[L. & M. / 2,000—28-10-97.]

Local & Munl. (189) Department.

MISCELLANEOUS.

G.O., No. 314 M

DATED 3-2-98

DESPATCHED

INDEXED. CR

[Despatch Abstract.]

Drainage. Requesting the municipal council Ootacamund to place a sum of Rs 250 at the disposal of the Public Works Department towards the cost of opening out & repairing the drain at the rear of the Marlimund reservoir out of the balance of the Provincial grant drawn by the municipal council on account of the water supply scheme.

BACK PAPERS.

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

FURTHER PAPERS.

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

Local & Munl. (1898) Department.

CURRENT No. 321/M

From The P. W. Deptt.

No. 296 C

Dated 18-1-98

Received 20-1-98

Registered

Enclosures

Spare copies.

SUBJECT.

Forwarding with remarks endorsement of the Superintending Engineer 4th Circle submitting for favour of orders letter from the Chairman Municipal Council Ooty with estimate of Rs 250 for opening out and repairing the stone drains in rear of the bund of the Marlimund Reservoir at Ootacamund

Misc **Order** No. 314 Muni d 3-2-98

The municipal council of Ootacamund is requested to place at the disposal of the Public Works Department a sum of Rs 250, out of the balance of Rs 1,23,550* remaining from the Provincial grants already drawn by it on account of the water supply scheme.

H. T.
2-2-98.

V. R.
2/2/98

* Please see the notes in G.O. No 2232 M, dated 13th October 1897. Hag. M

To The Chairman. M. C. Ootacamund through the Collector of the Nilgiris.
" Public Works Department.

Desp 7/2/98

C/31/1/98

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

L & M

Public Works (1898) Department.

CURRENT No. ~~68~~ 321/M

LOCAL & MUNICIPAL D
CURRENT No. 321/M

No 296c dated 18th January 1898.

From The Supg. Engineer 4th Circle

~~Order~~ Endt.

Forwarded to the Local and Municipal Department with the request that the Municipal Council, Ootacamund, may be authorised to place a sum of Rs 250 at the disposal of the P.W. Dept. from the source indicated. The work provided for in the estimate has already been carried out. Copy of a report on the subject by the Executive Engineer, & of this office endorsement thereon, No 5378C dated 10 Decr 1897, is forwarded herewith with reference to G.O. 2786 M. Mis, Local & Muncl dated 13 Decr 1897.

No. 697/W

Dated 30th December 1897.

Received / **Registered** 20/1/98

Enclosures One

Spare copies

SECRETARY TO GOVERNMENT
23 JAN. 1898
LOCAL & MUNICIPAL DEPARTMENT

925

SUBJECT.

Stone drains in rear of the bund of the Marlimund Reservoir at Ootacamund.

Submits for favor of orders letter from the Chairman Ooty Municipality with estimate of Rs 250 for opening and repairing the

Ag. Secy to Govt.

BACK PAPERS.

No.	Date.
p 2786 dd	13-12-97
„ 2310 dd	27-10-97
„ 2156 dd	2-10-97
„ 578 dd	18-3-97

FURTHER PAPERS.

No.	Date.

Letter from G. Hamnett Esq, Chairman Municipal Council, Ootacamund to the Superintending Engineer, 4th Circle dated 18th December 1897, No 4151

Referring to your letter No 690 dated the 15th Instant, I have the honor to return Countersigned, the Estimate, amounting to Rs 250 received therewith, and to inform you that as the Municipality has no funds allotted in its budget for the work, it is desirable that the Sanction of the Government should be obtained for allotting the sum of Rs 250 from the balance× available for the improvement of the Water supply of this town.

× Rs 110095-13-11.

No 697

Enc. 1
1 Estimate.

Copy submitted to the Chief Engineer P. W. D. for favor of orders.

Coimbatore
30-12-97

Supg: Engr. 4th Circle

2/321 M of 1898

Public Works Dept

Memorandum

Copy of a Report on the leakage through the bund of Marlimund Reservoir at Ootacamund.

Judging from the old records which I was able to see, this bund has always given trouble, and some years ago – in 1884 I think – stone drains were put in at the rear toe of the bund to prevent its becoming waterlogged. After this was done, the leakage was found to be about 30 gallons a minute.

2. When I first inspected the Reservoir on the 8th November, water was standing just at F. S. L. (which is 18.15 ft on the gauge and not 19' as is frequently stated in the correspondence about the Reservoir which is on record in the municipal office). After a careful inspection along the water margin, the only sign of a leak I was able to detect was a small quantity of water passing through a crack in the masonry floor at the head of the surplus channel, just in front of the wooden road bridge. The cause of this leak I have been unable to trace. After the 8th November the water level dropped about an inch and

leakage

leakage through this crack ceased.

3. The stone drains alluded to above are all covered in ones and there was nothing on record to show their exact position; as however I was anxious to measure the discharge down each of them, I had pits dug and eventually traced their course and had them opened out. Before this, however, I measured the total discharge into the nullah at the point (H) See sketch - and found it to be, after, a series of trials, 4.47 cft per minute (= 27.87 gallons per minute). After opening out all the drains, and putting up small bunds at the ends of each of them so as to measure their discharge, I again measured the discharge at (H) and found it to be 4.71 cft per minute (= 29.44 gallons per minute). (I checked this discharge on several different occasions and always got the same result). I attribute this increase in the total discharge to the fact that the drains were opened out and so ran freer and also to the fact that after the date of my first measurement at (H) the discharge pipe was refixed and put at a rather lower level (about 6 inches lower). This means that the head was increased.

I next, carefully measured the discharge at the mouth of each drain and found it to be as follows. See sketch for the position of the letters here given.

at	c. inches per minute
(a)	252
(b)	1200
(d)	1150
(e)	291
(f)	23
(g)	147
	3063

In addition to this quantity, when excavating the drains, a distinct spring was found at the point (C). This was traced back a short way and the discharge was found to be 515 c. inches per minute. The total discharge therefore down the drains amounts to 3578 c. inches per minute = 2.07 c ft per minute. This, as will be seen, is less than half the discharge out of the Swamp at (H). I was unable to discover with any accuracy where the rest of the water came from, but there is a steady flow into the swamp from the corner marked "Swampy ravine" in the sketch.

During the whole time I was conducting my investigations - about 15 days - the water percolating through the bund remained perfectly clear

clear and I saw no signs of any sort which would lead me to think that the bund was in any danger. On the last day just before leaving, I again measured the discharge at (H) and found it to be, as before, 4·71 cft per minute.

As all the drains had been opened out I thought it a favourable opportunity to have all the stones removed, the trenches cleared, and the stones repacked, and this has been done. I have also made a new drain ending at (C) where I discovered a spring. This comprises all the new work I have done. What I suggest should be done is to lower the level of the swamp and to run stone drains through it. At the point (H) the bed of the nullah is nearly 3 ft below the top level of the swamp, and there is no reason why the water level should not be lowered this much. Of course it must be done gradually to prevent a sudden drain off and slipping of the bund. I also think it would be a good ~~thing~~ thing to keep a record of the discharges at (H). This could be easily done, and any sudden increase would be a sure indication that something had gone wrong; and that water level in the Reservoir should be lowered. The sketch which accompanies this report accurately denotes the position of the drains, taking the road over the bund as a base.

(Sd) S. B. Murray
1-12-97.
Executive Engineer
Coimbatore Division

Endorsement thereon ~~from~~ by the Chief Engineer No. 5378 C dated 10-12-97.

Recorded with the remark that it is not considered advisable to interfere in any way with the swamp for fear of producing a slip in the bund.

Arrangements should be made for registering the flow at H at as frequent intervals as possible.

(Sd) W. B. deWinton
Ag Chief Engr.

The S.E. IV Circle

(True Copy)

R W Lyons.

Head Clerk.

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Ag Chief Engr

The S.E. IV Circle

(True Copy)
R. W. Lyons.
Head Clerk.

E 5496

3/321 M of 1898

When given for copying
When copied 4/2/98
When examined
When signed 4/2/98
189

READ AGAIN G.O., No. , DATED 189

CURRENT NO.							
ENCLOSURES TO C. NO.							
ORDER OF GOVERNMENT	A	A	A	A	A	A	A
LETTER OF GOVERNMENT.							
STATEMENT WITH DITTO.							
PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH IN ORIGINAL.							

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