

Public Works (189) Department.

G.O., No.

877

9

DATED

17 Oct 89

[Despatch Abstract.]

extension channel
Candayar channel extension, Trichi-
nopoly Dⁿ.

The estimate of Rs 3060 for ~~the~~ improving
the ———— sanctioned.

110/6

H.S.
17.10.89
22/10/89

The estimate of Rs. 3,060 for improving the —, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers:—

From the Superintending Engineer, VI Circle, dated 22nd July 1896, No. 1159 T.C.
 To the " " VI " " 10th August " " VI/29 T.C.
 To the " " VI " " 19th October " " VI/42 T.C.
 G.O., No. 149 I., dated 12th February 1897.

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer,
 VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly,
 24th August 1899, No. 1466 T.C.

I have the honour to submit, for sanction of Government, an estimate, amounting to Rs. 2,480, for improving the Nandyar extension channel by constructing 15 masonry sluices for the distributaries, a dam at the tail end of the channel and providing demarcation stones.

2. The necessity for the construction of these sluices is fully established in paragraph 2 (c) of my letter, dated 22nd July 1896, No. 1159 T.C., with which the third revised estimate of Rs. 61,400 for improvements of the Nandyar channel was forwarded which was returned unsanctioned with certain remarks in memo. No. VI/29 T.C., dated 10th August 1896.

3. At present there are 15 authorised open cuts and in addition to these many cuts are made which are not authorised, and until the masonry sluices are built it will not be possible to put a stop to this practice. There is thus much waste of water, and the construction of the sluices is necessary. A type plan of sluice is forwarded, also a statement showing the approximate extent of irrigation under each sluice. The sites for the sluices have been fixed in consultation with the Revenue Department.

4. A tail drop at the end of the channel is required.

5. The channel boundary has not yet been demarcated, and provision is now made for this.

The estimate is recommended for sanction.

No. 183 I.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits an estimate of Rs. 2,480 for improving the Nandyar extension channel, in the Trichinopoly division, by constructing 15 masonry sluices for the distributaries, a dam at the tail end of the channel and providing demarcation stones. The estimate may be sanctioned.

18th September 1899.

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

ORDER—No. 877 I., dated 17th October 1899.

The following estimate is sanctioned:—

Provincial.
 Irrigation.
 43. Minor Works and Navigation.
 Class II—Minor Works and Navigation for which Capital and Revenue
 Accounts are kept.
 Nandyar Channel System.
 Open Capital Account.
 2. Main Canals and Branches.
 Improving Nandyar Extension Channel.

	RS.	RS.
3. Regulators—		
1. Constructing 15 irrigation sluices	...	2,075
2. Do. a dam at the tail end	...	65
15. Miscellaneous—		2,140
3. Demarcation stones	...	340
Total, I. Works	...	2,480
II. Establishment	...	570
III. Tools and plant	...	10
Total, Estimate	...	3,060

2. This sanction is registered as No. 74 I. of 1899–1900 and will expire on the
 31st March 1900.

(True Extract.)

Under Secretary to Government,
 Irrigation Branch.

To the Chief Engineer for Irrigation.
 „ Superintending Engineer, VI Circle, with two enclosures.
 „ Examiner, Public Works Accounts.

Rzd. T. K. Narayana Aiyangar.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

Estimate of Rs 3000 for
improving the Chaudyar extension
channel
From the Supg: Engineer 6th Circle - No. 159.T.C. of 22nd July 1896.
To _____ do _____ No. VI 29.T.C. of 10th August 1896.
To _____ do _____ No. VI 42.T.C. of 19th October 1896.
G.O. No. 149. I. dated 12th Feb. 1897.
From the Supg: Engineer 6th Circle - No. 1466.T.C. of 24th Aug. 1897.
No 183 I. of 18.5.99.

40
Note by the Chief Engineer
for Irrigation

The Supg: Engineer, 6th Circle,
submits an estimate of
Rs. 2480 for improving the
Chaudyar extension channel,
in the Trichinopoly division,
~~The proposed improvements~~
~~consist of~~ constructing of
15 narrow sluices for the
distributaries, a dam at
the tail end of the channel
and providing demarcation
stones. The estimate may be
sanctioned. No. 877 D. 17.10.99.
Order thereon
The following estimate is

Issued

7.10.99 L.H.

res
7.10.99

To, The Chief Eng^r for Ship
" Sup^y: - do - 6 " Circles
with two enclosures
a Examiner Pro Recordu

Orders and Proceedings in File

No.	Date.	No.	Date.
PK			
There were several orders on this bill which are attached to the file			<p>Revised</p> <p>2nd</p>
10/17	10/15		

No 1159 TC.

Superintendent of the Circle
Dichinopoly 22 July 1896
D/22.

From

W. Hughes Esquire
Superintendent of the Circle

To

The Chief Engineer
for Irrigation

Sir,

Encls: 8.

I have the honor to submit a
third revised estimate amounting to Rs.
6,1400 for the Brandyas Channel. This includes
work in the old Channel as according to the
rules in force the System has to be taken as
a whole. The total is made up as follows:-

Brandyas Channel extension	Rs 51500. "
Constructing dams and sluices in old Channel	2150. "
Repairs to old & new channels	7750. "
Total	Rs 61400

2. The history of the Channel extension
scheme is given in the papers printed with
L.O. no 2459 dated 13 March 1891 and 663.9.
dated 12 September 1894 and I have only
to explain the excess of the revised estimate
over that for Rs 42500. Sanctioned in the
latter order. The principal items are the
following:-

following:—

(a) Channel excavation, ~~excess~~ Rs 1330.

Some excess in earth work and provisions newly made for demarcating the channel are more than balanced by saving in compensation for land and some minor items but it has been found necessary to allow Rs 4475 for puddling the channel where it is carried in high embankment at either end of the Manodai aqueduct. The soil there is so bad that there is no hope of the channel ~~there~~ holding water unless it is puddled and unfortunately no suitable clay for puddle can be had nearer than the Coleroon.

(b) Manodai aqueduct. On this work there is an excess of Rs 3990 due chiefly to the cost of carting and erecting the iron work having been much understated in the estimate prepared in the workshop. The troughs, each weighing two tons, were supplied fully made up and ready late in the year when the roads were well nigh impassable. There was the greatest difficulty in getting them to the work even with special conveyances and the cost of taking them from Ichinopoly amounted to Rs 900. The cost of screwing in the piles also amounted to a good deal though the rate was moderate.

moderate. For erecting the troughs Rs 20 a ton, the rate allowed by the South Indian Railway had to be paid. There is an excess of Rs 1130 in payments partly due to increase in quantity owing to the bad soil and partly to the partial substitution of concrete blocks, the stone supply having given out.

(c) The next largest item of excess is the provision of 15 irrigation sluices. It will be observed from the report which accompanied the first estimate and from the registers of water supply (of which I enclose a copy for reference) that the old channel is designed to discharge ordinarily only 94 Cub. feet per second for an expected irrigated area of 3400 acres and that any larger supply than this will seldom be available. If allowance be made for the inevitable silting near the head of the channel if not elsewhere it is at least doubtful whether the actual average supply which can be passed into the channel will not fall well below the estimate. It is to be expected that the supply in the new channel will frequently if not usually be deficient and the greatest economy will have to be observed

observed in distributing it. This cannot be done without the sluices now included in the estimate.

(d) A sum of Rs 1,450 has been entered for screw gearing shutters to old sluices. An estimate for this work was sanctioned by this office in 1894-95 under 43. Accounts not kept but under instructions from the examiners of P.W. Accounts the classification has been cancelled and the charge debited to the Capital account of the Project.

The other items of the estimate call for no remark.

3. At present temporary earthen dams are thrown across the main channel to supply each branch in turn. These dams cause much injury to the channel and favour the deposit of silt and it is therefore proposed to build masonry dams. These dams have not been estimated for in detail but it is considered that the rough estimate of Rs 200 for each will suffice. A drop also is required in one of the branches which has a heavy fall & pot sluices in all in order to check the waste of water by admitting only what is necessary to the fields. The total cost of these improvements will be Rs 2,150.

4. The estimate of Rs 7,750 is for

for repairs to the whole system. Of this Rs 900 is for the new channel and the remainder for the old channel and branches. I am rather doubtful whether the repair of the old works should be charged to Capital.

Yours truly
sir

Yours most obedient servant

W. Hughes

Asst Engineer & Clerk

Enclosures -

1. General Estimate Rs 6,400

1. Repairs Rs 775

1. Improvement Rs 2150 in the general estimate

1. Comparative Statement

1. Classified Abstract

1. Tracing of proposed sluices

2. Sheets of water registers

CHIEF ENGINEER
FOR IRRIGATION.

2. JUL. 96

No.

667C

From

The Supg Engineer
W. Birch

To
The Chief Engineer
for Irrigation

No. 1159 TC.

Df. 22 July 1896.

Enclosures: 8.

Kandiyar Channel
Submitting for
sanction a third revised
estimate of Rs 61400 for
extending the

E. I. F. No. 13-2,000-6-1-96.

FORMER CASES.

R No. 46 IC dated 22-7-96

" "

" ^{VI} "

ISSUE No. 297C

Dated 14-8-1896.

Despd. 14 d-1896.

LATER CASES.

J No. 42-TC dated 9-10-1896.

R 67C, 19-1-1897.

" R 87C, 11-2-1897.

~~R 107C, 12-2-97~~

Sent to Government with No. ^{R 417C} 24-8-97
1896. I. of

Printed with G.O., No. dated

1896.

REMINDERS ISSUED.

No. 1, dated	189
" 2, "	"
" 3, "	"
" 4, "	"
" 5, "	"

KEEP WITHS.

R 46. TC 96
for 663-284
for 24.5.4/51

ISSUE CASE.

1896.

Chief Engineer for Irrigation.

To

THE Supg Engineer's Office

No. ^{VI} 29 IC dated 10-8-1896.

(Reply to letter No. 1159-TC dated 22-7-1896).

Subject: - Kandiyar Channel
Extension - Revised estimate
for the same - Returns the
with reference to the re-
marks noted therein.

ENCLOSURES. 8

1. Est. Estimate
1. Rep. Estimate
1. Sept. Estimate
1. Comp. Estimate
1. Charges Estimate
1. Form of works Register
2. Sketch of works Register

Indepd.
5/9/96

No. ^{VI} 297C of 10-8-96
Memo

With reference to
letter No. 1159 T.C., of
22nd ult., from the
Supp. Insp. V. C. V. C.
The undersigned has
the honour to return
herewith the revised
estimate for the
Nandya channel
extension with
reference to the
following remarks:-

1. If all the work
contemplated to be
carried out in the
revised estimate
last sanctioned
have already been
completed or are
nearly completed,
it would be better

to close the construction
estimate, as sanction
to ^{another} revised estimate
would then be purpose-
less, the excess ^{actually} ~~being~~
~~incurred~~ on the works
being dealt with
in the completion report,
the submission of
which for the orders
of Govt. should be
expedited. The Supply
is requested to be so
good as to report
at an early date,
whether the con-
struction estimate
may be closed as
suggested & when.

2. The sluices
& dams which are
estimated to cost Rs

+ vide para 34
Chapter VII, Vol I
PWD Code

2150 may either be
constructed from the
annual grants for
"Extensions & impts",
or if it be considered
desirable that they
should all be con-
structed in the same
year, the estimate
will have to be
sanctioned, after
the closure of the
construction estimate,
under "Open
Capital Account",
as the amount
exceeds the limit
of sanction under
the former head.

3. The estimate
of Rs 7,750 for re-
pairs may be

sanctioned by the
Suptg Engineer
under "Main Repair".

10/8
9/6

[Faint handwritten notes and bleed-through from the reverse side of the page]

To
The Suptg Engr
10/8
9/6

1896.

Chief Engineer for Irrigation.

To

The Suptg Engrs. and

No. 42 TC. dated 19-10-1896.
(Reply to Letter No. 29 TC. dated 10-8-1896.)

Subject: - Kandyas Channel Extension
Requests to expedite the sub-
mission of the completion report
for the - for the orders of work
on the excess outlay incurred
in the work.

ENCLOSURES.

FORMER CASES.

No. 29 TC. dated 10-8-96.
R. 46 TC. " 2-7-96.

ISSUE No. 42 TC.

Dated 19-10-1896.

Despd. 22-10-1896.

LATER CASES.

No. 67 C. dated 19-1-1897.
R. 87 C. " 3-11-2-97
R. 107 C. " 12-2-97
R. 417 C. 24-8-97

Sent to Government with No. I. of

189 .

Printed with G.O., No.

dated

189 .

REMINDERS ISSUED.

No. 1, dated .	189 .
2, "	"
3, "	"
4, "	"
5, "	"

KEEP-WITHS.

It is suggested that revised S.R. for Kandyas
be

29 TC 188 + per. 1896.

29 TC 188 + per. 1896.

Indeered. 29 TC 188 + per. 1896.

No ^{VI} 42 TC d/19.10.96.
Memo

With reference
to ^{the} memo No 29 T.C. of
10th Augt 196, the under-
signed has the honor
to request that the
Supp. Sup. VI Cuch,
with be so good as
to expedite the sub-
mission of the completion
report for the handy
channel extension
for the order of Govt
on the excess outlay
incurred on the
work. From the B.
form progress report
of the work it is ob-
served that it has
since been completed

[Signature]
19/10
96

To
Mem S.E. VI
LCS
17/10 1996

IRRIGATION.
ACCOUNT.

Government {1897} of Madras.
PUBLIC WORKS.

Recd.

Enclosures

Regd.

1897.

Spare copies

G.O., No. 149 I., 12th February 1897.

FEBRUARY.

Expenditure

Authorizing the Examiner of Public Works Accounts to pass the — shown in the completion reports to have been incurred on the Nandyar channel extension, Trichinopoly division.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper:—

From Lieut.-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation (through the Examiner of Public Works Accounts), dated Trichinopoly, 19th January 1897, No. 103 T.C.

With reference to your memo. No. VI/42 T.C., dated 19th October 1896, I have the honour to forward herewith the completion reports for Nandyar channel extension in Trichinopoly division.

2. An estimate of Rs. 42,500 was sanctioned in G.O., No. 663 I., dated 12th September 1894, but the work was completed at an outlay of Rs. 43,487 or Rs. 987 in excess of the sanctioned amount which is within 5 per cent.

No. 255 D/A.

Forwarded to the Chief Engineer for Irrigation duly verified.

25th January 1897.

(Signed) R. WHITE,
for Exr., Public Works Accounts.

No. 25 I.

Submitted to Government.

5th February 1897.

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

ORDER—No. 149 I., dated 12th February 1897.

The Examiner of Public Works Accounts is authorised to pass the expenditure shown in the completion reports forwarded by the Superintending Engineer, VI Circle, to have been incurred on the Nandyar channel extension, the net excess being only Rs. 987 or below 3 per cent. on the sum of Rs. 42,500 sanctioned under works in G.O., No. 275 I., dated 23rd March 1895.

2. This sanction is registered as No. 177 I. of 1896-97.

(True Extract.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.

" Superintending Engineer, VI Circle, with four enclosures.
" Examiner, Public Works Accounts.

Exd. P. Seetharam.

Public Works (1899) Department.

CURRENT No. 8392

8777

Order

From

The Chief Engineer for Irrigation

No. 183-I.

Dated 18. 9. 99.

Received

Registered

Enclosures

Spare copies.

SUBJECT.

Nandyar Extension Channel -
Estimate of Rs. 3060 for improvement
the - note recommending for
sanction the —

221

d.

FURTHER PAPERS.

Public Works (1899) Department.

CURRENT No. 41 T.C

From

The Supp Inquint
17 Circ

No. 14667C

Order *E*

May the be sanctified
after church?

15/58

Sanction
No 29

CEJ to check

Boes

4/9

589

The Estimate has been checked
and corrected -

Two
15/9/20

1922

29/8

1668
3/10/1988

Dated 24 August 1898

Received } 29—do—
Registered }

Registered

Enclosures 2

Spare copies

SUBJECT.

Kandiyar Extension
Channel —————

Submitting for same.
- then an estimate of
\$ 2480 for improving
the _____

191-8-99

BACK PAPERS.

FURTHER PAPERS.

No.	Date.
R46T.C	24.7.96
I29T.C	10.8.96
R87C	11-2-97

No.	Date.

No.

1466 TC

OFFICE OF THE SUPERINTENDING ENGINEER

6th CIRCLE,

Trichinopoly, 24 August 1899.

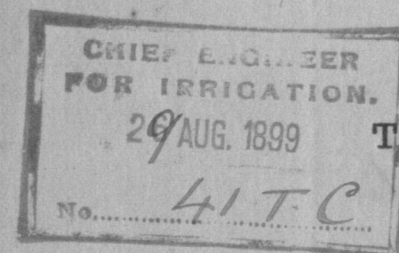
8/25

From

Lieut. Col. O. V. Boddy R.E.

Superintending Engineer,

6th Circle.



To

The Chief Engineer,

for Irrigation

SIR,

ENCLOSURES. 2.

1 Plan

1 Estimate.

I have the honour to Submit for Sanction of Government an estimate amounting to Rs. 2480 for improving the Nandyar extension channel by constructing 15 masonry sluices for the distributaries, a dam at the tail end of the channel and providing demarcation stones.

2. The necessity for the construction of these sluices is fully established in para 2(c) of my letter, dated 22nd July 1896, No: 1159 T.C., with which the 3rd revised estimate of Rs. 61,400/- for improvements of

R46T.C/96
fly 3

the

the Nandyar channel was forwarded which was returned unsanctioned with certain remarks in Memorandum No:

VI/297.C., dated 10th August 1896. *Flag U*

3. At present there are 15 authorised open cuts and in addition to these many cuts are made which are not authorised, and until the masonry sluices are built it will not be possible to put a stop to this practice. There is thus much waste of water, and the construction of the sluices is necessary. A type plan of sluice is forwarded, also a statement showing the approximate extent of irrigation under each sluice. The sites for the sluices have been fixed in consultation with the Revenue Department.

4. A tail drop at the end of the channel is required.

5. The channel boundary has not

yet been demarcated, and provision is now made for this.

The estimate is recommended for sanction.

3 P

I have the honour to be,

Sir,

your most obedient servant.

J. V. No. 1111 Limit: col: R.E.

Supg: Engineer, VI circle.

[Signature]
24/8/96