Public Works (1898) Department.

Print, urgent

G.O., No. 1763 W

DATED 12 July '98

14/7/98.

[Despatch Abstract.]

Ootacamund Lake Reclamation, ~~[illegible]~~ Project

Revised Estimate of Rs 199,140 for filling in the upper portion of the Ootacamund Lake, Sanctioned, with remarks, in supersession of the original estimate of Rs 100,000.

120/6

Indexed. Tue 18/7

[P. W. 26. / 1,000—12-2-98.]

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department	Date.	G.O	No.	Department.	Date.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government (1898) of Madras.

PUBLIC WORKS.

Recd. } 1898. *Enclosures*
Regd. } *Spare copies*

G.O., No. 1763 W., 12th July 1898.

JULY.

Ootacamund Lake Reclamation Project

Revised estimate of Rs. 1,99,140 for filling in the upper portion of the Ootacamund Lake, sanctioned, with remarks, in supersession of the original estimate of Rs. 1,00,000.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From A. H. GARRETT, Esq., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 22nd May 1898, No. 275 W.

I have the honour to forward a revised estimate for "Filling in the Ootacamund Lake."

2. The report accompanying the estimate gives a history of the work and explains the necessity for the estimate now submitted.

3. It will be seen that the estimate originally submitted by Mr. deWinton was fairly accurate. Mr. Malet prepared a revised estimate in May 1897, which Mr. Somers-Eve submitted with slight alterations after taking over charge from Mr. Malet. The sections which accompanied this estimate were not signed and Mr. Somers-Eve is unable to say who prepared them. He, however, accepted them as correct, though it is now quite certain that they were very inaccurate, as the quantity of work to be done calculated from them differs very much from the amount given in Mr. deWinton's estimate and that which has actually been executed.

4. The present estimate exceeds that sanctioned by Rs. 98,500 and the report and comparative statement afford the necessary explanation.

5. The rate for earth-work works out to Rs. 17·03 per unit—*vide* items 12, 13 and 26 and in this connection attention is drawn to G.O., No. 1732 W., dated 30th June 1897.

6. There has been a large excess on the item Hutting which in his letter, dated 28th May 1897, Mr. Somers-Eve said would not cost more than Rs. 1,000. The expenditure, however, seems to have been necessary and unavoidable.

7. I am decidedly in favour of the lump sum provision of Rs. 5,000 referred to in paragraph 20 of the report as I think slips are certain to occur during the monsoon.

8. In conclusion I would observe that although the work of the Pioneers has been somewhat expensive, it has been eminently satisfactory in all other respects.

From the Superintending Engineer, IV Circle, dated 26th May 1898, No. 277 W.
" " " " 2nd June " 288 W.

NOTE BY THE CHIEF ENGINEER.

Revised estimate of Rs. 1,99,140 for filling in the upper portion of the Ootacamund Lake.

With his letter No. 275, dated 22nd May 1898, the Superintending Engineer, IV Circle, submits a revised estimate of Rs. 1,99,140, together with a comparative statement, for filling in the upper portion of the Ootacamund Lake.

2. The original estimate submitted by the Executive Engineer, Coimbatore division, for this work amounted to Rs. 1,27,900. This provided for 76·3 lakhs of cubic feet of earth-work to be taken partly from the south side of the lake at a rate of Rs. 13-8-0 per 1,000 cubic feet and partly from the north side (Jail Hill) at a rate of Rs. 18 per 1,000 cubic feet. This estimate was reduced in the Chief Engineer's office to Rs. 1,00,000 for reasons given in G.O., No. 3246 W. of 19th December 1895, chiefly by lowering the rate for earthwork to Rs. 11 and by omitting the provision for cross drainage and was sanctioned for this amount in the above-mentioned Government Order.

3. The excess of Rs. 99,140 now submitted for sanction is principally made up as follows :—

Item No.	Description.	Amount of excess.	Remarks.
		RS.	
1	Earthwork ...	39,350	Due principally to raising the rate from Rs. 11 to Rs. 15, the quantity actually executed being only 4 per cent. in excess of that originally provided. For reasons for this excess *vide* report, paragraph 3.
2	Dry stone revetment.	12,089	Not provided in original estimate. This has to be laid all along the toe of the steep scarp on south side of reclamation to prevent slips which have occurred owing to the large amount of water percolating from the bank. This could not have been foreseen before the excavation was made. The item also includes the rough-stone drain at foot of scarp—*vide* paragraph 10 of report.
3	Hutting and conservancy.	5,500	This expenditure is entirely due to the presence of the Pioneers in Ootacamund, and has greatly exceeded the original amount of Rs. 1,000 mentioned in the Executive Engineer's letter printed with G.O., No. 1587 W. of 11th June 1897. The reasons for this excess are given in paragraph 14 of report attached. Sanction to the employment of the Pioneers was given in G.O., No. 1697 W., dated 25th June 1897.
4	Tramway	15,000	The rates provided in the original estimate submitted, viz., Rs. 13-8-0 and Rs. 18 were intended to cover all plant for transporting earth. In addition however to the revised rate of Rs. 15, it has been found necessary to spend Rs. 15,000 on trucks and rails, bringing the actual rate for earthwork up to Rs. 17·03 per 1,000 cubic feet. Details of the excess are given in paragraph 15 of the report.
5	Roads	5,010	The original estimate provided only Rs. 500 for metalling and gravelling the short diversion of the road which was then intended. The additional cost is due partly to the fact that principally owing to the purchase of land from Woodcot estate the road diversion has been much more extensive than originally proposed, and partly to the fact that after the diversion was almost complete it was found necessary for the safety of the banks and for general convenience to re-align it in a lower level—*vide* G.O., No. 788 W. of 23rd March 1898 and paragraph 9 of report.
6	Compensation for land.	2,500	It was originally intended to purchase only the plot of land below Race View for which Rs. 5,000 was provided and Rs. 4,500 paid. It was subsequently decided to purchase part of Woodcot to obtain earth for filling, and for this Rs 1,500 were paid. The balance of the excess is not explained—*vide* paragraph 7 of report.

Item No.	Description.	Amount of excess.	Remarks.
		RS.	
7	Turfing and planting grass.	2,500	A great deal more is provided for than was originally contemplated, on Polo ground and slopes of bank, and owing to long drought up to May, much that was done had to be redone. The greater part of this work has still to be done.
8	Rough stone culverts.	1,300	The excess is partly for culverts under new road, and partly to drain old A B C ground when the old drainage channel was blocked (paragraph 11 of report).
9	Filling Polo ground hole.	1,768	The filling had to be continued further east than was originally intended to prevent ponding of water on Polo ground (*vide* paragraph 8 of report).
10	Drains	5,000	Rs. 8,000 were provided in the original estimate, but the amount was cut out by Colonel Pennycuick as unnecessary. Owing to the heavy drainage from the scarp on south, it has been found impossible to do without it.
11	Provision for repairing slips in slopes.	5,000	This is a provision for future work if found necessary (*vide* paragraph 20 of report).
12	Contingencies ...	3,791	Excess due to the long time the work has been in hand.
		98,808	

There are also several minor items of excess and some savings, bringing the total excess to Rs. 99,140.

4. Items 2, 5, 6, 7, 8, 9, 10, 11 and most of 12 may be accepted as unavoidable.

5. With regard to items 1 and 4, it is observed that the original estimate for earthwork was carefully prepared as regards quantity, and the rates were intended to cover all plant and appliances. These rates were calculated by the undersigned when Executive Engineer, Coimbatore division, in communication with Messrs. Mitchell and Mackenzie, to whom it was intended to entrust the work because they have a very great command of labour, and could have brought up 2,000 coolies and completed it in six months. If this course had been followed, it is considered that the work would have been completed long ago for an amount very little, if any, in excess of the original estimate submitted, viz., Rs. 1,27,900. But the undersigned was transferred, the estimate was cut down to a lakh, time was wasted in vain attempts to do the work for the reduced rate, and eventually the rate had to be increased, and the expensive aid of the Pioneers called in, with the result that the work has already taken 2½ years, and is not yet finished and the sanctioned estimate has been nearly doubled.

The fact that the work would cost nearly 2 lakhs of rupees was brought to the notice of Government in the undersigned's inspection notes of last October.

6. Item 3 of the excess is entirely due to the presence of the Pioneers in Ootacamund. There is no doubt that they have done very satisfactory work, but it has proved exceedingly expensive, and their introduction would have been quite unnecessary if well tried contractors, such as Messrs. Mitchell and Mackenzie, had been called in in the first instance and given a reasonable rate.

7. This large excess is principally due to the very unfortunate and impolitic reduction of the rates in the Chief Engineer's office, which made it impossible for any trustworthy contractors to take up the work and directly produced the half-hearted attempts at tackling this big undertaking which characterized the first 15 months of the operations. Credit is due to Mr. Somers-Eve that, on his advent in March 1897, much more vigour was thrown into the work, and it is now approaching a completion which will be very satisfactory in every way beyond the fact that the cost has been so excessive.

8. The revised estimate is recommended for sanction.

29th June 1898.

(Signed) W. B. DEWINTON,
Chief Engineer.

ORDER—No. 1763 W., dated 12th July 1898.

The revised estimate amounting to Rs. 1,99,140, for filling in the upper portion of the Ootacamund Lake, is sanctioned in supersession of the original estimate of Rs. 1,00,000 sanctioned in G.O., No. 3246 W., dated 19th December 1895.

2. The probable outlay on the work to end of 1897–98 amounts to Rs. 1,43,147. A provision of Rs. 44,153 has been made for it in the current year's Provincial Civil Works Budget. The balance of estimate, viz., Rs. 11,840, will, if possible, be allotted later in the year.

3. The sanction accorded in paragraph 1 has been registered as Provincial No. 38 W. of 1898–99, and classified as Miscellaneous Public Improvements—Original Works.

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, IV Circle,
with enclosures.
" Examiner, Public Works Accounts.
" Local and Municipal Department, for
communication to the Municipal Council, Ootacamund.

Exd T. K. Narayana Aiyangar.

Print soon

PROCEEDINGS OF THE MADRAS GOVERNMENT.

B. ~~P.~~ Civil works

READ the following

Print — From the Superintending Engineer, IV Circle, No. 275 W, dated 22nd May 1898.

Quote — - Do -, No. 277 W, dated 26th May 1898. 53 W

Quote — - Do -, No. 288 W, dated 2nd June 1898.

Print — Note by the Chief Engineer, P.W.D., dated 29th June 1898.

No 1763 W dy 12·7·98

Note Original copy sent to W. 11/7/98

10 P

The revised estimate amounting to Rs. 1,99,140, for filling in the upper portion of the Ootacamund Lake, is sanctioned in supersession of the original estimate of Rs. 1,00,000 sanctioned in G.O. No. 3246 W, dated 19th December 1895.

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T th B P Wks

3. The sanction accorded in para 1 has been registered as Provincial No 38 W of 1898-99, and classified as Miscellaneous Public Improvements, Original Works.

The S.E., IV Circle, with enclos. (33)
" Examiner, P.W. Accounts. ✓
" Local and Municipal Dept. ✓, for communication to the Municipal Council, Ootacamund.

(40—4,000—2-11-95.)

D 7/7

(Sd) W.B.de W.

W

D.W.

Vol. I
Code Series III. 43 &
VII 32, 33 & 34 give very
explicit instructions
with regard to revised
estimates — If III. 40
is properly attended
to, D.s should
have very early inform-
ation of the probability
of an estimate being
exceeded — An addition
to the rule would be
useful that he should
report such probability
at once for orders.
With the probable [illegible]
of the collrs, & I think
I should propose this —
Revised estimates take
so long to pass thro'
the various stages of
their journey to

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for filling in P.W. DEPARTMENT.
n of the Ooty lake

n Proceedings :—

189 , No.

189 , No.

l May 1898, from the S.E. IV circle
Inter-corr — do —
June 1898, " — do —

, ,

y the Chief Engineer, P.W.D., dy

ER.

The revised estimate
amounting to Rs 1.99.140, for filling in the upper portion of the Ootacamund Lake, is sanctioned in supersession of the original estimate of Rs 1.00.000 sanctioned in G.O. No 3246W dated 9th December 1895.

The probable outlay on the work to end of 1897-98 amounts to Rs 1.43.147. A provision of Rs 44.153 has been made in the current year's Provincial civil Works budget. The balance of estimate viz Rs 11.840 will, if possible, be allotted later in the year.

The sanction accorded in para 1 has been registered as Provincial No. W of 98-99, and classified as Miscellaneous Public Improvements, Original Works

K.S

AJR
22.6.98

29.6.98

D.W.

Vol. I
Code Pars III. 43 &
VII 32, 33 & 34 give very
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with the probable amt.
of the excess, & I think
I shall propose this.
Revised estimates take
so long to pass thro'
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their journey to

A

Revised estm for filling in the upper portion of the Ooty lake

P.W. DEPARTMENT.

Papers to be read in Proceedings :—

(1) H. E. the Governor
(2) The Hon: Sir Henry Bliss K.C.I.E.
(3) The Hon: Mr. A. T. Arundel

Again G.O., dated 189 , No.

Again G.O., dated 189 , No.

Print Current No. 4508 of 1898, dated 22nd May 1898, from The S.E. IV circle
Quote " " 4624 " " " 1st June 1898 " ~~do~~
Quote " " 4802 " 1898, " 2nd June 1898, " — do —
" 189 , " ,

Print Note by the Chief Engineer, P.W.D., dy

ORDER.

Note Press copy taken.
DHB
11/7/98.

A.S.H
2.7.98

AST
8.7.98 +
Flag M

The estimate must no doubt be sanctioned, but the excess does not seem to me satisfactory – The revised estimate should have been brought up for sanction before the work had proceeded so far.
HS
5/7/98

DW
9 July 98.

The revised estimate amounting to Rs 1.99.140, for filling in the upper portion of the Ootacamund Lake, is sanctioned in supersession of the original estimate of Rs 1.00.000 sanctioned in G.O. No. 3246W dated 19th December 1895.

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To

The S.E. IV circle with enclos.
- Exam: P.W. Accts !
- L & M Dept for commn. to the Municipal Council, Ootacamund.

AJR
22.6.98.

29.6.98

11/7

[P. W. 4. / 500—24-3-98.]

H.E. 30.6.98 R 4.7.98 H.M.A. 4.7.98 A.R. 7.7.98 P.K.S

Note. This estimate has been reviewed in the accompanying technical note, and the note by the Chief Engineer.

29.6.98

C.S.

P.K.S.

W

Revised estimate of Rs. 1,99,140 for filling in the upper portion of the Ootacamund lake.

Note by the Chief Engineer.

× Flag A

1. With his letter No. 275×, dated 22nd May 1898, the Suptg: Engineer, IV Circle, submits a revised estimate of Rs. 1,99,140, together with a comparative statement, for filling in the upper portion of the Ootacamund lake. Comparison of this revised estimate with the original is hardly possible, because, from various causes, many extra items had to be included in the estimate as the work proceeded. The principal items of excess are due to the following causes:-

(a) Raising the rate for Earthwork - Rs. 39,350
(b) Dry roughstone revetment - 12,089
(c) Hutting and Conservancy - 5,500
(d) Tramway - - - - - 15,000
(e) Roads - - - - 5,010

2. The original rate proposed for earthwork was unduly cut down when the original estimate of Rs. 1,27,900 was submitted for sanction, and the rate entered in the revised estimate is that at which it was eventually found

2. The original estimate submitted by the Ex. Engr. Coimbatore Dn. for this work amounted to Rs 1,27,900. This provided for 76.3 ~~millions~~ lakhs of cubic feet of earthwork to be taken partly from the North South side of the lake at a rate of Rs 13-6-0 per 1000 cft. & partly from the North side (Jail Hill) at a rate of Rs 14 per 1000 cft. - This estimate was reduced in the C.E. office to Rs 100000 for reasons given in G.O. No 3246× W. of 19 Dec 1890 chiefly by ~~reducing~~ lowering the rate for earthwork to Rs 11

× Flag M

found that the work could actually be executed. It is not satisfactory that unsigned earthwork sections should have been used, and the subordinate responsible for preparing them cannot now be traced.

3. The necessity for the dry rough stone revetment will be clear from the references given in para 10 of the Report, and the excess on this item was unavoidable.

4. The work of the IV Pioneers has been very satisfactory, but the expenses entailed by employing such agency have been much heavier than was originally anticipated, and the cost of Hutting has greatly exceeded the estimate.

5. Items (d) and (e), as well as numerous smaller items, were not included at all in the original estimate, but were found necessary, or advisable, in the course of the execution of the work.

6. It is highly probable that, as anticipated by the Ex: Engineer, in para 20 of his Report, the scarp slopes will give trouble in future, but provision on this account can be deferred until the necessity arises.

7. The revised estimate, as sent in by the Suptg: Engineer, is recommended for the sanction of Government.

AcK
22-6-98

and by omitting the provision for cross drainage – and has sanctioned the amount in the above mentioned G.O.

3. The excess of Rs 99,140 now submitted for sanction is principally made up as follows. See separate sheet

Item No	Description	Amount of excess Rs	Remarks
1	Earthwork	39350	Due principally to raising the rate from Rs 11 to Rs 15, the quantity actually executed being only 4 per cent in excess of that originally provided. For reasons for this excess vide Report. Para 3.
2	Dry stone revetment	12089	Not provided in original estimate – This had to be laid all along the toe of the steep scarps on S. side of ~~[illegible]~~ reclamation to prevent slips which have occurred owing to the large amount of water percolating from the tank. This could not have been foreseen before the excavation was made. The item also includes the rough stone drain at foot of scarp vide Para 10 of report
3.	Hutting & Conservancy	5500.	This ~~head~~ expenditure is entirely due to the increase of the Pioneers in Reg. and has greatly exceeded the original amount
		56939	

No	Description	Excess	Remarks
	Flag ×A/1 Flag ×B	56939	of Rs 1000 mentioned in the Colony letter printed with G.O. No 1587 W of 4 June 1897 flagged ×. The reasons for this excess are given in para 14 of Report attached. Sanction to the employment of the Pioneers was given in G.O. 1697 W dated 21st June 1897 flagged ×.
4	Tramway	15000	The rates provided in the original estimate submitted by Rs 13-8 & Rs 15 were intended to cover all plant for transporting earth. In addition however to the above rate of Rs 15, it has been found necessary to spend Rs 15000 on trucks & rails, bringing the actual rate for earthwork to Rs 17.00 per 1000 cft. Details of the excess are given in Para 15 of the report
5	Roads	5010	The original estimate provided only Rs 500 for metalling & gravelling the short diversion of the new road which was intended. The additional cost is partly due to the fact that, ~~the~~ immediately owing to the purchase of land from Woodside estate

Item No	Description	Amount of excess	Remarks
	× Flag C	76949	the road diversion has been much more extensive than originally proposed, & partly to the fact that after the diversion was almost complete it was found necessary for the safety of the banks & general convenience to realign it on a lower level - vide G.O. No 788 W of 22 March 1898 × & para 9 of Report.
6	Compensation for land	~~4000~~ 2500	It was originally intended to purchase only the plot of land below Race View for which Rs 5000 was provided & Rs 4000 paid. It was subsequently decided to purchase part of Woodside to obtain earth for filling, & further Rs 1500 were paid. The balance of the excess is not explained. vide Para 7 of Report.

No.	Description	Amt	Remarks
7	Turfing & planting grass	79449 2500	A great deal more is provided for ~~has been~~ ~~done~~ than was originally contemplated, polo ground & slopes of bank, & owing to ~~[illegible]~~ long drought of to-day, much that was done has to be redone – The greater part of this work has still to be done.
8	Rough stone culverts	1300	The excess is partly for culverts under new road, & partly to drain old AHC ground where the old drainage channel was blocked. Para 11 of Report
9	Filling Polo ground hole	1768	The filling had to be continued further cost than was originally intended to prevent ponding of water polo ground vide para 8 of Report
10	Drains	5000	5000 Rs were provided in the original estimate, but ~~[illegible]~~ the amount was cut out by Col. Pennycuick as unnecessary. Owing to the heavy drainage from the & camp into the it has been found impossible to do without it
		90017	
		90017	
11	Provision for ~~&~~ repairing slips in slopes	5000	This is a provision for future work if found necessary vide para of Report
12	Contingencies	3791	Excess due to the long time the work has been in hand
		98808	

There ~~at~~ are also several minor items of excess & some savings, bringing the total excess to Rs 99,140.

4. Items 2, 5, 6, 7, 8, 9, 10, 11 & most of 12 may be accepted as unavoidable –

5. With regard to items 1 & 3, it is observed that the original estimate for earthwork was carefully prepared as regards quantity, & the rates were intended to cover all plant & appliances. These rates were ~~[illegible]~~ calculated by the under

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4

9 P

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& - The revised estimate
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sanction.

29. 6. 98

+ efficient at reasonable rate

unwillingness of such trained contractors such as Messrs Mitchell & Mackenzie had been asked in in the first instance ×

7. This large arrears is principally due to the very unfortunate & impolitic reduction of the rates in the C.E. office, which made it impossible for any trustworthy contractor to take up the work & directly produced the half hearted attempts at ~~[illegible]~~ tackling this big under-taking which characterised the first 15 months of the Credit Operations – is due to [illegible]

[illegible] [illegible], who

5.

8

the result that the work has already taken 2½ years, & is not yet finished & the sanctioned estimate has been nearly doubled.

~~It was~~ The fact that the work would cost nearly 2 lakhs of rupees was brought to the notice of Govt. in the Ch. E.'s inspection note of last October.

6. Item 3 of the excess is entirely due to the presence of the Pioneers in Ooty. There is no doubt that they have done very satisfactory work, but it has proved exceedingly expensive, & their ~~an~~ introduction would have been quite

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Ramsay H.C.
20/6/98

x Hag A.

Chr 4882

Revised estimate of Rs 1,99,140 for filling in the upper portion of the Ooty lake

Note by the Chief Engr.

With his letter No 275x, dated 22 May/98, the S.E. IV Circle submits a revised estimate together with a comparative statement of Rs 199,140 for filling in the upper part of the Ooty lake. Comparison of the revised estimate with the original is hardly possible, because, from various causes, many extra items had to be included in the estimate as the work ~~proceeded~~ proceeded. The principal items of excess are due to the following causes

	Rs
(a) Raising the rate for Earthwork	39,350
(b) Dry Rough stone revetment	12,089
(c) Hutting & Conservancy	5,500
(d) Tramway	15,000
(e) Roads	5,060

2. The original rate proposed for earthwork was unduly cut down when the original estimate of Rs 1,27,900 was submitted for sanction, & the rate entered in the revised estimate is that at which it was eventually found that the work could actually be executed. It is not satisfactory that original earthwork sections did

earthwork from Rs 13½ to Rs 11 and disallowing pipes have been used, and the Subordinate responsible for preparing items cannot now be traced.

3. The necessity for the dry ~~stone~~ rough stone revetment ~~will be clear from the references made~~ ~~in explanation~~ in para 10 of the Report, and the excess on this item was unavoidable.

4. The work of the IVth Pioneers has been very satisfactory, but the expenses entailed by employing such a force have been much heavier than was originally anticipated, and the cost of Hutting has greatly exceeded the estimate.

5. ~~The excess on~~ Items (d) and (e), as well as ~~the~~ numerous smaller items, were not included at all in the original estimate, but were found necessary or advisable in the course of the execution of the work.

6. It is highly probable that, as anticipated by the Ex Engr. in para 20 of his Report, the scarp slopes will give trouble in future, but provision on this account can be deferred until the necessity arises.

7. The revised estimate, as sent by the S.E., is recommended for the sanction of Govt.

ACK
20-6-98.

Comparativ

Sanction estimate
ACK
20-6-98.

vide note attached
22-6-98

Public Works Department.

Current No. 4508

Letter No. 275W

Dated 22nd May 1898

From the Superintending Engineer W. Circl

NOTE BY TECHNICAL SECTION.

Name of work Revised Estimate for Filling in the Ooty Lake.

Amount of Estimate as received Rs 1,98,500

added to the above as per S. E's letter $\frac{288\text{W}}{2-6-98}$ Current No. 4802 of 1898 - - - - - - - - - - - - Rs 640

Total Rs 1,99,140

An estimate amounting to Rs 1,27,900, ~~which was~~ prepared in October 1895, was received with endorsement No. 413 W of 26-10-95 from the S. E. IV C with his opinion to decrease the rate entered in the estimate for earthwork, to disallow the laying of 3" drain pipes &ca &ca and the estimate thus reduced to Rs 1,00,000 was sanctioned in G.O. No. 3246 W of 19-12-95.

The estimate marked B in blue pencil, was prepared on the lines drawn out by the C.E. in his notes printed in G.O quoted above. The amount of this was made Rs 1,00,000 principally by decreasing the rate for earthwork from Rs 13½ to Rs 11 and disallowing pipes

[P. W. 60
250—30-9-97.]

efore dealing with the items of the — mparative statement it is necessary to see the quantity of the heavy item of Earthwork alculated in the 1st estimate of October 1895 fairly accurate with reference to the quantity the revised estimate. From para 3 of e S. E's letter under reference and one f the clauses of para 6 page 8 of the report ccompanying the estimate it is understood hat the original calculations are fairly accurate and satisfactory..

Considering the demand of high rate for earthwork, the rate in the 1st estimate was near enough and if the rate then entered were allowed to stand without decreasing, the percentage of the excess over the estimate sanctioned in G. O. No 3246 W of 19-12-95 would be far reduced..

On the report of the Executive Engineer on Special duty forwarded with S. E's endorsement No 292 W of 29-5-97, the rate for earthwork having been increased in G. O. No $\frac{1587\ W}{11-6-97}$ the amount of estimate would be in round figure Rs 140,000 and the excess now shewn as Rs 99140 over the estimate already sanctioned will not be a striking figure if in the first instance the rate was allowed as entered and the result awaited as the rate then entered was on the calculation it is believed to work by light trucks and rails if not recd tenders to work to the estimated rate.

The excess of Rs 99140 over the sanctioned estimate of Rs 100,000 is as per statement accompanying.

The notes on different items of the Comparative statement are also attached..

Comparative statement shewing the difference between the Original and revised estimates

Description of work		Amount of Original estimate	Amount of revised estimate	More	Less	Remarks.
Items for which rates have been found insufficient and sanction accorded for execution on higher rate		Items 1-5	Item 12	✓		Vide:
Earthwork		82,285	121,635	39,350	„	G. O. No 1587 W of 11-6-97.
Items which have been found necessary during execution and sanction accorded			Item 18	✓		
Roughstone revetment dry		„	12,089	12,089	„	Vide Inspection notes
Items now added as no extra provision was thought necessary when the estimate was 1st framed						
Extra rate for Pioneers	Item 13	„	1500	*1500	„	
Earth filling Polo ground hole	„ 14	„	1768	1768	„	
Hutting and Conservancy	„ 24	„	5500	*5500	„	
Tramway	„ 26	„	15000	*15000	„	
Maintenance of roads	„ 27	„	200	200	„	
Grouting	„ 28	„	194	194	„	
Removing and relaying Main water pipe	„ 29	„	361	361	„	
Items 30 to 37½. Vide detailed Comparative statemt		„	11,059	11059	„	
Items which have been found insufficient during execution		Item 6	Items 19-21			
Roughstone Culverts		375	1700	1325	„	
Filling in with sand		(7) 281	(25) 540	259	„	
Removing turf and top soil - stacking & relaying		(8) 5775	(22 to 23) 8,309	2,534	„	Planting grass forms excess.
Compensation for land and buildings		(9) 5000	7500	2500	„	
Roads		(10) 500	(15 to 17) 5510	5010	„	The original estimate for diversion Increase is owing to formation of new roads.
Contingencies		1284	5075	3791	„	
Petty Supervision		1000	1200	200	„	
Culvert and extension Channel		(11) 3500	„	„	3500	
Total Rs		100,000	199,140	102,640	3500	Excess Rs 99,140 ✓

* These items will increase the rate for earthwork.

Figures in brackets are reference to items in the detailed Comparative statement.

8

Filling in Ooty Lake.

Notes on Comparative statement drawn out by the Exe Engineer on Special duty.–

Before dealing in detail it is to be noted that the comparative statement has been prepared by shewing decrease in all the items and separately shewing the revised figures instead of original and revised figures just opposite.– For instance items 1 to 5 can be bracketed and the revised figures shewn in item 12 be brought here and cause explained and in the same way against item 6 the quantities as shewn in 19, 20 and 21 with a clear explanation instead of simply referring to the report.–

Items 1 to 5. From the remarks in Column 10 it will be seen that a calculation was made and arrived at a proportionate excess of 6 per cent over the quantity of the original estimate, without taking into consideration 100000* Cubic feet in the extension channel as it is said against item 11 that the earthwork is included in the estimate. It is now to be noted that the excess is a little over 4 P.C. taking the above quantity also into account.– This excess quantity of 4 Cft in every 100 Cft is not to be considered in the case of Boggy nature of soil ~~and~~ and when some minor items as in the detailed estimate are considered.–

* in lump sum estimate of Rs 3500 for culvert & cutting extension chan'l.

As regards the rate it is understood from para 3 of the report that from january 1896 to july 1896 (7 months) the work was carried out by departmental agency and it is not known what rate was arrived at for the 320 Units executed till then. The quantity executed is small, ~~and~~ there was no necessity to strike a rate for this and separately for the remainder. To the sanctioned rate of Rs 15 to be added the amount of Tramway charges hutting and Conservancy and extra rate for Pioneers. Adding these to the quantity of earthwork the rate will be Rs

From para 15 of the report accompanying the este it is understood that permission has recently been received for obtaining more rails from the Rushikulya Project.- If at first made this arrangement of bringing the light tramway rails and the small trucks ~~made~~ the rate will most probably be far within the estimate first prepared.

Item 6. Remarks in Column 10 refer to items 18 to 21 and 33 instead of 19, 20 ~~and~~ 21, 32 & 33. The explanation given in para 11 of the report justifies the excess.-

Item 7. The quantity in item 25 can be entered against this item 7 and the cause of excess is explained.- Increase is due to greater quantity of sand owing to thickness and 300 more in length.

Item 8. The items 22 and 23 shew a greater quantity and less cost than the original estimate but planting grass is proposed - hence excess.-

Item 9.- The Original estimate was approximate.

Item 10.- Remarks refer to items 15, 16 & 17 The explanation in para 9 of the report justifies the excess.

Item 11. No remarks.

Item 12. Vide items 1 to 5.-

Item 13. This adds to the rate for earthwork in proportion to the revised quantity.-

as it will be maintenance during the completion of the whole work.

D.— S.—

Item 14.- This is a new item - executed and paid for at the rate of Rs 12.- In support of this quantity statement marked U is submitted.

Items 15, 15A, 16 and 17.- Vide remarks for item 10.

Item 18.- Vide explanation in para 10 of the report. The amount ~~is~~ seems large.-

Items 19, 20, 21 Vide item 6. Explanation is proper.

Items 22, 22A and 23. Vide item 8.

Item 24.- G.O. No. 1697 of 25-6-97 restricts to the expenditure of Rs 1000. Some minor works such as drains ~~[illegible]~~ are included to this.- Explanation in para 14 of the report justifies the expenditure.-

Item 26. This is another big item chargeable to the rate for earthwork

Item 27. After the closing of the work, this expenditure can be charged to repairs

Items 28 to 37 No remarks.

Item 37½. From the report para 20 this item is reported to be necessary and the S.E. allowed Rs 5000 Vide para 20 of his letter under reference.- It requires to be seen if it cannot be estimated for separately after closing accounts.

Checked the detail estimate - arithmetical calculations of the filling shewn in sheet marked X and submitted for sanction, the rates being fair for the locality.-

The report accompanying the estimate should have been written on hand made foolscap as per orders of this office and the estimate classified.

18/6/98

ALK
20-6-98.

S.D
14-6-98

~~9009~~

Public Works (1898) Department.

CURRENT No. 4802

Cn 4558 / 4626

From The Supg. Engineer, 4th Circle.

Order

No. 288/W

Dated 2nd June 1898

Received } 6.6.98
Registered }

Enclosures One

Spare copies –

SUBJECT.

Revised Este. for Ooty Lake,

Submits for compliance letter from the Ex: Engineer on Special duty Ooty requests to include Rs 840 instead of Rs 500 for constg. a road from Willow Bund to Pavilion in the ——

I

Do necessary action

Cn
7.6.98

O.L.S. 193

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Office of the Executive Engineer
on special Duty,

No. 98

Ootacamund, 27th May 1898.

From,

J. F. Somers Eve, Esq.,
Executive Engineer,
on special Duty,

To,

The Superintending Engineer
Fourth Circle.

Sir,

I have the honor to forward a supplementary estimate for the road from the Willow Bund to the Pavilion site, which, I regret to say, was omitted in the revised estimate for the Ooty Lake. Sections had not been taken at the time, and I thought the amount of work would be trifling and that it did not matter. To obtain a decent gradient however, I find that more work has had to be done than I anticipated. I request that it may be included in the revised estimate.

Enclosure
one.
Ch 4508
4624
Sent-S. J.
on 2.6.98

2. The cost of levelling and tidying up

the

the site for the races~~course~~ to Rs 640
not 500 as previously stated.

ENGINEER'S OFFICE P.W.D.
No 406 M
29 MAY.98
FOURTH CIRCLE

I have the honor to be,
Sir,
Your most obedt. servant,

Executive Engineer
on Special Duty.

No. 288/W

Submitted to the Chief Engineer P.W.D for favor of compliance. Enclo: 1.

Camp Anamalais
2nd June 1898

Supg: Engineer
4th Circle.

8002

Public Works (189) Department.

CURRENT No. 4624

From The Supg. Engineer
4th Circle.

Order

No. 277/W

Dated 26th May 1898

Received
Registered } 1-6-98

Enclosures 7.

Spare copies ✓

SUBJECT.

Filling in Ooty Lake.

Forwards Estimate &ca.
for — as enclosures to
his letter No. 275/W d/ 22nd May/98.

Keep with other papers
C.N.
1/6/98

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Urgent

No. 124 D

Gobernment of Madras.

PUBLIC WORKS DEPARTMENT.

MEMORANDUM.

The undermentioned documents are forwarded to ~~the~~ Mr. Somers-Eve, Executive Engineer on special duty, Ootacamund ~~with reference to his letter No.~~ ~~dated~~ as requested by the Supdg Engineer IV Circle in his letter No. 220W dated 18th April 1898.—

1. Report to accompany Estimate for filling in the Ooty Lake.
2. Detailed Estimate of quantities for Supply channel & Culvert.
3. Abstract estimate of do do
4. Detailed estimate for piping
5. Estimate of probable quantity of earthworks
6. Abstract Estimate of Rs 1,27,900.
7. do of Rs 1,00,000.

No. 76.

Returned with thanks thro' the Supt. Eng.

J. F. Somers Eve
23/5/98
Executive Engineer

returned thro' S.E.

No. 277 W dy 26th May/98. Forwarded as an enclosure to this Office No. 275 W dy 22 May 98.
"By order"

(By Order.)

C No. 4508 submitting Revised estimate for filling in the Ooty lake

Al Russell

Under Secretary to Government, P. W. D.

Sent to T with ... 26.5.98

Ootacamund
~~Chepâk, Madras~~,
28 April 1898

Enclos: 7

To ~~[illegible]~~

The J. F. Somers-Eve Esqre,
Ex Engineer in Special duty,
Ootacamund

[P. W. 28. / 500—1-12-97.]

SUPG. ENGINEER'S OFFICE, M.W.D.
No. 446 M.W.D.
26 MAY.98
Enclo 7
FOURTH CIRCLE.

Wilkins

Public Works (1898) Department.

CURRENT No. 4508

3246 b 19-3-98
1215 b 11-5-98
1587 W 1-6-97
7848 W 23-5-98
[illegible]

From The Supdg. Engineer, 4th Circle

Order

No. 275/W

Dated 22nd May 1898

Received } 26.5.98
Registered }

Enclosures 31.

Spare copies ✓

SUBJECT.

Filling in the Ooty Lake

Submits for sanction a revised estimate for —

Drew S. Secretary on 26/5/98

(with plans in Tin case)

3429 = 12-4-98
683 C/GK - 15-3-98

0. L 5193

BACK PAPERS.

No.	Date.
124 D	d/ 28·4·98

FURTHER PAPERS.

No.	Date.

No. 275/W

Superintending Engineer's office
4th Circle
Coimbatore 22nd May 1898.

From
A. H. Garrett Esq
Supg: Engineer
4th Circle

To.
The Chief Engineer
P. W. Department

Sir,

I have the honor to forward, a revised estimate for "Filling in the Ooty Lake."

2. The report accompanying the estimate gives a history of the work and explains the necessity for the estimate now submitted.

3. It will be seen that the estimate originally submitted by Mr de Winton was fairly accurate. Mr Malet prepared a revised estimate in May 1897, which Mr Somers Eve submitted with slight alterations after taking over charge from Mr Malet. The sections which accompanied this estimate were not signed and Mr Somers Eve is unable to say who prepared them. He, however, accepted them as correct, — though

Enclos: 31.
1. Survey Plan
18 Cross sections
1 Comp: statement (new)
1 do - do - (old)
1 Abst. Este. (new)
1 do - do - (old)
1 Detailed do - (new)
1 - do - do - (old)
1 Report (new)
1 - do - (old)
1 Copy of Inspection notes of Chief Engr. P. W. D.
2 Statements of earth work quantities.
1 File of estimate for 1,00,000 with notes &c.

Separately Sent Per Parcel Post.

though it is now quite certain that they were very inaccurate, as the quantity of work to be done, calculated from them, differs very much from the amount given in Mr deWinton's estimate and that which has actually been executed.

4. The present estimate exceeds that sanctioned by Rs 98,500 × and the Report and Comparative statement afford the necessary explanation.

× 98500 plus 640 as per Current No. 4802 of 1898

5. The rate for earth work works out to Rs 17.03 per unit, vide items 12, 13 and 26 and in this connection attention is drawn to G.O No. 1732 W dated 30th June 1897.

6. There has been a large excess on the item hutting which in his letter dated 28th May 1897 Mr Somers Eve said would not cost more than Rs 1000. The expenditure however seems to have been necessary and unavoidable.

7. I am decidedly in favour of the lump sum provision of Rs 5000 referred to in para 20 of the report as I think slips are certain to occur during the monsoon.

8 In conclusion I would observe that, although the work of the Pioneers has been somewhat expensive, it has been eminently satisfactory in all other respects.

I have the honor to be

Sir

Your most Obedt. Servant

Superintending Engineer
4th Circle

AP
22/5/98.