceived during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in Forests and Sale Depôts.	Name of Division or Bange.	Balance at commerce- ment of the year in Forests and Sale Depôts.	Received during the year.	Total.	Disposed of during the year.	Balanco in hand at close of the year in Forests and Sale Depôts.
1	2	3	- 4	5	6	1	2	8	4	5	6
SCUTHERN CIRCLE —continued.	Rs.	Rs.	Ba.	Rs.	R5.	SIND CIRCLE,	C. ft.	C. ft.	C. ft.	C. ft.	Ċ. ft.
Bamboor.			ļ			Timber.					
Kanara, Northern						Sukkur		1,506	2,325	1,952	873
DivisionValue Kánara, Eastern		9,156.	2,156	•••	2,156	Lárkána	· ·	640	733	640	93
Division Kánara, Western	-	299	299	299		Hyderabad	128	414	542	800	242
Division		8,638 618	8,639 619	565 619		Jerrack	8465+6	8,498	8,498	5,855	2,613
TotalValue		11,712	11,712	1,483	-{						
Sandelwood.	-				1	. Total	0,080	12,118	12,005	8,747	9,351
Kánara, Northern DivisionValue		4,124	4,124	4,124						·	
Kánsra, Eastern Division		12,00)	12,0.0	12,000		Fuel.				1	
Kánara, Central		(c) 6,719	6,719	6,719		Sukkur	. 500	39,797	40,857	40,074	283
Kánara, Southern	5	4.961	4,963	4,951	1	Lárkána 🗤 🗤	. 22,300	83,660	55,960	50,960	5,000
Belgaum Division	2,000	6,131	8,171	7,716	405	Hyderabad	. 25,822	44,381	70,208	83,235	30,963
vision		11,072	11,072	10,972	100	Jerruck	2,000	171,546	173,546	160,146	13,400
TotalValue	2,005	44,997	47,002	46 452	520	1. · · ·					
Minor Forest Produce.						1					
Kánara, Eastern DivisionValue		- 297	.297		(3) 297	`Total	. 50,682	289,384	340,068	264,415	55,661
Beigaum Division Dhárwár-Bijápur Di-	510		636	(8) 620	16	Minor Forest Produce.	Rs.	Re.	Rs.	R9.	
vision	<u></u>	202	202	202	<u> </u>	SukkurValue		360	692	-	Rs.
TotalValue	510	625	1,135	822	313	Tánkéna	240	1,034		473	- 219
Drift and waif wood and confiscated Forest Produce.	·					Hyderabad	6	1,206	1,274	1,151	123
Eanara, Northern	-	·				Iarmuch	140	1,282	1,272	1,240	32
DivisionValue, Kauara, Eastern		5	5	. · 5	•••	JOITUCK (*** 2)	140	. 1,202	1,422	1,212	160
Division		1	3	1		· ·					
Division Bouthern ".	(c) 22	8	8	3		Total mValuo	695	8,162	4,660	4,100	584
Division " Kánara, . Western "		65	65	65							·
Feigaum Division	- 70	71 9	71	71 79	]   100	Total Sind Charl	0. ft.	C. ft.	C. ft.	C. ft.	 , C. ft.
Dharwar-Bijapur Di-		1	27			Total, Sind Circle	<b> </b>	3∩0,502 _+	352,164 +	293,162 +	69,003
Ratnágiri Division ,		27	8	27 3	•••		Rs. 693	Rs. <b>3,</b> 962	- Rs. 4,660	Rs. 4,106	11s. 554
.Total	92	184	254	- 251	• • • •						
Total, Southern Circle	C. ft. 1,520,002	C. ft. 5,203,675	C. ft.	C. ft.	C. ft.		C. ft.	C. ft.	C. ft.	0. ft.	C. ft.
	+ Rs.	- Rs.	6,728,677 + Po	4,919,117	1,869,580	GBAND TOTAL	1,663,428	6,040, 07 +	7,708,535	5,705,903	1,997,626
	2,607	57,436	Rs. 60,103	Re. 49,041	Rs. . 11,062		Rs. 8,563	Rs. 1,42,327	Rs. 1,50,890	Re.	Re,
			[						1)00'98A	1,34,613	16,277

FORM No. 21.—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally, or otherwise disposed of during the year 1916-1917—concluded.

(b) Includes B3. 206, value of grass written off. (c) B5. 22 stands included in B8. 6,719.

	ON HANI C	) AT COMME F THE YEAR	NCEMENT	On han	D AT CLOSE YEAR.	OF THE	DIFFEE IN VA	ENCE	•
Description of Timber and other Forest Produce.	No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.	Remarks.
1	2	8	4	5	6	7	8	9	10
NORTHERN CIRCLE,			Rs.			R5.	Rs.	Rs.	
Timber.			-						•
Surat North Thana West Thana South Nasik	••• •••	21,218 575 10 7,286	24,095 175 25 200	••• ••• ••	84,202 14,943 807	43,778 2,500 1,614	• • • • • • • • • •	•••• •••• •••	
Total, Timber		29,089	21,495		49,952	47,892	23,397	•••	
Fuel.		-							
Sarat North Thana South Nasik	••• ••• •••	12,150 103 560	1,556 50 42	• • • • • • •	6,264 2,303 15,680	1,279 230 436	•••	•••	
Total, Fuel	•••	12,813	1,648	***	24,217	1,945	297	•••	•
Minor Forest Produce.						-			
Panch Mahals Surat West Thana East Thana	*** •••	•••• ••••	5,258	684 484 884 144	• • • • • • • • • • •	60 1,905 1,152 1,541	••••  	114 144 144 144	•
Total, Minor Forest Produce	***	•••	5,258	•••		4,658	, 4+4		
Total, Northern Circle	• • •		31,401	<u></u>		54,495	23,094		
CENTRAL CIRCLE. Timber.	-								e
East Khándesh Kolába 🗰 Poona	1,297 57 25	1,235 173 56	356 63 3	241 16 143	116	83 36 33	•••	*** 	
Total, Timber 🐽	1,379	1,464	422	400	762	152	***	270	
Firewood.		-	* <u>.</u>						•
East Khándesh North Khándesh Kolába Poona Sátára	4 1 	80 29 4,951 8,088 35,250	12 10 1,818 505 2,150	•••• ••• ••• •••	 29 10,517 10,640 32,717	10 1,340 677 1,612	· · · · · · · · · · · · · · · · · · ·	•••• ••• •••	
Total, Firewood	5	48,898	4,495		54,103	3,639	· · · ·	856	×
Mhowra.	ÿ.	Lbs.	,		Lbs. 191,567	4,789			· .
West Khándesh North Khándesh	•••	7,073 15,798	300 300		39,717	745			
Total, Mhowra		22,871	600		231,284	5,534	4,934		
Seeds.	Kh.	Mds.	Lbs.	Kh.	Mds.	Lbs.			·
East Khándesh Poona Sátára	3 . 16	19 18	27 26 25	1 7 7	20 1 21	18 0 14	1 	···· ····	
Total, Seeds	21	6	21	16	15	4	•••		• ·
Total, Central Circle	•••		5,517			9,825	3,808	-	

FORM No. 22.—Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1916-1917.

D 15-85

## FORM No. 22.—Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1916-1917—concluded.

· .		) AT COMMEN OF THE YEAR.		On han	D AT CLOSE ( YBAR.	OFTHE	DIFFERE VALU		
Description of Timber and other Produce.	No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.	Romarks.
1	2	· 3	4	5	6	7	8	9	10
SOUTHERN CIRCLE.			Rs.			Rs.	Rs.	Rs.	
Timber. Cak Slackwood unglewood	4,051	536,971 60,096 142,677	8,70,167 43,942 1,17,949	140,891 5,366 40,560	<b>3</b> 68,371 63,452 258,834	7,75,611 56,604 2,69,038	12,662 1,51,089	94,556 ••• ···	
Total, Timber	. 141,639	739,744	10,32,058	186,817	690,657	11,01,253	69,195	•••	
Fuel	•••	7,80,258	50,985		1,118,903	71,855	20,870		
Eamboos 🔐 🚥 Valu	e.   •••	-	•••	•••		10,229	10,229		
Eandalwood , 🗤 Valu	e.		2,005	***	•	520	•	1,485	
Minor Forest Produce Valu	e		510	•**•	•	313		197	
Confiscated Forest Produce	••		92	+++	·			92	
Total, Sonthern Circle . SIND CIBCLE.	•• •••	•	10,85,650			11,84,170	98,520	•	
Timber.				•					
-	. 21	107	26	28	108	27	•••	•••	
<del>-</del> .	71	· 213	- 40	65	177	83	•••	148	
Asri logs	76	192	24	2	• 4	1	•••		
Jaw rafters	. 340	181	42	513	266	_ 60			
Bahan posts	15	15	4	46	46	12	•		
Kandi cart axles 🛛 🚥	• 1	_1	. 449		•••	•••			
Babul cart axles	- 7	7.	2	4	4	1	•••	•••	
Kandi stakes	- 4	2		***			ļ	• •••	A
Bahan logs	- 26	78	19	13	39	9		•••	
Bahan Varas		3	1	. 2	6	2			
Lai props	8	24	3	***			••••		
Kandi props	26	78	-15	•#\$			 Pat		
Lai Manghas	. 80	40	2	80	40	1			
Kandi Varas	. 4	12	3	3	9	3			
	. 9	27	3	•••			•••	•••	
Dahal mana	*** *** ** ***	•••	949 999	87 3	2,643 9	348	***		
Total, Timber	• 689	980	184	846	3,351	500	316		
Firewood and Charcoal.	Mds.			Mds.					
Rimmond	130	49,805 877	1,666 25	1,181	47,680	1,344			
₩-4-1 <b>\$</b> ₩1			1,691	1,181	7,971	78		•••	
Minor Forest Produce.	Mds.			101,12 	55,651	1,420			
Babul, Kandi and other seeds .		•••	697	688	1				
Jam brushwood	- 20		1	880		554 •••	•••	•••	
Total .			698	688		554		 144	
Total, Sind Circle .		***	2,573	***		2,474	· · · · · · · · · · · · · · · · · · ·		
GRAND TOTAL .	•		11,25,141		+++	12,50,464			• ,

Description of Live and Dead Stock.		AT COMMENCE- THE YEAR	On e close of	IAND AT F THE YEAR.	DIFFERENCE	IN VALUE.	
of 2.10 and Deal Stock.	No,	Value.	No.	Value.	In favour of the year.	Against the year.	Remarks.
1	2	. 3	4	5	6	7	S
NORTHERN CIRCLE.		Rs.	· · · ·	Rs.	Rs.	Rs.	······································
Live Stock.	-	×.,	-		-		
Bullocks	3	294	3	294			
Dead Stock. Buildings	284	2,97,153	289	<b>8,1</b> 4,510	17,857	•••	-
Copying machines	. 8		8	•••	•••	•••	J
Cyclostyles Carts	777		777	133	•••	•••	
Hay presses	111		111 12	•••	•••	•••	
Steel wire ropes Stores, tools, plant and office	12	•••	12	***	•••	•••	
furniture	3	63,987 600	••• 3	65,715 600	1,728	•••	
Lypewriters, Empire Remington Typewriter	6		6	•••	••• •••	•••	-
Cents and rahutis	34	<b>4,400</b>	34	. 4,400		•••	·
Total, Dead Stock	472	3,66,273	477	<b>3,</b> 85, <b>3</b> 58	19,085		•
Total, Northern Circle	475	3,66,567	480	3,85,652	19,085	· •••	
CENTRAL CIRCLE.		-			· .		
Dead Stock.	• .		Lire	Stock—Nil.		-	.•.
Buildings	147	1,71,724	148	1,71,924	. 200	•••	• .
Íents	8	2,138	8	2,135	•••	3	
Rahutis (Kabul pal fan)	27	2,172	27	2,170		. 2	
Tools, plant and office furniture		34,598	•••	34,339	•••	259	
Remington Typewriters	9	•••	7*	•••	•••		<ul> <li>Correct fi ure given.</li> </ul>
Empire . Do	2	***	4*		•••		
Copying machines	5	••••	5	•••	••• ·	•••	
Cyclostyles	5	•••	5	1++	•••	• •••	
Boat with fittings	1	1,371	- 1	1,371	•••		·
Boon furniture` +++ +++	•••	700	••• 	650			•
Total, Dead Stock	204	2,12,703	205	2,12,589		314	. 1
Total, Central Circle	204	2,12,703	205	2,12,589		114	

.

,-

# FORM No. 23.—Abstract showing the value of Live and Dead Stock for the year 1916-17.

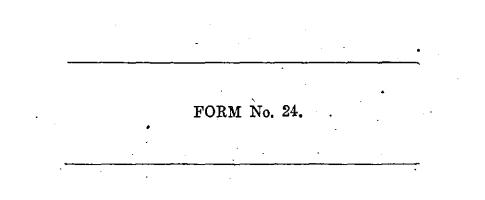
4	APPENDICES.
±	FORM NO. 23Abstract showing the value of the Live and Dead Stock for the year 1916-17-concluded.
	FORM NO. 23Abstract showing the value of the Live and Dead Scool for the generation

		HAND AT C		On	HAND AT OF THE Y	CLOSE BAB.	Differe Val		Remarks.
Description of Live and Dead Stock.		No	Value.		No	Value.	In favour of the year.	Against the year.	ACEBURAS.
1	_}	2	3		4	5	6	7	8
SOUTHERN CIRCLE.			Rs.		- ·	Rs.	Rs.	Rs.	
Live Stock.	•		•		1				
Buffaloes and bullocks	•	57	2,952	2	60	2,945	•••	7	
<b></b>		57	2,95	2	60	2,945	•••		
Dead Stock.	· {		01			6 06 99 <i>4</i>		5,980	Value of Saw-mill
Panaing +	•••	<b>3</b> 92 9	3,02,31 2,21		365 9	2,96,334 1,909	***	303	and other machiner
	•••	22	1,83	8	22	1,838	····		Rs. 42,160 hithert wrongly included i
Tools, plant and office furniture	•		(a) 47,92	2	•••	46,343	4	1,579	(a) is now separatel shown, vide item
Typewriters Remington	•••	1 2	•••		1 2	***			marked (b). ~
	•••	7	•••		7	•••			
Cyclostyles	••	6	••• • 7 <i>C</i>		8	9 065	•••		
Carts ··· ·	•••	38 4	<b>2,</b> 16 13		39 4	2,068 13:			
Guns Bicycle	•••	i	12	9	· 3	379			(c) 2 Saw-mills
Terr and for		4		52	10	678	5		Kanara, N. D.
	•••{	6.	(b) 14 25,38	0 <b>5</b>		25,382	1		
Monorail materials	••••	•••			2	38,731	7 10 030		(d) Saw-mills new
Saw-mills (Steam power)	•••	2	(b <b>)</b> 40 <b>,7</b> 7	0 (d	) 3	46,93	9 <b>)</b>		purchased- 1 for Kanara, E. D.
Distillation Plant Windlass	••• }	••••	(b) 1,20	)n  .	์ <u>1</u> า	91) 91) 1,14)		60	1 for Kanara, C. D.
Crab Winch		ī		50	, î	4		8	I for Kanara, W. D.
Total, Dead Stock		496	4,24,78	- -	478	4,62,82	48,092	10,058	•
Total, Southern Circle	••-	553	4,27,73	9	538	4,65,76	6 38,027		
SIND CIRCLE. Live Stock.		•			•	<del></del>			•
Bullocks		11	24	16	11	24	6	•••	1
Camels		32	1,16		31	1,36		•••	
Total, Live Stock		43	1,4(	26	42	1,60	6 200		-
Dead Stock.			]						
Buildings	, 	. 96	47,70		92	47,74		•••	
Tents Stores, Mathematical		14 643	2,9		14 724	<b>2,95</b> 5,78		•••	
Tools, plant and office furniture	***	2,533	13,8		2,647	14,04	0 7		
Remington Typewriters	4.67	5			6	+++	•••	•••	
Empire Typewriters	••		•••	ł		•••	•••	• •••	
Copying machine Iron safes	**	1	2	01	1	20	1	•••	}
Miscellaneous		522	1,4		544	1,67		•••	
Total, Dead Stock		3,816	71,5	83	4,029	72,40	0 83	3	-
Total, Sind Circle			72,9		4,071	74,00	_	6	-
GEAND TOTAL		5,091		)		11,38,01	_		-

·

.

•



**D** 16---36

· 1	PPENDICES.			
• -		•	• •	There at it
FORM NO.	24.—Summary	of Reven	ne and L	expenditure of th
				1
				Struck Branth

		FURM INC. 24	Summary of Rel		
Budget Head.	Direction.	North Théna Division.	West Thâns. Division.	East Thâns Division.	North Nasik Division.
				Rs. a. p.	Rs. a. p.
NORTHERN	R#, n. p.	Rs. a. p.	A34 - F.		
CIBCLE.			. 1		
REVENUE.					
Froduceremoved					
from the Forests by		<b>5,275 9 0</b>	238- 5 0	1,819 6 0	+24 544
a Timber and	ag= 990	_	719 8 0	109 1 0	7 12 0
Charcosi	100 cl 1	187 12 0 3 8 0		45 13. 6	800 MA
d Sandalwood		100Ma	·		
e Grass and other minor produce	****	496.2	<b>89</b> 6 ju 10	*****	******
f. Famine fodder	`i	5,465 13 0	922 11 0	1,474 4 4	7 12 0
Total, I		0,400 13 U			
11.—Timber and other Produce removed from the Forests by Consumers or Pur-				-	
chasers-	4.5	7,76,773 2 3	3,32,551 18 10	2,73,751 7 3	10,906 3 (
a. Timber and	327 6-0	803 7 10	2.236 14 6	174 10 6	5,456 15
e. Bamboos	0 12 0	10,623 11 0	2,2.5 0 6	1,016 18 6	124 0 (
d. Grazing and 10d-	73 10 0	6,056 12 0	2,690 8 0	3,973 15 10	40,262 2
e. Other minor pro-	28 10 0	301 10 0	6,700 11 8	6,136 8 5	. 6,504 5
Cohenitems			*****	*****	-
g. Commutation		619-18b		9 Mi al la	
<sup>•</sup> Total, II …	429 6 0	7,94,8:8 11 1	3,45,447 11 6	2,83,031 8 5	63,253 9
III Drift and Waif		,	-		 
Wood and Confiscat- ed Forest Produce	800	476	22 3 3	409 66F	158 11
Total, III	300	476	13 8 3		156 11
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		•
IV Revenue from Forests not managed	:		· •		
hu Covernseit	-				•
4. Duty on Inreign		• • ·			
forest produce b. Revenue from	<b>***</b> *	* ******	.,, 100	****	89+964
shared and pri- vate Forests		640×14	1,546 10 0	10 6 2	
Total, IV			3,215 10 0	70 8 2	
There's TA was					
Fines and forfei-	) · · ·	· · ·			t ·
tures	******	463 12 5 244 1 0	902 9 0 149 13 2	1,330 5 0	' <b>829</b> Ø
s. Refunds	906 10 0	3,883 0 6	8,182 11 4	3,270 6 0	4,079 9
Tota!, V	906 10 0	4,589 13 11	8,535 1 6 -	4,643_11_2	5,007 9
Grand Total, Bevonue.	- 1,339 0 0	8,04,418 18 6	3,51,174 5 8	2,89,209 13 1	68,427 10
	\		\		
- EXPENDITURE.			}		ĺ
ACORBERVANCE AND WORKS.		l · ·	1	, · ·	ł
	1.				ļ
1Timber and other Produce removed	i	ļ	<b>}</b>	·	l - ·
from the <b>Forests by</b> Government Agency—	1				Î.
a. Timber and		8,677 10 3	627 4 8	175 8 0	******
charcosl		6 15 0 1,713 10 6	170 6 0	116 3 6	**************************************
d. Sandalwood		· ******			•••••
minor produce		,		******	0 10
Total, Ari		4,798 8 9	997 10 8	291 9 6	0 10
11Timber and other		· ·	•		] .
Froduce removed		1	1	{	}
Consumers or Pur-		7,027 9 9	4,167 9 7	8,481 11 4	B1# 10
chasers	1	7,027 9 9	4,167 9 7	. 3,481 11 4	216 13
Total, A-II					
III.—Drift and Wolf Wood and Confiscat	· ·	1	1		1.
ed Forest Product			0 10 0	3 15 0	
Total, A-III	are 45.0		0 10 0	1 15 0	*
		1	·	· · ·	1
IV Revenue from	1		1.	-	1 ·
Forests not managed by Government—	{		1	· · · ·	1
Forests not managed by Government— a. Duty on foreign timber and other	· ·			4	
Forests not mariaged by Government— a, Duty on foreign timber and other forest produce b, Revenue from	-		- M 8789	310 Add	<b>41</b> 44444
Forests not managed by Government— a. Duty on foreign timber and other forest produce	-	ore 227		,	dia 100
Forests not mariaged by Gocernment- a. Duty on foreign timber and other forest produce b. Revenue from ghared and pri-				•	

•. •		APPENDI	CES.		
different	Divisions for the f	orest year <b>1</b> 916-1917.		-	

		1					
	South Násik Division.	Násik Sub- Divísion.	Surat Division,	Panch Mabdle Division,	Working Plans Division.	Direction Famine Fodder Division,	Total for the forest year 1916-1917.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	. Rs. a. p.	Rs. a. p.	Ra. a.
	.*						A.G. 0.
	-	· · ·	Ì,				
	934 10 8		110.000 0 (		-		
		414770 	1,16,093 3 4 1,167 8 7	1,712 4 0	0+1160		1,25,538 0
	101 8 9 270 0 0	70 0 0	30 0 0	414 410 41 4191 44 4191	41,198 71+146	******	2,292 11 48 5
	******	- 	4,948 11 9		******	····	870 0 4,948 11
_	. 1,306 3 5	70 0 0	1,22,239 2 8	1,712 4 0	*10 200		651 14
,	· ·	) — / -: -: -: -: -: -: -: -: -: -: -: -: -:			······································	641 14 0	1,33,840 0
	-		•	-			•
	1,05,304 15 0	150	\$0.000 tr #				
	2.119 9 6	785 12 0	59,890 15 7 29 ,9 0	1,27,602 7 6 -603 13 3	******	******	16,86,782 5
	6,805 1 9	61 4 0		1,535 12 11		• • • • • • • • • • • • • • • • • • • •	12,393 0 33,348 4
	34,578-12 9 7,558 10 6	396 15 0 1,061 15 6	2,335 1 0 3,70 <i>4</i> 7 0	8,134 15 6	414338	4 49 199	<b>\$8,501 7</b>
	7,550 10 0	1,001 15 6 •**••	3,796 7 9	10,131 5 7	914 94 9 041 029		39,216 .2
	1.58.995 1.0						
_	1,58,365 1 6	2,307 3 6	76,984 13 3	1,48,008 6 9			18,70,186 4
					{		
<u></u>	169 10 9 - 169 10 9	24 0 6	13 12 0 13 12 0	610	<u></u>	•+•, 	401 14
<u> </u>			10 12 0	610			401 14 9
		•	• 1				
				· ,			
	444.44	549.443 	*****6		****		
	····	*****	56 0 3				1.313 2 5
			6 0 83				1,313 2 5
	-						÷
-	1,203 4 0 23 6 8	74 6 0 18 12 0	462 5 3 380 14 5	232 3 6 5 11 8	- ••••,,,,´	*** ***	4,296 13 2 869 11 1
~	2,364 3 5 - 3,595 14 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		8,094 15 0	484 144 		29,513 8 10 31,68) 1 1
	1,01,436 13 9	4,037 0 2	2,01,657 7 3	1,5 8,059 9 11	The second second second second second second second second second second second second second second second se	641 14 0	20,40,421 6 11
-			———	[·			
•							
				•			
	. · ·				• **		
	23 0 0		44,230 12 1	681 1 0	110710	*****	49,620 2 0
	243 2 4	900 000 200 000	630 6 0 - 74 2 0	******* ******		481 e #	1,049 13 4 1,304 0 0
,		*****	4,134 11 0	21 2 8	••••••	******	4,560 7 0
	410 0 0 C 80 2 4		49,039 15 1	. 702 3 0		,	50,540 6 4
							•
	3 12 0	4 5 9	4,628 10 9	1.902 0 11			24,165 4 0
	3 12 .0	4 5 9	4,628 10 9	1,902 0 21			24,185 4 0
						•	
	,		4 0 0	0 8 0			11 7 0
			400	080			11 7 0
	-			•	*****	<b>51</b> 1111	
	<b>-n</b>	501 FFF · · ·	-	-			5 8 0
		·	8 8 0		·····		880
	••••••	_ *****	0 0 0 0 1				

\_\_\_\_\_ .

١

-

· \_

FORM No. 24.-Summary of Revenue and Expenditure of the

Budget Heads.	) Direction.	North Thána Digision.	West Thana Division.	Easr Thána Division.	North Násik Division,
EXPENDITURE-con- tinued.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs, a. p.
WOBES-continued. VRent of leased Forests and Payments to Share- holders in Forests manag-				306 8 9	9,875 <b>4</b> 4
ed by Government				306 8 0	3,875 4 4
Total, A-V		······			
VILive-Stock, Stores, Tools and Plant-			1		
a. Purchase of cattle	*****	a14.838	******	*54+04	a19 <sup>244</sup>
cattle	•••••	· ••••	*****		
tools and plant	545 10 1	55 12 0	55 4 0	148 9 0	
Total, A-VI	545 10 1	55 12 0	55 4 0	148 9 0	
VIICommunications and Buildings-					
a. Roads and bridges		3,727 7 2	1,007 13 9	2,399 9 9	
b. Buildings c. Other works	****** 115***	13,418 0 11 4)4 14 6	350 13 3 43 12 0	269 0 9 43 2 0	
Total, A-VII 🚥	••••••	17,550 6 7	1,402 7 0	2,250 12 6	
VIIIOrganization, Im-					)
provement and Extension of Forest-	ŀ		]		
a, Demarcation		451 5 0	501 12 3	891 1 9	. 109 0 6
b. Cost of Forest Settle- ments and Compen- setion for land and	-	j			
sation for land and rights		20 12 7	10 8 0	17 0 8	******
d. Working plans	96 0 0	103 14 1 2,783 7 2	140 0 9 804 12 6	489 15 6 87 9 6	44 8 8 108 5 0
f. Protection from fire g. Other works	150 0 0	2,863 12 0 20 0 0	3,6.9 5 6	4,735 6 11 950 2 6	246 7 0
Total, A-VIII	246 0 0	6,333 2 10	5,069 7 0	6,613 8 11	508 4 9
IXMiscellaneous-	ł	ľ	4		
a. Law charges b. Other charges	841 13 6	2,344 3 1	2,501 9 5	2,783 12 0	. 1,284 5 5
Total, A-IX	841 13 6	2,314 3 1	2,501 9 5	2,788 12 0	1,234 5 5
TOTAL, ACONSBEVANCY AND WORKS	1,719 15 7	38,110 0 0	14,194 9 8	16,183 2 0	
BESTABLISHWENTS.					•5,684 6 4
ISalaries_					
a. Conservators b. Superior Officers c. Subordinate Forest and Depôt Establish-	18,000 0 0 1,070 11 0	16,429 1 11	11,099 4 2	15,863 6 5	5,420 5 4
d. Office Establishments.	685 13 4 7,028 9 4	24,794 0 3 5,889 4 8	29,810 10 3 7,194 7 6	29,272 11 1 6,12) 6 9	15,120 14 4 4,072 15 8
e. Deputation and Special Allowances f. Exchange Compensa- tion Allowance-	<b>94739</b> ,	69 22 21	946 4 11	1,535 1 3	2 15 3
1. Conservators 2. Deputy Conserva-	***(***	***	*****	******	******
tors	*******	*** ***		*	******
vators 4. Extra Assistant Conservators	******		****	<b>0</b> 01 503	940 ara
Conservators		*** · · ·	**************************************	*** **	436.04
Total, B-I	27,385 1 8	47,181 2 9	49,020 10 10	51,706 9 6	24,626 2 2
IITravelling Allow- ances- a. Conservators	2,554 5 10		Į		•
<ul> <li>b. Superior Officers</li> <li>c. Subordinate Forest and Depôt Estab-</li> </ul>	9 10 10	2,018 6 0	1,863 4 9	2,536 8 0	1,233 4 0
lishments d. Office Establishments e. Forest School (Dehra-	35 0 0 843 0 10	2,823-4 4 819 15 8	2,959 0 1 - 841-0 0	2,409 7 8 612 4 6	. 1,587 9 2 303 13 8
Dun) f. Plague allowances	102 8 9 33 1 0	81 12 4 25 0 0	28 3 8	143 0 11 15 0 0	172 8 0
Total, B-II	3,577 11 8	5,772 6 4	5,690 8 1	5,808 5 1	3,209 12 10
IIIContingencies-		•			
a. Stationery b. Carriage of Tents and	60 7 1	365 2 11	421 3 1	413 11 8	165 10 1
e. Rents, rates and	258 0 0	235 1 11	334 5 9	250 11 0	121 1 0
d Pay of Police Guards.	962 0 8	763 14 5	***	769 11 8	4300
e. Official postage f. Suudrics Payments to Officers of	435 4 G 307 10 6	932 2 6 503 9 3	817 3 6 395 8 3	1,003 7 6 202 9 2	325 2 0
other Provinces					189 8 9
Total, B-III	2,053 6 9	2,894 15 0	2,038 4 7	2,780 2 7	849 5 10
TOTAL, B-ESTABLISH-	33,016 8 8	55,753 8 1	56,810 7 6	*	
GRAND TOTAL OF EX-				60,333 1 2	28,773 4 10
PENDITURE 100 000	34,736 3 8	93,869 8 1	71,014 1 2	76,516 3 2	. 84,659 11 2

•

South Násik Division.	Násik Sub- Division,	Surat Division.	Panch Mahals Division.	Working Plans Division.	Direction Famine Fodder Division.	Total for the forest year 1916-1917.
Rs. a. p.	Rs. a. p.	Rs, a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
******		* 18,001 6 8				22,183 3 9
416567		18,001 6 8	414 114	· · · · · · · · · · · · · · · · · · ·	#*****	22,183 3 6
·	-		•			
* \$ \$ \$ \$				******	*****	*** ***
•••••• 66 10 0	100.15	874 2 9 841 8 9	1 15 9	100	*****	374 2
66 10 0		915 11 6	1 15 9	100	*** + + + + + + + + + + + + + + + + + +	1,790 8
2,038 13 6 226 3 3		15,814 11 11 5,759 15 9 1,771 3 0	128 10 0	810.1 <i>1</i> , 820.1 <b>00</b>		24,828 9 26,150 11 1
	···	·	93 13 8	·····	******	2,372 2
2,280 5 9	·	23,344 14 8	222 7 8			47,351 6
				•		
872 2 6	52 10 6	69 4 0	61 0 6	*****	*** ***	1,930 4
*** 586		161 5 10	60 9 0	412.574	******	\$70 2
162 0 3 20 9 0	13 7 0	89 15 9 1,140 8 9	54 9 6 206 7 0	1 13 0	511.114 571.114	1,190 4
20 9 0 * 415 8 0 9 10 0	114 2 0 25 0 0 5 9 0	6,114 12 0 358 3 0	2,372 6 5	100000 2010-000 2010-000	434 <sup>4</sup> 84 240 <sup>3</sup> 86 848 <sub>340</sub>	5,363 13 20,532 10 1,343 2
979 13 9	190 6 6	7,933 1 7	2,754 15 11	1 13 0		30,630 5
2,368 4 6	566 9 6	1,879 15 4	2,241 3 6	10 12 7	·	16,847 8 1
2,368 4 6	566 - 9 6	1,879 15 4	2,241 3 6	10 12 7		16,847 8
9,069 14 5	761 5 9	1,05,786 3 7	7,825 6 7	13 9 7		1,99,548 9
					s.	
9,C82 2 2	9,850 0 0	11,257 11 3	8,825 10 6	*****	******	18,000 0 81,913 4
19,532 14 11 4,764 11 0	5,697 5 4 1,995 8 6	20,811 11 1 6,476 7 5	20,651 0 6 6,115 4 2	504 9 9 - 720 13 8	******	1,65,921 10 1 51,078 8
662 13 8	449.645	5,768 14 10	653 10 11		849.000	9,636 8
*** ***		<b>***</b> ***		-		
*** 928	******	424.022		******		*****
******	••••••	*****	*****	******	******	010+2+
33,312 9 4	11,543 13 10	44,312 12 7	<u> </u>	1,225 7 5	·····	3,26,749 0 :
					· ·	
1,880 0 0	420 0 0	2,398 11 8	2,041 14 2	: 868568 1449 <b>30</b>	***	2,554 5 10 13,904 11 5
2,095 3 4 351 13 8	407 3 3 299 0 3	2,938 3 1 965 3 8	2,489 2 8 501 13 8	40 8 0 243 0 8	····	17,818 3 7 5,780 8 7
117 8 0	134 0 0	14 8 5				827 6 0 539 12 8
3,931 9 0	1,260 3 6	6,316 10 10	5,033.14 6	283 14 8		40,975 0 1
	<b></b>	·			·	
201 11 8	8220 6020	249 13 5 465 4 5	383 2 11 345 8 11	0 15 9 43 10 0	419au	2,304 0 7 2,453 6 0
253 9 0 36 0 0		21 0 0	68 0 0			2,668 10 4
445 12 0 3.1 12 1	195 0 0 42 9 0	450 2 6 569 11 7	909 13 0 360 9 6	13 4 0 49 1 0	*** ***	2,008 10 4 5,557 3 6 3,097 9 1
	0.00				•••• •••	
1,380 12 9	379 13 0	1,755 15 11	1,967 2 4	111 14 9		16,079 13 6
39,605 15 1	19,162 14 4	52,385 7 4	43,245 10 11	1,631 4 10		3,83,803 13 9
47,735 19 6	13,944 4 1	1,58,171 10 11	51,071 1 6	1,634 14 6		5,83,353 7 3

.

.

different Divisions for the forest year 1916-1917-contd.

D 15-87

APPENDICES. FORM No. 24.—Summary of Revenue and Expenditure of the 

Budget Head.	Direction.	East Khándesh Division <sub>e</sub>	West Khándesh Division.	North Khándesh Division.	Poona Division.
CENTRAL CIRCLE.	Rs. <b>s. p.</b>	Rs. s. p.	Rs. s. p.	Rs. 8. p.	Rs. a. p.
BEVENUE.					
ITimber and other		ł		-	}
Produce removed from the Forests by Govern- ment Ayency-	•			- ·	
g. Timber	Ph(14)	158 0 0	141 699	283 0 0	857 10 0
J. Firewood and char- coal	· ••••	234 0 0	*****	700	9,178 12 0
c. Bamboos d. Sandalwood		*****	101	100	147 12 0
s. Grass and other minor produce	******				<b>5</b> ,245 6 0
f. Famine fodder	*****		2,182 8 5	2,763 14 0	
Total, I	124100	372 0 0	2,182 8 6	3,054 14 6	15,439 8 0
II.—Timber and other Produce removed from the Forests by Consum- ers or Purchasers—			• •	•	
a. Timber	***	12,602 9 0	1,44,976 7 9	46,320 13 6	84,220 14 9
b. Firewood and char- coal		18,398 6 9	4,352 6 0 166 12 0	8,018 14 8	28,449 8 3
d. Grazing and fodder.		10,249 4 0	·	533 12 5 46,307 19 0	<b>4</b> 80
c. Other minor pro-	140100	90,628 1 1 2,391 2 6	\$3,643 9 8 5,109 2 6		63,291 8 6
f. Other items	*****	2,391 X 0	parano ·	5,216 10 0	10,058 0 0
g. Commutation lees . Total, II		1,81,279 7 4	1,98,247 5 6	1,06,397 15 3	1 01 001 0 0
Jotal, Ak in				1,00,397 15 8	1,81,021 3 3
III — Drift and Woif Wood and Confiscated		、			
Forest Produce	590 s.e.	266 15 9	227 6 8	216 7 6	551 10 6
Total, III		266 15 9	226 5 3	216 7 6	551 10 6
IV.—Revenue from For. ests not managed by Government—					
e. Duty on foreign			• •	•	l
timber and other	***	- 7,002 8 9		9,938 15 0	******
5. Revenue from shared and private Forests	******	****		******	23 5 7
Total, IV	····	7,002 8 9		8,936 15 0	22 5 7
a. Fines and forfei-					
L Refunds	\$\$ \$19 119 110	1,802 3 8 1 1 0 0	1,411 0 0 0 B 0	1,037 2 0 123 3 0	551 4 0
c, Other sources	500 8 0	4,936 12 0	7,117 0 11	8,777 11 4	16,081 7 0
Total, V	5(0 8 0	6,790 15 3	8,528 8 11	9,937 0 7	16,632 11 0
Grand Total, Revenue	560 8 0	1,48,720 14 4	2,07,185 18 9	1,23,543 4 10	1,63,670 6 4
EXPENDITURE.		•	· ·	~	
ACONSBBUANCY AND WORKS.		•			-
ITimber and other Pro- duce removed from the Forests by Construct	1 ' •			•	
e. Timber		12 8 0	******	. 800	106 4 8
b. Firewood and char- coal c. Bamboog	444.994 -	87 12 0	******	8 8 0	1,127 8 8
4. Sandalwood	******	** * * = *	*12027	******* ******	7 10 0
e. Grass and other minor produce f. Famine fodder		******	6,411 4 8	2,246 8 6	1,578 15 8
· Total 4 7		100 4 0			******
II Timber and other		100 4 0	6,411 4 3	2,201 0 5	2,910 6 0
the. Forests by Con.				н. н. На страната br>По страната страната страната страната страната страната страната страната страната страната страната страната с	
which or Purchasers.	·····	2,038 2 0	2,482 4 2	5,345 10 0	830 12 10
Total, A-II	•	2,038 2 0	2,482 4 2	5,845 10 0	830 12 10
111. Drift and Waif Wood and Conflocated	· ·				
Forest Produce		600		. 9 8 0	
words Produce		600		980	
Toal, A-III					
Toal, A-III Toal, A-III IVRevenue from For- ests not manufed by Givernment-				*	
Toal, A-III Toal, A-III IV Recenue from For- ests not manufed by Generalment- a. Duty on foreign timber and other	· ·			*	
<ul> <li>Toal, A-III</li> <li>Toal, A-III</li> <li>IV Recenue from Forests not managed by Generalment—</li> <li>a. Duty on foreign timber and other forest produce</li> <li>b. Beyenue from shared</li> </ul>			•••••by		Des Los
IVRecenue from For- ests not managed by Generation u. Duty on foreign timber and other forest produce	· ·		435.98	-	048 Log -

# different Divisions for the forest year 1916-1917-contd.

Kolaba Division.	Sátára Division,	Working Plans, Central Circle, Division.	West Khändesh Famine Fodder Division.	Kolába Famine Fodder Division,	Total for the forest year 1916-17.
Rs. a. p.	Bs, a. p.	Re. a. p.	. Rs. a p.	Rs. a. p.	Ra. 0. p.
					-
25 0 0	857 12 0			diata .	2,171 8 0
7,046 6 6	11,849 0 6			*1****	28,312 2 0
	498996	******	*****	4944488 <sup>°</sup>	I 0 0 147 12 0
16 0 0	182 8 0	****** 199 : 1.5	64,725 9 4	1,045 0 0	10,390 5 0 65,773 3 4
7,087 5 6	12,886 4 6	410000	64,725 8 4	1,045 0 0	1,06,702 12 4
		·			
1,31,610 4 0	16,698 14 3				
749 7 9	239 0 0				9,66,849 15 3
2 10 0	129 2 11	400.000	40000	444.00 45.1 <sup>0</sup> 10	55,206 6 0 11,035 1
13,515 14 0	27,254 7 0	488.48	*****	674140	2,79,661 5 1
8,112 12 7	8,821 11 6		****** ******	. 144.cs	87,708 7 7
1,49,220 0 4	53,812 8 8				
		·	······		7,70,511 3 4
1,163 9 4		· •			2,526 8 1
1,165 9 4	110 6 6		••••••	******	2,526 6 1
•					•
			,		-
Fatzad					10,939 7 9
3 12 0	******		*****	•••••	26 1 7
8 12 0			·····»		£10,965 9 <b>4</b>
<del>8</del> 77 `0 0	458 4 0	9 15 2			5,996 13 3 127 10 2
8,656 5 6	6,363 11 0	9 6 3	****** *****		52,447 14 3
9,333 8 6	6,826 15 0	13 5 6			58,572 5 8
1,66,798 0 8	73,165 13 8	13 5 5	64,725 8 4	1,916 0 0	9,49,368 4 9
		,		,	
		- -			•
<b>****</b> *	198 6 0	4161	\$47.75	c17146	848 2 6
5,010 11 7	5,932 6 11		455934		12,175 14 9
		*****		*****	7 10 0
	93 2 0	635 <sup>336</sup>	1,950 10 8	415125	10,329 15 11 1,953 10 8
5,019 11 7	6,158 14 11		1,950 10 8		24,912 8 10
2,978 15 6	J69 7 8	43 - 144			13,845 4 0
2,978 15 6	169 7 6				13,845 4 0
<u>_</u>					
16 13 0		<b>0</b> 10 (11)	<b>103</b> 346	074314	32 O O
16 18 0	******		111110	******	- 32 0 0
					<b></b>
•					. •
	*****	46'IUSD .	*****	, ma	*****
			•••••••		
		· ••••••	****	*****	806400

FORM No. 24.—Summary of Revenue and Expenditure of the

		•			
Badgei Head.	Direction.	East Khändesh Division.	West Khāndesh Division,	North Khandesh Division,	Poona Division.
EXPENDITURE-	Rs. e. p.	Rs. a. p.	Rs, 2, p.	Rs. a. p.	Bs. s. p.
continued. A.—Conservance and Works—continued.		•			
Forests and Payments			_		5
to Shareholders in Forests managed by					
Government					836 3 4
Total, A-V	115*te		·····		836 2 4
ILive-stock, Stores, Tools and Plant-					
cattlo	699.850	110 995		******	are bee
<ul> <li>Feed and keep of cattle</li> <li>Purchase of stores.</li> </ul>	*****	*****		u ja von	***
tools and plant	79 5 0	89 7 0	134 5 3	23 7 0	71 6 0
Total, A-VI	<u>\ 79 3 0</u>	69 7 0	134 5 3	22 7 0	71 6 0
VII.—Communications and Buildings—	•	•			
a. Roads and Bridges	a == 99 a	1,205 4 1	1,518 12 6	2,635 7 6	1,490 1 9
b. Buildings	44==48 =40=58 <b>8</b>	293 9 9 1 0 0	709 10 0 468 12 0	633 O O	123 9 6
Total, A-VII	49412#	1,504 13 10	2,728 2 6	3,168 7 6	1,622 11 \$
VIIIOrganization, Improvement and		,			
Extension of Forest-		152 18 0	671 4 11	870 6 8	617 6 0
<ol> <li>Cost of Forest Settlements and</li> </ol>		·			
Compensation for land and rights ,		57 8 0		2,282 14 0	534 4 2
e. Surveys d. Working Plans	ed + 6 <b>90</b> 490 eq 9	676 0 6	247 10 2	. 469 9 0	227 9 9
c. Sowing and Plant- ing	- 	149 8 0	95 15 6	4776_	1,795 8 8
Fire	922 20 <b>9</b>	1,453 7 8 56 7 0	4,415 2 3 3 5 0	7,877 0 S	141 0 0
Total, A-VIII	\$\$+3\$1	2,546 4 0	8,403 7 10	11,047 5 9	220 8 0 3,744 8 7
IXMiscellaneous-					
J. Grain Compensa- tion	*******		******		
c. Other charges		2,250 11 6	1,914 9 6	2,403 8 2	8,602 2 9
Total, A-IX Total AConsue-	******	2,250 11 6	1,948 6 6	2,403 8 2	3,662 2 9
TOTAL ACONSEE- VANOV AND WORKS	79 3 0	8,535 9 4	19,101 15 6	24,257 9 10	13,270 1 9
BESTABLISHMENTS.			-		
a. Conservators b. Superior Officers .	20,400 0 0	6,052 13 5	9,605 2 7	9,960 0 0	22,769 8 4
c. Subordinate Forestand Depôt					22,108 5 4
Establishments . d. Office Establish- ments	9.155 3 0	29,107 11 11	21,807 6 2	20,727 14 10	38,669 9 3
e. Deputation and Special Allow-	8,100 8 0	6,427 13 10	5,214 12 8	5,977 10 10	7,259 0 7
f. Exchange Com-	10,188 1 11	498-12 11	2,208 8 5	2,173 15 0	<b>892 4 1</b>
pensation Allow- ance-	•	1			
1. Conservators 9. Deputy Conser-	***58		Notes	*****	
vators S. Assistant Con-					
servators 4. Extra Assistant	*** ***		P=1		
Conservators .	*****		••••••	******	**** 11.5
Total, B-I	89,743 4 11	44,067 4 1	89,065 13 5	38,839 9 8	69,090 0 2
II.—Travelling Allow- ances—					
a. Conservators	2,492 11 4	2,009 11 8	2,223 14 8		874 B61
e. Subordinate Forestand Depôt				3,612 11 8	2,932 4 8
Establishments. . Office Establish- ments	` 892 A. A	2,672 5 11	2,846 10 7	8,013 15 9	8,493 2 5
. Forest School, Dehra Dun	623 9 2 987 6 0	535 9 8	691 8 6	720 2 10	767 4 3
f. Plague allowances.		673 7500	. 94 8 0	105 0 0	177 8 0
Total, B-II	3,603 10 6	5,239 2 6	5,582 4 9	6,491 12 3	7,830 3 4
11.—Contingencies— a. Stationery	16 11 0	417 7 2 .	267 8 3	332 0 8	804 0 -
<ul> <li>b. Carriage of Tents and Records</li> <li>c. Bents, rates and</li> </ul>	167 15 0	200 11 0	140 10 6	321 14 6	634 8 1 365 1 0
d, Pay of Police	1,980 0 0	36 0 0	175 0 0	128 0 4	137 0 0
e. Official postage	293 14 0	875 9 9	779 8 0	519 7 A	******
F. Sundries	446 2 0	416 5 0	431 4 9	543 7 0 530 2 0	1,100 11 6 027 9 9
of other Provinces. Total, B-III	#****			101000	#10 c t t
TAL, BESTABLISH	2,994 10 0	1,946 0 11	1,783 10 6	1,875 8 1	2,751 4 1
	46,241 9 5	51,812 7 6	46,711 12 8	47,188 13 9	79,174 13 7
MESTE					
	48,320 12 5 <b>*</b>	69,848 0 10	65,413 12 2	71,641 7 7	92,852 15 4

•

Kolába Division.	Sáthra Division,	Working Plans Central Circle Division.	West Khándesh Famino Fodder Division.	Kolába Famine Fodder Division,	Total for the forest year 1916-1917.
Rs. a. p.	. Re. a. p.	Rs. a. p.	Rs. a. p.	Rs. a, p.	Rs. ai p
	•		•		•
11,032 4 6	3,407 9 5	<b></b>	*		15,276 0 8
11,032 4 6	3,407 9 5		······		15,276 0
			· · · · · · · · · · · · · · · · · · ·		
	· · ·			0	
•••••	******			******	*****
		•	411.440	****	******
24 0 3	31 10 0	31.00		ود و و و و و و و و و و و و و و و و و و	493 6 (
24 0 3	31 10 0	, 81 0 0		4+11+44	483 6
	-		•	•	
78 0 0	8,112 15 6			*****	10,077 9
3.3 13 0 21 3 0	432 13 3 151 8 0		644 <del>,</del> 	******	2,425 6 042 7
425 15 6	3,607 4 9	48+49*	*****	******	13,145 6
	•	· · · · · · · · · · · · · · · · · · ·			
0.010.01	AED A A		, ·		5,687 5 1
3,210 14 5	458 9 6	•••••	***,	478.005	5,687 5
[	<b>FO 1 0</b>	-			2,037 14
500	58 4 0	449 6 8	*****	400 800	2,598 11 1
432 12 3	0580			******	4,231 1
602 5 2	1,6(0 9 8	•••• •••			16,820 10
2,752 8 0 466 12 0	151 8 0 80 5 0	•••••	*****	******	836 8
7,476 3 10	2,444 12 11	419 6 8		107.48	33,112 2
					*** ; **
			******		
3,729 7 10	2,035 2 8	115 5 6	******	·····	16,140 12 1
8,729 7 10	2,035 2 8	115 5 6		•** •±*	16,140 12 11
<b>30,703 8 0</b>	17,914 14 2	595 72 2	1,950 10 8	•1616g	1,16,847 4
11,094 14 10	15, 12, 0 0	9,603 3 7	******	•••••	20,400 0 86,655 10
	24,147 0 4	2,094 12 5			1,76,139 12 1
39,585 6 1 9,667 2 6	6,071 4 9	1,361 7 4		*****	50,164 7
8,007 2 0		· .	• •		
319 9 10	-793 6 11				14,787 14
- I					
	******		841.4100 F	6.0*****	
*****		·	* 846 799	*****	*** ***
	P** 4×1		***		
	***			*** ***	807 844
59,167 1 3	44,841 14 2	13,059 7 4	*****	198196	3,48,177 12
1,924 13 8	3,511 5 0	1,319 1 4		000 <i>30</i> 0	2,492 11 4 • 15,579 14 4
ס פו אימיר	•				17 507 A
2,144 3 8	2,634 6 2	742 9 9	******	•	17,527 6 8 5,467 4 7
836 11 6	785 13 2	486 11 6			538 5 6
82 4 1 20 0 0	82 4 2	35 0 0	******		627 0 (
5,043 0 11	6,013 14 6	2,583 9 7			42,232 10 4
[		256			2,480 11 8
409 8 10	350 15 7	315 9 0		•••••	1,870 0 7
2)7 6 9	260 12 1			*****	2,478 8 4
(MSH)	22 8 0				
870 1 0	707 0 0	75 9 6 80 9 9	******	*****	5,235 8 9 3,136 2 0
271 6 0	838 <b>0</b> 8		******		
	1,674 8 11	474 1 9			15,200 14 10
1,818 7 2					4,05,611 5 11
66,333 9 9	52,533 0 7	16,117 2 8			[
	70,477 14 9	16,712 14 10	1,950 IO À	******	5,22,458 10 4

different Divisions for the forest year 1916-1917-continued.

:

APPENDICES,	
FORM No. 24.—Summary of Rev.	enue and Expenditure of the
-	

Budget Head.	Direction.	Working Plans Division,	Dhárwár and Bijápur Division. /	Belganm Division.	Ratnægiri Division
SOUTHERN	Rs. a. p.	. Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p
CIRCLE.					
Timber and other Pro- duce removed from the Forests by Government Agency-				•	
a, Timber b. Firewood and char-	*** ***	499 280	· 76 `0 0	16,503 2 8	**** <sub>2999</sub>
c. Bamboos d. Sandalwood	491.744 914748 914748		527 13 11 10,972 Ò 8	1,56,297 4 9 619 4 9 7,715 10 9	*** ***
e. Grass and other minor produce	••••••	403490	202 0 0	353 9 0	******
Total, I 🛶	+11 895		11,777 14 7	1,61,4%8 15 11	
I.—Timber and other Pro- duce removed from the Forests by Consumers or Purchasers—		•			<b>*</b>
a. Timber b. Firewood and char-	****		86 0 0	44,837 14 5	616 2
coal c. Bamboos d. Grazing and fodder	11 te 500 000 ***	465 evu	0,594 14 2 208 8 0	30.782 8 0 4,355 15 11	372 13 58 1
grass •. Other minor produce • Other items	000 444 844 897	*****	20,046 5 6 31,423 0 4	14,662 12 9 15,454 8 6	89 10 26 1
y. Commutation fees Total, II	*** ;;;	***** 	51 657 0 0	1 1/1 199 11 /7	*****
10 and Waif	•=====================================	**************************************	51,657 9 0	1,10,123 11 7	- 1,162 12
Wood and Confiscated Forest Produce	*82=69		26 12 0	78 9 0	36
Total, III	^	****	26 12 0	78 9 0	3 6 (
<b>7.</b> —Revenue from Forests not managed by Govern- ment—					
a. Duty on foreign tim- ber and other forest		·	÷		
b. Revenue from shared and private Forests .	******	*****	·····	***	·····
Total, IV					10 9
_Miscellaneous—	· • •	·			
a. Fines and forfeitures b. Refunds c. Other sources		••••••	40 0 0 35 9 8	715 5 2 263 8 6	5 () (
Total, V	1,645 7 7	<u> </u>	3,192 2 11 3,207 12 7	$-\frac{19,029 \ 1 \ 2}{20,007 \ 14 \ 10}$	60 8
Irand Total, Revenue	1,645 7 7	. ,8 12 0	66,730 0 2	3,11,699 8 4	1,248 4
EXPENDITURE. ACONSEEVANCY					· <u> </u>
AND WORKS. — Timber and other Pro- duce removed from the	۰ (				
Forests by Government Agency—				,	-
a. Timber b. Firewood and char- coal	. 13 4 0	<b>863</b> 436	131 10 6	16,830 10 3	-
c. Bamboos d. Sandalwood c. Grass and other minor	······· •	- 494449 - 494449 494499	712 5 3	99,493 9 7 4,726 4 0 997 11 7	4+++ <b>\$</b> * <b>\$</b> *+= <b>\$</b> \$\$ <b>\$</b> \$\$ <b>\$\$</b> \$
produce			131 6 8	208 1 0	·····
Total, A-I	<u> </u>		975 6 5	1,22,286 4 5	******
-Timber and other Pro- duce removed from the Forests by Consumers or Purchasers			609 11 11	2,955 6 6	
- Total, A-II		*****	. 509 11 11	2,985 6 6	******
11.—Drift and Waif Wood and Confiscated Forest Produce			200	. 10 6 0	1.0 (
Total, A-III		***	2 0 0	10 6 0	1.0 (
V.—Hevenue from Forests not managed by Govern- ment—				•	
a, Duty on foreign tim- ber and other forest		✓			1
b. Revenue from shared and private Forests .		*****	· · · · · ·	***	*** ***
Total, A-IV			*****		****** 
		· · ·	2		

different Divisions for the forest year 1916-1917-contd.

Kánara Eastern Division,	Kánara Northern Division.	Kánara Southern Division,	Kanara Western Division.	Kánara Central Division,	Total for the forest year 1916-1917.
Rs. a. p.	Rs. a. p.	R#. a. p.	Ro. a p.	Rs. a. p.	· <del>····································</del>
				. ns. u. p.	Rs. a. p.
ъ.	•				
	· _				
					-
2,96,316 13 4 4 8 0	6,83,727 11 0 160 0 0	4,564 6 7 6,500 13 8	1,33,940 13 5 .67,629 6 8	2,94,803 13 9	14,30,054 13 3
299 5 0 12,000 2 11	4,124 4 2	4,951 5 8	665 8 0 -	6,718 12 11	2,31,119 14 2 1,494 1 9 40,482 5 1
******	P16.144	*******			655 9 0
8,03,650 13 8	6,88,011 15 9	18,0:6 9 6	2,02,135 12 1	3,01,614 10 8	17,09,636 11 8
	•			· •.	
28,283 1 1	2,11,8-2 8 8	2,583 2 11	2,338 12 4	2,312 0 2	2,92,949 9 11
7,323 12 0 26,187 3 11	2,790 2 9 58,016 11 6	15,9-9 11 0 1.083 4 0	24,896 15 11 4,678 11 0	<b>13,181 3 3</b> 639 12 0	1,∩6,151 13 · 1 65,48£ 3 11
7,909 0 0 2,314 15 0	6,593 0 0 1,416 4 0	10,957 15 0 6,291 9 9	7,749-10 0 4,945 13 8	7,732 6 0 2,663 11 6	75,739 11 3 54,584 15 3
******	******	019980		9 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
72,018 0 0	2,51,698 10 11	36,811 10 8	44,608 13 11	26,809 0 11	5,94,890 5 4
100	<b>4</b> 12 0	. 63°011	7129		253 0 5
100	4 12 0	65 0 11	71 2 9	258	253 0 2
· .					<del>-</del>
		-			
		-	-		
no++0	*** \$\$*		565944 -	. +vea09 .	
					10 9 6
830 10 4 47 9 7	1,259 8 0 35 6 6	841 14 5 276 7 0	2,074 2 3 107 14 0	2,060 2 11 5 6 2	7,810 11 1 776 4 7
4,212 8 9	4,007 7 1 5,391 5 7	6,921 10 9 8,040 0 2	1,593 9 4 3,775 9 7	<b>3,</b> 520 <b>6</b> 4	44,298 5 5 52,880 5 1
5,079 14 8 3,85,719 11 11	0,45,106 12 2	60,933 5 3	2,50,591 6 4	5,591 15 5 3,34,018 0 6	28,57,730 15 10
-	•				
		-			
		1			•
1,06,40 0 8	1,93,126 Q 9	1,556 6 7 5,562 8 9	1,12,532 12 8 54,418 10 8	66,105 8 4	4,96,663 5 8 1,59,546 7 6
	*****	916 13 1	5,003 0 0	414 5 0	9,916 8 0 2,973 5 6
180 4 0 467 1 7	165 1 2-	410 10 1			
186 4 0	165 1 8-	410 10 1 			
180 4 0 407 1 7	165 1 8-			66,6/19 8 4	
180 4 0 467 1 7 33 I1 1	165 1 2-	913		<b></b> ,,	
180 4 0 467 1 7 33 I1 1	165 1 2-	7,935 12 5 911 8 2	<u> </u>	66,609 8 4 187 7 4	6,403 11 1 6,402 11 1
180 4 0 407 1 7 33 11 1 1,07,096 0 11	165 1 2-  1,93,291 1 11	7,935 12 5	 1,71,954 7 2	66,699 8 4	
186 4 0 467 1 7 33 11 1 1,07,096 0 11 755 6 3	165 1 2-  1,93,291 1 11 763 2 9 763 2 9	7,335 12 5 911 8 2 811 8 2	1,71,954 7 2 467 0 2 467 0 2	66,699 8 4 167 7 4 167 7 4	6,462 11 1
186 4 0 467 1 7 33 11 1 1,07,096 0 11 759 6 3 758 6 3	165 1 2-  1,93,291 1 11 763 2 9 763 2 9	7,935 12 5 911 8 2	<u> </u>	66,609 8 4 187 7 4	6,40,561 13 7 6,402 11 1
186       4       0         467       1       7         33       11       1         1,07,096       0       11         753       6       3         758       6       3	165 1 2-  1,93,291 1 11 763 2 9 763 2 9 763 2 9	7,335 12 5 811 8 2 811 9 2 9 12 4	1,71,954 7 2 467 0 2 467 0 2 18 8 6	66,649 8 4 167 7 4 · 167 7 4 29 1 0	6,402 11 1 6,402 11 1 6,462 11 1 72 14 10
186 4 0 467 1 7 33 11 1 1,07,096 0 11 759 6 3 758 6 3	165 1 2-  1,93,291 1 11 763 2 9 763 2 9 763 2 9 763 2 9 2 8 0 2 8 0	7,335 12 5 811 8 2 811 9 2 9 12 4	1,71,954 7 2 467 0 2 467 0 2 18 8 6	66,649 8 4 167 7 4 · 167 7 4 29 1 0	6,402 11 1 6,402 11 1 6,402 11 1 72 14 10
186 4 0 467 1 7 33 11 1 1,07,096 0 11 759 6 3 758 6 3	165 1 2-  1,93,291 1 11 763 2 9 763 2 9 763 2 9 2 8 0 2 8 0	7,335 12 5 811 8 2 811 9 2 9 12 4	1,71,954 7 2 467 0 2 467 0 2 18 8 6	66,649 8 4 167 7 4 · 167 7 4 29 1 0	6,402 11 1 6,402 11 1 6,402 11 1 72 14 10
186 4 0 467 1 7 33 11 1 1,07,096 0 11 759 6 3 758 6 3	165 1 2-  1,93,291 1 11 763 2 9 763 2 9 763 2 9 763 2 9 2 8 0 2 8 0	7,335 12 5 811 8 2 811 9 2 9 12 4	1,71,954 7 2 467 0 2 467 0 2 18 8 6	66,649 8 4 167 7 4 · 167 7 4 29 1 0	6,402 11 1 6,402 11 1 6,462 11 1 72 14 10

· · · · · ·

Budget Head.	Direction.	Working Plans Division.	Dhárwár and Bijápur Divisiou,	Belgann Divisioa.	Ratvágirl Division,
EXPENDITURE -contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs a, p
ACONSERVANCY AND WORES-contl.				• •	
-Rent of leased Forests and Payments to Share- holders in Forests man-	· ·			·	
aged by Government	·	••••••			*** ••
Total, A-V					•/•••••
Tools and Plant- a, Purchase of cattle	•		*****		
b. Feed and keep of cattle c. Purchase of stores,	******	*** * * *			** ***
tools and plant	051 <del>8</del> 8 931 8 8	*******	227 14 0	263 12 0-	******
Total, A-VI					******
and Buildings— a. Roads and bridges . b. Buildings	····		756 14 8	7,075 14 2 1,265 13 7	
c, Other works	**L**** **** *	•	415 2 0	601 12 3	10 0
Total, A-VII		.,,,	1,202 0 8	9,033 5 0	. 10 0
Improvement and Ex- tension of Forest- a. Demarcation b. Cost of Forest Settle- ments and Compensa-		******	119 8 0	523 15 5	<b>6+5</b> +++
tion for land and rights	400			7.207 13 7	••• # # #
c. Surveys d. Working-plans e, Sowing and plant-	******	8,509 11 8		22 13 0	*****
ing f. Protection from fire. g. Other works	******	, 489 *** 	859 13 10 767 10 4 18 13 9	2,300 3 1 7,933 9 2 227 14 6	493 11 30 0
Total, A-VIII		3,590 11 8	1,565 14 0	18,276 4 9	432 11
X Miscellaneous-					
a. Law charges	-17 7 6	144 0 10		8,484 10 5	227 12
Total, A-IX	-17 7 6	144 0 10	1,423_3_4	8,481 10 5	. 227 12
VANCY AND WORKS	917 5 2	3,743 12 6	5,606 3 0	1,56,339 4 1	071 7 1
3,—Establisuments.		· · ·			· · · · · · · · · · · · · · · · · · ·
-Salaries- a. Conservators b. Superior Officers c. Subordinate Forest and Depôt Estab-	22,807 0 0 3,379 5 4	8,120 0 0	5,038 1 0	17,495 2 7	464,55 841689
lishments d. OfficeEstablishments e. Deputation and	720 0 0 7,538 15 5	2,025 5 4 1,017 1 0	18,677 3 9 6,131 14 4	28,752 6 10 5,543 5 8	2,676 15 ( 471 6 1
Special Allowances. f. Exchange Com- pensation Allow- ance-	····· 、	418 10 8	′ 72 2 3 •	2,613 7 6	••••••
1. Conservators 2. Deputy Conserva- tors	******	*****	******	******	*** ***
3. Assistant Conser- vators	****	434 444 614-78		******	*** *** T
4. Extra Assistant Conservators	******			******	**************************************
Total, B-I	84,436 4 4	11,609 1 0	23,919 5 4	51,439 8 2	3,161 6
1 Travelling Allow- ances- a. Conservators	2,564 4 0		-		·
b. Superior Officers c. Sub rdinate Forest	2,564 4 0 326 12 0	1,839 12 0	1,400 4 8	2,473 8 6	******
and Depôt Estab- lishments d. Office Establish-	104 13 6	410 4 8	1,412 5 4	B,234 15 0	363 O (
e. For School	1,023 8 8	360 12 8	370 11 7	867 14 3	·
f. Plag a nilowances	40 14 7	****** ******	- 448148 462140	25 0 0	** * * * *
Trital, B-II	4,120 4 4	2,640 13 4	8,183 5 7	6,601 0 9	
ICo yencies-	11 11 0		100 1 4		
b. Car of Tents	451 9 0	*****	183 1 4 261 12 0	195 0 9 276 1 6	68 12 (
d, Pay Police	810 0 0				21 5 2
e. Office stage	605 9 0 1,567 10 5	47 6 0	829 0 0	1,111 7 6	
byment affcers of the set	1,507 10 5	•••••• • •	845 2 2	816 7 0	85 18
- III-4 P	3,566 7 5	47 6 0	1,618 15 6	2,429 0 9	210 14
TOTAL, TABLISH. MB: ***	42,123 0 1	14,207 4 4	83,721 10 5	63,469 7 8	
GRAN L OF E). The	43,070 5 3	18,041 0 10	80,327 13 5	2,19,808 11 9	
J	•		4		4,896 12 (

different Divisions for the forest year 1916-1917-contd.

Kánara	Kánara	Kánara	Kánara		
Eastern Division.	Northern Division.	Southern Division,	Western Division.	Kánara Central Division.	Total for the forest year 1916-1917.
Rs. a, p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
*****		******	******		**1
	·**··••				*** +++
208 0 0	723 0 0		343 0 0	ļ	1.074 0.4
2,921 5 8	1,587 7 3	******	957 11 10	*** 100	1,274 0 0 4,860 8 4
211 1 9	1,403 4 1	78 15 11	469 9 0	869 5 0	4,034 6 6
3,340 7 0	3,778 11 4	78 15 11	1,170 4 10	609 5 0	10,174 14 1
5,029 5 6 1,311 2 11	11,254 0 5 1,123 14 8	1,473 10 11 1,502 9 8	39,645 4 8 1,321 6 11	465 7 4 895 11 8	€5,844 11 0 8,267 9 8
1,020 8 3 8,261 0 8	758 1 0	<u> </u>	1,041 12 5 42,003 8 0	358 4 0 1,709 7 0	4,329 14 11
206 12 6	740	508 11 0 -	1,533 13 <b>3</b>	16 14 0	2,011 14 1
8284255 822488 222488	412 004 0090-80 444-940	25 14 7	****** *****	2,379 15 0	9,678 11 5 3,623 8 1
2,900 10 4 4,899 1 6	5,419 0 5 4,944 13 8	1,841 1 5 355 9 6	1,843 7 1 2,888 6 7	1,213 1 0 1,025 8 6	16,340 0 1 22,795 11 246 12
8,066 8 4	10,371 2 1	2,727 4 6	6,215 10 11	4,635 6 6	55,590 11
3,121 8 8	3,737 15 8	1,123 1 11	2,203 1 3	191 8 0 1,277 6 6	193 6 16,722 6 1
8,121 8 8	3,737 15 8	1,123 1 11	2,202 1 3	1,468 14 6	16,015 12 1
1,30,643 15 5	2,25,075 9 5	15,163 2 10	2,24,036 8 10	74,999 1 8	8,37,231 1
17,180 10 3	19,031 13 5	9,060 5 2	17,548 0 4	9,459 5 8	22,800 0 1,07,213 11
23,712 13 9 5,009 9 9	91,987 2 10 6,258 12 7	16,783 14 1 4,318 10 11	19,785 0 0 5,496 7 1	15,097 6 2 8,700 8 19	1,00,193 4 45,302 11
5,176 4 6	3,420 7 8	803 12 5	2,753 0 2 .	465 9 6	15,787 6
					,
*****	110.05	4364+1		*******	441114
084 <i>6</i> 67	*****B #84115		184196 -	****	******
ezą + 14		*** ,		pagerd	*****
51,979 6 3	61,607 4 6	80,971 10 7	45,580 7 7	28,712 14 2	(8,51,357 2
			-		
2,700 8 0	2,603 4 0	1,800 0 0	2,651 9 4	2,615 4 0	2,504 4 ( 18,532 9 (
2 140 0 0	8,346 14 10	2,131 4 10	2,002 12 4	1,309 0 8	16,686 0
384 11 8	475 5 10	510 14 4	270 0 2	609 3 0	4,873 1 9 475 0
75 0 0	101 2 1	118 11 4	75 0 0	24 3 2 40 15 4	106 13 1
5,300 12 8	6,678 10 0	4,615 14 - 6	4,999 5 10	4,658 10 2	43,191 13 1
	292 10 6	46 0 2	112 5 3	113 9 5	1,141 4 11
119 9 6 94 2 0	293 10 0 123 0 2	172 0 0	329 13 10	332 2 8	2,061 14 4
	011 4		****	<b>***</b> ***	640 11
607 14 0 171 4 1	439 7 0 197 15 5	746 9 8 178 2 9	433 <b>3 6</b> _326 0 10	727 4 6 170 5 10	5,722 <b>13</b> 3,838 <b>13</b>
		1,143 6 B	1,201 7 5	1,342 6 6	13,605 9
091 13 7			51,701 4 10	31,743 14 9	4,08,184 9
59,272 0 6	69,330 11 8	36,730 14 6	2,75,797 8 8	1,00,733 0 5	12,45,405 11
1,88,015 15 11	2,94,415 5 1	51,899 1 4	29709102 0 0		
<b>n</b> 1590					

. р 15—89

•

.

# FORM No. 24.—Summary of Revenue and Expenditure of the different divisions for the forest year 1916-1917—contd.

1

1

-		101 01	<i>10 ] 0/100 y 00</i>		•	`		(
Budget Head.	Direction.	Thar and Párkar Division.	Lárkána Division.	Sukkur Division.	Hyderabad Division,	Jerrnek Di vision.	Working Plaus Division.	Total for the forest year 1916 17.
SIND CIRCLE.	Rs. 8, p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a p.	Fs. a. p.
REVENUE. 1.— Timber and other pro- duce removed from the forests by Government doory			-		•		•	
a. Timber b. Firewood and char- coal	******	** <b>***</b>	37 0 0 1,569 5 5	107 2 0 1,175 8 5	36 8 0 1,197 6 7	1,328 0 0 0,504 0 0	49699 <b>0</b>	1,009 10 0 18,+38 4 5
c. Bamboos d. Sandalwood c. Grass and other minor	4.4414¥		+48 +88 +48 +88 -	 298 3 10	418 11 3	95 <b>6 4</b> 0	997 418 444 999 *	1,733 3 1
produce Total, I	*****		1,603 5 5	1,580 14 3	1,672 9 10	11,818 4 0		16,678 1 6
11.—I imber and other pro- duce remoted from the forests by consumers or purchasers—		•			· -	•		
c, Timber b. Firewood and charcoal. c. Bamboos	1101-00 	445 0 0 1,696 12 10	19,227 7 8 38,583 2 7	27,8 <sup>2</sup> 0 1 9 1,17,095 12 11	46,856 13 8 73,904 13 5	17,617 8 6 69,328 7 1		1,05,526 15 7 3,01,006 0 10
d. Grazing and fodder grass e. Other minor preduce. f. Other items	020 - 44 100 - 44	1,975 8 0 1,576 0 0	6,991 1 0 2,795 12 0	13,753 10 5 4,0+3 15 3	9.993 8 6 23,823 15 2	7,210 13 6 9,268 0 0	808 	\$0,933 9 5 41,460 10 5
g. Commutation fees Total, II		5,696 4 10	61,994 7 3	1,62,232 8 4		1,03,400 13 1		4,87,033 4 3
IIIDrift and waif wood and confiscated forest produce			81 2 9	363 3 3	23 10 0	397 10 6		870 10 6
Total, III	417.00		81 2 9	368 3 3	e23 10 0	6		870 10 8
IV.—Revenue from forests not managed by Govern- ment—			-		•			
<ul> <li>a. Duty on foreign tim- ber and other forest produce</li> <li>b. Revenue from shared</li> </ul>	******	*****		414 104	*****	******	461 174	Pad set
and private forests Total, IV			440-44					
VMiscellaneous-		-	]	,,				<u>-</u>
a. Fines and forfeitures. b. Refunds c. Other sources	<b>9</b> 21 <b>4</b> 9	******	30 0 0 6,920 15 5	293 5 6 0 C 4 12,319 1 11	371 0 0 4 3 8 3,944 12 1	1,085 6 10 3,797 12 3	01. 938 44414	1,7;9 12 4 <u>4</u> 4 () 27,003 14 5
Total, V ,	21 4 9		6,95) 15 5	12,613 7 9	4,319 15 9	4,983 3 1	***	26,757 14 9
Grand Total, Revenue	21 4 9	5,696 4 10	70,632 14 10	17,794 1 ,7	1,60,595 6 4	1,20,529 14 8		5,34,209 15 0
EXPENDITURE. ACONSEBVANCY AND WOBES.		-						
I.—Timber and other pro- duce removed from the forests by Government Agency—	•							•
- a. Timber b. Firewood and char- coal	******	* *****		 1,578 1 4	 927_1_5	750 0 0 4,110 11 9	964 <i>-</i> 44	750 Q O
A Bamboos     d. Sandalwood      e. Grass and other minor     produce	******	*****	*		144 - 144 144 - 144	******	61,1489 416 ma 197 ato	7,197 9 1 <sup>.</sup> 
Total, A-I			581 10 7	1,578 1 4	927 1 5	4,800 11 9	······	7,917 9 1
11.—Timber and other produce removed from the forests by consumers or purchasers	•		540	-16 4 0	80# 14 0			
Total, A-II			540	16 4 0	295 14 6 295 14 6	530 6 6 530 6 6		817 13 4
IIT. Drift and waif wood and confiscated forest produce	****10			+182.17.		-		
Total, A-III		•••••				·····	*****	****** •****
IV.— Revenue from forests not managed by Govern- ment—		· · ·	-					
a. Duty on foreign tim- ber and other forest produce	40000g		******		******			
and private forests	Ap6+24	****	******	•	******	604.5-9		*****
Total A IV								

-

.

٠

.

.

÷

FORM No. 24.—Sur	nmary of Revenu for the forest	ue and Exp year 1916-	penditure of the 1917-concld.	e differen	ıt divisions
			,		

Budget Head,	Direction.	Thar and Parkar Division.	Lárkána Division.	Sukkur Division.	Hyderabad Division,	Jerruck Division,	Working Plans Division.	Total for forest year 1916-17.
CPENDITURE-contd.	Rs. a. p.	Re. a. p.	Es. a. p.	Rs. a. p.	Ra. a. p.	Rs. a. p.	Rs. a. p	Rs. a. p.
WORKS-could, -Rent of leased forests							•	
nd payment to share- olders in forests managed	-			· . [	-	-	•	
y Government Total, A-V	*****	******				•=====================================		
-Live Stock, Stores,								
Pols and Plant- Purchase of cattle Feed and keep of	561198		**kgz4	******		*****	588 900	
cattle Purchase of stores,	·····		29 15 8	400 15 0	23 2 0	10 8-0		404 3 8
tools and plant Total, A-VI	<u>4900</u> 4900	·····	149 13 0 170 12 8	<u></u>	105 10 0			<u> </u>
-Communications and							·	
Roads and bridges		*****	*****			******	******	
Buildings Other works	*****	****** ******	723 2 1 551 7 7	0%7 6 3 745 14 11	624 7 8 450 13 7	506 3 1 1,03 0 10	****** ******	$\begin{array}{r} 2,791 & 3 & 1 \\ 3,381 & 4 & 11 \\ \hline \end{array}$
Total, A-VII	·	, p	1,274 9 8	1,683 5 2	1,105 5 3	2,109 3 11		6,172 8 0
ovement and Extension forest -								
Demarcalion Cost of forest settle- ments and compen-	103143	*****	516×148	a10 <sup>198</sup>	199 114	151 100	••••••	- + + + + + + + + + + + + + + + + + + +
sation for land and rights Surveys		- 846-19 315194		448444 448444	••••••	1651489 951485	1	
. Working Plans Sowing and planting . Protection from fire	******	******	1,392 0 6 360 7 7	1,795 0 6 2,(39 0 9	· 720 14 1 1,637 4 7	703 11 0 2,143 6 6 1,071 0 4	1.1.780 (41.794 687 689	4,611 10 1 6,200 3 5 1,071 0 4
Other works Total, A-VIII	•11-114 ·	·····	1,152 5 5 2,924 13 1	9,834 1 3	1,461 9 0 3,819 11 8	3,918 1 10		2,613 14 0
-	······		2,03 1 13 1					
Miscellaneous-			<b>**</b> -1	199		*** ***	•••••	1 9 9
. Grain compensation Other charges	10 4 0	******	667 0 6	1,020 11 0	0 12 5 921 4 10	1,099 7 0	***** ***	
Total, A-IX	16 4 0		667 0 6	1,622 4 9	920 8 10	1,099 7 0		4,825 9 1
AND WORKS	65 4 0		5,033 2 6	P,380 <b>5 0</b>	7,197 5 8	12,657 6.0		34,033 7 2
3.—Estlelishments, -Salaries.					-		- -	
Conservators	15,000 0 0	649109 0 1 6 1	8,520 0 0	17,839 4 2	8,579 5 9	14,100 6 0	4984494 547788	64,038 9 11
Depôt Establish- ments L Office Establishments.	6,651 3 5	1,589 0 5	9,394 9 3 4,531 5 5	22,241 15 9 6,351 2 4	10,700 11 11 4,785 7 3	12,789 10 5 7,791 211	845 FF	56,714 15 9 27,113 5 4
Allowances	1,670 5 2		163 13 1	038 10 0		534 O B	******	3,506 12 11
Exchange Compensa- tio 1 Allowauce- 1. Conservators		••••29	~	1 0.0	*****	805**#		100
2. Deputy Conserva- tors			*****		1 pr + r =	*****	2 FO 12 2 St. 14 B	- 444.444 2.444.446
4. Extra Assistant Conservators	****	441448	*****			******	<b>43</b> +15	101 168
Total, B.I	23,521 8 7	1,538 0 5	22,612 11 9	47,372 0 3	24,065 8 11	32,214 14 0		1,51,374 11 11
Travelling Allow-		· ·						
Conservators	2,481 3 10	*****	1,762 13 4	2,633 2 11	1,799 3 8	2,555 14 0		11,232 5 9
. Subordinate Forestand Depôt Establishments. I. Office Establishments.	702 14 4		620 12 4 591 5 8	2,413 3 9 1,135 5 4	876 10 9 586 9 2	1,065 12 10 635 13 13	*** ***	5,306 7 9 3,702 0 5 92 9 7
Piegue allowances	28 5 4	*****	••••••		****	64 4 3		02 0 8 94-1-1
Grain compensation . Total, B-II	3,273 7 6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,161 15, 4	6,211 12 0	3,362 7 7	4,321 18 1		20,333 7 6
I. — Contingencies —			,	-				
. Stationery	18 14 6		91 15 0	197 6 3	99 1 6 194 6 0	165 1 6 245 3 6		513 6 9 1,540 14 9
records	336 10 10 1,503 2 6	949.07 505949	102 0 6 721 10 0	562 9 11 320 9 0	551 8 0	600 0 0	494 · · ·	9,696 19 6 2,639 4 0
1. Pay of Police guards. Official postage	3 6 9 0 893 13 6	44 + - + + 44 + - + + 44 + - + + 44 + - + +	511 10 0 600 13 0	863 5 6 393 9 7	440 9 6 357 10 3	467 2 0 327 1 0	4 20 4 9 <b>0</b> 4 20 4 9 <b>0</b>	9,071 15 4
wher provinces		401,10	2,153 0 6	2,837 8 3	1,018 8 8	1,744 8 0		10,481 6 4
Total, B-III Total, B Establish-	2,578 2 4	1.509 0 5	2,155 0 6	55,021 4 6		38,231 3 1		1,82,169 9 9
MENTS	29,372 2 5	1,588 0 5	21,000 II 4	~~~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				

.

•

# FORM No. 25.—Annual Account Current for the forest year 1916-1917.

NORTHERN CIRCLE.	Rs.	<b>a.</b>	p.	Rs.	8.	p.		Rs. a	• <b>p</b> •	Rs.	8.	₽
T. Opening Cash Balance				807	2	2	By 1. Refunds and Drawbacks- Refunds-Forest			6,248	15	
" VIII.—Assessed Taxes—In- come Tax—Part I salaries and pensions.	<b>18</b> 1			3,790	10	3	a, II. Forest	••••		5,83,352		
" IX -Forests		•		20,40,421								
"Bombay Uncovenanted Service Family Pension Fund-						•	"General Provident Fund …	69. VE		4,791	9	11
Widows' Brauch	<b>40</b> 1444			220		0	"Civil Depsoits—Forest de- posits	44.544		1,83,402	14	11
, Civil Deposits-Forest deposits.	•**g <b>t</b>			. <b>1,74,0</b> 00	. 9	3	4 1					
"Advances Recoverable— Forest advances Objection book advances	<b>3,6</b> 9,178 4,310		•9 0	] .	•		"Advances Recoverable— Forest advances	<b>3,</b> 81 <b>,4</b> 48 I	Í 1	J 		
Advances to non-gazetted officers for the purchase of conveyance, etc Tentage advances to gazet-	203	8	0	3,7 <b>8,</b> 964	7	9	Advances to non-gazetted officers for purchase of conveyance, etc	31.)~ (	0 0		•	`
ted officers Motor car advances	73 . 21.0		0 0	j		-	Tentage advances to gazette officers •··	400	-	3,87,812	11	1
" Cheques and Bills—Depart- mental Cheques—Forests		-		<b>6,81,</b> (28	2	8	Motor car advances		0 0			
" Cash Recoveries-Clothing	440 ***			1,199	12	8	Objection book advances	4,654	0 0	J		
"Forest Remittances — Remittances to treasuries. Inter-Departmental trans- fers	<b>2,565</b> 1,701	0	6 1	6,650	8	8	" Cheques and Bills—Depart- mental Cheques—cancelled.			7,059	10	10
Inter-Divisional transfers . , P. W. D. Remittances-III	<b>2,</b> 38 <b>4</b>	4	1	J.			" Cash Recoveries—clothing	\$\$\$7 <b>4</b> 8	•	1,(99	12	٤
other remittances and rents of public buildings				<b>1,0</b> 70	7	11	"Forest Remittances—					
, Account between Bombay and Post Office-Subscription to					_		Remittances to treasuries .	20,94,756	29	1		
Postal Insurance Fund, Provincial Advances and Loan		-	-	630	6	4	Inter-Departmental trans- fers	. 399	9	20,97,539	) 7	' 7
Account—Advances to cul- tivators under Land Im- provement and Agricul				•			Inter-Divisional transfers .	· 2 <b>,</b> 384 /	<b>1</b>			
turists' Loans Act-Tagai Advances	*** !**			712	3	9	" P. W. D. Remittances — III other remittances — Miscel-					
XII.—Interest—Interest on advances to cultivators	•						laneous	441 ***	-	467	8	11
under Land Improve- ment and Agrical- turists' Loans Act				93	15	11	" 32. Miscellaneous-Refunds- Refund of lapsed depo- sits-Forest	* * * * * *		8	12	(
" XX.—Medical — Miscellaneous —Sale-proceeds of quinine		· _		324	14	0	"Provincial Advance and Lone account-Advances to culti-	•				
"Account between India and Bombay—III items adjust- able by India—Subscrip-	-		1		<b>4</b> 9	•	vators under Land Improve- ment Agriculturists' Loans Act-Tagai Advances	*****		49	0	(
tion to the Indian War Loan under the Govern- ment Scheme- War Bonds, 1920		•		570		0	" Account between Bombay and Railways-B. B. & C. I. Bailway-IV items adjust-	· .				
Do. 1922 War Loan, 1922-47	******		•	420 25	0 0	0 0	able by Railways-Miscel- laneous	*****		27,627	12	(
, Suspenses Head-War Loan subscriptions under the Presidency Banks Scheme-				•		,	"Account between Bombay and Military—Poona Division —IV items adjustable by					
War Bonds, 1920 Do. 1922 War Loan, 1929-47	• • • • • • • • • • • • • • • • •			70 15 210	0	0 0 0	Military-Miscellaneous	499962		6,093	0	(
General Provident Fund				19,491	•	0	" Closing Balance	******		662	7 <b>7</b>	
Total, Northern Circle	•••••			33,06,216	1	10	Total, Northern Circle			33,06,216	1	 1/

4

FORM No. 25.-Annual Account Current for the forest year 1916-1917-continued.

CENTRAL CIRCLE.	Rs. a. par	Rs. a. p.	•	<u>-</u> `	
To Opening Balance	•	590 2 9		Rs. a. p.	Rs. a. p.
"VIII. Income Tax-	******	090 2 9	By I. Refunds and Drawbacks- Forests	****	1,025 4 6
Recoveries from salaries and pen- sions paid by Government	*****	4,062 10 9	Income tax	,	3 10 0
"IX. Forest (as per Annual Summary Form No. 67)		9,49,368 4 9	" II. Forest (as per Annual Sum- mary Form No. 67)	***	5,22,458 10 4
"XII. Interest—Miscellancous on other accounts		438 11 0			
; XVII B.—Jails— Jail manufactures, sale-proceeds of Jail manufactures	•••••	380		••••	3 11 (
"XX. Medical Miscellaneous—sale-pro- ceeds of quinine	******	230 0 0	" Cash Recoveries, Clothing Reco- veries	••••	1,716 12 6
" Deposits of Service Funds, Bombay U. S. F. Pension Fund	****** *	235 10 9		•	
"Forest Officers' Provident Fund	•••••	279 0 0		• * • • •	190 0
"General Provident Fund	***	18,201 3 0		*****	3,80,877 13
, Advances repayable, Civil Advances, Tenage Advances to	10.14		Remittances to treasuries, Forest. Remittances	9,84,490 7 1	
Gazetted Officers			Inter-Departmental Transfers .	3,513 15 6	<b>} 9,88,355   6</b>
Objection Book Advance			Inter-Divisional Transfers	351 0 0	
Advances to Non-Gazetted Officers for the purchase of ponies, cycles, etc.		} 2,618 0 10		*****	55,705 11
Advances to Gazetted Officers for the purchase of motor cars, etc	850 0 0		" Advances Repayable— Objection Book Advances	· 1,707 0 0	
Forest Advances		3,82,598 14 9	•	x,707 0 0	
Civil Deposits, Forest Deposits		62,536 9 (	for the purchase of motor car	2,500 0 0	4,407 0
Cash Recoveries, Clothing Re- coveries		. 1,716 12 6	Advances to Non-Gazetted		
Cheques and Bill, Departmental	•	5,44,057 10 8	General Provident Fund,		4,272 2 1
Cheques—Forests Bemittances to Treasuries		686 10 8	Suspense Account	****	194 0
	· -	12,447 10 1			
Inter-Departmental Transfers		276 0 0	" tary, Account between Bombay		. •
P. W. D. Remittances III-			IVItems adjustable by		
D. D. H. J. D. D.	2,294 7 6	h -	Military Miscellaneous	*** .**	461 0
Miscellaneous	16 10 8	} 2,311 2 2	, Account between Bombay and Mili- tary, Poona Division—		
Account between Bombay and Post Office, Postal deductions	732 8 8		IV. Items adjustable by	•	6,386 9
Miscellaneous receipts on account of Iudian War Loan Bonds of 1920	110 0 0	<b>5</b> 842 8 6			0,000 0
Suspense Acccunt	•••••	194 O O	" Cheques and Bills—(Cancelled) Fcrests Cheques	***	691 0
Do. Bank Schome-			"Account between Central Pro-		
War Bonds of 1922	***	265 0 0	vinces and Bombay-		
Do. of 1920		8500	III—Items adjustable by Central Provinces Miscellaneous	•	18,012 14
Account between India and B.mbay War Loan under Government Scheme, 1929-47		115 0 0			
Do. —War Bonds of 1920	· · .	630 0 0		*****	738 8
Do. do. of 1922	****	30 0 0			
Total, Central Circle		19,85,500 2 0	Total, Central Circle		19,85,500 2 (

FORM No. 25.-Annual Account Current for the forest year 1916-1917-continued.

· · · ·	Rs. s. p.	Rs	8.	<b>p</b> .		Ra.	a p.	Rs. a.
SOUTHERN CIRCLE.		3,021		-	By I. Refunds and Drawbacks- Refunds-Divided Heads,	• •	-	
o Opening Balance	(19.15	0,022		Ť	Forests	5 + + 5 <b>#</b> 1		4,308 15
, VIII. Assessed Taxes-Income Tax- Deductions by Government				•	" II. Forest (as per Annual Sum- mary Form No. 67)	* 7 * * * *	ı	12,45,405 11
from salaries and pensions. IX. Forest (as per Annual Summary	\$****	5,123			Savings Bank Deposits- General Provident Fund	,	•	8,081 10
Form No. 67) XII. Interest-Miscellaneous on	249938	28,57,730	15	10	" Civil Doposits—Forest Deposits	1,20,747	44	h
other accounts	•••••••	8,304	6	11	, Civil Deposits—Personal Depo- sits—Other Departments— Indiaa Imperial War Relief	•		1,20,751 8
, Bombay Uncovenanted Service Family Pension Fund-Widows" Branch	43 6 2	2	. 9	•	Fund	<b>4</b>	40	μ
Life Assurance Branch	37 3 6	5 80	9	8	"Advances Recoverable— Forest Advances	7,01,550	97	
, Civil Deposits—Forest Deposits	1,26,914 5 11	1,26,856		11	Objection Book Advances	2,307	80	
, Civil Deposits—Personal Deposits— Other Departments	-58 5 0	) -	• •	11	"Advances to Non-Gazetted Officers for the purchase of con- veyances	1,090	ວ້ວ	7,07,943 1
Advances Recoverable—Forest Ad- vances	6,83,980 5 2	h			Motor Car Advances	*** *#4	•	<b>[]</b> -
. Tentage Advances to Gazetted Officers	*** <b>****</b>		•		"Cash Recoveries	. 568144		1,277 2
Objection Book Advances	2,368 10 - 8	6,99,459	) 14	0	" Cheques and Bills—Cancelled Departmental Cheques (Forests).	94899	•	35,908 6
Advances to Non-Gazetted Officers for the purchase of conveyances.	877 8 0			•	"Forest Remittances—Remittances to Treasuries	19,31,296	27	1
Motor Car Advances	<b>3,2</b> 33 6 2	J			Inter-Divisional Transfers	~ 260	0 0	19,81,600 10
Cash Recoveries	*****	1,277	2	2	Inter-Departmental Transfers.	44	80	<b>)</b> .
Cheques and Bills—Departmental Cheques—Forests	******	12,99,877	10	1]	"P. W. Remittances-III, Other Remittances - Miscellane- ous			10,530 3
Forest Remittances- Remittances to Trepsuries	<b>2,81</b> 6 10 0	h ··			"Account between Bombay and	-	•	
Inter-Divisional Transfers	1,677 0 0	27,901	12	8	Railways—M. & S. M. Railway. IV. Items adjustable by Rail- ways—Miscellaneous	5.0 <b>0</b> - 00		4,60,939 14
Inter-Departmental Transfers	23,408 2 8	J			., 32. Miscellancous-Miscellancous			
Account between Bombay and Post Office-Postal Fund Deduc- tions	•	- 776	; 13	4	Refunds-Lapsed Deposits , Account between Bombay and	••••		.596 9
P. W. Remittances-III. Other Remittances-Rents of Public					Military Supply Circle-IV. Items adjustable by Military			JL846 14
Buildings	1,439 1.6	1,738	: 0	0	IV. Items adjustable by Mili-			11010 13
Rents of Public Buildings, Miscellaneous	298 14 6	5		Ŭ	tary—Poona Division— Miscellaneous		,	<b>SO O</b>
General Provident Fund	******	26,251	4	2	" 32. Miscellaneous Temporary re- coverable Leans written off .	* <b>7 * <sup>0</sup> 8</b>	•	127 8
tary Supply Circle		ļ			,, Account between Bombay and Telegraphs		L	8 0
IV. Items adjustable by Military- Miscellaneous	****		78	-	"Account between Bombay and Military Works-IV. Items	•		
XXV. Miscellaneous-Sale-porceeds of stores and materials, Provincial.		. 268	5	8	adjustable by Military Works- Miscellaneous			84 0
XVIB. Law and Justice-Jail manu- factures, sale-proceeds of Jail					,, 32. Miscellaneous-Miscellane ou s and Unforescen Charges- Other unforescen Charges,		•	
manufactures uspense Account Account between India and	108148 - 207484		12 0		Provincial 19B Jails-Central Jails-Jail	<b>\$\$5</b> ~ 4 ~	•	8,143 8
Bombay, III—Items adjustable by India, subscription to War Loan under Government Scheme	•			•	Manufacture of Raw Mate- rials	د		1,001 12
Account between Bombay and Post Office, Miscellaneous War Bonds,	* •••••••	, <b>1</b> 00	0	0	Maunfacture of Raw Mate- rials			325 2
Account between Bombay and Post Office, Miscellaneous War Loan,	******	110	0	0	"Interest on other obligations Interest on Miscellaneous	•••••		84 0
1929-47	••••••	150	0	0	Account, Refunds	*****		26 15 1,204 7
Total, Southern Circle	******	45,44,720		31	Total, Southern Circle			

ŧ

•

### FORM No. 25.—Annual Account Current for the forest year 1316-1917-concluded.

SIND CIRCLE.	Rs. a.	p.	Rs.	8.	p.		Rs. a. p.	Rs, a. p.
o Opening Balance	****		265	8	6	By 1. Refunds and Drawbacks- Refunds-		
, VIII. Assessed Taxes-Income Tax-		÷			1	• Divided Heads (Forests)		221 12 8
Deductions by Government from Salaries and Pensions	******		2,479	12	8	,, 11. Forest (as per Annual Sum-	· · ·	- -
, IX. Forest (as per Annual Summary Form No. 67)			5,34,269	15	0	mary Form No. 67)		2,17,103 0 11
, Civil Deposits-						" Civil Deposits-Forest Deposits	******	11,691 6_0
Forest Deposite	*****		19,657	15	6	, 32. Miscellaneous—Miscellaneous	-	
, Advances Recoverable-		•				Refunds-		
Forest Advances	1,10,547 4	7	h			Refund of lapsed Deposits	******	280 2 0
Objection Book Advances	170 0	0			_			
Advances to Non-Gazetted Officers for the purchase of conveyances, etc	15 0	• •	<b>} 1,10,73</b> 2	<b>4</b>	7 	., 32. Miscellaneous—Miscellaneous and Unforesten Charges— (Provincial) Other unfore- seen charges	444144	29 1 5
			133	15	Λ		,	
" Cash Recoveries—Clothing	******		200	10	ž	,, Advances Recoverable-	·	
" Cheques and Bills-Departmental	· .		2,16,092	0	3	Forest Advances	1,12,354 14 9	1,12,574 14
Cheques-Forests	******		-	Ŭ	Ũ	Objection Book Advances	220 0 0	<b>)</b>
, Forest Remittances -	. 59 1	1	\			,, Cash Recoveries—Clothing	**3***	· 133 15 (
Remittances to Treasuries			{ 143	11	1	,, cash iteoremes—croning		• •
Inter-Departmental Transfers .	84 10		-			"Cheques and Bills (cancelled) Departmental Cheques, Forests		275 0 0
"Account between Bombay and Post Office—			Į			-		- · · ·
Postal Fund Deductions			365	4	0	,, Forest Remittances— Remittances to Treasuries	5,47,519 11 6	
" P. W. Remittances-						Inter-Departmental Transfers.	10,270	5,47,519 11 6
III. Other Remittances-	•					Inter-L'epartmental Transfers.		-
Rents of Public Buildings	******		351	0	0	Savings Bank Deposits-		
, Objection Book Advances-Suspense-	·			-		General Provident Fund	****	60 0 0
-Suspense Account			82	7	4	"P. W. D. Remittances—		
"XX. Medical-Miscellaneous-Sale- proceeds of quinine	748188		127	15	0	III. Other Remittances-		
"General Provident Fund	******		10,523	4	0	Items adjustable by P. W. D.—	<b>、</b>	
Account between India and Bombay-			-	•		Miscellaneous	*****	5,163 6 8
IV. Items adjustable by India-			-		ł	, Refunds and Drawbacks—Re-		-
Subscriptions to the War Loan under Covernment Scheme-					-	funds-D.vided heads-Assessed Taxes-Income Tax	T++148	8 10 4
War Bonds-1920			200	0	0	"Objection Book Advances-Sus-		-
War Bonds-1922	******		100	0	0	pense-Suspense Accounts	******	373 5 11
, Suspense Head-					i	· · · ·		
War Loan Subscription under the Presidency Bank Scheme-War Bonds-1920			120	0	0	Closing Balance		219 9 9
			<u> </u>		_	· · · · ·		
Total, Sind Circle	***-**		8,95,654	0	11	Total, Sind Circle	*****	8,95,654 0 11
 Geand Total!	·	<u> </u>	1,07,32,096	7	8	[-		1,07,32,096 7 5

FORM NO. 26.-Revenue received and outstandings on account of revenue during 1916-1917.

	FORM NO. 261	levenue received				Balancedue to the	
Division.	Farticulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Deparment at endof year.	Remarks.
1	2	3	4	5	- 6 	. 7	8
NORTHERN CIRCLE.	E	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p. 432 6 0	Rs. a. p.	
Direction Panch Mahils.	Various sources Timber and other forest produce.	******	432 6 0 1,49,726 11 9	432`6 0 ],49,726 11 9	1,49,726 11 9	1,280 0 0	
Surat North Thána East Thána South Násik North Násik Násik Sub. Division.	Do Do Do Do Do Do Do Do	1,273 32 0  130 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2,00,467 11 11 \\ 8,48,100 15 7 \\ 3,46,392 9 9 \\ 2,98,501 1 9 \\ 1,57,875 15 8 \\ 63,420 1 0 \\ 2,401 4 0 \\ 641 14 0 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	48,272 0 0 14,245 8 0 35 0 0	
Direction (Famine Fodder).	Famine fodder		<i>`</i>				
1	Total, Northern Circle	1,403 12 0	20,66,856 15 5	20,68,260-11 5	20,04,4?8 3 5	63,832 8 0	
CENTRAL CIRCLE.							
Direction East Khán- desh.	Timber and other forest produce.	*** ** . ****	500 8 0 1,48,720 14 4	500 8 0 1,48,720 14 4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3,053 0 0	
West Khán- desh. North Khán-	Do	290 0 0	2,10,238 12 2	2,10,238 12 2 1,24,147 12 10	1,23,543 4 10	604 8 0	
desh. Poona Sátára Kolába Working Plans.	Do Do Do	52 0 0 656 0 0	1,71,172 6 4 74,215 6 8 1,66,798 0 8 13 5 5	1,71,172 6 4 74,267 6 8 1,67,454 0 8 13 5 5	1,63,670 6 4 73,165 13 8 1,66,798 0 8 13 5 5	7,502 0 0 3,101 9 0 656 0 0	
	Total, Central Circle	998 0 0	8,95,517 2 5	8,96,515 2 5	8,83,598 1 5	12,917 1 0	
SOUTHERN CIRCLE.					•		
Kánara, North- ern.	Timber and other forest produce.	2,72,273 13 0	10,64,008 7 8	13,36,282 <b>4 8</b>	$\begin{array}{ccccccc} (a) & 612 & 0 & 0 \\ 9, 45, 1 & 06 & 12 & 2 \\ (b) & 8 & 5 & 8 & 3 \end{array}$	3,89,678 0 3	(a) Amount adjusted in the accounts for March (111 Supple-
Kánara, East- ern.	Do	1,18,926 5 6	3,81,002 9 7	4,99,928 15 1	3,85,749 11 11 (b)93 0 0	}1,14,086 3 2	gentary) 1916, and not accounted for by the Divisional Forest Officer in the last year's
Kánara, Cen- tral.	D <sub>0</sub> ,	25,661 7 10	3,24,926 1 9	3,50,587 9 7	3,34,018 0 6	16,569 9 1	return.
Kánara, South- ern.	Do	7,261 10 7	55,925 4 2	63,186 14 9	60,933 5 3 (b,352 10 0	} 1,900 15 6	•
Kánara, West- ern.	Do	23,414 3 O	2,53,202 0 9	2,76,646 3 9	2,50,591 6 4	26,054 13 5	
Belgaum	1	44,450 6 0	3,12,554 13 0	3,57,005 3 0	8,11,699 3 <u>4</u>	45,305 15 8	
Dhárwár-Bijá- pur.	Do	377 11 9	66,810 9 1	67,188 4 10	66,730 0 2 (b,146 6 0	} \$11 14 8	
Ratnágiri Direction	•	••••••	1,248 4 7	1,248 4 7	1,248 4 7	 ***-**	
Working Plans.		*84	1,645 7 7 8 12 0	1,645 .7 7 8 12 0	1,645 7 7	*****	
- -	Total, Southern Circle.	4,92,395 9 8	24,61,332 6 2	29,53,727 15 10	8 12 0 (a)612 C 0 23,57,730 15 10		<ul> <li>(5) Bevenue written of during the year :- Items, Anit, False</li> </ul>
SIND	•				(b) 1,477 8 8	5,93,907 7 9	balance. 4 507.653 Bea. halance. 7 5-0 2-0 Total., 11 1.477.553
CIRCLE:		÷		-			
Direction	Various sources	,	•••••	*** ***	40 que		
-	produce.	24,913 12 0	1,39,383 5 10	1,61,297 1 10	1,64,181 9 10	115 8 0	
Lárkána Hyderabad	Do Do	6,097 12 0	57,584 3 5	63,681 15 5	63,681 15 5		
erruck	Do	20,870 10 8 25,628 6 1	1,40,819 11 11	1,81,690 6 7	J,56,275 6 7	5,415 0 0	
bar and Par-	Do		1,09,388 <b>3 6</b> 5,696 <b>4</b> 10	1,35,016 9 7	1,15,646 11 7	19,369 14 0	
kar.	Total, Sind Circle		4,52,871 18 6	5,696 4 10 5,30,382 6 8	5,696 4 10 5,05,482 0 8		
	GEAND TOTAL	5,72,307 14 5	58,76,578 5 6	64,48,886 8 11		24,900 6 0	
	· · ·	· · · · · · · · · · · · · · · · · · ·	·			6,95,557 6 9	

		DEPARTMENT DE	BTOR.	D:	BPARTMENT CREDIT	BALANCE DUE		
Division.	At com- mencement of year.	Recoveries in cash and value of sup- plies and work done during the year.	At close of year.	At commence- ment of year.	Payments made during year.	At close of year,	To Department (Outstandings).	By Depart- ment (Liabilitics),
1	2	3	4	5	6	7	8	9
NORTHERN CIRCLE. *		Rs. a. p.	Rs. a. p.	. Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs, a, p.	Rs. a. p.
Contractors.								
North Thána	••••	229 0 0	229 0 0		229 0 0	529 0 0		•••
Surat		8,757 8 0	8,757 8 0	13,757 8 0	17,000 0 0	30,757 8 0	22,000 0 0	
lotal, Contractors	•••	8,986 8 0	8,986 8 0	13,757 8 0	17,229 0 0	30,986 8 0	22,000 0 0	
Disbursers.	- 							.
Direction •••	**#	1,423 3 9	1,423 3 9		1,423 3 9	1,423 3 9	•••••	*** ,
North Thána	· ••=	61;156 8 11	61,156 8 11	891 3 2	62,879 0 10	63,770 4 0	2,613 11 1	
Vest Thána	•••	50,035 14 8	50,035 14 8	1,389 12 9	50,355 4 4	51,745 1 1	1,709 2 5	
East Thána 🚥		51,169 3 7	51,169 3 7	918 12 4	52,821 10 11	53,740 7 3	2,571 3 8	
Vorth Násik	•••	24,705 13 2	24,705 1 <b>3</b> · 2	834 0 4	24,272 15 10	25,107 0 2	401 3 0	
onth Násik		35,671 4 4	35,671 4 4	1,416 1 5	35,257 4 3	36,673 5 8	1,002 1 4	
anch Mabáls		33,022 1 4	33,022 1 4	587 6 1	33,225 6 1	33,812 12 2	790 10 10	<b>*</b>
urat	•••	95,313 11 2	95,315 11 2	4,580 15 9	95,939 15 5	1,00,520 15 2	5,205 4 0	•••
ub-Násik	•••	7,692 4 4	7,692 4 4	*****	8,044 13 8	8,044 13 8	352 9 4	-
Total, Disbursors	•••	3,60,192 1 3	3,60,192 1 3	10,618 3 10	3,64,219 11 1	3,74,837 14.11	14,645 13 8	
Total, N. C	••••	3,69,178 9 3	3,69,178 9 3	24,375 11 10	3,81,448 11 1	4,05,824 6 11	36,645 1,3 8	
CENTRAL CIRCLE.	·		· ·	-	i			· · ·
Contractore.		•						}
)irection	•••	2,500 0 0	2,500 0 0					2,500 0
otal, Contractors	•	2,500 0 0	2,500 0 0	•••	·····		-	2,500 0
Disbursers.				 				
				120	*****	120	120	
ast Khándesh	•••	46,50S 14 0	••••··· 46,508 14 0	413 14 9	46,702 10 6	47,116 9 3	607 11 3	· ···
vest Khándesh	***	72,886 11 1	40,308 14 0 72,886 11 1	413 14 9 3,009 1 11	75,005 15 4	78,075 1 3	5,188 6 2	
orth Khandesh	***	73,908 4 1	73,908 4 1	3,009 1 11	72,413 2 2	75,590 10 2	1,782 6 1	
oona	•••	68,596 <b>2</b> 7	68,596 2 7	1,514 10 11	68,313 12 2	69,828 7 1	1,232 4 6	-
olába •••	• • •	65,857 1 4	65,857 <b>1 4</b>	885 0 5	65,816 0 0	66,701 0 5	843 15 1	
itára •••	•••	51,011 13 8	51,041 13 8	_ <b>1,267 7</b> 1	51,166 5 0	52,433 12 1	1,391 14 5	
Jorking Plans		920 0 0	900 0 0	-19207 7 1	900 0 0	900 0 0		
Vost Kh4ndesh Famine Fodder.	•••	500 0 0	500 0 0	•••••	. 500 0 0	500 0.0		***
Total, Disbursers	•••	3.80,098 14 9	3,80,098 14 9	10,268 13 1	3,80,877 13 2	3,91,146 10 3	11,047 11 6	
TOTAL, C. C.	* • •	3,82,598 ]4 9	3,82,598 14 9	10,268 13 1	3,80, <sup>8</sup> 77 13 2	3,91,146 10 3	8,547 11 6	2,500 0 (

.

FORM No. 27.—Outstandings and Liabilities on account of Contractors and Disbursers for the forest year 1916-191

p 15-41

DEPARTMENT DEE			TOB.	D	BPARTMENT CREDIT	BALANCE			
Division.	At com- mencement of year.	Recoveries in cash and value of sup- plies and work done during the year.	At close of year.	At commence- ment of year.	Payments made during year.	At close of year.	To Department (Outstandings).	By Depart- ment (Liabilities).	Roman
· , 1	2	3	4	5	0	7	8	9	10
SOUTHERN CIRCLE.	Rs.	Rs. a. p.	Rs. a. p.	, Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	ł
Contractors.								    .	
hárwár-Bijápur	•••	281 7 0	281 7 0	281 7 1	5. 400 · · ·	281 7 0			<b>.</b>
Anara, N. D	••••	39,294 10 6	39,294 10 <b>6</b>	28,031 7 2	29,248 0 0	57,279 <b>7</b> 2	17,984 12 8	•••	
elgaum	•••	96,833 15 5	96,833 15 5	65,576 0 9	1,16,145 0 0	1,81,721 0 9	84,887 1 4	•••	
Auara, W. D		78,615 12 3	78,615 12 3	45,964 0 0	79,354 <b>4</b> 3	1,25,318 4 3-	46,702 8 0	•••	
ánara, S. D		8,083 8 9	<b>3</b> ,080 8 9	4,700 0 0	2,319 0 0	7,019 · <b>0</b> 0	3,938 <b>7 3</b>	5.00	
ánara, E. D.		40,844 11 P	40,844 11 2	<b>13</b> ,212 6 9	47,336 0 0	60,548 6 9	19,703 11 7	•••	· .
ánara, C. D	•••	25,418 3 6	25,418 3 6	19,462 10 9	16,881 11 7		10,926 2 10	•••	
fotal, Contractors		2,84,369 4 7							
Disbursers.				1,17,226 0 0				***	
The second second second second second second second second second second second second second second second se	÷	00,000 6 0	00.000 0.0	· · · ·		00.047 4 0	624 14 1	•	
	***	26,322 6 8	26,322 6 8	1,452 15 4	25,494 5 5	26,947 4 9			
lgaum	•••		1,03,205 9 5		1,07,270 0 0	• • <sup>1</sup>	14,472 3 8	•••	
inara, N. D.	***	90,010 9 2	9 <b>92</b> 99	4,255 12 7	91,646 <mark>8</mark> 8	95,902 5 3	5,891 12 🚶	•••	
inara, W. D.	•••	46,141 15 1	46,141 15 1	3,883 9 7	50,915 11 -9	54,799 5 4	8,657 6 3		
inara, S. D. 🚬	***	35,371 12 0	35,371 12 0	1,327 ]2 6	34,732 0 10	36,059 13 4	688 1 4	•••	
ánara, E. D		63,340 2 11	63,340 2 11	2,827 4 10	65,505 4 0	68,332 8 10	4,92 5 11	***	
ánatta, C; D	***,	27,893 14 3	27,893 14 3	r 876 7 1	30,559 8 0	31,235 15 1	8,312 0 10	415	
atnágiri		3,774 11 1	3,774 11 1	800	8,793 8 1	3,801 3 1	26 8 0		
orking Plans		2,650 O·O	2,650 0 0		2,650 0 0	2,650 0 0		·	
irection	•••	900 <b>0</b> 0	900 0 0	4 	900 0 0	900 0 0			
Iotal, Disbursers	482	3,99,611 0 7	3,99,611 0 7	25,039 11 0	4,13,266 9 9	4,38,306 4 9	38,695 4 2		
TOTAL, S. C	•••	6,83,980 5 2	6,83,980 5 2	······		<u> </u>	2,22,837 15 10		
SIND CIRCLE.									
Contractors							•	•	
irection		100 0 0	- 100 0 0		100 0 0				
(rkína -	•••	20 0 0	. 100 0 0 20 0 0	· · · • • •		100 0 0	******	•••	
1-	***	130 0 0				20 0 0			1 -
ridene he J'	•••	l	130 0 0		130 0 0	130 0 0	******	•••	
1.1.	•••		120 0 0	*****	120 0 0	120 0 0	***,	•••	l
		30 0 0	30 0 0		30 0 0	30 0 0	• • • • • • • •		[
Total, Contractors	***	400 0 0	400 0 0		400 0 0	400 0 0			ł
Disbursers,			•						
srkána	•••	19,402 2 1	19,402 2 1	139 12 9	19,771 2 7	19,910 15 4	508 13 3		
rrack	•••	28,421 15 3	28,421 15 3.	1,031 3 4	28,544 12 0	29,575 15 4	1,154 0 1		
yderabad ••	2.40	18,459 10 4	18,459 10 4	119 0 6	18,830 0.0	18,949 0 6	489 6 2	4	1
kku <b>r</b>	*** · ·	43,863 8 11	43,863 8 11	486 11 4	44,809 0 2	45,295 11 6	1,432 2 7	•••	
Total, Disbursers	•••	1,10,147 4 7	1,10,147 4 7	1,776 11 11	1,11,954 14 9	1,13,731.10 8		•••	
ہ: otal, Find Circle[	····	1,10,547 4 7		·	1,12,354 14 9		8,594 6 1 3,584 6 1		
				ته د			-	(	

OBM No. 27.—Outstandings and Liubilities on account of Contractors and Disbursers for the forest year 1916-1917—concld.

BOMBAY : PRINTED AT THE GOVERNMENT CENTRAL PRISS,

ç

~

,

766

h