No. 3246 W., 19TH DECEMBER 1895.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From W. B. DEWINTON, Esq., Executive Engineer, Coimbatore Division, to the Superintending Engineer, IV Circle, dated 23rd October 1895, No. 4276.

As directed in your No. 503/C.I., dated 27th August 1895, I have the honour to forward herewith plans, sections and estimates for filling in the Ootacamund lake above the Willow bund.

2. I greatly regret that there has been so much delay in the matter, but much time was wasted in looking for the old surveys and estimates referred to by you, which, when found, proved useless, and a fresh survey and sections had to be made.

3. I also regret that the estimate should be so much higher than was anticipated. The reasons for the large excess are as follows :—

(1) My anxiety that the estimate should be ample for the work required and should not need revision. To gain this end I have allowed ample provision for the great settlement which is inevitable when earth is thrown into water of such depth on a boggy bottom. I have provided for finding a considerable quantity of rock in the cutting on south side of lake, as it is impossible to say beforehand how much exists, and I have provided for filling in to 3 feet above present water level, *i.e.*, to level of race course on north side, to prevent the ground reclaimed from being a continual swamp. None of these provisions are apparent in former estimates.

(2) Provision for draining the land reclaimed, not included in previous estimates.

(3) Provision for land compensation.

(4) Provision for extension of lake supply channel and culvert.

(5) Provision for removing turf and surface soil and relaying.

On the other hand my rate is somewhat less on south side of lake than that provided in previous estimates.

4. I belive that the estimate now submitted will be found to be ample and will, very possibly, show a considerable saving in execution—while I am sure that, even if the whole amount is required, it will be money well spent and do incalculable benefit to the health of Ootacamund.

5. I beg for early orders on the subject, especially with regard to the construction of the culvert under the Willow bund and excavation of channel thereto, which is the first step necessary.

No. 413 W.

Copy forwarded with enclosures to the Chief Engineer, Public Works Department, with reference to G.O. No. 2066 W., dated 19th August 1895.

2. The undersigned is of opinion—

(1) That the initial rate for earthwork of Rs. 10 per 1,000 is excessive and that the work should, and can be done, for an initial rate of Rs. 8;

(2) that laying 3" drain pipes is not necessary ;

(3) that removing and relaying turf and top soil is not desirable. The result would not be commensurate with the cost.

If the above suggestions are approved, there will be a saving on the estimate of Rs. 27,592.

26th October 1895. (Signed) J. HANNAN,
Superintending Engineer, IV Circle.

Note by the Chief Engineer, Public Works Department.

The estimate for filling in the upper portion of the Ootacamund lake, as submitted by the Superintending Engineer, IV Circle, amounts to Rs. 1,27,900, an amount so greatly in excess of what was expected, that it becomes necessary to consider very carefully whether so large an estimate is really necessary.

2. It may be said at once that the estimate prepared some time ago by the Sanitary Engineer's Department was quite insufficient; it provided for raising the reclaimed ground to a level some 2 feet lower than that now provided by Mr. deWinton, which latter is certainly not unnecessarily high, and it provided for leaving one or more small ponds in the deepest portions of the reclaimed area, which would have greatly interfered with the value of the latter as a recreation ground.

3. The first point on which reduction appears possible is the rate for earthwork; Mr. deWinton allows an initial rate of Rs. 8 per 1,000 cubic feet, with an addition of As. 8 for every 20 yards of lead; the Superintending Engineer considers that an initial rate of Rs. 8 should suffice, and Mr. deWinton himself says that the estimate will "very possibly show a considerable saving in execution."

4. The allowance of As. 8 per 1,000 cubic feet for every 20 yards of lead also appears to be excessive; with proper organisation and with appliances for transport, such as any contractor to whom a work of this class may be entrusted will certainly adopt, the cost ought not to be more than half this amount.

5. It is not good policy to underestimate the probable cost of a work, but it is, if possible, worse policy to overestimate it, for in the latter case those responsible for its execution have no motive for economy, and contractors' tenders, as well as the cost of work departmentally executed, have a remarkable tendency to rise up to estimated rates.

6. I consider therefore that the cost of the 5,085,800 cubic feet of earth available from the side cutting should not exceed Rs. 11 per 1,000 cubic feet at the outside, and that the estimated rate may safely be reduced to this amount.

7. It will be noted that Mr. deWinton adds one-sixth to the quantity of earth required for filling, on account of "Settlement." Settlement in the ordinary sense of the word there will certainly be none, as the earth will, after settlement, certainly not occupy a smaller space than it does in its natural position on the flank of the hill from which it is to be taken; but it is very possible that a certain amount over and above what the sections show will be absorbed by the soft and muddy bottom of the lake; I doubt whether this amount will be anything like the one-sixth allowed by Mr. deWinton, but I would not reduce the estimated quantity on this account, but would allow the excess to go towards balancing the reduction proposed below.

8. Again a reduction of one-sixth is allowed in the amount available from the cutting on the side of the lake, on account of rock; this seems an overliberal allowance, as all small boulders and decomposed rock can be used, but may stand, any surplus being used as proposed at the end of the previous paragraph.

9. A very serious item in the estimate is the heavy cost of the earth (1,778,300 cubic feet) to be obtained from the Jail Hill owing to the fact that the side cutting will not give the full quantity required. If the views expressed in the two last paragraphs are correct, the quantity to be thus obtained will not be quite so great as that estimated, and a still further reduction may be made by taking the side cutting down to a lower level than that shown on the sections; there is no reason why this should be 5 feet above the ground level of the reclamation, and it may be taken at least 3 feet lower than the sections show. This will give in round numbers an additional supply of quite 600,000 cubic feet, and with a moderate allowance for the extra earth obtainable, if the loss by settlement and allowance for rock is less than Mr. deWinton's estimate, the quantity to be obtained from the Jail Hill would probably not greatly exceed one million of cubic feet.

10. The cost of the earth obtained from this source is so great, and the objections to cutting into the side of the hill are, in my opinion, so strong, that it is desirable to consider whether it is worth while using this million of cubic feet at all.

11. It will be seen from the estimate that the filling for the first 200 feet from the Willow bund, *i.e.*, up to about cross section No. 5 on the plan practically absorbs this quantity, which would be used if the filling stopped at cross section No. 5 instead of extending right up to the Willow bund, and I am strongly of opinion that this plan should be adopted; there is no particular virtue in the Willow bund which should render it compulsory for the reclamation to extend thereto, and the nearer we approach to it, owing to the increasing depth of water, the more costly the reclamation becomes.

12. The reduction of 200 feet in the length of the recreation ground will be insignificant as compared with its total length, while the saving in cost will be substantial.

13. A further saving of Rs. 8,088 may be made by the omission of the provision for drainage pipes, which I agree with the Superintending Engineer in considering entirely unnecessary; to say nothing of the fact that I think Mr. deWinton has considerably underestimated their cost.

14. A somewhat doubtful point in the estimate is the provision of Rs. 5,775 for removing and relaying the turf on the race course, but on the whole, I think it should be allowed.

15. If the suggestions made above be approved, the estimate will be altered as follows:—

	RS.
Deduct—	
Reduction of rate at Rs. 2-8-0 per 1,000 cubic feet on 5,085,800 ...	12,714
Omission of earth from Jail Hill	32,009
Drain pipes	8,088
Total ...	52,811
Add—	
600,000 cubic feet extra from southern cutting at Rs. 11 per 1,000...	6,600
Total ...	46,211

6

Reducing the total amount of the estimate to Rs. 81,589, or, say, Rs. 82,000, an amount which, though considerably in excess of what was expected, is not in my opinion excessive, considering the immense value of the ground which will be reclaimed.

Madras, (Signed) J. PENNYCUICK, Colonel, R.E.,
18th November 1895. Chief Engineer, P.W.D.

No. 3914 C.

I return the plan with the centre line of rails marked thereon. The inner rail will be about 14 feet from the wire fence on the Willow bund at its nearest point.

The Willow bund road will not therefore require removal.

The railway could, if desired, be shifted 10 feet or 15 feet further away from the Willow bund road.

(Signed) F. R. UPCOTT,
Consulting Engineer for Railways.

9th December 1895.

ORDER—No. 3246 W., dated 19th December 1895.

It appears from the papers that the cost of filling the upper portion of the Ootacamund lake is considerably greater than was anticipated, and is estimated by the Executive Engineer, Coimbatore Division, at Rs. 1,27,900; this amount can, in the opinion of the Chief Engineer, be reduced to Rs. 1,00,000 by the measures proposed in paragraphs 6 to 9 and paragraph 13 of his note.

2. The estimate reduced to Rs. 1,00,000 by the modifications mentioned in paragraph 1 of this order is accordingly sanctioned,* and the work should be put in hand and carried to completion with the least possible delay.

3. The Superintending Engineer, IV Circle, will report as soon as possible what sum he can expend during the current year, and whether he can carry it out with the staff at present at his disposal; if not an early application for the additional establishment required should be submitted.

(True Extract.)

Under Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle,
with plans and estimate (24).
" Examiner, Public Works Accounts.
" Local and Municipal Department, for communication
to the Municipal Council, Ootacamund.

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* Registered as Provincial No. 87 W. of 1895-96 and classified as Miscellaneous Public Improvements, Original Works.

Exd. Shaik Karim.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1895} Madras

PUBLIC WORKS.

Dated December, 19th.

Recd. *Encl.*

G.O. No. 3246 W., 19th Dec. 1895.

DECEMBER.

Ootacamund Lake

Estimate of Rs. 1,00,000 for filling in the upper portion of the —, sanctioned, and the work ordered to be carried to completion with the least possible delay.

18

No. 4276. Executive Engineer's office,
Coimbatore Division,
23d. October 1895.

From,
W. B. de Winton, Esq.,
Executive Engineer,
Coimbatore Division,

To,
The Superintending Engineer,
Fourth Circle, Coimbatore.

Sir,

As directed in your No. 503/C.J., dated 27th August 1895, I have the honor to forward herewith plans, sections and Estimates as noted in margin for filling in the Ootacamund Lake above the Willow bund.

2. I greatly regret that there has been so much delay in the matter, but much time was wasted in looking for the old Surveys and Estimates referred to by you, which, when found, proved useless, and a fresh Survey and sections had to be made.

3. I also regret that the estimate should be so much higher than was anticipated. The reasons for the large excess are as follows

(1)

(1) My anxiety that the estimate should be ample for the work required and should not need revision. To gain this end I have allowed ample provision for the great settlement which is inevitable when earth is thrown into water of such depth on a boggy bottom. I have provided for finding a considerable quantity of rock in the cutting on South side of lake, as it is impossible to say before hand how much exists, and I have provided for filling in to 3 feet above present water level, i.e. to level of race course on North side, to prevent the ground reclaimed from being a continual swamp. None of these provisions are apparent in former estimates.

(2) Provision for draining the land reclaimed, not included in previous estimates.

(3) Provision for land compensation.

(4) Provision for extension of Lake supply channel and culvert.

(5) Provision for removing turf and surface soil and relaying

On the other hand my rate is

Somewhat

somewhat less on South side of lake than that provided in previous estimates.

4. I believe that the estimate now submitted will be found to be ample and will, very possibly, shew a considerable saving in execution - while I am sure that, even if the whole amount is required, it will be money well spent and do incalculable benefit to the health of Ootacamund.

5. I beg for early orders on the subject especially with regard to the construction of the culvert under the willow bund and excavation of channel thereto which is the first step necessary.

I have &c.,
(Sd) W. B. de Winton,
Executive Engineer.

No. $\frac{413}{W}$ dated 26th October 1895.

~~[illegible]~~
with G.O. No 9064
(under disposal)

Copy - Forwarded with enclosures to the Chief Engineer, P.W.D. with reference to G.O. No. 2066 W, dated 19 August 1895.

2. The undersigned is of opinion (1) that the initial rate for earthwork of Rs 10 per 1000 is excessive and that the work should and can be done for an initial rate of Rs 8.

(2)

(2) That laying 3" drain pipes is not necessary.

(3) That removing and relaying turf and top soil is not desirable. The result would not be commensurate with the cost.

If the above suggestions are approved there will be a saving on the estimate of Rs 27,592√

W Hannan

Supg. Engineer, 4 Circle.

Enclosures 21 ×

1 Survey
15 cross sections
1 Plan of culvert
1 Longl. section of supply chl.
1 Report
2 Estimates.

× Separately sent per Packet post.

From

The Supg. Engineer
4th Circle.

Dated 26th }
Desp. 29th } October 1895.

No. 413
W.

Encloo: 21.

Ootacamund Lake.

Forwards Plan, Estes. &c of Rs 1,27,900 in connection with filling in the — above the Willow bund with certain suggestions.

P. W. CURRENT No. ~~8353~~

Encl 2 9807/95

Recd: 30.10.95

En: 24+

(+17 Sections & 1 Tracings)

urgent

P. W. Dept.

Letter from the Supdg Engineer IV Circle No. 413 W d/ 26th October 1895.

The estimate for filling in the upper portion of the Ootacamund Lake, as submitted by the Supdg Engineer IV Circle amounts to Rs 1,27,900 an amount so greatly in excess of what was expected, that it becomes necessary to consider very carefully whether so large an estimate is really necessary.

2. It may be said at once that the estimate prepared some time ago by the Sanitary Engineer's department was quite insufficient; it provided for raising the reclaimed ground

ground to a level some two feet lower than that now provided by Mr de Winton, which latter is certainly not unnecessarily high, and it provided for ~~laying~~ leaving one or more small ponds in the deepest portions of the reclaimed area, which would have greatly interfered with the value of the latter as a recreation ground.

3. The first point on which reduction appears possible is the rate for earthwork; Mr de Winton allows an initial rate of Rs 10 per thousand cubic feet, with an addition of eight annas for every twenty yards of lead;

a letter from the Supdg Engr
10th October 1879

the Supdg Engineer considers that an initial rate of Rs 8 should suffice, and Mr de Winton himself says that the estimate will "very possibly shew a considerable saving in execution."

4. The allowance of eight annas per thousand cubic feet for every twenty yards of ~~land~~ lead also appears to be excessive; with proper organisation and with appliances for transport such as any contractor to whom a work of this class may be entrusted will certainly adopt, the cost ought not to much be more than half this amount.

5. It is not good policy to underestimate

the probable cost of a work, but it is if possible worse policy to over-estimate it, for in the latter case those responsible for its execution have no motive for economy, and contractors tenders, as well as the cost of work departmentally executed, have a remarkable tendency to rise up to estimated rates.

6. I consider therefore that the cost of the 5,085,800 cubic feet of earth available from the side cutting should not exceed Rs 11:8:0 per thousand cubic feet at the outside, and that the estimated rate may safely be reduced to this amount.

7. It will be noted

that Mr de Winton adds one sixth to the quantity of earth required for filling, on account of "settlement." Settlement in the ordinary sense of the word there will certainly be none, as the earth will after settlement certainly not occupy a smaller space than it does in its natural position on the flank of the hill from which it is to be taken; but it is very possible that a certain amount over and above what the sections shew will be absorbed by the soft and muddy bottom of the lake; I doubt whether this amount will be anything like the one sixth allowed by Mr de Winton, but I would not reduce the estimated quantity on this account but would allow the excess to go towards balancing the reduction proposed below.

8. Again a reduction of one sixth is allowed in the amount available from the cutting on the side of the lake, on account of rock; this seems an over liberal allowance, as all small boulders and decomposed rock can be used, but may stand, any surplus being used as proposed at the end of the previous paragraph.

9. A very serious item in the estimate is the heavy cost of the earth

(1,778,300 cubic feet) to be obtained from the Jail Hill owing to the fact that the side cutting will not give the full quantity required. If the views expressed in the two last paragraphs are correct the quantity to be thus obtained will not be quite so great as that estimated, and a still further reduction may be made by taking the side cutting down to a lower level than that shewn on the sections; there is no reason why this should be five feet above the ground level of the reclamation, and it may be taken at least three feet lower than the sections shew. This will give in round numbers an additional supply of quite 600,000 cubic feet, and with a moderate allowance for the extra earth obtainable if the loss by settlement and allowance for rock is less than Mr. de Winton's estimate, the quantity to be obtained from the Jail Hill would probably not greatly exceed one million of cubic feet.

10. The cost of the earth obtained from this source is so great, and the objections to cutting into the side of the hill are in my opinion so strong, that it is desirable to consider whether it is worth while using this million of cubic feet at all.

11. It will be seen from the estimate, that the filling for the first 200 feet from the Willow Bund i.e. up to about cross section No. 5 on the plan practically absorbs this quantity, which would be used if the filling stopped at cross section No. 5 instead of extending right up to the Willow Bund, and I am strongly of opinion that this plan should be adopted; there is no particular virtue in the Willow Bund which should render it compulsory for the reclamation

to extend thereto, and the nearer we approach to it, owing to the increasing depth of water, the more costly the reclamation becomes.

12. The reduction of two hundred feet in the length of the recreation ground will be insignificant as compared with its total length, while the saving in cost will be substantial.

13. A further saving of Rs 8,088 may be made by the omission of the provision for drainage pipes, ~~while~~ which I agree with the Supdg Engineer in considering entirely unnecessary; to say nothing of the fact that I think Mr de Winton has considerably under-estimated their cost.

14. A somewhat doubtful point in the estimate is the provision of Rs 5,775 for removing and relaying the turf on the race course, but on the whole, I think it should be allowed.

15. If the suggestions made above be approved, the estimate will be altered as follows:—

Deduct

	Rs
Reduction of rate at Rs 2/8 per thousand cubic feet, on— 5,085,800	12,714
Omission of earth from Jail Hill	32,009
Drain pipes	8,088
	52,811
Add.	
600,000 cubic feet extra from southern cutting @ Rs 11 per thousand	6,600
Total Rs	46,211

reducing the total amount of the estimate to Rs 81,~~5~~689 or say Rs 82,000, an amount which, though considerably in excess of what was expected, is not in any opinion excessive — considering the immense value of the ground which will be reclaimed.

E.W.

CH 19/11/95

Madras
Novr 18 1895

No. 3748 C

Government of Madras.

PUBLIC WORKS DEPARTMENT.

Madras, 29th November 1895

OFFICE NOTE.

From W.

To R.

Please see the accompanying notes of Honourable Members and favour me with information as to where the Railway is likely to cross the Lake.

An early reply is requested.

101

No. 3914 C d/9 December 1895

29.11

W.

W.

I return the plan with the centre line of rail marked thereon. The inner rail will be about 14' from the wire fence on the Willow bund at its nearest point.

The Willow bund road will not therefore require removal.

The railway could if desired be shifted 10' or 15' further away from the Willow bund road.

9/12/95 R

(48—1,000—11-8-93.)

P. W. CURRENT No. 9807

Urgent.

Recd 9.12.95

Enclos. 25
(17 Sections & 1
Tracing).

Note

The papers regarding the siting of the tank at Bolarum are re-circulated with a note of the Consulting Engineer for Railways on the subject of the line & the volume of the new tank.

It is clear from this that nothing would be gained by removing the Wilson Bund, as its place would be taken by the railway embankment; this disposes of the scheme (b) of my note of the 26th November, and the question is now between (a) and (c) -

Hon. Members seem to be agreed that the advantages of (a) over (c) are such

P. W. DEPARTMENT.

READ the following:—

No. 413 W d/ 26 Oct. 1895.

P.W.D. d/ Nov. "

DERS.

CH 13/11/95

so as to justify the
extra cost (Rs 2,000)
which it involves; and
the draft G.O.
submitted and noted
~~provide for~~ is based
upon this assumption —

G.O.

It appears from the
papers that the cost
of filling the upper
portion of the Ootacamund
Lake is considerably
greater than was an-
ticipated, and is
estimated by the Consulting
Executive Engineer
~~Superintending Engineer~~ IV Circle
at Rs 127,900; this
amount was in the
opinion of the ~~Sup~~
Chief Engineer be reduced

P. W. DEPARTMENT.

READ the following:—

le No. 413 W d/ 26 Oct 1895.

P.W.D. d/ Nov

DERS.

CH 13/11 95

E.2996

~~The selection of the site for and the works and a slight lowering of the level to which the ground in the~~

Rs 100,000 of the scheme proposed in Govt. P. W. D. and Govt. of his note –

A further reduction of Rs 10,000 might be made by stopping the reclamation at a point about 200 feet East of the Hilton Road, but in the opinion of this Public the Govt. in Council it will be better to carry out the scheme in its integrity, the ~~additional~~ ~~cost of making this~~ reclamation being completed right up to the Hilton Road.

P. W. DEPARTMENT.

READ the following:—

le No. 413 W d/ 26 Oct. 1895.

P. W. D. d/ Nov.

ORDERS.

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W
23 Nov

CHD
19/11/95

The estimate, ~~amounting~~ revised to Rs 10000 by the modification mentioned in para 1 of this letter is accordingly sanctioned, and the work should be put in hand and carried to completion with the least possible delay -

The Executive Engineer II Circle will report as soon as possible what sum he can expend during the current year, and whether he can carry it out with the staff at present at his disposal; if not an early application for the additional establishment required should be submitted -

P. W. DEPARTMENT.

READ the following:—

e No. 413W d/ 26 Octr 1895.

P.W.D. d/ Novr "

DERS.

CB 11

19/11 95

P. W. DEPARTMENT.

READ the following:—

Letter from the S.E. IV Circle No. 413 W d/ 26 Oct. 1895.
Note by the Chief Engr. P.W.D. d/ Novr. "

FOR ORDERS.

The estimate for this very necessary work works out to a much higher figure than was expected. The C.E. now says that by leaving out the 200 feet next to the Willow Bund the rest of the lake and swamp can be filled up for 82-000 Rs. If the whole is filled up, it will cost a lakh. Personally I wd. as soon be hung for a sheep as a lamb - and wd. go the whole - sheep. To stop short would make a very incomplete job - but there is no doubt it will cost money - & the Financial Dept. will have something to say. I shall not be here to see the improvement - but I vote for the whole thing being done. Anyhow whatever is decided upon should be undertaken at once.

C 8.11

CHBW 19/11/95

43—500-6-3-94.

I think we can find the necessary money. The sums already relinquished this year by the P.W.D. will enable us to do so. Because we have the money, however, is no reason for spending more than is necessary. According to the C.E., the omission to bring earth down from Jail Hill to fill up the 200 feet of the upper lake nearest the Willow Bund will save Rs 32009. To this must be added some further saving which will be effected by the reduction in length of the extension of the lake supply channel and by the omission of the proposed new culvert under the Willow bund, which, if the C.E.'s proposal is accepted, will not be required. The result of accepting the C.E.'s proposal, as far as the appearance of the place goes, would be that we should still have an upper lake, but only of a width of 200 feet from the Willow Bund. A Pond like this would not add to the charms of the scenery, I am afraid. I would suggest instead that, besides stopping the reclamation at the 200' point (cross section No 5) we should remove the willow bund & make a new road across ~~at~~ on the reclamation itself. This would save the money and enlarge the Lake, ~~whi~~ which in no way interfering with the sanitary value of the reclamation. However, we had better talk this over in Council with the C.E.

HS
25/11/95

Circ.
~~H.E.~~ 19/11 R 25/11.

FOR ORDERS.

Estimates for filling in the Ootacamund Lake above the Willow Bund

~~His Excellency the Govr~~

~~The Hon. Mr. H.H. Bliss~~ C.I.E

~~The Hon. Mr. Grose~~

JG
25/11/95

The (b) scheme is perhaps on the whole the best - and I would approve it - taking the financial view of the question - though I would rather myself see the whole of the present upper lake up to the Willow Bund filled in. The road along the present Willow Bund gives a good and direct access to ~~where~~ the new railway station will stand - but it is not perhaps so important as to entail on us an expenditure of 16000 Rupees.

W
27 Nov

It would be as well to ask the C. E. for Railways if he has any remarks to offer as to the removal of the Willow Bund as proposed in connection with the new railway.

W

I had quite forgotten about the Railway. If that is to cross to the site selected for the Railway station (in the Mettucherry valley, I believe) somewhere about the site of the Willow bund, the result of carrying out scheme (b) will be that we shall have the enlarged lake thus secured cut into two by the embankment or whatever it may be, carrying the railway, in which case our last state would be worse than our first. I think

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Note.

There being no Council today the papers regarding the filling in of the Lake at Ootacamund are resubmitted with the object of avoiding delay.

2. With regard to the Hon: Mr Bliss' remarks it is observed that the saving by stopping 200 feet short of the Willow Bund is not so much as Rs 32,009; this is the whole amount provided in Mr de Winton's estimate for the earth proposed to be taken from the Jail Hill, but nearly half of this earth is saved by the modification

suggested in para 9 of my former note, and the actual quantity of earth required from this source, if the lake be filled up to the Willow Bund will be about a million cubic feet, and its cost Rs 18,000; it is this latter sum with Rs 2000 for the culvert under the Bund, which will be saved if the two hundred feet nearest the latter be left unfilled.

3. In other words, the cost of the work will be about Rs 1,00,000 if the filling be continued up to the Bund, and Rs 80,000 if it stops

We should see where the railway is to go before we decide exactly what to do, or we may make a mess of it — If the railway is to cross the lake alongside (or nearly alongside) the Willow Bund, I should vote for leaving the Willow Bund, because the trees thereon would go very far to mitigate the injury to the appearance of the place which the railway works can hardly fail to cause; and should propose to spend the addl. Rs 16000 & to fill up right up to the Willow Bund — In fact, if I had understood before that the difference of cost would be only Rs 16000, I should simply have initialed H.E.'s note of the 23rd; but I thought the difference would be about double this sum.

28/11/95

On the whole I think it will be best to incur the additional cost & retain the Willow Bund.

JG
28/11/95

short of it.

4. The Hon: Member's suggestion that the Willow Bund be removed altogether if the lake be not filled in up to it is I think a very good one; it would add about Rs 4000 to the Rs 80,000 mentioned above, as the culvert would be necessary to carry the new road, and the cost of the latter and of cutting down the Willow Bund would come to about Rs 1500.

5. There are then three schemes to be considered

(a) The complete scheme costing about Rs 1,00,000.

(b) To fill up to within

about 200 feet of the Willow Bund removing the latter and forming a new road across the reclamation, cost about Rs. 84,000.

(c) To leave the Bund as it is and fill up to within about 200 feet of it. cost about Rs. 80,000.

As between (b) & (c) I have no doubt that (b) is the best; as between (a) & (b) it is a question whether the additional land obtained is worth the extra Rs. 16,000. I have doubts, but the question is rather beyond my province.

S W
26.11

E. DPW
UNRY 26/11/95
Ree 26/11 R 28/11

~~H.E. the Governor.~~

~~The Hon. Mr. H.W. Bliss C.I.E.~~

~~The Hon. Mr. J. Grose.~~

Estimate for filling in the Ootacamund Lake above Willow Bund.

P.W.E. 1/9807/95

No. 3246 W., 19 Decr 1895

Note.

The papers regarding the filling of the lake at Ootacamund are recirculated with a note by the Consulting Engineer for Railways on the subject of the line to be taken by the new railway.

It is clear from this that nothing would be gained by removing the Willow Bund, as its place would be taken by the railway embankment; this disposes of scheme (b) of my note of the 26th November, and the question is now as between (a) and (c).

Hon. Members seem to be agreed that the advantages of (a) over (c) are such as to justify the extra cost of Rs 16,000 which it involves, and

I have passed the draft but I am not quite sure whether we ought not in some way, if only for appearance' sake, to consult the Munl. Coun. – The G.O. might be sent to them in continuation of the (considerable?) previous correspondence on the subject of filling up the upper lake & they might be invited to report at a very early date whether they have any objection to Govt. undertaking the completion of the work which they (the Coun.) have begun

HB
12/12/95

As the railway will go so close to the willow bund, the space between the two should be filled in & planted with trees or something – otherwise it will be a stagnant pool & be a nuisance. This shd. be pointed out to the Railway Dept.

W. HB JG

~~I don't think it is necessary to consult the Munl. Comm.~~

JG

No – it only means more delay – but they may be informed of the intentions of Govt.

W.
15 Dec

and the draft G.O. herewith circulated is based upon this supposition.

W

Estimate for filling in the Ootacamund Lake above Willow Bund

1. ~~The Hon. Mr Bliss C.I.E~~
2. ~~The Hon. Mr Grose~~
3. ~~His Excellency the Govr.~~

3246 W

cire 11/12 R 17/12.

[illegible]
Civil Works

PUBLIC WORKS DEPARTMENT.

No 3246 W d/ 19 Decr 1895

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

From the S.E. IV Circle (A.E. No. 413 W d/ 26. Octr. 1895)
" Chief Engineer, P.W.D. d/ 18th November 1895
" Consg. Engr. for Irrl (" 3914 C d/ 9. Decr 1895)

11 P

It appears from the papers that the cost of filling the upper portion of the Ootacamund Lake is considerably greater than was anticipated, and is estimated by the Executive Engineer Coimbatore Division at Rs 1,27,900; this amount can in the opinion of the Chief Engineer be reduced to Rs 1,00,000 by the measures proposed in paras 6 to 9 and para 13 of his note.

2 ~~A further reduction of Rs 18,000 might be made~~

12/12/95

12/12/95

I am very glad that my hon. colleagues have agreed on having the lake filled up to the Willow Bund - as I am sure that that will result in by far the most satisfactory job.

W
15 Dec.

I approve of the draft order - but wd. omit para 2. It will only give rise to contention from those who grudge the spending of Provincial funds at Ooty.

W
16 Dec

(40—1,000—21-4-94.)

made by stopping the reclamation at a point about 200 feet east of the Willow Bund, but in the opinion of His Excellency the Governor in Council it will be better to carry out the scheme in its integrity, the reclamation being completed right up to the Willow Bund.

2. The estimate, reduced to Rs 1,00,000 by the modifications mentioned in para 1 of this order is accordingly sanctioned,* and the work should be put in hand and carried to completion with the least possible delay.

3. The Superintending Engineer IV Circle will report as soon as possible what sum he can expend during the current year, and whether he can carry it out with the staff at present at his disposal; if not an early application for the additional Establishment required should be submitted.

* Registered as Provincial No. 87 W of 1895-96 and classified as Miscellaneous Public Improvements, Original Works.

CWRS
11/12 95

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8 JAN 96

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mw 19/12

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1.11.95 .. 2768W

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T.H.
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Issue at once in MSS to the
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urgently. Para 2 of the
original draft to be
omitted. to be seen before
issuing to Press.
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C.W.B.
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Govt. of (1895) Madras.

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G.O. 9/12/1895. No. 3246

otacamund Lake

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