

- (1) பக்கங்களின் எண்ணிக்கை 26
 (2) புதுக்கித் திருப்பிய நாள் 11-5-89
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 609

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P. W. D. துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	442 W	அச்சகம் பலவகை
நாள் :	11. 2. 1890	1989

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

Proceedings of the Board of Revenue (Separate Revenue), dated 14th October 1889, Mis. No. 3602.

Read—the following letter from W. A. HAPPELL, Esq., Acting Collector of Tanjore, to the Secretary to the Commissioner of Salt, Abkari and Separate Revenue, dated 2nd October 1889, No. 684:—

I have the honor to forward herewith, for sanction of Government, a plan and estimate (amounting to Rs. 6,000) received from the Superintending Engineer, VI Circle, for constructing a masonry dam across the Valavanar, as ordered in G.Os., Nos. 323 I., dated 8th July 1889, Public Works, and 4474, Revenue, dated 18th July 1889.

Endorsement on the above by the Deputy Commissioner of Salt and Abkari Revenue, Southern Division, dated 4th October 1889, No. 3211.

Submitted to the Commissioner of Salt, Abkari and Separate Revenue, with reference to Board's Proceedings, Mis. No. 2765, dated 5th August 1889.

Resolution—dated 14th October 1889, Mis. No. 3602.

The estimates and plans, received with the letter read above, will be submitted to Government for sanction, with reference to G.O., No. 323 I., dated 8th July 1889, communicated in G.O., dated 18th July 1889, Mis. No. 4474, Revenue.

2. The cost of the above work has been shown in the statement of salt works proposed for entry in the Public Works budget, submitted with the Board's Proceedings, dated 20th September 1889, Mis. No. 3260.

(A true Copy and Extract.)

(Signed) HERBERT BRADLEY,
Secretary.

No. 7152, Revenue.

Approved and transferred to the Public Works Department.

Fort St. GEORGE,
6th November 1889.

(Signed) J. GROSE,
Ag. Secretary to Government.

Office note from the Chief Engineer for Irrigation, dated Madras, 23rd November 1889, No. 336.

[Your endorsement No. 5308-C., dated 15th November 1889.]

The co-efficient 300 adopted by the Superintending Engineer with Ryves' formula is too small; at least 450 should be taken, which will give a discharge of 5,265

cubic feet per second, equalling rather less than 5 inches in depth in 24 hours over the whole area. This will require 26 vents* (11 more than proposed) which will not cost much extra.

* Assuming backwater against the vents to half their height.

2. A fall of 10 inches in an hour may sometimes occur, and, as the basin is small, leave all to be dealt with at that rate; this will give 10,755 cubic feet per second, leaving, say, 5,500 cubic feet per second to go over the top of the dams; this will give a depth over of, say, 3 feet. The banks therefore on either side should be at least 6 feet above top of dam and the wings should go up to that height: the lowering flood-banks as they approach masonry works (as shown on the plan) is not allowable, for breaches at such places do more damage than elsewhere.

3. There will doubtless be backwater on the aprons when the weir is discharging but even then there will be considerable disturbance, and the single block aprons will not stand; the first one should be concrete 3 feet thick, the second one two thicknesses of blocks with sheet piling 8 feet deep, and a talus of rough stone or random blocks beyond, an apron of at least 4 feet wide will also be required on the land side of the work.

Memo. No. 5608-C.

The plans and estimates for a masonry dam across the Valavanar are returned to the Superintending Engineer, VI Circle, for revision in accordance with the suggestions of the Chief Engineer for Irrigation recorded in the note read above.

CHEPÁK, (Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
29th November 1889. Ag. Joint-Secy. to Govt., P.W.D.

From Lieut.-Colonel A. C. SMITH, R.E., Superintending Engineer, VI Circle,
to the Chief Engineer, Public Works Department, dated Trichinopoly,
18th January 1890, No. 2258 T.J.

With reference to your memo. No. VI/5608-C., dated 29th November 1889, I have the honor to submit, for sanction, revised estimate of Rs. 8,780 for constructing a dam across the Valavanar in the Negapatam division.

2. The estimate has been revised in accordance with the instructions given in the office note of the Chief Engineer for Irrigation, No. 336, dated 23rd November 1889, which accompanied your memorandum above quoted and in his memo. No. VI/109 T.J. of 19th December 1889.

3. As the head going over the dam has been reduced by the Chief Engineer for Irrigation to $2\frac{1}{2}$ feet, the height of wings is proportionately reduced. The margin between M.W.L. and top of wings, however, remains the same as per his instructions, i.e., 3 feet.

No. 5 W.

I think the plan may now be approved; the wing walls, however, are somewhat slight. Two feet thick at top with batter 1 in 6" will not be too much.

CHEPÁK, (Signed) G. T. WALCH,
31st January 1890. Chief Engineer for Irrigation.

ORDER—dated 11th February 1890, No. 442 W., Public Works.

The estimate, amounting to Rs. 8,900, for constructing a dam across the Valavanar in the Tanjore district is sanctioned for execution when funds are available.

2. Attention is drawn to the note by the Chief Engineer for Irrigation, No. 5 W., dated 31st January 1890, above recorded.

3. This sanction has been registered as Imperial No. 36 W. of 1889-90, and classified as Civil Buildings (Salt), Original Works.

(True Extract.)

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

To the Superintending Engineer, VI Circle,
with five enclosures.
" Examiner, Public Works Accounts,
with duplicate abstract estimate.
" Chief Engineer for Irrigation.
" Revenue Department.

Exd. J. Mosca.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1890) Madras.

PUBLIC WORKS.

Dated February, 11th.

Recd.

Encl.

G.O., 11th Feb. 1890, No. 442 W.

FEBRUARY.

Dam across the Valavanar,
Tanjore District

Estimate, amounting to Rs. 8,900, for
constructing a —, sanctioned.

3
PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

From the Dypty. Engineer to Govt. No: 16007 J.
dated 16th October 1889 stating that the
estimate and the plan for the construction
of masonry dam across Valavanar have
been already forwarded to the Collector of
Tanjore for submission to Government.

Order thereon. No: 3007 W of Oct 22nd 1889

The receipt of the plan &
estimate from the Revenue Department
will be awaited.

/ True Extract /

W. B. Baidyan

Capt. W. B. B.

Under Secy to Govt. P. W. D.

To

The Revenue Department.

Ref. No. 113

(1889.)

REVENUE DEPARTMENT.

No. 8341

From Public Works Dept.

Dated 22. 11. 89.

Received 27. 11. 89.

Enclosures -

No 50074

SUBJECT.

Stating that the receipt of the plans and estimates for the construction of a masonry dam across Valavanat forwarded to the Collector of Tanjore will be awaited from the Revenue Department.

Co. 18-7-89 No 4474
20-6-89 No 516
13-3-89 No 1595

ABSTRACT.



No. 5308 C 4/15 Nov. 1889

To

J

2265

This estimate was called for in G.O. No. 323 J of 8-7-89, but as the work will be included in the Imperial Civil Works Budget for 1890-91, the sanction should be given and registered in the General Branch.

2. If the plan and estimate meet with your approval, please return them for disposal.

Wm

Recd 14.11.89

Wt

When will be paid

all

1890

W. A. 1866
(1889. 8248)

REVENUE DEPARTMENT.

No. 3150

ABSTRACT.

From The Board of Revenue (S. R.)

Read also G.O. 3341 (G.O. 3007 W. d. 22)
October 1889)

Endorsement of 11/10/89

Approved and transferred

to the Public Works Department.

Dated 11/10

Received 20/10

Enclosures 1

No. 3602 m. l.

SUBJECT.

Submitting to Government
for sanction plans and estimates for
constructing a masonry dam across
the Valavannar.

To the Hon. Secy. of Pub. Works
with 1/10/89



Proceedings of the Board of Revenue

(Separate Revenue).

Dated 14th October 1889.

No. 3602, m. l.

READ

the following letter from W. A. Happell Esquire, Acting
Collector of Tanjore, to the Secretary to the Commissioner
of Salt Akhari and Separate Revenue, dated 2nd October 1889,
No 684:-

I have the honor to forward herewith, for
sanction of Government, a plan and estimate (amounting
to Rs 6000) received from the Superintending Engineer
VI Circle for constructing a masonry dam across the
Valavannar, as ordered in Government orders Nos 323.
8.7.89

J. W. and 1474 Rev
18.7.89

Endorsement on the above by the Deputy Commissioner
of Salt and Akhari Revenue, Southern Division, dated
4th October 1889. No 321.

Submitted to the Commissioner of Salt
Akhari and Separate Revenue, with reference to Board's
Proceedings No 2765 m. l. dated 5th August 1889.

Resolution.

Resolutions.

The estimates and plans, received with the letter read above, will be submitted to Government, for sanction, with reference to Government order No 323. I. dated 8th July 1889 communicated in Government order dated 18th July 1889. No. 4474
Mrs. Revenue.

2. The cost of the above work has been shown in the statement of salt works proposed for entry in the Public Works Budget, submitted with the Board's Proceedings dated 20th September 1889. No 326. No. 27767W 4402
Min.

(True copy and Extract)

Wm. D. Dudley

Secretary.

To

The Secretary to Government, Revenue Department with 2
Estimates and plans for sanction.

- " - Collector of Tanjore.

- " - Deputy Commissioner, Southern Division.

Wm. D. Dudley

5608C
11248C

On

For orders
whether the plans
estimates, with
copy of S. D. I. will
may be sent
to the S. D. II
Circle for
revision.

C.
26.11.89

Per.

Wm. D. Dudley
27.11.89

Resolutions.

No. 5608 c d 29 Nov 1889
P.W.S.

③

14

Memorandum

Extract from the Revenue Dept. No. 7152 d 16. 11. 89
Office note from the C.E. No. 336 d 23. 11. 89

The plans and estimates for a masonry dam across the Valavanar are returned to the S. E. VI Circle for revision in accordance with the suggestions of the Chief Engineer for Irrigation recorded

in the note read
above.

Wm
27. 11. 89

Qued
27. 11. 89

- No. 5308C/15-11-89
- " 30074 - 22-10-89
- " 2776-74 - 4-10-89
- " 2598-74 - 17-5-89
- " 6248 - 6-8-89
- " 6008 - 31-7-89
- " 5848 - 25-7-89
- " 3389c - 25-7-89
- " 3239 - 8-7-89

No. 5608C/29 Nov 1889

S.E. VI (mile)

with copy of note from
the C.E. & S.

82/12

E. I. Form No. 31-F.

GOVT.
OF MADRAS.

188

(P. W.)
(DEPT.)

CHIEF ENGINEER FOR IRRIGATION.

Madras,

23/11 1889

OFFICE NOTE.

NO 336

Circulation Register.

To	From	Despatch Date.	Receipt Date.
W	J		16. 11. 89

KEEP-WITH.

No.

dated

18

④ assuming backwater
against the vents to half
their height.

Your Release - 5308.C
15/11/89 -
The Coeff 300 adopted
by the L.E. with the
formula is too small, at
least 450 should be taken
which will give a discharge
of 5265 cfs per second
- rather less than 5"
in depth in 24 hours over
the whole area. This
will require 268 vents/11
more than proposed, which
will not cost much more.
A fall of 10" in an hour
may sometimes occur, &
as the basin is small,

Ans: all to be dealt
 with at that rate;
 This will give 10755
 cft per second leaving
 say 5500 cft per second
 to go over the top of the
 dam; this will give
 a depth over of say 3
 feet - the banks on either
 side should be
 at least 6 feet above
 top of dam and the
 drains should go up to
 that height, the lowering flood-
 banks as they approach
 masonry works (as
 shown on the plan) is
 not allowable, for
 bracks at such places
 are do more damage
 than shown -
 (3) There will doubtless
 be backwater on the apron
 when the weir is discharging
 but the water will
 be considerable disturbance
 & the single block apron
 will not stand; the first
 one should be concrete
 3' thick - the 2nd one the
 thickness of blocks
 with steel piling 8' deep.
 & a series of rough stone
 or random blocks beyond;
 an apron of at least 10' wide
 will also be required on
 the land side of the work.
 G. P. M.

Trichinopoly 18th January 1889

No. 225872

From Lt. Col. H. C. Smith R.E.
 The Superintending Engineer,
 6th Circle.

To The Chief Engineer
 G. P. M.

Sir,

ENCLOSURES. 5

- 1. Plan
- 1. Survey
- 1. Estimate
- 1. Report
- 1. Duplicate of last

With reference to your
 Memorandum No. 5608C dated 29th
 November 1889. I have the honor
 to submit, for sanction, revised
 estimate of Rs 8780 for construct-
 ing a Dam across the Valavanar
 in the Nagapattam Division.
 2 The estimate has been
 revised in accordance with the
 instructions given in the office
 note of the Chief Engineer for
 Irrigation No. 336 dated 23rd November
 1889

1889 which accompanied your
Memorandum above quoted and in
his Memorandum No. $\frac{VI}{109 TS}$ of 19th December
1889.

3 As the head going over the
Dam has been reduced by the Chief
Engineer for Irrigation to $2\frac{1}{2}$ feet;
the height of wings is proportion-
ately reduced. The margin between
M.W.L and top of wings however remains
the same as per his instructions i.e. 3 feet.

I have the honor to be
Sir

Your most obedient servant

A. Smith At. Genl. P. & Co.
Superintending Engineer VI Circle.

1204
P.W.D. 5608

P. W. D. 6th CIRCLE.

No. 5608 of 29-11-89

3239-8-7-89

From

The Superintending Engineer,

6th Circle.

To

The

No.

Dated

Received

188

Enclosure.

No. 398. C of 22nd Jan'y/90

To S.I.

For favour of
remarks with reference to
your office note No. 336
of 23rd November/89.

W
21.1.90

60

W
No. 5608 of 29-11-89
21.1.90

I think the plan may be approved by the Supt. Engr.

From

The Supt. Engineer
11 Circle

To

The Chief Engineer
P.W.D.

No. 225878

Dated 18th 2 January 1890.

Depo 10 3

Recd 26-2-90

Encls 5 including plan

Submits for sanction
revised estimate of Rs 8700
for constructing a dam
across the Valavanar in
the Negapatnam Dist. —

12.1.90
16.1.90

To

B.P.R.
works.
PUBLIC WORKS DEPARTMENT.

(12)

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Proceedings of the Board
of Revenue. No. 3602 of 14th Oct 1889.
Endowment thereon in
the Revenue Department No. 7152 of 6th Nov 1889.
Office note from the Chief
Engineer for Irrigation. No. 336, of 23rd Nov 1889.
Memorandum in the P.
Department. No. 5608 of 29th Nov 1889.
From the Supt. Engineer
11 Circle. No. 2258 of 18th Jan'y 1890.
Office note from the
Chief Engineer for Irrigation. No. 560 of 31st Jan'y 1890.

8th The estimate
amounting to Rs 8700
for constructing a dam
across the Valavanar
in the Tanjore district
is sanctioned for
execution when funds
are available.

2. Attention is
drawn to the ^{note by} ~~report~~
from the Chief
Engineer for Irrigation
No. 560 of 31st Jan'y 1890,
above recorded.

3. This sanction
has been registered as
Imperial No 36 W of
1889-90, and classified
as Civil Buildings (Saco),
Original works.

Mem
7.2.90

Rev
7.2.90

2.
The Supy Engr & Secy
with 5 enclosures.
Examine P.W. accounts
with duplicate abstract
estimate.
Chief Engr for Irrigation.
Revenue Department.

1206.

Govt. of Madras.

PUBLIC WORKS.

13/11/90

11th July 1900 No. 442 W.

Dam across the
Valavanur
Sanjou District.

Estimated amount
Rs 8700 for causts
a —————

120
6