M.R.O. 1—10,006—28-2-50.

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

public works DEPARTMENT

G.O. No. 3329 Press

B.P. No. 460-61 Mis.

Dated 25.11.1874 195

Not to be folded or roughly handled

81

No 1782 No 2 Ranger Office
2nd October 1874

From
The Executive Engineer
No 2 or Mount Ranges

To The District Engineer
Bangalore

Sir

I Deputy Ranger No 1657 of 18th August 1874
to the Chief Engineer's Memo No 5597 of 1st August 1874
and Ry yours No 1918 of 1st Instant on G.O. No 2401
of 25th August 1874 I have the honor to report
as follows

Work was commenced on the Red Hills
in December last under yours and Mr Farrington's
orders for which work I submitted an estimate
for Rupees 1925 with letter No 4603 dated 18th Dec 73.

This estimate allowed for filling in the
slips with good stuff and placing sub soil drains,
this was accordingly done but as the work proceeded
it was found that the slipping extended out.
Work was then stopped and a fresh estimate sub-
mitted for removing the earth again and for
& stacking bad stuff in each slip & prospected slips
deep with the rear of the Land No 12 making this
Land with good stuff and to remove & set the
sub soil drains; this estimate was forwarded
in March 1874 and in my No 2370 dated 24th
March 1874. I clearly laid down the course pursued.

Enclosures 2.

With letter No 2279
dated 19th March 74.

Thus

This new estimate was returned towards for slight alterations but was eventually sanctioned in your No 1856 dated 22d July 74 and work was commenced in July 1874. a time when the tank was lowest that it had been all the year.

From what I saw I am of opinion that the leakage does not percolate through the bund but that it is spring water oozing through the soil on which the bund is placed; this water by natural Capillary attraction soaks more or less upwards into the bund and where it meets with bad soil it so melts it that it is deprived of all stability and is no longer able to support the superincumbent weight and in fact acts as a lubricator for the sliding of the bund. By putting in good stuff and providing for keeping it dry by sub soil drains which will check the action of soaking, I think the bund will be rendered quite stable, but there are doubtless bad places still which will require watching; and there are some places where there is no puddle. But I propose leaving all this until next year when at the alteration of the Calingala line I shall have the water as low as possible and we can then make good all low and bad places.

I enclose a profile showing the work done on the last estimate, the black line shows the partial restoration under the first estimate which kept slipping down to the toe, the second estimate provided for taking this out as far as the lower yellow line where bad stuff was met with and removed at A the old bund was met with and as it seemed perfectly sound and of good stuff it was merely notched as shown yellow/ no notches existed here before/ and a longitudinal drain was placed here as shown.

I also enclose a sketch showing the positions of the longitudinal and cross drains in plan. The whole was then filled in with good stuff and restored to its section as shown by the upper yellow line. The drains underneath keep the earth work dry; and the water running through them, I have no doubt is simply spring water from the soil beneath. Both trenches were filled all through the season and the former slips at Shalawa and Red Hills remain as stakings. At the close of next monsoon I shall again take cross sections of the affected portions of the bunds and submit them for information on the old profiles.

I have the honor &c
/signed/ A.C. Smith Captain R.
Executive Engineer Mont R

No 2475
Copy forwarded to the Chief Engineer for Irrigation with reference to his Memorandum No 557 dated 1st August 1874.

Enc:
2 Plans.

District Engineers Office
Gunjdy 20th October 1874

J. Henderson Col. R.E.
District Engineer Chingleput

To the Chief Engineer for Irrigation.

Enclosures:

2 to Letter 238 of 26 August 1874 to the Collector of Customs, Levuka, requesting that he may be allowed to purchase the Government Steamer "Sea Queen".

2. A letter from Captain H.C. Smith to the Chief Secretary to Government, Suva, dated 7th October 1874, offering to purchase the Government Steamer "Sea Queen" for the sum of £1,000.

3. A letter from Captain Chalmers to the Chief Secretary to Government, Suva, dated 8th October 1874, offering to purchase the Government Steamer "Sea Queen" for the sum of £1,000.

To Govt. No. 869 - 27 Oct/74.

From The District Engineer Ohinglepoint

No. 1965.

To The Chief Engineer for Irrigations

Dated 20th October 1874

Rec'd 21st

R. 24175

Encl 2

Reports regarding the transactions of the ship of Red Hill Sandalwood and vessel, 2 Sketches of the same.

Rec'd P.W. 6922/74.

sable that drains should usually be placed at original ground surface, rather than at a higher level.

Camp at
Ticken dore
27th October 1874

Lt Colonel Lambert
Chief Engineer for Irrigation

To
The Secretary to Govt PWD

Public Works Deptt
Proceedings of the Madras Government
Read the following
From
The Chief Engr
for Irrign (No 869 dated
27 Oct/74)
3329

Recorded

Ly. 29/10/74

To
The S.E. Chingleput
— Chief Engr for Irrn
Despd 26/11/74.

Govt. 922 1874 Madras.

PUBLIC WORKS.

To The Supg: Engr.
Chingleput.

Dated

Recd. Encl. 3

G. O. 25 Nov. 1874, No 3329

Nos. 440-441.

Red Hill Tank Bund

Endorsement from the Chief Engr. for Irrigation submitting a letter from the Supg. Engr. Chingleput reporting the works done at the slip of the bund, recorded.

7-10-14-