

Public Works (1898) Department.

G.O., No. 1215 E

DATED 13 May 1898

14/5/98

[Despatch Abstract.]

Cotacamund Lake. ^{Supplemental} Estimate of Rs. 10,000
for improving the iron pipe sewer in the
Sanctioned and the Local Municipal Dept requested
to instruct the Municipal Council to place the
requisite funds at the disposal of the P.W.D.

110/6

13.5.98

Indexed.

14/5

DEPARTMENT

A

Government {1898} of Madras.
PUBLIC WORKS.

Regd.

1898.

Enclosures

Spare copies

G.O., No. 1215 W., 13th May 1898.

MAY.

Ootacamund Lake

Supplemental estimate of Rs. 10,000 for improving the iron pipe sewer in the —, sanctioned, and the Local and Municipal Department requested to instruct the Municipal Council to place the requisite funds at the disposal of the Public Works Department.

Wesen

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

From A. H. GARRETT, Esq., Superintending Engineer, IV Circle, Coimbatore,
to the Chief Engineer, Public Works Department, dated Calicut, 26th
March 1898, No. 182 W.

Adverting to G.O., No. 182 W., dated 21st January 1898, I have the honour to
submit herewith for sanction of Government the plans and estimates amounting to
Rs. 10,000 for improving iron pipe sewer in the Ootacamund lake.

ORDER—No. 1215 W., dated 13th May 1898.

The estimate amounting to Rs. 10,000, for improving the iron pipe sewer in the
Ootacamund lake, is sanctioned as supplemental to the estimates aggregating
Rs. 31,680 sanctioned in the following G.Os.:—

No. 378 W., dated 8th February 1897.
" 2102 W., " 2nd August 1897.
" 2917 W., " 19th October 1897.

2. The Local and Municipal Department will be requested to instruct the Chair-
man, Municipal Council, Ootacamund, to place the requisite funds at the disposal of
the Public Works Department.

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, IV Circle, with plans and estimates.
" Examiner, Public Works Accounts.
" Local and Municipal Department.

Exd. A. F. Eccleston.

Papers to be read in Proceedings:—

Again G.O., dated

189 , No.

Again G.O., dated

189 , No.

Current No. 2870

of 1898, dated 29 March, from the Supty. Engr. IV Circle

" " " 189 " "

" " " 189 " "

M. R. Civil works

The Honorable Sir H. W. Aldrich, C.S.E.
His Excellency The Governor

ORDER.

N-1215 W 8.13.5.98.

The estimate amounting to
Rs. 10,000, for improving the iron pipe
sewer in the Ootacamund Lake
is sanctioned as supplemental to the
estimates aggregating Rs. 31,680 sanc-
tioned in the following G.Os.

378 W of 8 February 1897

2102 W of 2 August 1897.

2917 W of 19 October 1897

2. The Local and Municipal
Department will be requested to instruct
the Chairman, Municipal Council,
Ootacamund, to place the requisite
funds at the disposal of the Public
Works Department.

APK

27.4

May

3-5-98

Note This estimate is dealt with in

H. B. 6. 5. 98 29.5.98 H. B. 9.5.98

insert extra

the accompanying technical note. The work has already been practically completed.

AK
27.4

W

may

The work provided for in this estimate is the same as that of items (5) & (6) Para 7 of my notes printed with G.O. No 700 W of 22 March 1898. The rough present estimate of expenditure there made was Rs 9500. Whereas this estimate amounts to Rs 10000. The work has been practically completed & well done, & will be a great improvement with the money.

W. H. Hill
27.4.98

Public Works Department.

Current No. 2870

Letter No. 182

Dated 26th March 1898

From the Sup^r Engineer N. C.

NOTE BY TECHNICAL SECTION.

Name of work... Estimate for improving the sewer pipe sewer in the Ooty Lake.
Est Rs 10,000.

The work has already been practically completed, & the estimate can therefore be sanctioned

AK
23.4.

W. H. Hill
27.4.98

See G.O. No 3544 W dated 17th Decr 1897 permission was given to temporarily lower the Lake to a depth of the sewer pipe which was apparently obstructed and leaky being examined. The pipe was accordingly laid bare, leakages at the joints stopped, & all joints re-caulked. Inspection showed that the alignment was most irregular and grading very imperfect. G.O. No 182 W of 21st Jan'y 1898 reviewed the Chief Engineer's inspection notes dated 3rd January and permission was given to

proceed with the work of
the existing manholes, re-
lining and re-paving
pipes in anticipation
of the estimate.
The work was proceeded
with and it was expected
to be complete by the end
of March 1898. The
work is represented by the
Executive Engineer as
being one of considerable
difficulty. Subsequent
knowledge showed that
the steps taken were necessary.
The pipe, in many places,
when low, being choked
up to half its depth,
and the flow of sewage
would not have been
satisfactory. The pipe has
thoroughly cleaned and
straightened where practicable,
& it is expected the work
will be completed satisfactorily.
A cheaper form of manhole
has been substituted on the
ground of economy & speedy
erection. They are circular
and constructed of brickwork

partly in Portland Cement
and partly in brick-mortar. The
foundations has been built
nearly all constructed with
brick mortar, and the
superstructure up to top of
the pipe in Portland Cement.
The inside will be plastered
with cement up to 2 feet
in height and the rest with
brick mortar. The outside
it is intended to be plastered
with brick mortar but this
will depend on how quickly
the lake fills after the pipe
is relaid. The pipes where on
made soil, have been laid
on piles with cross pieces
to prevent settlement, and
the Supt. Engineer has ordered
them to be tested under the
weight of the pipe when run-
ning full.
The outlet sluice was lowered
 $1\frac{1}{2}$ feet to allow the lake
water to run off sufficiently
to get at the lower end of
the pipe. The general length
between manholes is about
200 feet; in some cases when
the old curves were sharp
it was found cheaper to
insert extra manholes

than to excavate through hard soil in deep cutting for the purpose of straightening the sewer.

Sanction has been asked to reduce the permanent level of the lake from +2.3 to +2.5 and until this is settled the level of the top of the manhole ~~cannot~~ ^{cannot} be fixed.

It is expected that the work will be completed within the estimate.

The estimate is divided as follows:-

Examining the four sewer pipes } R: 840
in the Lake & repairing joints }

Improving the four pipe sewer } 3445
in the Lake _____ }

Constructing 20 Circular man. } 3160
holes at R: 158 each _____ }

Constructing 11 Circular manholes } 2068
at R: 188 each _____ }

Contingencies _____ 345

Petty Supervision _____ 142

Total R: 10,000

Ratio. These cannot be checked but were evidently carefully considered by the Executive Engineer.

The following lump sum provisions are made in

estimate which was no doubt unavoidable.

R: 200. Building rough stone Weir 35 feet long in the left bank of supply channel at 500' from Willow Wood.

R: 150. Lowering the sill floor and aprons of outlet sluice to lower the lake.

R: 70. Building rough stone jump Weir below culvert in Mettur.

cherry stream with side banks.

R: 50 in repairing swamp near Mettur cherry stream and

constructing a track.

The plans & estimates were prepared by the Executive Engineer on special duty and countersigned by the Super Engineer IV Circle.

H. J. A.

19/4/98.

Public Works (1898) Department.

CURRENT No. 2870

From The Sup. Engineer
4th Circle

Order

No. 182
W

Dated 26th March 1898

Received }
Registered } 29.3.98

Enclosures 9.13 (3 plans)

Spare copies ✓

SUBJECT.

Improving Iron pipe sewer
in the Ostacammund Lake.

Submits for sanction of
Government plans & estimates
amounting to Rs 10,000 for

I am sending
in 21.3.98

0.1539

840W
29.3.98

BACK PAPERS.

No.	Date.
182 W	21-1-98
3544 W	17-12-97
780 W	22-3-98
2917 W	19-10-97
2102 W	2-8-97
378 W	8-2-97

FURTHER PAPERS.

No 182
W.

Supp: Engr's Office, 4th Circle
Camp Belicent 26th March 1898

From,

A. H. Garrett Esq
Supg: Engineer, 4th Aricle
Coimbatore

Co.

The Chief Engineer
P. W. D. Madras.

off with snow
Aug. 3rd 98
to the Press
Enc: 9. 30. 3rd 98

+
1 Survey plan
1 Long Section
1 Plan of man hole
1 Report
4 Estimates.
1 Note taken on
26-1-98.

37
Adverting to G. O. No 182 w dated
21st January 1898, I have the honor to
submit herewith for sanction of Government
the plans and Estimates amounting to
Rs 10,000 for Improving Iron pipe Sewer in
the Cotacamund Lake.

X Separately sent
under Parcel post

I have the honor to be

Sir,

Your most-Obt. Servant

Continued

Supg: Engineer, 4th circle.

AP 21 ³/₉₈