Public Works (1896) Department.

G.O., No. 6/7 I

DATED 3-1-96

[Despatch Abstract.]

Dam : Estimate of Rs 4560 for enlarging the Reservoir in the Nandalar, Cauvery Delta system, sanctioned with remarks.

The above forwarded to the Govt. of India

[P W 26.
1,000—28-10-95.]

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated January, 3rd.

Recd. *Encl.*

G.O. No. 6 I., 3rd January 1896.

JANUARY.

Dam

Estimate of Rs. 4,560 for enlarging the Keeranur — in the Nandalar, Cauvery delta system, sanctioned with remarks.

No. 6 I., 3RD JANUARY 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

From Lieutenant-Colonel C. C. RAWSON, R.E., Superintending Engineer, V Circle, to the Chief Engineer for Irrigation, dated Chepâk, 26th October 1895, No. 331 E.I.

With reference to your memo. No. V/38 T.J., dated 15th July 1895, I have the honour to submit for sanction the enclosed plan and estimate, amounting to Rs. 3,840, for enlarging the Keeranur dam in the Nandalar in Nannilam taluk, Tanjore division.

2. The necessity for the work is explained in the accompanying copy of letter No. 3261, dated 16th September 1895, from the Executive Engineer, Tanjore.

ENCLOSURE.

From J. C. JOHNSTON, Esq., Executive Engineer, Tanjore Division, to the Superintending Engineer, V Circle, dated 16th September 1895, No. 3261.

In resubmitting a plan with estimate amounting to Rs. 3,840 for enlarging the Keeranur dam in the Nandalar, I have the honour to make the following remarks.

2. The Chief Engineer for Irrigation in his memo. No. V./38 T.J., dated 15th July 1895, forwarded to me with your No. 227 T.J., dated 30th July 1895, refused to sanction the estimate for raising the banks of the Nandalar, because it was essentially a drainage stream; and he ascribed the high floods to local obstructions and absence of regimé in the channel.

3. There are two dams in the channel and before they were built, there were no complaints of high floods. These two dams are the Keeranur and Koothanur, the first being one mile above the bridge on road No. 35 and the latter two miles below. The bridge has been built for years, long before the construction of the dams, and has given no cause for complaint. The width of waterway allowed at the bridge is 50 feet and the depth of the water 8 feet as calculated for the dam. The channel itself is fairly clear and about 50 feet wide in this reach near the bridge and from dam to dam. The calculated discharge is 1,554 C.F.S. and a channel with a bed fall of 2 feet in 1 mile—8 feet depth, 40 feet wide at bottom and 1½ to 1 side slopes—is large enough. It is the dams themselves which form the obstruction and it would be a benefit to the kudies, were the estimate for enlarging the Keeranur dam sanctioned. The proposed water-way is 360 square feet thus making an addition of 212 square feet to the present water-way.

4. It is a mistake constructing dams in drainage channels, but if they exist already they should be at least large enough.

From the Superintending Engineer, V Circle, dated 12th December 1894, No. 394 E.I.

No. 227 I.

Submitted to Government. The amount of the estimate has been reduced in this office from Rs. 3,870 to Rs. 3,700 owing to alteration of the design for shutters and screw-gearing.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Chief Engineer for Irrigation.

23rd November 1895.

ORDER—No. 6 I., dated 3rd January 1896.

The following estimate is sanctioned :—

Capital expenditure not charged to Revenue.
49. Irrigation.
Cauvery Delta System.
Open Capital Account.
4. Drainage and Protective Works.
3. Works.
Unremunerative Work.
Enlarging the Keeranur dam in the Nandalar.

	RS.
I. Works ...	3,700
II. Establishment	851
III. Tools and plant	9
Total ...	4,560

2. This sanction is registered as No. 168 I. of 1895-96, and will expire on the 31st March 1898.

3. The attention of the Superintending Engineer, V Circle, is drawn to the remark made by the Chief Engineer for Irrigation on the plan.

4. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 7 I., dated 3rd January 1896.]

(True Extract.)

Under Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
,, Superintending Engineer, V Circle, with four enclosures.
,, Examiner, Public Works Accounts.
,, Revenue Department.

Exd. T. K. Narayana Aiyangar.

Spare Copies

IRRIGATION.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated January, 3rd.

Recd. *Encl.*

G.O. Nos. 6, 7 I., 3rd Jan. 1896.

JANUARY.

Dam

Forwarding Proceedings sanctioning with remarks an estimate of Rs. 4,560 for enlarging the Keeranur — in the Nandalar, Cauvery delta system.

No. 6 I., 3rd January 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers :—

From Lieutenant-Colonel C. C. RAWSON, R.E., Superintending Engineer, V Circle, to the Chief Engineer for Irrigation, dated Chepâk, 26th October 1895, No. 331 E.I.

With reference to your memo. No. V/38 T.J., dated 15th July 1895, I have the honour to submit for sanction the enclosed plan and estimate, amounting to Rs. 3,840, for enlarging the Keeranur dam in the Nandalar in Nannilam taluk, Tanjore division.

2. The necessity for the work is explained in the accompanying copy of letter No. 3261, dated 16th September 1895, from the Executive Engineer, Tanjore.

Enclosure.

From J. C. JOHNSTON, Esq., Executive Engineer, Tanjore Division, to the Superintending Engineer, V Circle, dated 16th September 1895, No. 3261.

In resubmitting a plan with estimate amounting to Rs. 3,840 for enlarging the Keeranur dam in the Nandalar, I have the honour to make the following remarks.

2. The Chief Engineer for Irrigation in his memo. No. V./38 T.J., dated 15th July 1895, forwarded to me with your No. 227 T.J., dated 30th July 1895, refused to sanction the estimate for raising the banks of the Nandalar, because it was essentially a drainage stream; and he ascribed the high floods to local obstructions and absence of regimé in the channel.

3. There are two dams in the channel and before they were built, there were no complaints of high floods. These two dams are the Keeranur and Koothanur, the first being one mile above the bridge on road No. 35 and the latter two miles below. The bridge has been built for years, long before the construction of the dams, and has given no cause for complaint. The width of waterway allowed at the bridge is 50 feet and the depth of the water 8 feet as calculated for the dam. The channel itself is fairly clear and about 50 feet wide in this reach near the bridge and from dam to dam. The calculated discharge is 1,554 C.F.S. and a channel with a bed fall of 2 feet in 1 mile—8 feet depth, 40 feet wide at bottom and 1½ to 1 side slopes—is large enough. It is the dams themselves which form the obstruction and it would be a benefit to the kudies, were the estimate for enlarging the Keeranur dam sanctioned. The proposed water-way is 360 square feet thus making an addition of 212 square feet to the present water-way.

4. It is a mistake constructing dams in drainage channels, but if they exist already they should be at least large enough.

From the Superintending Engineer, V Circle, dated 12th December 1894, No. 394 E.I.

No. 227 I.

Submitted to Government. The amount of the estimate has been reduced in this office from Rs. 3,870 to Rs. 3,700 owing to alteration of the design for shutters and screw-gearing.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Chief Engineer for Irrigation.

23rd November 1895.

Order—No. 6 I., dated 3rd January 1896.

The following estimate is sanctioned :—

Capital expenditure not charged to Revenue.
49. Irrigation.
Cauvery Delta System.
Open Capital Account.
4. Drainage and Protective Works.
3. Works.
Unremunerative Work.
Enlarging the Keeranur dam in the Nandalar.

	RS.
I. Works	3,700
II. Establishment	851
III. Tools and plant	9
Total ...	4,560

2. This sanction is registered as No. 168 I. of 1895-96, and will expire on the 31st March 1898.

3. The attention of the Superintending Engineer, V Circle, is drawn to the remark made by the Chief Engineer for Irrigation on the plan.

4. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 7 I., dated 3rd January 1896.]

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, V Circle, with four enclosures.
" Examiner, Public Works Accounts.
" Revenue Department.

Endorsement—No. 7 I., dated 3rd January 1896.

Forwarded.

(By order.)

Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

Exd. T. K. Narayana Aiyangar.
Spare Copies

A

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

~~Ref~~ Tr. with Eri. letter

UNDER date the

READ the following

From Supg Eng. V Circle, No. 331 E.I., d/26-10.95
From S.E. V No. 394 E.I. d/12/~~12/94~~ No. 227 I. d/ 23.11.95

Submitted to Govt. The amount of the estimate has been reduced in this office from Rs 3,870 to Rs 3,700 owing to alteration of the design for shutters & screw gearing.

The existence of the dam in a drainage channel at all is acknowledged to be a mistake – and I can well understand that an alteration in it as proposed would obviate much of the trouble now caused by it. But why not remove it altogether?

W
27 Nov

Order thereon
No. 6 I. d/ 3 January 1896

The following estimate is sanctioned:

Capital Expenditure not charged to Rev.
49. Irrigation
Cauvery Delta System
Open Capital Account
4. Drainage & Protective Works.
3. Works.
Unremunerative Work –
Enlarging the Keeranur Dam in the Nandalar

	Rs
I. Works	3700
II Establishment	851
III Tools & Plant	9
	4560

This sanction is registered as No. 1689 of 1895-96 & will expire on the 31st March 98.

3. The attention of the Supdg Engr, V Circle, is drawn to the remark made by the Chief Engr for Irrigation on the plan.

4. Ordered that a copy of these Proceedings be forwarded to the Govt of India for information.

Endorsement—
No. 7 I. d/ 3rd January 1896
Forwarded.

Rued 23/11

Copy to
Lieut Col. A. W. Smart R. E.
Supdg. Engr. on Special duty, Tanjore

DESPATCHED
15 JAN 96

To
The Chief Engr for I.
Supdg Engr V with 4 enclos.
Ex T. Wk.
[illegible] Dept.

E. I. Form No. 1—500—14-5-95.

Rd: 23/12
H.E. 19/12

H.E.

W. CURRENT No. 9362

Estimate for enlarging the Keeramur dam in the Nandalar, Cauvery Delta System

Recd: 26.11.95
En: 6+
(+ 1 plan)

F. E. I. 30/12

To H.E.
Please see letter No. 39421 dated 12/12/95.

Seen 18/12
Rueds 19/12

21 Dec

Issue

Rueds 22/12

Registered 2/1

24-12-95

No. 331 E. I.

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Chepâk, 26 October 1895.

From
Lieut. Colonel C. C. Rawson R. E.
SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE Chief Engineer for Irrigation

SIR,

With reference to your memo No. $\frac{V}{38 I. J.}$ d/ 15th July 1895, I have the honour to submit for sanction the enclosed plan and Estimate amounting to Rs. 3,840 for enlarging the Keeramur Dam in the Nandalar in Nanilam taluq, Tanjore Division.

The necessity for the work is explained in the accompanying Copy of letter No. 3261 d/ 16th September 1895 from the Executive Engineer Tanjore.

I have the honour to be
Sir
your most obedt. Servt.

C. C. Rawson
26/10/95
Lt Colonel R. E.
Supdg Engineer V Circle

Enclosures. 5

1 Plan
1 Detailed Este.
1 Abstract Este.
1 Calculation Sheet
1 Copy of letter No. 3261 d/ 16-9-95
5

500—12-10-94.

24.X.95

From

THE SUPERINTENDING ENGINEER,

V CIRCLE,

CHIEF ENGINEER
FOR IRRIGATION.
31 OCT. 95

To

THE Chief Engineer
For Irrigation

R.W.J.

Dated Dsd 26 }
Recd. 29. } October 1895.

ENCLOSURES. 5

P.W. Ext 9382/95

No. 331 E.I.

Keeranur dam in the Nandalar in Nanilam Taluq Tanjore District.

Submitting for Sanction an Estimate amounting to Rs. 3840 for enlarging the —

No. 3261 d/ 16th September 1895

From. J. C. Johnston Esquire
Executive Engineer, Tanjore Division.

To – The Supg: Engineer, V Circle, Madras.

Sir,

In resubmitting a plan with Estimate amounting to Rs. 3,840 for enlarging the Keeranur Dam in the Nandalar, I have the honour to make the following remarks:–

2. The Chief Engineer for Irrigation in his memo No. $\frac{V}{38 I.J}$ d/ 15th July 1895, forwarded to me with your No. 227 I.J d/ 30th July 1895, refused to sanction the Estimate for raising the banks of the Nandalar, because it was essentially a drainage stream; and he ascribed the high floods to local obstructions and absence of regime in the channel.

3. There are two dams in the channel and before they were built there were no complaints of high floods. These two dams are the Keeranur and Koothanur; the first being 1 mile above the bridge on Road No. 35 and the latter two miles below. The bridge has been built for years, long before the construction of the dams, and has given no cause for complaint. The width of waterway allowed at the bridge is 50 feet and the depth of the water 8 feet as calculated for the dam. The channel itself is fairly clear and about 50 feet wide in this reach near the bridge and from dam to dam. The calculated discharge is 1554 C. f. S. and a channel with a bed fall of 2 feet in 1 mile – 8 feet depth – 40 feet wide at bottom and 1½ to 1 side slopes – is large enough. It is the dams themselves which form the obstruction and it would be a benefit to the Kudies were the Estimate for enlarging the Keeranur Dam sanctioned. The proposed waterway is 360 sqft: thus making an addition of 212 sqft: to the present waterway.

4. It is a mistake constructing dams in drainage channels, but

but if they exist already they should be at least large enough.

I have &c.

Signed - J. C. Johnston

Executive Engineer

(True Copy)

CHIEF ENGINEER
FOR IRRIGATION.
31 OCT. 95
No. ....

26/10/95 Lt Col. R.E.

Supg Engineer V Circle

26 October 1895

R 78 I.J.

Pw. Sec. 2/9362/95

24.X.95

No 4310 d/7th December 1895.

From - J. C. Johnston Esqre Executive Engineer
Tanjore Division.

To the Chief Engineer for Irrigation

Through the Supg: Engineer, V Circle, Madras.

Sir,

In reply to your memo No 69 I. J. d/29th November 1895, received by me on 5th December, I have the honour to state that the only river which can be made to irrigate the lands under the Nundalar (Keeranur Dam) is the Nattar. The irrigation under the Nattar seems at present defective and the additional duty of supplying the Nundalar lands would make matters worse. The Nattar supplies French lands besides British, and the French authorities would certainly object to any decrease in the supply of water.

2. Another objection to a new source of supply would be cost. A channel from the Nattar would be at least 2 miles long. and would pass through expensive Nanja land and across a large number of irrigation and drainage channels - and the cost would be prohibitive.

3. A third objection would be that the Keeranur Dam ryots would object. They obtain a plentiful supply of water at present from the Nundalar - and the transfer of the duty to the Nattar would tend to diminish the supply.

4. The

4. The cheapest plan is to provide shutters to the Keeranur dam. Drainage channels should have no dams, but as dams exist, we must manage the best way we can with them by limiting their powers of evil as much as possible, due regard being had to cost of improvements.

I have &c.

Signed - J. C. Johnston
Executive Engineer

No. 394 E. I.

Copy to the Chief Engineer for Irrigation, with reference to his No. $\frac{V}{70\ I.J.}$ d/29th November 1895.

C. Lawson
12/12/95

12th December 1895

Lt. Colonel R. E.
Supg Engineer V Circle

12.95

CHIEF ENGINEER
FOR IRRIGATION.
14 DEC. 95
No. 8779

From
The Supy Engineer
5. Circle

To
The Chief Engineer
For Irrigation.

Dated 12 } December 1895
Recd }

Enclo.

No. 394 E.I.

Keeranur Dam in the Nandalar of the Cauvery Delta System

Forwarding report regarding the removal of altogether—