

Brundhoro 8 PWD 1892

Gonos 1367 to 1663

- (1) பக்கங்களின் எண்ணிக்கை 30
(2) புதுக்கித் திருப்பிய நாள் 7/91
(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 64

தமிழ்நாடு ஆவணக் கரீப்பகம்.

தமிழ்நாடு அரசு

PWD துறை

1

அரசாணை எண். 1367
மு. கோப்புத் தாள் எண்.

அச்சகம்
பலவகை

நாள் : 2-5-1892 198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

15 Sheets

ஆவண. கா-1-18,006-15-6-87.

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2ND MAY 1892, No. 1367 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers:—

Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 18th March 1892, Mis. No. 2752.

MR. CLOGSTOUN.

Read—again the following paper:—

Board's Proceedings, dated 26th February 1892, No. 2025.

Read—also the following paper:—

From R. SEWELL, Esq., Collector of Bellary, dated 15th March 1892, No. 1495-Ref.

With reference to the Proceedings of the Board of Revenue, Mis. No. 2025, dated 26th February 1892, I have the honour to state that the Alipur tank work has been included in the list of works selected by me for execution as relief works under section 35 of the Famine Code (my letter No. 1341, dated 6th March 1892).

2. The estimate sent by the Sanitary Engineer for Rs. 81,900, together with plans, * sections and a copy of his letter, No. 303, dated 12th February 1892, is herewith forwarded for favour of sanction of Government.

* Railway receipt will follow.

Resolution—dated 18th March 1892, Mis. No. 2752.

The estimate for enlarging the Alipur tank at Bellary will be submitted for the orders of Government with reference to Board's Proceedings, dated 26th February 1892, No. 2025. As far as can be at present judged, there appears to be no early likelihood of its being necessary to open a large relief work near the town of Bellary, but, if this should become necessary, the earthwork of Mr. Jones' project would form a most useful work.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

No. 1603, Revenue.

Transferred to the Public Works Department.

FORT ST. GEORGE,
23rd March 1892.

(Signed) R. H. CAMPBELL,
Ag. Assistant Secretary.

Note by the Chief Engineer, Public Works Department.

If the Sanitary Engineer has correctly calculated the increased capacity which will obtain by the extension proposed, the water-supply for the town of Bellary will be adequate for requirements in all but exceptional years of deficient rainfall.

2. The area of the waterspread is not given, nor the average depth, and there is nothing on record to show how the Sanitary Engineer arrived at his figures.

3. It may be noted that in his calculations as to the amount of rainfall that would be received into the tank, the Sanitary Engineer has assumed that for rainfalls aggregating 30", 8" and 14" per annum 30%, 8% and 14% of these falls would run into the tank.

4. The information given in the estimate and on the plans is not in sufficient detail to admit of a careful scrutiny being made.

5. There are no levels given in the sheet of cross sections and no sections of the ground are given with reference to the site for the proposed waste weir.

6. As regards the proposed embankment the top width of 16 feet seems to indicate that a road over it is contemplated. It is of much greater width than actually required for the safety of the bank, for which purpose nine feet would be ample.

7. The rear slope of $2\frac{1}{2}$ to 1 is also excessive, unless the soil is very bad.

8. The proposed arrangement of puddle wall is not a good one; the position is right, but its thickness should vary with the depth of water against it instead of being uniform throughout its height as shown on the drawings. It must also be borne in mind that a puddle wall in this position, though more effective than in the more usual position in the centre of the embankment, requires the greatest care in construction, and, unless constant and perfect supervision can be exercised, it is safer to put it in the centre.

9. If the contour of the tank has been correctly drawn, the site for the waste weir has not been well chosen. The water has not free access to it and it will probably be found necessary to cut away the high ground, which the contour indicates to be in front of the site. Of the rates which can be checked, some Rs. 6,500 can be saved by adhering to the rates at which similar work is turned out by the Public Works Department.

10. The undersigned considers that the project should be referred to the Superintending Engineer for his opinion. It is stated that the work is not likely to be required for relief purposes for some time and the Superintending Engineer will know what the circumstances of the tank are; in its present form the project cannot be approved.

MADRAS,
28th April 1892.

(Signed) J. PENNYCUICK, Colonel, R.E.,
Chief Engineer, P.W.D.

Telegram from the Collector of Bellary, to the Secretary to Government, Revenue Department, dated 26th April 1892.

Alipur tank improvement, part of Bellary water-supply project, included list famine works recorded in Government order, 1780, dated 4th instant, estimates submitted Board Proceedings 2752, dated 18th March, beg sanction and return estimates. His Excellency the Governor anxious start works 1st May.

No. 2143, Revenue.

Transferred to the Public Works Department for early attention.

FORT ST. GEORGE,
27th April 1892.

(Signed) R. H. CAMPBELL,
Ag. Assistant Secretary.

ORDER—dated 2nd May 1892, No. 1367 W., Public Works.

As the work is urgently required for relief purposes, the Superintending Engineer will be authorised by wire to start it at once, carrying out such modifications as he may deem necessary with reference to the note by the Chief Engineer. The Superintending Engineer will submit a revised estimate as soon as possible.

(True Extract.)

Major, R.E.,
Under-Secy. to Govt., P.W.D.

The Superintending Engineer, III Circle, with 7 enclosures.
" Examiner, Public Works Accounts.
" Local and Municipal Department.

Rev. 27th

Exd. A. D. Xavier.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1892} Madras.
PUBLIC WORKS.

Dated May, 2nd.

Recd.

Encl.

G.O., 2nd May 1892, No. 1367 W.

MAY.

Alipur Tank Improvements

Telegram to the Superintending Engineer,
III Circle, to start at once, as a relief work,
the — in the Bellary district with in-
structions to carry out such modifications as
he may deem necessary and to submit a
revised estimate.

Proceeding of the Board of Revenue.
(Settlement, Land Records & Agriculture)

Dated 18th March 1892.

No. 2752. (Mis.)

Mr. Clogston.

Read again B. P. dated 26-2-92, No. 2025.

the following letter from R. Sewell Esquire

Collector of Bellary, dated 15th March 1892

No. 1495. Ref.

With reference to the Proceedings
of the Board of Revenue No. 2025 Mis. dated
26th February 1892, I have the honor to state
that the Alipore tank work has been
included in the list of works selected by
for execution as relief works under Sec.
35 of the famine Code (my letter No. 1341
dated 6th March 1892).

2. The estimate sent by the Sanitary Engineer
for Rs 8,900 together with plans, sections
and a copy of his letter No. 303 dated 12th Feb-
ruary 1892 is herewith forwarded for favour
of sanction of Government.

Resolution. The estimate for enlarging
the Alipur tank at Bellary will be submitted
for the orders of Government with reference
to Board's Proceedings dated 26th February 1892,
No. 2025. As far as can be at present judged,
there appears to be no early likelihood
of its being necessary to open a large relief

near the town of Bellary, but if this
become necessary, the earth work
Mr. Jones's project would form a most
useful work.

True copy & Extract/

/Signed/ P. Rajaratnam
Secretary

1367
4

To
The Secy to Govt. P. S. with enclosure
copy to the Collector of Bellary.

(True copy)

P. Rajaratnam

Asst. Secy to Govt.

5/1
3/20/54

(1892)

REVENUE DEPARTMENT.

ABSTRACT.

Current Number 2684

From

The Board of Revenue
(Revenue Settlement)

*Report on the site of the
Public works Department.*
Transferred to the
Public works Department.

*For the Board of Revenue
23rd March 92 S. Ag. Secy.*

Encls 8 (3 plan)

Recd: 25-3-92

Dated 18th March 92

Received 21st March 92

Enclosures 4

No. 275 sub.

SUBJECT.

Submitting for
the orders of Government
with BDD remarks the
estimate for enlarging the
Ship tank at Bellary.

Undersecretary

M

tank has been correctly
drawn, the site for the
waste weir has not been
well chosen. The water
has not free access to

it and it will probably prove
necessary to cut away the high
ground, which the
contour indicates to be
in front of the site. If
the rates which can be
checked, some Rs 6500
can be saved by adhering
to the rates at which
similar work is turned
out by the P.W. Dept.

10. The undersigned
considers that the project
should be referred
to the Supt. Engr.
for his opinion.

the Collector of Bellary

1st April 1892
to Government, Revenue Dept.

part of
the project included
is recorded in Government
4th Instant estimates
Proceedings p 275-2

by Sanction and return
of the Government

126/9

(1892)

REVENUE DEPARTMENT.

Current Number 2684

From

The Board of Revenue
(Revenue Settlement)

Encls 8 (3 plan)

Rev. 25.3.92

Dated 18th March 92

Received 21st

Enclosures 4

No. 2759

SUBJECT.

Madras.

Submitting for April 28, 1892

The orders of Government
with BDD remarks to
estimate for enlarging
slip tank at Bella

and adjacent

stated that the
work is not likely to be
required for relief
purposes for some time.
And the Supt. Engineer
will know what the
circumstances of the
tank are; in its present
form the project
cannot be approved.

Chief Engineer

5. There are no levels
given in the sheet of
cross sections, and no
sections of the ground
given with reference to
the site for the proposed
waste weir. 1367/6
6. As regards the
proposed embankment
the top width of 16
feet seems to indicate
that a pond over it
is contemplated. It is
of much greater width
than actually required
for the safety of the
bank for which purpose
nine feet would be
ample.

The rear slope of
1 1/2 to 1 is also excessive
unless the soil is very
bad.

The work

the Collector of Bellary

26th April 1892

to Government, Revenue Dept.

approval of

project included

As recorded in Government

4th Instant estimates

Proceedings 2752

by Sanction and return

of the Government

May

1367/9

P. W. CURRENT No. 3204

(1892)

REVENUE DEPARTMENT.

Current Number 2684

From

The Board of Revenue
(Revenue Settlement)

Encls 8 (3 plan)

Recd. 25.3.92

Dated 18th } March 92

Received 21

Enclosures 4

No. 2752

SUBJECT.

Submitting for
The orders of Government
with BDD remarks to be
estimate for enlarging
Alipur tank at Bella

Undersecretary

arrangement of puddle
at wall is not a good one;
with the position is right,
but its thickness should
vary with the depth
of water against it instead
of being uniform
throughout its height
as shown on the drawings.
It must also be borne
in mind that a puddle
wall in this position
though more effective
than in the more usual
position in the centre
of the embankment,
requires the greatest
care in construction,
and unless constant
and perfect supervision
can be exercised it is
better to put it in the
centre of the
contour of the

Telegram from the Collector of Bellary

Dated 26th April 1892

To the Secretary to Government, Revenue Dept.

Alipur tank improvement part of
Bellary water supply project included
list famine works recorded in Government
Order 1780 dated 4th instant estimates
submitted Board Proceedings 2752
dated 18th March by Sanction and return
estimates His Excellency the Governor and
start works 1st May

C. No 3204

P. W. DEPARTMENT 4517
(1892)

REVENUE DEPARTMENT.

Current Number 8838

From J. L.
The Collector of
Bellary

ABSTRACT.

Endorsement no: 2143, per

Transferred to the

for early attention

as a matter of

For sanction
27th April 1902

Recd: 28.4.92

Dated 26th April

Received 26th April

Enclosures

No.

SUBJECT.

Requesting sanction and
return of estimates of
Alipar tank included in
list of famine works
recorded in P.O. of 6th April
1892 No. 1780.

Endorsement

No. 2642422-8-66
- 9245-4-4-89
- 9563-12-11-81
- 109-6-1-81
- 2399-14-4-8
- 36095-4-0-
- 10950-5-3-
- 13175-17-5-
- 52029-29-10-
- 7455-7-3-
- 9145-11-3-
- 11885-9-4-
- 11375-6-4-
- 56380-14-12-
- 34295-12-12-
- 57420-18-1-
- 1335-15-
- 2200-22-

Public Works Department.

Current No. 3204.

Letter No. 1603.

Dated 25 March 1892

From the Revenue Dept.

TECHNICAL NOTE.

Improving and extending Alipar
tank at Bellary.

Amount of estimate Rs 81,900

This estimate has been framed
by the Sanitary Engineer to Govt with
reference to water supply
scheme for Bellary town. It
provides for improving and ex-
tending the Alipar tank bund
at Bellary at a cost of Rs 81,900
for the present.

The amount of the estimate
is made up as follows:-

Raising & strengthening bund Rs 15,442.
Forming new bund 33,000
Constructing culverts 2,678
Contingencies & Petty expenses 10,680
Total Rs 81,900

The existing tank is situated to
receive a supply from a drain
of area of 11.8 Sq miles. It is
proposed to enlarge this tank by
bringing up the low ground to the

west end for a length of 6,000 feet
so as to increase the catchment
area of the tank by 8 Sqr miles, making
in all a total drainage area of
19.8 Sq miles.

Considering the proximity of the
hills near the tank a coefficient
of 675 is assumed in calculating
the discharge of the proposed basin
of 19.8 Sq miles which will be
 $675 \sqrt{19.8} = 4,941$ cfs per second &
the required length of flush is:
= Cape (as designed) to discharge
this quantity with a head of 3
feet will be 343 feet.

The existing tank has a rim:
plus at the west end of the tank
bund and as this portion of the
bund together with the surplus
area is to be abandoned & removed
a new flush escape of 360 feet
is estimated for to be constructed
in the proposed new bund, which
length may be considered as
sufficient.

The estimate provides for
raising the bund 3 feet above
M.W.L. with a top width of 16 feet
& sides slopes 1 to 1 for the front
& rear the whole height of the
bund is 3 feet above M.W.L. &
1 1/2 feet thick together with a puddle
thickness of 4 feet thick up to the top
& the rear slopes 2 1/2 to 1 & banded
to the length. The top of bund

* & banded with gravel 1 1/2" thick

- not being gravelled to a width
12 feet with 2" gravel.
- The following particulars have
been gathered from the report &
details of the tank bund &
area of existing catchment basin 11.3
2. — do — proposed — do — 8.5
3. Total area of Catchment basin 19.8
Sq miles
4. Maximum flood discharge from basin
4,941 cfs per second
5. F.T.L. ————— + 57.00
6. M.W.L. ————— + 60.00
7. Proposed top of bund — + 63.00
8. Width of outlet in crest — 3 feet
9. Proposed length of surplus 343 feet
but provision is made for 360 ft.
10. Front slopes of bund — 1 to 1.
11. Rear slopes of bund — 2 1/2 to 1.
12. Side of bund's chine — + 30.53
only one chine shown on the tank.
13. Area of water spread at
F.T.L. as given in the
report for the intended
tank 477 acres — } 20,778,20
Sq ft.
14. Capacity of tank — 183 millions
of cfs.

The Sanitary Engineer calc:
= calculates that the intended tank
will contain 15 months supply
of drinking water for a population
of 60,000 people at Nallur
at 15 gallons per head per diem.
& submits a date showing
famine labor that may be
estimated

employed on the work of improving the bank lines for 3 months.

The proposed bank appears to be unnecessary, it is a top width of 16 feet & with side slopes of 1 1/2 to 1. The bank is proposed to be built up to the top of bank this it is thought will be very expensive one foot above M.W. & may be considered as a pile, no provision is made for excavating a channel for the surplus to pass out over for any culvert to pass the surplus under the roadway also for running the west end of the existing bank with its surplus water. 2" of gravel is provided on the top of bank for a width of 12 ft. This appears to be unnecessary.

The rates as far as can be checked are fair & the following are in excess of the Schedule rates.

Drainage & dressing slopes	Schedule	Actual
Puddle work	1.80	1.60
Bank line in settlement	5.00	3.80
Do in open	7.00	3.12

If Schedule rates are adopted the saving will be Rs 6443.

Contingencies & petty expenses are charged at 15%. This charge appears to be heavy, 5% for Contingencies & 2 1/2% for petty expenses may be fair, no definite orders are laid down.

Endorsement

done in the Code regarding changes under petty supervision.

The estimate has been countersigned by the Collector & the papers are transferred to the P.W.D. by the Rev Dept.

The Board of Rev in Proceeds: Rs 2752 of 18th inst. is made as follows:-

As far as can be ascertained, there appears to be no early likelihood of its being necessary to open a large wharf work near the town of Bellary, but if this should become necessary, the construction of Mr. Jones project would form a most useful work.

The bank appears to be no the surplus across the line of railway.

Read the following:-

Endorsement by the Revenue Dept No 1603 d/23. iii. 92
Note by the Chief Engineer P. W. D. dated 28. iv. 92.

FOR ORDERS.

1367/12

Authentic duplicate of the original should be sent to the P.W.D. for their use. The original should be retained in the P.W.D. office.

Since the above note was written, the accompanying telegram from the Collector of Bellary has been received through the Revenue Dept. It will be seen that it is now proposed to start the work at once.

S
28.9

LS

Telegram

Ordinary

S. E. III Caste.

Bellary.

136/13

Alipur Tank

improvements should

be started at once.

as a relief work.

Detailed

Orders follow.

(s) O.V.B.

desp 29. 11. 92

V. S. S. S. S.

He

N^o 1307W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

May 2^d 1892

Read the following

Endorsement by the Secy. Dept. (H.E. N^o 1603 d/23.iii.92)
Note by the Chief Engr. P.W.D. (d/28.ii.92)
Telegram from the Colly Bellary (d/26.ii.92)
Endorsement by the Secy. Dept. (N^o 2143 d/27.ii.92)

10 P.M.

(Tel. dept 29.4.92)

1367/4

As the work is —
urgently required
for relief purposes, the
Supt. Engineer will
be authorised by
wire to start it at
once, carrying out
such modifications
as he may deem
necessary with
reference to the
note by the Chief
Engineer. The Supt.

Endorsement

1/16

Engineer will submit
a revised estimate
as soon as possible

S
25

S
2

S. E. III. (info with
enclosure)

Ex. on Acc. 10/1/54

Still dep. 10/1/54
Rev. Dept.

Under review

He

15

3204
Govt. of Madras.
PUBLIC WORKS.

1365
15

May 1892, No. 1367/M

For Tank improvements

to the Supg. Engineer

to start at once,

as a rule work the

in the Mary D., with

instructions to carry out

modifications as he may

deem necessary & to submit

a return estimate.

15

70
4

1537 } W
1537 }

3/5

J.C. 3/5

MAJOR KENNEDY

M