

Public Works (189) Department.

G.O., No.

746 9

DATED

2nd September 99

[Despatch Abstract.]

Tirukkoyilur Ancient, South Arcot St.

The estimate, amounting to Rs 10,800, for
improvements to the —, sanctioned —

78.8
11/9
24/9

Tirukkoyilur Anicut, South Arcot District
The estimate, amounting to Rs. 10,800, for improvements to the —, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—again the following paper :—

G.O., No. 308 I., dated 25th March 1899.

READ—also the following paper :—

From Colonel A. W. SMART, R.E., Superintending Engineer, V Circle, to the Chief Engineer for Irrigation, dated Chepāk, 27th July 1899, No. 272 E.I.

With reference to paragraph 22 of your notes of inspection, communicated with G.O., No. 308 I., dated 25th March 1899, I have the honour to submit for sanction of Government the enclosed plan and estimate, amounting to Rs. 8,750, with report, for improvements to the Tirukkóyilúr anicut in South Arcot.

ENCLOSURE.

REPORT to accompany the estimates for improvements to Tirukkóyilúr anicut, No. 150.

Amount of estimate	Rs.
...	8,750

These improvements, which were ordered by the Chief Engineer, consist of a line of deep wells placed 27 feet 10½ inches in front of the anicut for a length of about 150 feet from the undervents on the left flank and the space between covered with an apron of concrete 3 feet deep.

Wells.—The wells will be constructed (on strong curbs) of brick in mortar. Owing to the high spring water level of the river and to the uncertainty of the weather, the Superintending Engineer ordered that the mortar should consist of four parts of lime to one part of Portland cement, using one part of the mixture to two parts of sand, so that the wells may be sunk two days after completion. If it is found possible during construction, surki mortar will be used for some of the wells.

The wells are to be sunk 16 feet below the crest of the anicut or 12 feet below the rear apron, the tops being 7 feet below the crest.

When the work was started in May the spring water level was only 3 feet below the crest, and it is not likely to go lower than 4 feet below the crest. It will therefore be necessary to build up about 3 feet of temporary masonry over the tops of the wells and when they are filled with concrete it will be demolished and the retaining wall of burnt stone mortar will be built.

Some of the wells will therefore have to be sunk 14 feet.

The spaces between the wells will be filled to as great a depth as possible, but not less than 5 feet below top of wells with concrete in English cement.

At Shatiatope spaces filled by grouting with surki mortar through a pipe 9 feet long, afterwards jelly thrust in as far as it would go. The cement thus made is now said to be hard.

(Intld.) A.W.S.

9 feet below floor, or, if, as will probably be the case, the presence of stones render this impossible, a solid wall will be put in to as great a depth as practicable.

Retaining wall will be built of burnt stone in surki mortar.

Concrete will be of granite jelly in surki mortar of one lime, one sand, and one surki.

Contingencies.—Owing to the uncertain nature of the work, provision has been allowed for unforeseen works.

5th July 1899.

(Signed) C. A. SMITH,
Ex. Engr., South Arcot Divn.

No. 168 I.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, V Circle, submits an estimate of Rs. 8,750 for the improvements to the Tirukkóyilúr anicut, South Arcot district, suggested by the undersigned in paragraph 22 of the Inspection notes embodied in G.O., No. 308 I., dated 25th March 1899, with a view to stopping the leakages under the anicut. The estimate may be sanctioned.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

19th August 1899.

ORDER—No. 746 I., dated 2nd September 1899.

The following estimate is sanctioned :—

Irrigation.							RS.
43. Minor Works and Navigation.							
Minor Works for which Capital and Revenue Accounts are kept.							
Tirukkóyilúr Anicut System.							
Open Capital Account.							
I. Head Works.							
3. Works							
Improvements to the Tirukkóyilúr Anicut.							
Estimate—							
I. Works	..	...	...	...	...	...	8,750
II. Establishment	...	...	...	...	...	...	2,012
III. Tools and plant	...	...	...	...	...	...	38
Total	...	...	...	...	...	...	10,800

2. This sanction is registered as No. 59 I. of 1899–1900 and will expire on the 31st March 1901.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.

„ Superintending Engineer, V Circle, with five enclosures.
„ Examiner of Public Works Accounts.

Exd. T. K. Narayana Aiyangar.

Public Works (1899) Department.

CURRENT No. 7175

7469

Order

From The Chief Engineer

No. 1688

Dated 1-9-8-89

Received } 1-9-99
Registered }
Enclosures Plans - 13 total
 Others - 63 7
Spare copies.

SUBJECT.

Turukhoylas Amint - South
areot st. - Estimate of Rs 8750/-
for improvements to the
Recommend for sanction
the

cl/

pragatone.

BACK PAPERS.

FURTHER PAPERS.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

G. O. No 308. I. dated 25th March 1899.

Latter from the Sup^r Engineer 5th mile - No 272 E. d. 27th July/99
No 168 24th / 9th 8th 8th
- Note by the Chief Engineer for
Irrigation

4

Issue

W. Hughes

9

The Supp: Engineer, 5th Corps,
submits an estimate of
\$8,750 for the improvements
to the Trunkogilus ancient,
South Street district, suggest-
ed by the undersigned in
para 22 of the Inspection
notes embodied in G. O.

No. 308. I. dated 25th March
1899, with a view to stopping
the leakages under the ancient
The estimate may be sanctioned
No. 746 D. 2-9-88
Order thereon.

The following estimate is
sanctioned:—
Irrigation.

6.3.5

Wm. L. G. Co.

43. Minor works and Navigation.
 Minor works for which Capital and
 Revenue accounts are kept.
 Trunkoyilar ancient system.
 Open Capital account.
 I. Head works.

3. Works.

Improvements to the Trunkoyilar
 ancient

Estimate . . . I. Works . . . 8750.

II Establishment 2012

III Tools & plant. 38

Total. 10800

2. This sanction is registered
 as N^o 59 I of 1899-1900 and
 will expire on the 31st March 1901.

18/8
 18.

WH
 19.5.99

To, The Chief Engineer for Siam
 a Supp: do - 5th Circle
 with Enclosures
 " Examiner of P.W. Accounts.

5

Public Works (1899) Department.

CURRENT No. 415-A.

From The Supp Engineer
 5th Circle.

Order

No. 272 B.

Dated 27/28 July 1899.

Received } 29 do
 Registered }

Enclosures 6.

Spare copies

SUBJECT.

Trunkoyilar Ancient in
 South East.

Submitting for sanction
 of Government an esti-

mate of Rs 8750 for
 improvements to the

13/7/99

BACK PAPERS.

FURTHER PAPERS.

No.	Date.
Q188 ⁹	15-4-99

No.	Date.

288

Report to accompany the Estimate for
Improvements to Sirtkoilure ancient no 150

Amount of Estimate Rupees ⁸⁷⁵⁰ 8,700

These Improvements which were ordered by
the Chief Engineer, consist of a line of deep
wells placed 27'-10 1/2" in front of the ancient for a
length of about 150' from the undervents on the
left flank and the space between covered with
an apron of concrete 3' deep.

Wells- The wells will be constructed (on strong curbs)
of brick in mortar. Owing to the high
Spring water level of the river and to the
uncertainty of the weather the Suptg. Engineer
ordered that the mortar should consist of
4 parts of lime to 1 part of Portland cement
using 1 part of the mixture to 2 parts of sand,
so that the wells may be sunk 2 days after
completion. If it is found possible during
construction some mortar will be used for
some of the wells.

The wells are to be sunk 16' below the crest
of the ancient or 12' below the rear apron:
the tops being 7' below the crest.

When the work was started in May the
Spring

29 JUL 1899
1/41 8A

Spring water level was ~~only~~ 3 ft below
and it is not likely to go lower than 4' below the crest -
the crest. It will therefore be necessary
to build up about 3' of temporary masonry
over the tops of the wells and when they
are filled with concrete it will be demolished
and the retaining wall of burnt stone -
mortar will be built.

Some of the wells will therefore have to be
sunk 14' deep.

The spaces between the wells will be filled
to as great a depth as possible but not
less than 5 ft below top of wells with
concrete in English Cement.

The spaces between the wells will be further
stopped by Casuarina sheet piles on
both sides.

The wells in the return will be sunk to
the same depth as those under the body
wall i.e. to 9 ft below floor or if as
will probably be the case the presence of
stones renders this impossible, a solid wall
will be put in to as great a depth as
practicable.

Retaining wall will be built of Burnt
stone in Sunk Mortar.

at the back of the
spaces filled by
gravel with mortar
burnt stone
up to 9 ft high
afterward with
thrust in as far
as it would go.
The cement thus
made is very hard
to be hard.

Concrete will be of Granite Jelly in
Sunk Mortar of 1 lime, 1 sand and
1 Sunk

Contingencies - Owing to the uncertain
nature of the work provision has been
allowed for unforeseen works.

Alfred
Executive Engineer
South coast Dist.

No. 27282.

SUPERINTENDING ENGINEER'S OFFICE,

V Circle, Madras,

Chepakk, 27/28 July 1899.

From

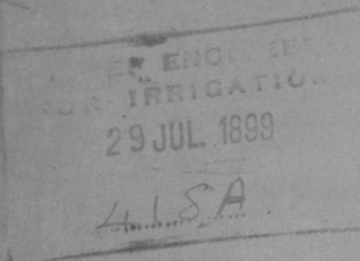
Colonel A.W. Smart RE

SUPERINTENDING ENGINEER,

V CIRCLE.

To

THE Chief Engineer
for Irrigation -



SIR,

Enclosures. 6

- 1 Plan ✓
- 1 Report
- 1 sketch
- 1 note
- 1 detailed estimate
- 1 abstract estimate

6

With reference to para 22 of your notes of inspection, communicated with G.O. No. 308 dated 25 March 1899, I have the honour to submit for sanction of Government the enclosed plan and estimate amounting to Rs 8,750/-, with report, for improvements to the Tirukkorkur ancient in South Arcot.

I have the honour to be,

Sir,

your most obedt. servant

A. W. Smart
Colonel RE

Supg. Engineer, V Circle

Ans 1
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