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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.
Can 10/8/60

G.O. No.	<i>501</i>	Press
		Mis.
<i>109/110</i>		
Dated	<i>8-3</i>	18 <i>60</i>

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
for the month of March 1860.*

No. 109. Read the following letter from Colonel J. H. BELL, Chief Engineer, to the Secretary to Government, dated 18th February 1860, No. 10473.

I have the honor to acknowledge the receipt of Extract Minutes of Consultation marginally

- No. 748, dated 3rd June 1858.
2 Original letters from District Engineer, Coimbatore, Nos. 54 and 208, dated 16th July and 7th December 1859.
1 Do. from Conservator of Forests, No. 869, dated 9th December 1859.
1 Do. from Special Executive Engineer, Jackatalla, No. 297, dated 25th January 1860, with enclosure.
1 Do. from Collector, Coimbatore, No. 15, dated 19th January 1860.

noted, regarding Dr. Cleghorn's suggestions for planting trees in rows or clumps to protect the roads on the Neilgherry Hills, and calling my predecessor's attention to that gentleman's remarks on the sanitary advantages of a plantation in the vicinity of the Jackatalla barracks.

2. On referring the matter to the District Engineer of Coimbatore for his opinion, he recommended* in the first instance that the planting of avenues should be confided to the Conservator of Forests; that nurseries should be formed in each taluq for the purpose of supplying young trees for avenues, rivers, channels and tank banks; and that an arrangement should be made with the village authorities that might induce them to take care of the trees under the orders of the Forest Department; and he suggested that in different parts of the district tracts of waste land should be planted, partly for the purpose of raising a supply of useful timber and partly for firewood, instancing the great want of the latter, viz. that firewood for consumption in Coimbatore is at present brought from a distance of 19 miles from that town; and that where jungle exists, the land should not be sold or let for cultivation.

3. On the District Engineer's letter being forwarded to the Conservator of Forests for his opinion, he remarked,† that he had not an establishment at his disposal sufficient for the formation of nurseries or the planting and conservancy of avenue trees, and that to carry out the District Engineer's plan would require an establishment for that special purpose, without which he could not undertake the supervision; in lieu of which he recommended that the avenues should be placed under the Collector who had subordinates in every village to attend to them, but that in particular localities, viz. river channels, tank banks and trunk roads, they might be superintended by the members of the Department Public Works.

4. In another letter‡ from the District Engineer, after he had had some conversation with the Conservator of Forests on the subject, he proposes the employment of the members of the Department Public Works in the matter, and to make up for the want of skill in planting, pruning, &c. suggests that some intelligent coolies, sent from the parts of the country in which they were to be eventually employed, four to each range, on an average pay of 7 Rupees per mensem for each cooly, should be brought up at the public plantations and gardens, and eventually employed when sufficiently trained under the orders of the Executive Officer of the range.

5. As regards the sanitary advantage of forming a plantation in the vicinity of the barracks at Jackatalla, the Special Executive Engineer suggests§ that one of the swamps no longer used as a brick-field and now known as No. 3 field, close to the public cattle lines, from whence manure is obtainable in any quantity, and water abundant, is admirably adapted for the purpose, and might be placed under the supervision of the Officer in charge of the Jackatalla works.

6. For the avenue on the road leading from Jackatalla to Ootacamund, shadeless and dusty roads of the cantonment, the Special Executive Engineer suggests that Australian trees (obtainable from a Government plantation 5 miles from Jackatalla), would from their rapid growth and hardihood be the best to plant, but that the handsome and more useful jungle trees (for the special culture of which the plantation should be allotted) should be transplanted, when old and strong enough, between the Australian trees, where they would thrive well in the shade; the Australian trees to be removed, and sold for the benefit of the plantation, as the jungle trees spring up sufficiently.

*Forced, and all concerned
in these points*

*Proceedings of the Madras Government, Public Works Department,
for the month of March 1860.*

7. I would beg, therefore, to recommend that plantations for the Neilgherry roads (not including the Jackatalla roads), and the Coimbatore District generally, should be formed on the District Engineer's plan, viz. by first sending two intelligent coolies from each range, on a monthly pay of 7 Rupees, for instruction in the art of planting, pruning, training, &c., to some Government nursery, where, after a short time, nurseries might then be formed in each range under the immediate orders of the Executive Officer of the range.

8. I would also recommend Captain Farewell's proposition for the favorable consideration of Government, viz. the formation of a plantation in No. 3 brick-field, not only as a nursery for supplying avenue trees for the Jackatalla cantonment roads, but in a sanitary point of view as suggested by the Conservator of Forests.

9. On the question of increasing the supply of firewood, on the anticipated scarcity of which on the Hills so much has been written, I have not been called upon to give an opinion, but I would strongly advocate the advisability of all the old and disused brick-fields, now most unsightly objects and in the neighbourhood of the Jackatalla cantonment, being planted as Captain Farewell has proposed for No. 3, into handsome and perhaps profitable plantations.

10. Captain Farewell estimates the cost of forming the plantation in No. 3 brick-field as follows:—

Digging a ditch and raising a bank one mile in circumference, at 3 annas per running yard...	Rs. 330
Planting 5,000 young jungle trees, at 1½ annas each, including pitting and manuring ...	468
1,000 Australian trees at 1 anna each ...	65
	<u>863</u>

11. I have the honor, therefore, to solicit the sanction of Government for the District Engineer of Coimbatore being permitted to entertain and detach two intelligent coolies from each range on the monthly salary of Rupees 7 each, amounting in the aggregate to Rupees monthly 8½ for six ranges, to be defrayed from the District Repair Fund; and Captain Farewell expending the sum of Rupees 863 in the formation of a plantation in No. 3 brick-field, and purchasing 1,000 young Australian trees from the Government forest plantation for the cantonment roads, the small expenditure to be defrayed from the allotment for the construction of the banks, &c. for the year, and Rupees 30 per mensem for superintendence to be defrayed from the Rupees 27,232 allotted in the barrack estimate under that head.

12. With reference to paragraph 5 of this letter, recommending that all the disused brick-fields at Jackatalla should be converted into plantations, I would suggest that the expenditure be defrayed from the funds allotted to the Conservator of Forests for Government plantations; the sum will be comparatively small, as Captain Farewell, the Special Executive Engineer in charge of the barracks at that station, has offered to undertake the supervision of the same.

No. 110. ORDER THEREON, 9th March 1860, No. 501.

In the Proceedings of Government marginally noted the Chief Engineer was directed to take into consideration the suggestions made by Dr. Cleghorn for planting trees in rows or clumps to protect the roads on the Hills, and his particular attention was also drawn to the remarks of the same Officer on the sanitary advantages of a plantation in the vicinity of Jackatalla barracks—a work, which the Government were of opinion could be undertaken from the estimates at very trifling cost.

2. In his letter above recorded, Colonel Bell has detailed the results of a correspondence carried on between himself, the District Engineer of Coimbatore, the Conservator of Forests, and the Collector of Coimbatore, on these points.

*Proceedings of the Madras Government, Public Works Department,
for the month of March 1860.*

3. The opinion which he has come to, after full consideration, is, as regards the first question, that plantations for the Neilgherry roads (the Jackatalla roads being excluded), and for the Coimbatore District generally, should be formed by “first: sending

Paragraph 7.

Paragraph 11.

“two intelligent coolies from each range, on a monthly pay of 7 Rupees, for instruction in the art of planting, pruning, training, &c., to some Government nursery:” after which nurseries might be formed in each range, under the immediate orders of the Executive Officer of the range. The expense would amount to Rupees 8½ monthly for six ranges, and should be defrayed from the District Repair Funds.

4. The Government are pleased to sanction this outlay as an experiment. The District Engineer will choose the men, and, in communication with the Conservator of Forests, place them for instruction in some of the plantations already existing in the District. In the mean while the District Engineer will, in communication with the Collector, choose several spots in each range, which he may consider best fitted for the purpose of forming nurseries; submit estimates for any embankments or other necessary works which may at first be required; and arrange that every thing may be ready as soon as the coolies have acquired sufficient knowledge. Dr. Cleghorn will report what length of time it will require for them to get acquainted with the routine work.

5. Colonel Bell's opinion, with regard to the proposed plantation near the Jackatalla barracks and the adjacent roads, is given at length in paragraphs 5, 6, 8 and 10 of his letter under consideration. The Government cordily approve of Captain Farewell's proposition, and sanction its immediate execution at the rates mentioned in paragraph 10 and from the funds referred to in paragraph 11 of Colonel Bell's letter.

6. The attention of the Conservator of Forests will be drawn to paragraphs 9 and 12 of the same letter, and he will report whether as suggested by the Chief Engineer the expenditure for converting all the disused brick-fields near Jackatalla into plantations can be defrayed from the funds allotted for Government plantations; he should bear in mind that Captain Farewell has offered to undertake the supervision of them, which will make the cost much lighter than it otherwise would be.

7. The Government attach much importance to the plantations on the Hills, and they are prepared to afford every assistance to their formation and preservation. The various Officers concerned will bear these remarks in mind and use their best endeavours towards the attainment of this most desirable object. A report will be expected at the conclusion of one year from commencement of operations from both the District Engineer and Captain Farewell on the plantations severally entrusted to their care.

(Signed) J. D. BOURDILLON,
Secretary to Government.

Conservation of Forests, that nurseries should be formed in each Taluk for the purpose of supplying young trees for Avenues, Rivers, Channels and Tank banks and that an arrangement should be made with the Village Authorities, that might induce them to take care of the trees under the orders of the Forest Department. and he suggested that in different parts of the District tracts of waste land should be planted partly for the purpose of raising a supply of useful Timber and partly for Firewood mentioning the great want of the latter viz that Firewood for Consumption in Coimbatore is at present brought from a distance of 19 miles from that Town. and that where jungle exists the land should not be sold, or let for Cultivation.

3. On the District Engineer's letter being forwarded to the Conservator of Forests for his opinion, he remarked, that he had not an Establishment at

No 86973.
Dec/89.

head leading from Sachatalla to Chikamangal and directly Road of the Cantonment, the Special Executive Engineer suggests that Australian Trees / obtainable from a Government Plantation 5 miles from Sachatalla would from their rapid growth and hardiness be the best to plant, but that the handsome and more useful jungle tree / for the special culture of which the Plantation should be allotted, / should be transplanted when old and strong enough between the Australian trees where they would thrive, well in the shade, - the Australian trees to be removed, and sold for the benefit of the Plantation, as the jungle trees spring up sufficiently.

I would be, therefore to recommend that Plantations for the Nalgerry Road / not including the Sachatalla Road, / and the Coimbatore District generally, should be formed on the District Engineer's plan, viz by first sending District

Coimbatore Forest, and at various points in these points

intelligent Coolies from each Range, on a
monthly pay of 7 Rupees for
instruction in the art of planting,
pruning, training &c. to some Government
Nursery, where after a short time Nurseries
might then be formed in each Range -
under the immediate orders of the Executive
Officer of the Range.

8. I would also recommend Captain
Sawwells' proposition for the favorable
consideration of Government viz the
formation of a plantation in Mrs. Buck
field, not only as a nursery for supply-
ing Avenue Trees for the Sackatalla
Cantonment Road but in a sanitary
point of view as suggested by the
Conservator of Forests.

9. The question of increasing the
supply of Firewood, on the anticipated
scarcity of which on the Hills so
much has been written, I have not
been called upon to give an opinion
but I would strongly advocate the
advisability of all the old and dis-
used

492
at his disposal sufficient for the forma-
tion of Nurseries or the planting and
conservancy of Avenue Trees and that
to carry out the District Engineer's plan
would require an establishment for that
special purpose, without which he
could not undertake the supervision
in lieu of which he recommended that
the Avenue should be placed under
the Collector who had Subordinates
in every village to attend to them
but that in particular localities
viz. River Channels, Tank Banks and
Gravel Roads they might be super-
intended by the Members of the D.P.W.

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1909
In another Letter from
the District Engineer, after he had had
some conversation with the Conservator
of Forests on the subject, he proposes
the employment of the Members of
the D.P.W. in the matter and to
make up for the want of skill
in planting, pruning &c. suggests
that some intelligent Coolies, sent
from

circumstances, and as a matter of
fact on these points.

from the parts of the Country in which they were to be eventually employed, to the range on an average pay of 7 Rupees per manum for each body - Should be brought up at the public plantations and gardens, and eventually employed when sufficiently trained under the orders of the Executive Officer of the Range.

It also regards the sanitary advantage of forming a plantation in the vicinity of the Barracks at Dackatalla, the Special Executive Engineer suggests that one of the swamps no longer used as a brick field and now known as No 3 Field, close to the Public Cattle Line, from whence manure is obtainable in any quantity, and water abundant, is admirably adapted for the purpose, and might be placed under the supervision of the Officer in charge of the Dackatalla works.

For the Avenue on the road

M 277925
Jan 1860

I would suggest that the expenditure be defrayed from the funds allotted to the Conservation of Forests for Government Plantations the sum will be comparatively small, as Captain Sawell the Special Executive Engineer in charge of the Barracks at that Station, has offered to undertake the supervision of the same.

Sept 1860
18 Feb 1860

J. P. [Signature]
By Ch. Sec. Sec

I have the honor to be,
Sir,
Yours most obedt. Servt
H. L. [Signature] Colonel
Chief Engineer

To
The Secretary to
Government P.W.D.

W. [Signature]

diversed Brickfields, now most unrightly
objects and in the neighbourhood of the
Sackatalla Cantonment being planted as
Captain Farewell has proposed for 11.3.
into handsome and perhaps profitable
plantations.

10. Captain Farewell estimates the
cost of forming the plantation in 11.3.
Brickfield as follows:

Digging a ditch and raising a	
bank one mile in Circumference	
at 3 Annas per running yard	330
Planting 5,000 young jungle trees	
at 1 1/2 Annas each including	
putting and manuring	468
1,000 Australian trees at 100	
na each	65
	863

11. I have the honor therefore to
solicit the sanction of Government for
the District Engineer of Combario
being

green, and no coar-

Com. 8th June 1857
No 19-120

20 March 1858 80 Annas
Capt. Farewell
On 17th April 1858
A. Pitt durg. H. J. 1858

Back 18th July
No 20-120

Com. 8th June 1857
No 19-120

20 March 1858 80 Annas
Capt. Farewell
On 17th April 1858
A. Pitt durg. H. J. 1858

Com. 8th June 1857
No 19-120

20 March 1858 80 Annas
Capt. Farewell
On 17th April 1858
A. Pitt durg. H. J. 1858

being permitted to entertain and
detach 2 intelligent coolies from
each Range in the monthly salary
of Rs 100 each amounting in the
aggregate to Rs 200 monthly 108 for
6 Ranges to be defrayed from the
Agricultural Funds and Captain
Faircliff expending the sum of Rs 500
in the formation of a plantation in
N. 3 Buckfield and purchasing
1000 Gum Australia Trees from
the Government Forest plantation for
the Cantonment Road, the small
expenditure to be defrayed from the
allotment for the construction of the
Barracks for the year and Rs 30
per annum for superintendence
to be defrayed from the Rs 2,232
allotted in the Barrack Estimate
under that head.

12. With reference to Para 5
of the letter recommending that all
the division Buckfields at Sackatalla
should be converted into Plantations.

W. 501. 1501. 100
Proceedings of the Madras Government.
Under date the 8th March 1860.

Read the following letter from
the Chief Engineer.

Submitting proposals
in connection with the
planting of avenues and
plantations on the rail-
ways.

Received 18 February
1860 - No. 10473.

3 June 1860: No
748. para. 16.

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In the Proceedings of Government
marginally noted the Chief Engineer
was directed to take into consid-
eration the suggestions made by
Mr Cleghorn for planting trees in
rows or clumps to protect the
roads on the Hills, and his partic-
ular attention to the remarks of
the same officer on the sanitary
advantages of a plantation in the
vicinity of Jackatalla barracks,
a work, which the Government were
of opinion, could be undertaken
from the estimate at very trifling
cost.

2. In his letter above recorded Col
Bell has detailed the results of a
correspondence carried on between
himself, the District Engineer of
Karnataka, the Conservator of
Forest, and the Collector of
Mysore on these points.

Contributor

Contributor

3. The opinion which he has come to after full consideration, is, as regards the first question, that Plantations for the Nilgiri Roads (the Jackatalla roads, ^{com-} ~~is~~ ^{included}) and for the ^{Com-} ~~the~~ ^{the} District generally, should

Para 7.

be formed by first sending two "intelligent ^{persons} ~~men~~ from each range, on a monthly pay of 7 Rupees, for instruction in the art of planting, pruning, training &c. "to some Government Nursery" after which Nurseries might be formed in each range, under the immediate orders of the Executive Officer of the range. The expense would amount to Rs. 108 ^{per month} for six Ranges and should be defrayed from the District Repair Funds.

Para 11

4. The Government are pleased to sanction this outlay as an experiment. The District Engineer will choose the men, in communication with the Conservator of Forests, place them for instruction in some of the Plantations already existing in the District. In the mean while the District Engineer will in communication with the Conservator of Forests, place them for instruction in some of the Plantations already existing in the District. In the mean while the District Engineer will in communication with the Conservator of Forests, place them for instruction in some of the Plantations already existing in the District.

in each range, which he may consider best fitted for the purpose of forming nurseries; submit estimates for any embankments or other necessary works which may at first ~~be~~ be required; and arrange that every thing may be ready as soon as the ^{workers} ~~laborers~~ have acquired sufficient knowledge. Mr. Cleghorn will report what length of time it will require for them to get acquainted with the routine work.

5. Col. Bell's opinion, with regard to the proposed plantation ~~at~~ near the Jackatalla barracks and the adjacent roads, is given at length in paras 5, 6, 7, 8, 9, 10, of his letter under consideration. The Government cordially approve of Capt. Farewell's proposition, & sanction its immediate execution at the rates mentioned in para 10 of ~~Col. Bell's letter~~ and from the funds referred to in para 11 of Col. Bell's letter.

6. The attention of the Conservator of Forests will be drawn to paras 9 & 12 of the same letter, and he will report whether ^{as suggested} the Chief Engineer

~~suggestion that~~ the expenditure
for making converting all the
disused brick fields near Jack-
talla into Plantations can
be defrayed from the funds
allotted for Government Plan-
tations: he should bear in mind
that Capt. Farewell has offered
to undertake the supervision
of them, which will make the cost
much lighter than it otherwise
would be.

7. The Government attach
much importance to the plan-
tations on the Hills, and they
are prepared to afford every
assistance to their ²⁷⁷formation
and preservation. The various
officers concerned will bear
these remarks in mind & use
their best endeavours towards
the attainment of this most
desirable object. A report will
be expected at the conclusion
of one year from commence-
ment of operations from both
the District Engineer & Capt.
Farewell on the plantations
separately submitted to their
Care.

10 Cms to the Ch. Secy.
with 6 Lach. Dis. 13
4- Com: of Forests
1 in Acct. Genl.
3 in Civil Acct.
27 Feb. 1860

W. S. W. 24/2/60

Public Works 1860-Sept 10.
Pro: of Govt. 10th March.

No 501.

Pro: of the Madras Govt.
Dy 8th March 1861.

From Dy Chief Engineer W. C. Dy 8th
October 1862 No 2335 in No.

Sanctioning Rupees 84
Monthly for the formation of
plantations for the Peily, - - -
roads and for the Coimbatore
District generally, and approving
for immediate execution Capt.
Stewart's proposition with
regard to a plantation in 1863
brickfield near the Suckatalla
barriers.

No 109 + 110.

31.5