Public Works (1896) Department.

G.O., No. 2739.

Dated 21-3-96

[Despatch Abstract.]

Lower Coleroon anicut. Estimate of Rupees 1,25,000 for improvements to the —, Tanjore Do., sanctioned with remarks.

P.W. 25
1,000—21-10-96

BACK PAPERS.

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

FURTHER PAPERS.

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

IRRIGATION.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated March, 21st.

Recd. *Encl.*

G.O. No. 273 I., 21st Mar. 1896.

MARCH.

Lower Coleroon Anicut

Estimate of Rs. 1,25,000 for improvements to the —, Tanjore division, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following paper :—

From Lieutenant-Colonel A. W. SMART, R.E., Superintending Engineer on Special duty, Cauvery Completion Estimates, to the Chief Engineer for Irrigation, dated Tanjore, 25th February 1896, No. 82.

I have the honour to submit an estimate for Rs. 1,08,220 for protecting the lower anicut, both branches, in the way explained in the report and plans. In my opinion the work is of an urgent nature and should be put in hand this season. You are aware that the flood bank on the south side above the anicut has been completed in accordance with Mr. Lobb's levels with the object that the river should take 300,000 cubic feet per 1″. Nothing, however, has been as yet done to increase the waterway of the lower anicut, so that if we should have a flood of 300,000 cubic feet a second, it is quite possible and almost probable that the anicut will be breached. In my report on Mr. Lobb's proposals in 1892, I said "as long as the anicut remains untouched, the South bank of full section and height must be considered as a menace to its safety" and Colonel Campbell in his note said "consequently should a flood like that of 1858 occur and the embankment does not breach, the anicut is almost certain to be carried away." The estimate I now submit is, in my opinion, absolutely necessary and there should be no hesitation in sanctioning it. I would leave for your consideration whether it would not be well to make the width of the platform 50 feet instead of the 30 feet allowed, the extra 20 feet would cost Rs. 28,000.

You will also see the great advantages that will accrue by placing the anicut in front of the bridge, where we shall obtain the full width of the piers to take the pressure of the proposed shutters. If the shutters that I am now designing turn out a success, the cost with anicut re-built and 6 feet shutters will be Rs. 4,000 per vent; or taking the whole number of vents in each branch 34 (including four under-sluice vents of 17 feet span) the total cost of fitting with shutters will be Rs. 68 × 4,000 = Rs. 2,72,000.

With the estimate now submitted the total cost of preparing the anicut for a maximum expected flood will be Rs. 2,72,000 + 108,220 = Rs. 3,80,220 which is Rs. 1,20,000 less than I estimated in 1892.

Enclosure.

Report to accompany the estimate for protecting the lower anicut across Coleroon.

	RS.
Amount of estimate	1,01,400

The estimate amounting to Rs. 1,08,220 provides for a line of wells 12 feet deep in front of the two branches of the anicut with a platform 30 feet wide and 3 feet thick as also for a second line of wells close up to the bridge and retaining wall. Both will very greatly strengthen the whole anicut, and when the shutters have been fitted to the vents to give additional waterway, there need not be the slightest fear of any possible flood that may occur.

The second row of inner wells will also permit of the shutters being placed in front of the bridge, which may be considered as far cheaper and safer than extending the piers down stream, which will necessitate taking up the rear apron to get down foundations for the piers.

The re-building of the superstructure of the anicut in front and the new proposed shutters will be dealt with hereafter.

It is considered that this estimate should be regarded as urgent and put in hand without the slightest delay. In order to lessen the amount of baling required, sand should be thrown into hollows, &c., where water is visible and the wells built and sunk through the sand banks thus formed.

No. 59 I.

Submitted to Government with a recommendation that the estimate as decreased in this office from Rs. 1,08,220 to Rs. 1,01,400 be sanctioned. The decrease is due to the reduction of the depth of the front wells from 12 feet to 9 feet.

2. It is considered that 30 feet is a sufficient width of apron.

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
Chief Engineer for Irrigation.

5th March 1896.

ORDER—No. 273 I., dated 21st March 1896.

The following estimate is sanctioned:—

Irrigation.
43. Minor Works and Navigation.
Minor Works for which Capital and Revenue Accounts are kept.
Lower Coleroon Anicut System.
Capital Account.
I. Head Works.
3. Works.
Improvements to Lower Coleroon anicut.

	RS.
I. Works	1,01,400
II. Establishment	23,322
III. Tools and plant	278
Total estimate ...	1,25,000

2. This sanction is registered as No. 215 I. of 1895–96.

3. The Superintending Engineer, V Circle, will apply, as early as possible, for the amount required for expenditure on the work during 1896–97, and he will see that arrangements are made for proceeding with the collection of the materials in anticipation of the formal appropriation of funds.

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Secretary to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, V Circle.
" " " VI "
" " " on Special duty,
with seven enclosures.
" Examiner, Public Works Accounts.
" Revenue Department.

Erd. Shaik Karim.

Spare Copies

A

No. 273. I d/21st march/96.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 7P

READ the following

Print with Report.

From Supt Eng on Special Duty, Cauvery Completion Estimates, No. 82 d/25 Feb/; No 59 I d/5.3.96 Submitted to Govt with a recommendation that the estimate as decreased in this office from Rs 108,220 to Rs 101,400 be sanctioned. The decrease is due to the reduction of the depth of the front wells from 12' to 9'.

2. It is considered that 30 feet is a sufficient width of apron.

Order thereon.

The following estimate is sanctioned.

Seen — I don't understand the matter —
WS
11/3/96

This work seems most important — Does the C. E. for I. see his way to getting it finished before the monsoon?

Yes
9 Mar
JG
12/3/96

Irrigation.

43. Minor works during

Minor works for which Capital & Rev. Accts are kept.

Lower Coleroon Anicut System.

Capital Account.

I. Head Work.

3. Works.

Improvements to Lower Coleroon anicut.

I. Works	101,400
II Establishment	23,322
III Work Plant.	278
Total Estimate	125,000

2. This sanction is acquainted as in 215 I of 1895-96.

3. The Supt Engr, Circle, will apply as early as possible for the amount required for expenditure on the work during 1896-97 & he will see that arrangements are made for proceeding with the collection of the materials in anticipation of the formal appropriation of funds.

Rec'd 5/3

4/3

DESPATCHED 27 MAR 96

To the Chief Engr for I.
Supt Engr V
Do VI
Do on special duty with Circle.
Sec to Govt
Rev Dept.

4/3

Irrigation.

43. Minor Works Navigation

Minor Works for which Capital & Rev. Accts are kept.

Lower Coleroon Anicut System.

Capital Account.

I. Head Works.

3. Works.

Improvements to Lower Coleroon anicut –

	Rs
I. Works	101,400
II Establishment	23,322
III Tools & Plant	278
Total Estimate	125,000

2. This sanction is registered as No. 215 I of 1895-96.

3. The Supt Engr, Circle, will apply as early as possible for the amount required for expenditure on the work during 1896-97 & he will see that arrangements are made for proceeding with the collection of the materials in anticipation of the formal appropriation of funds.

Rec'd 5/3

4/3

DESPATCH
27 MAR 96

To the Chief Engr for I.
Supt Engr V
Do VI
Do on special duty with Circle.
Sec to Govt
Revs Dept.

Irrigation.

43. Minor Works Navigation

Minor Works for which Capital & Rev. Accts are kept.

Lower Coleroon Anicut System.

Capital Account.

I. Head Works.

3. Works.

Improvements to Lower Coleroon anicut —

	Rs
I. Works	1,01,400
II Establishment	23,322
III Tools & Plant	278
Total Estimate	1,25,000

2. This sanction is registered as No. 215 I of 1895-96.

3. The Supg Engr, V Circle, will apply as early as possible for the amount required for expenditure on the work during 1896-97 & he will see that arrangements are made for proceeding with the collection of the materials in anticipation of the formal appropriation of funds.

Rued 5/3

4/3

DESPATCH
27 MAR 96

To the Chief Engr for I.
Supg Engr V
Do VI
Do on special duty with Irrig.
Sec to Govt
Rev Dept.

4/3

P. W. CURRENT No. 2327

~~Hon'ble Mr Hobhouse~~
~~Hon'ble Mr Grosvenor~~

Estimate for protecting the Lower Coleroon Anicut, both branches.

Encls 9 (4 plans)

Recd: 6.3.96

7.E.D.
20/3
UCU
21/3

Issue.

Recd
20/3

E. I. Form No. 1—500—14-5-95.

Enclosure

Report to accompany the Estimate for protecting the Lower anicut across Cole

Amount of Estimate Rs ~~108220~~ 101,400

The estimate amounting to Rs 10822 provides for a line of wells 12' deep in p of the two branches of the anicut with platform 30 ft wide and 3 ft thick and also for a second line of wells close up to the bridge and retaining wall. Both will very greatly strengthen the whole anicut and when the shutters have been fitted to the vents to give additional waterway there need no be the slightest fear of any possible flood that may occur.

The second row of inner wells will also permit of the shutter being placed in front of the bridge, which may be considered as far cheaper and safer than extending the piers down stream, which will necessitate taking up the pear apron to get down foundations for the piers.

The rebuilding of the superstructure of the anicut in front and the new proposed shutter will be dealt with hereafter.

It is considered that this estimate

should

should be regarded as urgent and put in hand without the slightest delay. In order to lessen the amount of baling required sand should be thrown into hollows or where water is visible and the wells built and sunk through the sand banks thus formed.

A. Smart Lt. Col RE
Superintending Engineer
on Special Duty
25. 2. 96

CHIEF ENGINEER
FOR IRRIGATION
24 FEB 96
No.

Recd 25/2/96

No. 82

Office of Superintending Engineer
Cauvery Completion Estimates
Janjee dated 25th February 1896

From:
A. W. Smart Lt. Col RE
Superintending Engineer
on Special duty

To
The Chief Engineer
for Irrigation
Madras.

Sir,

Enclos. 5.
1. Estimate Containing:
Report.
Detailed Estimate
Data.
Abstract.
2. & Plans.
sent separately

I have the honor to submit an estimate for Rs 1,08,220 for protecting the Lower anicut, both branches, in the way explained in the report and plans. In my opinion the work is of an urgent nature and should be put in hand this season. You are aware that the flood bank on the South side above the anicut has been completed in accordance with Mr Dobbs levels with the object that the river should take 300,000 cft per 1". Nothing however has been as yet done to increase the waterway of the Lower anicut, so that if we should have a flood of 300,000 cft a second it is quite possible and almost probable that the anicut will be breached.

breached. In my report on Mr. Lobb's proposals in 1892 I said as long as the anicut remains untouched the South bank of full section and height must be consider-ed as a menace to its safety" and Col Campbell in his note said "Consequently should a flood like that of 1858 occur and the embankment does not breach the anicut is almost certain to be carried away". The estimate I now submit is in my opinion absolutely necessary and there should be no hesitation in sanctioning it. I would leave for your consideration whether it would not be well to make the width of the platforms 50 ft instead of the 30 feet allowed, the extra 20 ft would cost Rs 28,000.

You will also see the great advantages that will accrue by placing the anicut in front of the bridge, where we shall obtain the full width of the piers to take the pressure of the proposed shutters. If the shutters that I am now designing turn out a success the cost with anicut rebuilt and 6 ft shutters will be Rs 4000 per vent; or taking the whole

Number

number of vents in each branch 34 (including four underslice vents of 17 ft span) the total cost of fitting with shutters will be 68×4000 = Rs 2,72,000.

2 P

With the estimate now submitted the total cost of preparing the anicut for a maximum expected flood will be 2,72,000 / 108220 } = = 3,80,220 which is 1,20,000 less than I estimated in 1892.

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

Lt Colkr

Superintending Engineer
on Special Duty

CHIEF ENGINEER
FOR IRRIGATION.
27 FEB. 96
No. 3380

From -

A. W. Swan. Lt Col RE
Superintending Engr
on Spl Duty

To

The Chief Engineer
for Irrigation
Madras.

No. 82

Dated 25th
Deptd 26th } February/96
Recd.

Encls. 5.

O.C.
2327

Lower Coleroon Circuit

Submitting for sanction an estimate for Rs 1,08,220 for protecting both branches of the