

(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.

B.P. No.

Press

Mis.

Dated

26-4-

1876.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
26th April 1876.

No. 367. Read the following endorsement of the Deputy Chief Engineer for Irrigation, dated Fort St. George, 16th April 1876, No. 39 W. —

From J. W. RUNDALL, Esq., District Engineer, Tinnevely, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Palamcottah, 29th April 1875, No. 24.

I HAVE the honor to forward herewith plan, estimate, and specification for the Nathyunni Channel head-sluiice for in G.O., No. 256, dated 29th January 1875.

- 1 Plan.
- 1 Estimate of Rupees 2,100.
- 1 Sketch showing the site of Nathyunni Anicut. 1875.

2. There are no tanks under this channel; I have allowed for a maximum discharge of about 4 cubic yards per acre per hour. The anicut is not as you are aware water-tight, and when the river is low the bulk of the water passes through it.

3. * Out of the 2,312 acres irrigated by the Nathyunni Channel, 886 acres are in the Urkad Estate. I have therefore requested the Collector to inform me whether a proportionate share of the cost of this work (and of the anicut restoration also) should not be borne by this estate. I have not yet received a reply.

4. I do not, however, recommend that this work be carried out or commenced this year; for, although Rupees 5,000 are allocated to it in the Budget, * it would be better to transfer this amount to the Paulicu and Kodagan sluices as recommended in my letter, No. 3, dated 5th instant.

CAPITAL—ORDINARY.

TAMBRAPORNEY IRRIGATION, SUTTAMALLI SECTON.

ABSTRACT ESTIMATE, No. , of 1875-76, CLASS II.

Tinnevely District, Tinnevely Taluq.

WORK.—Constructing a head-sluiice for the Tinnevely Channel.

	Extent, Acres.	Assessment, Rupees.
Channel and Tank irrigation	5,345	65,502

Quantities.	Description of Work.	Rate.			Amount.			Total.
		RS.	A.	P.	RS.	A.	P.	
258½	Cubic yards of concrete hydraulic mortar	3	8	0	904	12	0	9,550
145½	Do. of brick in do.	5	8	0	801	10	0	
361½	Do. of brick in mortar	5	0	0	1,809	6	0	
123½	Do. of cut stone in do. and pointed with Portland cement	21	8	0	2,655	4	0	
7½	Cubic yards of cut stone for coping	27	0	0	191	1	0	
44½	Do. of arch work, including centring.	6	8	0	286	13	0	
41½	Squares of pointing	4	0	0	167	0	0	
28½	Cubic feet of vengai wood wrought and put up.	3	8	0	99	12	0	
6	Teakwood shutters with angle iron, &c.	200	0	0	1,200	0	0	
120½	Cubic yards of loose rough stone	2	0	0	241	8	0	
	Excavating foundation and filling in				250	0	0	
	Temporary embankment				200	0	0	
	Baling				300	0	0	
	Scaffolding, sundries, and contingencies				439	14	0	

Proceedings of the Madras Government, Public Works Department,
26th April 1876.

Quantities.	Description of Work.	Rate.			Amount.	Total.
		RS.	A.	P.	RS. A. P.	RS.
<i>Embankment.</i>						
7,862	Cubic yards of earth for river bund ...	0	1	6	737 1 0	
12,367	Do. of earth for road to Suttamalli ...	0	4	6	3,478 3 6	
145	Do. of gravelling, old ...	0	4	0	36 7 4	
145	Do. of do., new ...	0	8	0	72 14 8	
	Compensation for 1 $\frac{1}{2}$ th acres, nunjah ...	660	0	0	1,125 0 0	
	Tamping earth, spreading and rolling gravel, sundries, and contingencies ...				260 5 6	
						5,710
<i>Appendix No. 1.</i>						
	Lengthening a culvert at 110 feet ...	80	0	0	80 0 0	80
<i>Appendix No. 2.</i>						
	Rebuilding a culvert at 750 feet					
	Cubic yards of rough stone in hydraulic mortar ...	3	8	0	271 11 0	
	Cubic yards of brick in mortar ...	5	0	0	201 4 0	
	Do. of cut stone do. ...	18	0	0	24 12 0	
	Do. of arch work ...	6	0	0	80 4 0	
	Squares of pointing ...	4	0	0	29 8 0	
	Cubic yards of rough-stone packing ...	2	0	0	13 0 0	
	Cubic feet of vengai wood ...	3	0	0	36 12 0	
	Sundries ..				25 13 0	
						689
<i>Appendix No. 3.</i>						
	Lengthening a culvert at 1,700 feet ...	50	0	0	50 0 0	50
<i>Appendix No. 4.</i>						
	Lengthening a culvert at 1,917 feet ...	50	0	0	50 0 0	50
	Superintendence at 2 $\frac{1}{2}$ per cent. ...					400
	Total Estimate ...					16,520

PALAMCOTTAH,
10th March 1876.

(Signed) W. HUGHES,
Asst. Engineer in charge No. 2 Range.

(Signed) J. D. GRANT,
Offg. District Engineer, Tinnevely.

SENT TO Government.

In G.O., No. 481, of the 18th February 1875, an estimate, amounting to Rupees 11,100, was sanctioned for constructing a head-sluiice to the Tinnevely Channel which is supplied by the Suttamalli Anicut on the Tambrapoorney.

2. This head-sluiice, like several others for which revised estimates have had to be sanctioned, was originally designed on inaccurate information as to maximum flood level in the river, and on the 17th January last the District Engineer reported that the height of the work was insufficient, and he proposed certain modifications of

No. 121.

Proceedings of the Madras Government, Public Works Department,
26th April 1876.

arrangement to adapt the altered sluice the better to the foundations which had already been laid. Certain instructions were given and a revised estimate has been submitted.

No. 99, 25th January.

3. The amount of this estimate is Rupees 16,520, or Rupees 5,420 in excess of the sanctioned estimate. The addition to the cost of the sluice itself is small, viz., Rupees 200; but the necessity for making the flood bank in connection with it higher and longer, together with the circumstances of the ground on which the embankment has to be formed, makes the addition on this item for earthwork ... Rs. 4,660

A new road culvert ... Rs. 430
Lengthening three old culverts ... " 180
Rs. 610
Rs. 5,270

It has been explained that valuable nunjah land has led to the adoption of the particular line selected for the flood bank in order to take up as little of such land as possible; as it is the provision for compensation is Rupees 1,125.

(Signed) A. DEC. SCOTT, Major, R.E.,
Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

No. 368. ORDER THEREON, 26th April 1876, No. 1,042.

IRRIGATION, No. 25.
Account.

THE revised estimate of Rs. 16,520 for the construction of a head-sluiice to the Tinnevely Channel from the Tambrapoorney and for a flood bank in connection therewith, is sanctioned in lieu of the estimate of Rupees 11,100 which was sanctioned in G.O., No. 481, of the 18th February 1875.

2. This sanction has been registered as Irrigation No. 12 I. of 1876-77, and is with reference to G.O., No. 325, of the 7th February 1876, recorded as follows:—

Tambrapoorney Irrigation, Suttamalli Section.

Head of Service.—Irrigation.

Fund.—Capital, Ordinary.

Class.—Works.

Main-head (2.)—Main Canals and Branches.

Sub-head.—D Regulators.

Head-sluiice Rupees 9,850.*

Main-head (4.)—Drainage and Protective Works.

Flood bank.

Sub-heads.—B Land ... Rs. 1,125

C Works ... " 860

J. Earthworks ... " 4,685†

Total ... 16,520

Tinnevely Channel.
* Includes Rs. 300 for petty superintendence.
† Do. " 100 for do.

Proceedings of the Madras Government, Public Works Department,
23th April 1876.

Name of Work.—Constructing head-sluiice and flood bank of the Tinnevelly Channel.

Amount.—Rupees 16,520.

To be carried out by Public Works Department.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

To the District Engineer, Tinnevelly.
„ Collector of do.
„ Chief Engineer for Irrigation.
„ Examiner of Public Works Accounts
„ Revenue Department.

No 161 District Engineer's Office, Tinnevelly
Shennadevi 28th March 1876.

Thom. J. D. Grant require

for Dist Engineer, Tinnevelly

Colonel J. Mullins R.E.
Chief Engineer for Irrigation.

It is an honor to forward to you
estimate of Rs. 16,520 for the
of a Head Sluice to the Tinne-
velly.

Under No 121 of the 1st January,
the sluice with an even
into and allow an upper tier of
ear, and to this in your Memo
any good presented, on the
ing that the cost should not
materially exceed that of an alternative
scheme proposed by you.

3. My reason for proposing the upper tier
of rear arches, was that from the remarks
in Para 2 of your Memo No 496 of 11th
May 1875 I understood you to prefer that
design to a set of long under arches with
a high rear wall over them.

4. The excess on the Head Sluice in the
present estimate is only 200 Rs. the remain-
ing

D.E.J.

Look at P.W.D. No 1042

7 26 April 1876. The same
letter printed in D.E. Tinnevelly
has been printed therein &
it relates to an entirely diff

work to that sanctioned
in the S.O.

to be with G.O. -
I have looked into
matter - The
error of the
committee
the P.W.D. is
the P.W.D. is
the P.W.D. is
the P.W.D. is

Proceedings of the Madras Government, Public Works Department,
26th April 1876.

Name of Work.—Constructing head-sluice and flood bank of the Tinnevely Channel.

Amount.—Rupees 16,520.

To be carried out by Public Works

(True)

(Signed)

Please have 50
no 1042 of 76
re-permit with
the 12. Eng's letter
no 161 of 28 March
76 submitted in the
interest of the Dist.
Eng's letter no 24 of
26 April 75 by order
19.6.78

To the District Engineer, Tinnevely.

„ Collector of do.

„ Chief Engineer for Irrigation.

„ Examiner of Public Works Account

„ Revenue Department.

No 161 District Engineer's Office, Tinnevely
Sherrmaderi 28th March 1876.

From, J. D. Grant Engineer
offr Dist Engineer, Tinnevely

To, Lieut: Colonel J. Mullins R.E.
Chief Engineer for Irrigation.

Sir, I have the honor to forward to you
plans and an estimate of Rs. 16,520 for the
construction of a head sluice to the Tinnevely Channel.

Enclosures 6.

1. Estimate with specification -
1. Comparative statement.
1. Plan of Head sluice.
1. Section of culvert.
1. Section of bank.
1. Site plan.

Plans sent sepa.

notably.

2. In my letter no 121 of the 1st January, I proposed to build the sluice with an even number of vents and allow an upper tier of arches in the rear, and to this in your Memo no 99 of 25th January you assented, on the understanding that the cost should not materially exceed that of an alternative scheme proposed by you.

3. My reason for proposing the upper tier of rear arches, was that from the remarks in Para 2 of your Memo no 496 of 11th May 1875 I understood you to prefer that design to a set of long under arches with a high rear wall over them.

4. The excess on the head sluice in the present estimate is only 200 Rs. the remainder

ing except being due to the necessity for a longer flood bank, and as this bank, to avoid Nmyah must go along the Road to Suttamally, its top width must be allowed 12' 0".

5. The rate allowed for the earthwork of the Road along the Road viz ^a 14. 6 cannot be reduced, since the Road passes through Nmyah land, which the people would object to our digging up, and the earth required must come from a distance, probably in Bandies. Mr. Hughes and myself have considered the possibility of reducing the rate by rising a tram-way to bring earth, but it does not appear that any saving would thus be effected.

6. Another item of receipt is the reconstruction of a culvert in the Road, a plan of which accompanies the Estimate.

7. From the Head Sluice plan you will observe that the flood of 1874 reached a height of 144.20 and maximum flood level 147.75, and that the top of wing walls is made 150.75. The maximum flood level 147.75 is supposed to have been attained in 1828 to 1832, accounts differ, so that the date is not given, as would have been done, had

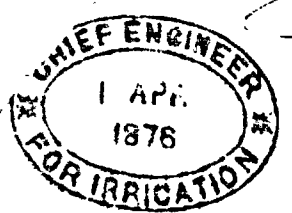
it been possible to fix it with accuracy.
8. In anticipation of your sanction of the design and as in your Memo No 99 of 25th January, you expressed your willingness to sanction it, if it did not materially exceed the other plan, I have authorized the District Range Officer to proceed with the collection of materials and the cutting of stone.

I have the honor to be
Sir

your most obedt servt

J. D. Hunt
Offr Dist Engineer

To Govt. M. D. N. 29 N. 17 4/41



E. N. 100

Nr. 2809/76.

Head & S. Lacey, Chairman
Channel - Submitting
for sanction as revised
Estimate for the con-
-struction of 2-

N. 7 161.
Encl. 6.

Order 2809
Head 1876.

From
The District Engineer
for Irrigation
Tinnevely

90 No 1042
21 April

To advy 20-6-78

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the
Read the following :-

From the Dist Eng^r Tinnevely, H.E. N. 161 d/28 March 1876.

The foregoing
letter, which should
have been printed
with Govt. Proceedings
No. 1042 of the 26 April
1876, instead of Mr.
Rundall's letter N. 24
of the 26 April 1875,
will be recorded in
continuation of that order.

PK
19/6/78

Dist Eng^r Tinnevely
Collector. Do.
Chief Eng^r for Irrigation
Ex^o P. W. Accts
Rev. Dept.

M.P.

Attend to this in office

Pl

24/6/78

To R.K. - Correct & show

me - D.M.H.

D.S.

24-6-78

The mistake is not worth
correction in this way

The new P.M. under of the

not be printed in the

as it will suffice to

note in the copies of P.M.

No. 1042 of the 26 April 1878
in this office

The number & date of the

letter which ought to have

been printed in the way

has been noted in this copy

By 21/6/78

24-6-78

To advy 20-6-78

me. 7

No 121

20-6-78

P. 39 H. 15

Submitted to Government

In G.O. No. 481 of the 13 February 1878
an Estimate amounting to Rupees 11,100 was
sanctioned for constructing a head sluice
to the Sennivelly Channel which is
supplied by the Suthamalli Anicut on
the Tambraparny.
This head sluice, like several
others, from which several estimates
have been sanctioned, was
originally designed on inaccurate
information as to maximum flood
level in the river, and on the 17 January
last the District Engineer reported that
the height of the work was insufficient
and he proposed certain modifications
of arrangement to adapt the altered
sluice he had already been laid. Certain
which had already been given and a previous
instructions were given and a previous
estimate has been submitted.
The amount of this estimate
is Rupees 16,520, or Rupees 5,420 in excess
of the sanctioned estimate. The addition
to the cost of the sluice itself is small,
viz. Rupees 200, but the necessity for
making the flood bank in connection
with it higher and longer, together
with the circumstances of the ground
on

on which the embankment has to be
 formed makes the addition on this
 item, for Earthwork, Rupees 2660
 A new road culvert, Rs 430
 Lengthening 3 old culverts, 180 610

5270

It has been explained that valuable
 mungah land has led to the adoption
 of the particular line selected for
 the flood bank in order to take up
 as little of such land as possible
 as it is the provision for compensation
 is Rupees 1125

Fort St George
 10 April 1876

By Order of
 Major R.E.
 Dy Chief Engr for Irrigation
 for Chief Engineer for Irr.

To
 The Secretary to Government
 Public Works Department

Camp: 322

with 791 227
 282 a

cost

of 3 feet in
 vertical ref

of 10 feet in
 16 feet

of 20 feet in
 16 feet

of 10 feet in
 16 feet

of 10 feet in
 16 feet

of 10 feet in
 16 feet

of 10 feet in
 16 feet

of 10 feet in
 16 feet

8029 Jan 3/75 No 256.
and 3 p. 181.
18 Feb - 481.

P.W. 1875 Dept.
No: 2839

From

The Chief Engr.
for Irrigation

Dated 10th April 1876.
Recd 21st April 1876.

G.O. No. 39 W.

Submitting letter
of D.R. Linnavelly
forwarding an estimate
for the constr. of a
headsluice to the
Linnavelly Channel

Cir. 244-76 Dtd 26-4-76
Despatch 22-4-76

C.L. No 22

No 1042 Public Works Department.
10

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 26th April/76

Read the following:-

From
The Chief Engineer } C.R. No 39 W d/10 April 1876
for Irrigation }

The revised estimate
of Rupees 16,520, for the
construction of a head
sluice to the Linnavelly
Channel from the Tambra-
poorney, and for a flood-
bank in connection therewith
is sanctioned, in lieu of the
estimate of Rupees 11,100
which was sanctioned in
G.O. No 481 of the 13 February 1875

This sanction has been
registered as a ^{sanction} N 12-I, 1876, and
is with reference to G.O.
No 325 of the 7 February 1876
recorded as follows.

Tambra-poorney. Irr. Sattimalli Section
head of sluice. Capital Ordinary
Fund - Works
Class - Main

Main head (2) Main Canals & Branches. ^{Tinnevely} Channel
Sub head D Regulations
Head sluice Rs 9850

Main head (4) Drainage & Protective
works. Flood bank.

Sub heads B Land. Rs 1125

C. works. 860

I. Earthworks. 4655 6670

Total Rupees 16520

* Includes Rupees 300

for Petty superintendence

* Includes Rupees 100
for do.

Name of work. Constructing head sluice
and flood bank of the Tinnevely
Channel. Amount Rupees 16,520.

Is to be carried out by Public works department.

Amul

(111)

To District Engr. Tinnevely
• Inspector
• Chief Engr. for Irrigation works
• ~~All District Engrs for information~~
• En. P. W. D.
• Rev. Secy. ✓

Dated 15/5/16

Comp. J. R. A.

2839

Govt. of 1876 Madras
PUBLIC WORKS.

To

The District Engineer

Dated

Issued

Recd

Recd

G. O. 27 April 1876, No.

1045

354/2
Hes.

*South in 1876
11-5-76*

Head sluice to the
Tamirvelly channel
~~from the Tambora ponnies~~
~~the~~ Revised Estimate
WP-16520 for the con-
struction of a — from
the Tambora ponnies &
for a flood, to the camp
in connection therewith
corrected with remarks