M.R.O. 1—77,006—8-6-37.

(1) Number of pages 28

(2) Date of repair 6.7.38

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No. 1161 Press / Mis.

Dated 27-5-1879.

Not to be folded or roughly handled

I

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

27th May 1879, No. 1,161.

No. 566. READ THE FOLLOWING PAPERS:—

From R. W. BARLOW, Esq., Commissioner of Nilgiris, to J. H. GARSTIN, Esq., Acting Secretary to Government, Revenue Department, dated Ootacamund, 19th May 1879, No. 82.

IN forwarding extract from Colonel Beddome's letter, No. 230, dated 6th instant, I have the honor to state that I have informed him that the experiment should comprise five acres in each case as ordered by Government, and further solicit orders as to the system of coppicing to be adopted.

2. I approve of the first of Colonel Beddome's proposals, and disapprove of the second, as, if the stool is neatly rounded in a convex form so as not to hold water, and if the collar is not injured, the closer to the ground we cut the better in my opinion. I am doubtful, though I speak with great diffidence, as to the advisability of carrying out the Conservator's third proposal; at all events it could not be carried out on a large scale as the trees would not throw out shoots at the same time. I presume when using the word "sucker" in speaking of this experiment Colonel Beddome means "shoot," and I note he uses the latter word further on.

3. When passing orders on this letter, which I hope may be done at an early date, as I am anxious to have the areas cleared and the bark stored by the 15th June, I request that the copies of Captain Campbell Walker and the Chinchona Committee's reports, asked for in my letter, No. 71, dated 26th ultimo, may be ordered to be sent to me at once. In carrying out these experiments I have to draw the attention of my subordinates "to the defects in the methods hitherto followed" (*vide* paragraph 33 of G.O., No. 463, dated 24th February 1879).

ENCLOSURE No. 1.

From Colonel R. H. BEDDOME, Conservator of Forests, to R. W. BARLOW, Esq., Commissioner of Nilgiris, dated Ootacamund, 6th May 1879, No. 230.

* * * * *

2nd.—In the block of barked trees selected for coppice, there is to me very evident signs of constitutional injury from the process which has been repeated six times; if the roots have suffered in an equal ratio with the trees many will probably fail to reproduce from the stool where there is not already a young sucker: I think therefore that five acres is rather a large gap to fell out at once; I would restrict the felling to three acres to be treated as follows on three different plans. In the first acre I would nick the bark all round at a level with the ground, saw the trees of about 2 or 3 inches above this, trimming the stool with the adze. In the second acre I would nick the bark all round at about 6 or 8 inches from the ground, sawing just above this. In the third acre I would fell no trees till a sucker is produced; to induce the growth of these I would remove a small piece of the bark of the trunk an inch or two above the ground cutting at the same time slightly into the leber; when the sucker was well developed I would nick the bark a little above it and saw off the tree as above. These three experiments will, I think, give valuable data, but it is my opinion that the third plan will in time be that generally adopted, and that it will not be safe to coppice till a shoot is secured. I observed these shoots on many trees where there had been slight injury at the base of the bark; the kick of an animal's foot or even the slight injury from the gnaw of a rodent will often cause the growth.

(True Extract.)

(Signed) R. W. BARLOW,
Commissioner.

No. 567. From R. W. BARLOW, Esq., Commissioner of Nilgiris, to J. H. GARSTIN, Esq., Acting Secretary to Government, Revenue Department, dated Ootacamund, 19th May 1879, No. 84.

I HAVE the honor to request early orders on my letter, No. 64, dated 18th ultimo, as I consider the best time for coppicing to be from about this time till the 15th proximo. The weather seems to have set in mild, and after the 15th of June the south-west monsoon may break and diminish the amount of alkaloids in the bark to be stored.

2. I take this opportunity of reporting for approval with reference to G.O., No. 795, dated 5th ultimo, that sites for the coppicing experiments have been selected and approved of by Colonel Beddome at the Neddivattum, Wood and Hooker Estates, as well as Dodabetta, and work will be commenced shortly at the three former. I propose to visit all the plantations myself in the course of next week.

3. Mr. Newman of the Forest Department will directly conduct the wood experiment, and Mr. Schnarre, Overseer, Chinchona Department, instructed by Mr. Rowson, the one at the Hooker Estate; both these experiments being generally supervised by Major Jago as soon as he recovers from his late accident. Mr. Rowson, Assistant Superintendent, will personally carry out operations at Neddivattum, and Head Overseer Narrainsawmy, a subordinate of great experience, will conduct the experiment at Dodabetta should Government sanction it; this last I shall keep specially under my own eye.

4. I have been unable to avail myself more largely of the assistance of the Forest Department in conducting actual operations, owing to shortness of hands in that department as explained by Colonel Beddome in his Nos. 140 and 286, dated 23rd ultimo and 13th instant, respectively, extracts from which are herewith forwarded.

ENCLOSURE No. 1.

From Colonel R. H. BEDDOME, Conservator of Forest, to R. W. BARLOW, Esq., Commissioner of Nilgiris, dated Ootacamund, 23rd April 1879, No. 140.

* * * * *

6. I have no competent subordinate or any one who understands anything on the subject to give assistance to Mr. Rowson at Neddivattum, but I presume he is himself quite competent to carry out the work after we have approved of the sites, and Major Jago will occasionally visit that quarter and carry out any instructions as to supervision that you or I may think necessary to give him after we have gone over the ground.

(True Extract.)

(Signed) R. W. BARLOW,
Commissioner.

ENCLOSURE No. 2.

From the same Officer dated Ootacamund, 13th May 1879, No. 286.

* * * * *

I consider Mr. Rowson quite qualified to conduct all the experiments if he is furnished with full particulars as to the system you wish pursued, and I regret that I do not see any way to offering you any assistance in the way of superintendence. Mr. Newman, the only available Forest Ranger will, I fear, be fully occupied with Eucalyptus planting, but if Major Jago is prepared to spare his services, I doubt if he is as well qualified to superintend the operations as Mr. Schnarre or Narrainsawmy.

(True Extract.)

(Signed) R. W. BARLOW,
Commissioner.

No. 568. ORDER THEREON, 27th May 1879, No. 1,161.

Miscellaneous.

WITH the first of these letters the Commissioner forwards an extract from a letter from the Conservator of Forests in which it is recommended that the block of barked Chinchona trees to be coppiced, presumably at Neddivattum, should be limited to three* acres, each of which might be experimentally treated on a different plan.

* Instead of 5 acres as ordered—*vide* para. 33, G.O., 24th February 1879, No. 463.

2. Colonel Beddome proposes to restrict the area experimented on because he sees among the trees "very evident signs of constitutional injury."

He thus confirms the opinion expressed by the Chinchona Committee and concurred in by His Grace the Governor in Council, who observes that this is a reason for taking a sufficient area to avoid risk or allegation of special circumstances. No reduction in the size of the blocks to be coppiced will therefore be made.

3. Three methods of coppicing are suggested by the Conservator—

(1) "to nick the bark all round at a level with the ground and saw the tree off about 2 or 3 inches above this;"

(2) to repeat the same operations 6 or 8 inches from the ground;

(3) to fell no tree until a shoot is artificially produced by removing "a small piece of the bark of the trunk an inch or two above the ground."

4. The last is not coppicing properly so called, and of the second there are already abundant examples indicating the failure of this system. Proper coppicing is to cut with a clean cut close above the collar, and if the first method is adopted, it must be followed by adzing the stump.

5. The arrangements detailed in the Commissioner's second letter are approved, and his attention is drawn to the necessity of keeping the felling and barking equally advanced.

G.O., 5th April 1879, No. 795.

6. Orders have already been passed on the Commissioner's letter, dated 18th April, No. 64, and that dated the 26th idem, No. 71, will be disposed of in due course. In the mean time copies of the united reports will be sent to him for *his own personal* use.

(True Extract.)

(Signed) J. H. GARSTIN,
Acting Secretary to Government.

To the Commissioner of Nilgiris.
" the Conservator of Forests.
" the Board of Revenue.

Exd. W. H. French.

15-5-72

Govt. of Bihar.

REVENUE.

To

The COMMISSIONER of KILGIRIS,
&c, &c, &c.

Dated May 27th, . .

Printed June 7th.

Read.

Ed.

G.O., 27th May 1872, No. 1,191.

MAY.

Nos. 505—508.

Subject of Coppicing to be attended to on the Government Cinchona Plantations.—Approves the arrangements detailed in the second letter of the Conservator of Kilgiris in connection with the —, and draws his attention to the necessity of keeping the felling and barking equally a head

10 2

* 2 to 64 - 18th ult.

My dear Gorstein -

Kindly let me have answers to my Nos 82 & 84 of the 19th inst*, as soon as possible - then go to you by beare - the coppicing & stoning should be completed, if possible, by the

15

15th prox & I am going round to all the plantations; but before I commence felling, on the sites already selected, I must have a G.O on Beldomes proposals & my No. 82 - & also a reply to my No. 84.

7

Please help me in this matter & oblige

Yours sincerely

J W Barlow

Springdale
20.5.79

No 1140 Office of Conservator of Forests
Coltsfoot 23rd April 1879

S. Pine

From

Colonel R. H. Beddoine
Conservator of Forests

To

R. W. Barlow Esqr.
Commissioner of Police

Sir.

× × × × ×

6. I have no competent subordinate or anyone who understands anything in the subject to give assistance to Mr. Rowson at present time, but I presume he is himself quite competent to carry out the work after we have approved of the sites, and Major Jago will occasionally visit that quarter and carry out any instructions as to supervision that you or I may think necessary to give him after we have gone over the ground.

I

I have the honor to be
Sir
Your most obed.t Servant
Sign'd/ R. H. Beddome Colonel
Conservator of Forests

/ True Extract /

W. W. Burlow
Commissioner

No. 286 Office of Conservator of Forests
Castlemaine 13th May 187

58 From

Colonel R. H. Beddome
Conservator of Forests

To. R. W. Burlow Esqr.
Commissioner of the
Valgerie

Sir.

x x x x x x

I consider Mr. Rowson quite qualified to conduct all the experiments if he is furnished with full particulars as to the system you wish pursued, and I regret that I do not see any way of offering you any assistance in the way of superintendence, Mr. Newman the only available Forest Ranger still I fear be fully occupied with Eucalyptus planting, but if Captain Jago is prepared to spare his services I doubt if he is as well qualified to superintend the operations as Mr. Schwarz or Narracinacawny.

I

I have the honor to be
Sir
Your most Obed.t Servant
(Signed) R. H. Beddome Colonel
Conservator of Forests.
/ True Extract /

W H Boulton
Commissioner

2 & 13

COMMISSIONER'S OFFICE,
Ootacamund, 19 May 1879

No. 84

No 167 — FROM A. W. Barkshire
COMMISSIONER, NILGIRIS.

TO The Secretary to Government
Revenue Department
Ootacamund

SIR,

I have the honor to request early orders, on my letter No. 64 dated 18 Ultimo as I consider the best time for coppicing to be from about this time till the 15 proximo. The weather seems to have set in mild and after the 15 of June the S.W. monsoon may break and diminish the amount of alkaloids in the bark to be stored.

2 I take this opportunity of reporting for approval with reference to G.O. No. 795 dated 5 Ultimo, that sites for the coppicing experiments have been selected and approved of by Col. Beddome at the Seddiatam Wood and Hooker Estates, as well as Dodabetta, and work will be commenced shortly at the three former. I propose to visit all the plantations myself in the course of next week.

3

3. W.P. Newman of the Forest Department will directly conduct the ~~Hooker~~ Wood experiments, and W.P. Schwarz, overseer Chinchona Department instructed by W.P. Rowson, the one at the ~~Hooker~~ Hookers Estate, both these experiments being generally supervised by Major Jago as soon as he recovers from his late accident. W.P. Rowson, assistant Superintendent, will personally carry on operations at Heddiwallawa and head overseer Narayanswamy - a subordinate of great experience - will conduct the experiments at Dodabetta should Government sanction it. This last I shall keep specially under my own eyes. I have been unable to avail myself more largely of the assistance of the Forest Department in conducting actual operations, owing to shortness of hands in that Department as explained by Col. Beddome in his Nos. 140 and 286 dated 23d Ultimo and 13th instant respectively, extracts from which are herewith forwarded.

I

S-15

I have the honor to be
Sir,
Your most obedt Servant

W.P. Rowson
Asst Commissioner -

No 230 Office of Commissioner
Ootacamund 19th May 1879

Sir

I have the honor to be
Your most obedient
humble Servant
C. H. Bardwell Esqre
Secretary to Govt
Revenue Department
Madras

Sir

I beg to submit herewith two extracts
from Coffee, there is so much anxiety
being shown on
the part of coffee planters to have experiments
made with Cinchona cultivation, and
as I have not the funds at my disposal
at present to carry out any experiments
myself, I would respectfully suggest
that Government be moved to grant
a grant-in-aid to the Nilgiri Planters'
Association for the purpose of carrying
out experiments in Cinchona cultivation
on a large scale.

I have the honor to be
Sir
Your most obedient
humble Servant

Rec Dept
1879.
No. 84 No 4162
Date— 19 May 79

COMMISSIONER'S OFFICE,
Ootacamund.

To Rec- Dept
The Secretary to Govt.
Rev: Dept
Madras

Enclosures. 2

Cinchona
SUBJECT.

Requesting early
orders regarding the
Experiments to be carried
out at Dodabetta, and
reporting the steps taken
with reference to G. O. No
795 of 5 Instn.

S. Ord 1161 - 27 May 1879

C 26-5-79.
R 23-5-79
R 26-5-79
R 27-5-79.

bark all round at a level with the ground, saw the tree off about 2 or 3 inches above this, trimming the stool with the adze. On the 2nd acre I would nick the bark all round at about 6 or 8 inches from the ground, leaving just above this. In the third acre I would fell as before till a sucker is produced; to induce the growth of these I would remove a small piece of the bark of the trunk an inch or two above the ground cutting at the same time slightly into the liber; when the sucker has well developed I would nick the bark a little above it, and saw off the tree as above. These three experiments will I think give valuable data, but it is my opinion that the 3rd plan will on time be that generally adopted, and that it will not be safe to coppice till a shoot is secured. I also would these shoots on many trees where there has been

(13

slight injury at the base of the bark the track of an animal to footpaths the slight injury from the gnaw of a rodent will often cause the growth.

I have the honor to be
Sir
Your most obedt Servant
(Signed) R. H. Beddome Colonel
Conservator of Forests.

/ True Extract /

W. Morlan
Commissioner

Enclosure

21

COMMISSIONER'S OFFICE,

Ootacamund, 19th May 1879

166 Read the following Papers

No. 82

FROM Hy Barlow Esq

COMMISSIONER, NILGIRIS.

TO The Secretary to Government
Revenue department
Ootacamund.

SIR,

In forwarding extract from Col: Beddome's letter No: 230. dated 6th instt, I have the honor to state that I have informed him that the experiment should comprise 5 acres in each case as ordered by Government, and further solicit orders as to the system of cropping to be adopted.

2. I approve of the first of Col: Beddome's proposals, and disapprove of the second, as if the stool is neatly rounded in a convex form so as not to hold water and if the collar is not injured the closer to the ground we cut the better in my opinion. I am doubtful though I speak with great diffidence, as to the advisability of carrying out the Conservators third proposal; at all events it could not be carried out on a large scale as the trees would not

not throw out shoots at the same time - I presume when using the word "Sucker" in speaking of this experiment, Col Beddome means "shoot" and as I note he uses the latter word further on.

3. When passing orders on this letter, which I hope may be done at an early date - as I am anxious to have the area cleared and the bark stored by the 15th June - I request that the Copies of Captn Campbell Walker and the Chinchona Committee's reports asked for in my letter No 71 dated 26th Ultimo may be ordered to be sent me at once. In carrying out these experiments I have to draw the attention of my subordinates to the defects in the methods hitherto followed vide para 33 of G.O. No 463 dated 24th February 1879.

I have the honor to be
Sir
Your most obedt servt

W W Gordon
Commissioner

was sent on circulation in order on the 5th May 1879.

Forwarded

From the Comptr
Wellington No 82 d: 16th
August No 84 d: 19th
July 79

1. With the first
of these letters the
Comptr forwards
an Extract from
a letter from the
Conservator of Forests
in which it is
recommended that
the block of bushed
Cinchona trees
be disposed of
presumably at
Neddivattum – that
be limited to three
acres each of
which might
be experimentally
treated on a
different plan.

C.O. Inclosure 45
acres as altered
vide p 33 f.o.
24 Feby 79
No: 463.

Ceylon
No. 82
Acknowledged
23 Sept 79

Ceylon
No. 82.
Answered
1874 & No 461

Date— 15 May 79

COMMISSIONER'S OFFICE,
Ootacamund.

24

To
The Secy: of State for
India
&c &c &c

Enclosures.

Reporting
SUBJECT.

Soliciting roads
&c &c for access of
Cultivators &c to
Cinchona Trees
in the Government
Plantations

Q.C. 11th Feby 1879

2. Col. Beddome proposes a Section the area Superintended on because he sees among the trees "Very evident dysn constitutional injury" He thus confirms the opinion expressed by the Committee & concurred in by His Grace the Governor which led to the order to coppice. Unless there for other reasons it is thought better to reduce the area to be coppiced no special notice need be taken of this point.

There is some risk that the

Vide. Remarks on Bodenheim at page 41 of Circular Court. Report-other details on pages 45-6.

(27)

Roots may die & start back before this is out. Very probable for the "semi-hilly" tree left-rooted by Dr. Kirby & Vide ditto Bodenheim "had a perfectly healthy root"

3. Three methods of coppicing are suggested by the Conservator.

(1) to "notch" the bark all round at a level with the ground & saw the tree off about 2 or 3 inches above this

(2) to cut the same operation 6 or 9 inches from the ground

(3) to fell no tree until a shoot is artificially produced by layering "a small piece of the bark of the main

letter from Barlow details the arrangements he has been able to make for supervising operations. These may apparently be approved but the opportunity might be taken to draw his attention to the receipt of keeping the selling [illegible] equally advanced

5. The arrangements [illegible]

Ld 15/11

L.O. 5 Apr 07
No: 795

Forests

Accidental Expenditure

C.O. 27-5-79 No 1161.

C. 20-5-79.
R. 23-5-79.
R. 26-5-79.
R. 27-5-79

33/8

Revenue Department.

C. No 1161

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 27th May 1879

READ the following Letter, from the Commissioner of Salt Revenue, dated 19th May 1879, No 32.

1- Mr. the first of these letters the Commissioner explains that the Department of Forests has decided that the block of planted Spanish trees between the Coupum and Nedduvattum should be limited to those trees only which might be [illegible]

2. Instead of 5 acres recommended- Vide R. 33 G.O. 24th Feb. 1879 No 162.

treated as additional [illegible]

2. Clause 6 Sentence beginning "It shall be open" inserted as "Upon and subject to the Provisions of Constitutional Injury".

The Lords confirmed the Opinion expressed by the Chairman Committee and Counsel in Light of the Opinion [illegible] Several Trees [illegible] Reduction in the Size of the Blocks to be Disposed will therefore be made.

This is a Reason for taking a sufficient area to avoid Risk or allegation of Special Circumstances under Clause 6

5. Heads and Clauses of

of Confirming are Suggested by the Chairman —

(1) "to [illegible] Nick allowed at a Level with the ground and Sale [illegible] of about 20 Inches above Ties"

(2) to repeat the same Operations 6 or 8 Inches from the ground

(3.) to fill no Cross until a Street is artificially produced by removing "a small part of the Bank of the Trench and Earth or Trees above the ground"

4. The last is not Confirming Property so called and

and plate 2nd
there are already
abundant examples
[illegible] the consequence
natural failure
proper coppicing is
to cut with a
clean cut, above
the collar and
if the 1st method
is adopted it
must be follow-
-ed by adzing
the stump.

5 The arrange
-ments detailed
in the Commission
-er's second letter
are approved and
his attention is
drawn to the
necessity

Gld 5 April 1879.
20795.

necessity of keeping
the felling and
barking equally
advanced.

6. Orders have
already been passed
on the 2 Comm^rs
letter d: 8 April
No 64 & that dated
the 26th idem No 71
will be disposed
of in due course.
In the meantime
copies of the united
Reports will be
sent to him for
his own personal
use

Lee JWF
24/5/79

Gld Capt Clarke Commissioner of Railways.
7 Engineer in Chief
21 - the Conservator of Forests
14 the Board of Revenue

Engineer in Chief
on 23rd June
on 23rd June

c 26-5-79
27-5-79.