Public Works (1898) Department.

G.O., No. 415-69

DATED 21st March 1898

[Despatch Abstract.]

Srivaikuntham Anicut: Estimate of Rs 11,100 for providing Screw gearing shutters to the Scouring sluices in the —, Tinnevelly Dt^n^ Sanctioned and a copy of the Roturn ordered to be forwarded to the Govt^t^ India

=

Srivaikuntham Anicut: Forwarding Copy of Proc: Sanctioning an estimate of Rs 11,100 for providing Screw gearing shutters to the scouring sluices in the —, Tinnevelly Dt^t^

=

[P. W. P. 1,000—17-3-98.]

Indexed.

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.

Government {1898} of Madras.

PUBLIC WORKS.

Recd.
Regd. } 1898.
Enclosures
Spare copies

G.O., Nos. 415, 416 I., 21st May 1898.

MAY.

Srivaikuntam Anicut

Forwarding copy of Proceedings sanctioning an estimate of Rs. 11,100 for providing screw-gearing shutters to the scouring sluices in the —, Tinnevelly division.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 22nd May 1897, No. 445 T.N.

With reference to your Memorandum No. VI/58 T.N., dated 2nd September 1896, I have the honour to forward, for your approval and sanction, an estimate amounting to Rs. 9,000, together with plan, for providing screw-gearing shutters to the scouring sluices in Srívaikuntam anicut as called for therein. A full description of the existing sluices and the arrangements now proposed to fit screw shutters is given in the report attached to the estimate. The newly raised portion of the crest 2′ in height over each bay is proposed to be demolished, as well as the old crest near the piers to its full width down to the level of 34·90, and over this a masonry platform faced on all sides with cut stone is proposed to be built up to the level of 40·40, or to a foot higher than the existing crest, which is considered necessary to allow a safe working of these shutters.

2. The estimate has been countersigned by the Collector of the Tinnevelly district.

To the Superintending Engineer, VI Circle, dated 31st May 1897, No. VI/31 T.N.

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 19th March 1898, No. 191 T.N.

I have the honour to retransmit the estimate for providing screw-gearing shutters to the scouring sluices in Srívaikuntam anicut, revised in accordance with your Memorandum No. VI/31 T.N., dated 31st May 1897.

2. The proposal to make the platform $8\frac{3}{4}'$ wide was with a view to avoid dismantling the groove stones, the grooves of which could have been deepened *in situ*.

3. The level of bottom of third course of stone from the old crest is $3\frac{1}{6}'$ from the sill. The vents are therefore now designed with top level the same as bottom of the second course, or 4′ $2\frac{1}{2}''$ above sill.

4. The platform level will be 1·95′ above the anicut crest, and considering the great rapidity with which the river rises, this is no disadvantage.

ENCLOSURE.

REPORT to accompany the estimate for providing screw-gearing shutters to scouring sluices in Srivaikuntam anicut.

	Rs.
Amount of estimate	9,000

The estimate is called for in Irrigation Chief Engineer's Memorandum No. VI/58 T.N., dated 2nd September 1896, communicated with Superintending Engineer's No. 1050 T.N., dated 9th September 1896. In paragraphs 1 and 2 of the Inspection notes of the former officer, printed with G.O., No. 713 I., dated 17th August 1893, orders are given to fit the scouring sluices in all the anicuts of the Tambarprani above Marudur with screw-gearing shutters of the pattern sanctioned for the under-sluices of the Pálár anicut in G.O., No. 371 I., dated 12th April 1892. It is proposed to fit in shutters of the same pattern to the scouring sluices in this anicut as they will suit.

2. There are nine scouring sluices at each flank of the anicut to keep clear the head of the channels taking off therefrom. They are in sets of three sluices, each set being in one of the bays into which the anicut is divided by the piers carrying the bridge above. Each sluice is now 4′ broad and 5′ 3″ high and is worked with needle shutters. As per instructions issued in the Chief and Superintending Engineer's No. VI/31 T.N., dated 31st May 1897, and No. 788 T.N., dated 23rd September 1897, respectively, it is proposed to make the top level of the vents coincide with the level of the bottom of the second course of stone from the old crest of anicut. This gives a height of 4′ $2\frac{1}{2}''$ for the vents. Plan showing the arrangement for dealing with sluices in one bay of the bridge is submitted, as this will do for all, and it will be seen from it that the platform for working the shutters is nearly $1\frac{3}{4}'$ above the crest of the anicut. This height of $1\frac{3}{4}'$ is an advantage, as rise of freshes in the river being rapid there will be time to get all the vents opened. Early sanction of estimate is requested.

(Signed) S. GOPALAKRISHNA AIYAR,
9th November 1897. Executive Engineer.

No. 144 I.

Note by the Chief Engineer for Irrigation.

The scouring sluices of the Srívaikuntam anicut are fitted with needle shutters and cannot usually be opened when freshes rise at all rapidly. One consequence of this is that there is always a large accumulation of sand in front of the south main channel head-sluice. This does not occur to the same extent on the other side of the river, but it is well to keep the river bed clear there also and diminish, as far as possible, the quantity of silt entering the channel. The tops of the vents are now at the old level of the anicut crest. It would be possible to raise them and supply longer shutters, but the cost would not be so far short of the present estimate for fitting screw shutters as to make the economy advisable.

2. As the full waterway over the anicut is required, nothing can be allowed to project much above the crest, and it has been necessary therefore to reduce the height of the vents to 4′ 2″, thus reducing their discharging power by probably one-third. Against this has to be set the advantage that the vents can always be opened in a short time and can therefore be always opened before the water rises too high for getting at them if those in charge do their duty.

3. The estimate is recommended for sanction.

(Signed) W. HUGHES,
15th April 1898. Chief Engineer for Irrigation.

ORDER—No. 415 I., dated 21st May 1898.

The following estimate is sanctioned :—

Capital Expenditure not charged to Revenue.
49. Irrigation.
Srívaikuntam Anicut System.
Open Capital Account.
I. Works.
1. Head Works.
3. Works.
Unremunerative work.
Providing screw-gearing shutters to the scouring sluices in the Srívaikuntam anicut, Tinnevelly Division.

Estimate—

	Rs.
I. Works	9,000
II. Establishment	2,070
III. Tools and plant	30
Total estimate ...	11,100

No. 415 I., 21st May 1898.

2. This sanction is registered as No. 37 I. of 1898–99 and will expire on 31st March 1900.

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

[Here enter No. 416 I., dated 21st May 1898.]

(True Extract.)

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

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

ENDORSEMENT—No. 416 I., dated 21st May 1898.

Forwarded.

(By order.)

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

Ed. C. Rajagopal.

IRRIGATION.
ACCOUNT.

Government {1898} of Madras.

PUBLIC WORKS.

Recd. } 1898. *Enclosures*
Regd. } *Spare copies*

G.O., No. 415 I., 21st May 1898.

MAY.

Srivaikuntam Anicut

Estimate of Rs. 11,100 for providing screw-gearing shutters to the scouring sluices in the —, Tinnevelly division, sanctioned, and a copy of the Proceedings ordered to be forwarded to the Government of India.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers:—

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 22nd May 1897, No. 445 T.N.

With reference to your Memorandum No. VI/58 T.N., dated 2nd September 1896, I have the honour to forward, for your approval and sanction, an estimate amounting to Rs. 9,000, together with plan, for providing screw-gearing shutters to the scouring sluices in Srívaikuntam anicut as called for therein. A full description of the existing sluices and the arrangements now proposed to fit screw shutters is given in the report attached to the estimate. The newly raised portion of the crest 2′ in height over each bay is proposed to be demolished, as well as the old crest near the piers to its full width down to the level of 34·90, and over this a masonry platform faced on all sides with cut stone is proposed to be built up to the level of 40·40, or to a foot higher than the existing crest, which is considered necessary to allow a safe working of these shutters.

2. The estimate has been countersigned by the Collector of the Tinnevelly district.

To the Superintending Engineer, VI Circle, dated 31st May 1897, No. VI/31 T.N.

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 19th March 1898, No. 191 T.N.

I have the honour to retransmit the estimate for providing screw-gearing shutters to the scouring sluices in Srívaikuntam anicut, revised in accordance with your Memorandum No. VI/31 T.N., dated 31st May 1897.

2. The proposal to make the platform 8¾′ wide was with a view to avoid dismantling the groove stones, the grooves of which could have been deepened *in situ*.

3. The level of bottom of third course of stone from the old crest is 3⅛′ from the sill. The vents are therefore now designed with top level the same as bottom of the second course, or 4′ 2½″ above sill.

4. The platform level will be 1·95′ above the anicut crest, and considering the great rapidity with which the river rises, this is no disadvantage.

ENCLOSURE.

REPORT to accompany the estimate for providing screw-gearing shutters to scouring sluices in Srívaikuntam anicut.

	RS.
Amount of estimate	9,000

The estimate is called for in Irrigation Chief Engineer's Memorandum No. VI/58 T.N., dated 2nd September 1896, communicated with Superintending Engineer's No. 1050 T.N., dated 9th September 1896. In paragraphs 1 and 2 of the Inspection notes of the former officer, printed with G.O., No. 713 I., dated 17th August 1893, orders are given to fit the scouring sluices in all the anicuts of the Tambarprani above Marudur with screw-gearing shutters of the pattern sanctioned for the under-sluices of the Pálár anicut in G.O., No. 371 I., dated 12th April 1892. It is proposed to fit in shutters of the same pattern to the scouring sluices in this anicut as they will suit.

2. There are nine scouring sluices at each flank of the anicut to keep clear the head of the channels taking off therefrom. They are in sets of three sluices, each set being in one of the bays into which the anicut is divided by the piers carrying the bridge above. Each sluice is now 4′ broad and 5′ 3″ high and is worked with needle shutters. As per instructions issued in the Chief and Superintending Engineer's No. VI/31 T.N., dated 31st May 1897, and No. 788 T.N., dated 23rd September 1897, respectively, it is proposed to make the top level of the vents coincide with the level of the bottom of the second course of stone from the old crest of anicut. This gives a height of 4′ 2½″ for the vents. Plan showing the arrangement for dealing with sluices in one bay of the bridge is submitted, as this will do for all, and it will be seen from it that the platform for working the shutters is nearly 1¾′ above the crest of the anicut. This height of 1¾′ is an advantage, as rise of freshes in the river being rapid there will be time to get all the vents opened. Early sanction of estimate is requested.

(Signed) S. GOPALAKRISHNA AIYAR,
Executive Engineer.

9th November 1897.

No. 144 I.

Note by the Chief Engineer for Irrigation.

The scouring sluices of the Srívaikuntam anicut are fitted with needle shutters and cannot usually be opened when freshes rise at all rapidly. One consequence of this is that there is always a large accumulation of sand in front of the south main channel head-sluice. This does not occur to the same extent on the other side of the river, but it is well to keep the river bed clear there also and diminish, as far as possible, the quantity of silt entering the channel. The tops of the vents are now at the old level of the anicut crest. It would be possible to raise them and supply longer shutters, but the cost would not be so far short of the present estimate for fitting screw shutters as to make the economy advisable.

2. As the full waterway over the anicut is required, nothing can be allowed to project much above the crest, and it has been necessary therefore to reduce the height of the vents to 4′ 2″, thus reducing their discharging power by probably one-third. Against this has to be set the advantage that the vents can always be opened in a short time and can therefore be always opened before the water rises too high for getting at them if those in charge do their duty.

3. The estimate is recommended for sanction.

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

15th April 1898.

ORDER—No. 415 I., dated 21st May 1898.

The following estimate is sanctioned:—

Capital Expenditure not charged to Revenue.
49. Irrigation.
Srívaikuntam Anicut System.
Open Capital Account.
I. Works.
1. Head Works.
3. Works.
Unremunerative work.

Providing screw-gearing shutters to the scouring sluices in the Srívaikuntam anicut, Tinnevelly Division.

	RS.
Estimate—	
I. Works	9,000
II. Establishment	2,070
III. Tools and plant	30
Total estimate ...	11,100

2. This sanction is registered as No. 37 I. of 1898–99 and will expire on 31st March 1900.

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

[Here enter No. 416 I., dated 21st May 1898.]

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

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

Ed. C. Rajagopaul.

Public Works (1898) Department.

CURRENT No. 3678

9

From the Chief Engr for Irrgn

Order

415 dt 21.5.98

No. 44 I.

Dated 15-4-98

Received

Registered 27-4-98

Enclosures 4 ff (2 plans)

Spare copies

SUBJECT.

Screw gearing shutters to the scouring sluices in Bri-Vaikuntam anicut — Revised estimates of Rs 11100 for providing — Note recommending for sanction thereof —

329

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

H.E. the Governor

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Estimate for providing screw gearing shutters & scouring sluices in the Srivaikunthum anicut Tinnevelly Dt.

51P

UNDER date the

READ the following

Print / Quote / Print

From the Supg. Engineer, 6th Circle } H.E. No 445. I.N. dt 22 May 1897

To 24P " do } H.E. No VI/31. I.N. dt 31 do

Print with above / Print

From — do } H.E. " 191. I.N. - 19 March/98

Note by the Chief Engineer for Irrign } H.E. No 144 I - 15th April 98

The scouring sluices of the Srivaikunthum anicut are fitted with needle shutters and cannot usually be opened when freshes rise at all rapidly. One consequence of this is that there is always a large accumulation of sand in front of the South main channel head sluices. This does not occur to the same Extent on the other side of the river but it is well to keep the river bed clear there also and diminish as far as possible the quantity of silt entering the channel. The tops of the vents are now at the old level of the anicut crest. It would be possible to raise them and supply longer shutters but the

Cost

Issue

III 10.4.98

I

cost would not be so far short of the present estimate for fitting screw shutters as to make the economy advisable.

2. As the full water-way over the anicut is required nothing can be allowed to project much above the crest and it has been necessary therefore to reduce the height of the vents to 4'-2" thus reducing their discharging power by probably one third. Against this has to be set the advantage that the vents can always be opened in a short time and can therefore be always opened before the water rises too high for getting at them if those in charge do their duty.

2. The estimate is recommended for sanction.

No 415-J, 21-5-98.

15/6/98 Order therein.

The following estimate is sanctioned.

Capital Expenditure not charged to Revenue.

49. Irrigation

Srivaikunthum anicut System.

Open Capital account

I. Works

1. Head works

3. Works 6P

~~Extension & Improvement~~ Unremunerative Work.

Providing screw gearing shutters to the scouring sluices in the Srivaikunthum anicut - Tinnevelly Division.

Estimate.

I. Works	Rs 9,000
II. Establishment	" 2070
III. Tools & Plant	" 30
Total Estimate	Rs 11,100

2. This sanction is registered as No 37 J of 1898-99 and will expire on 31st March 1900

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

(Endorsement No 416-J-4 21 Mar 98)

Forwarded.

15.6.98.

15/6/98.

To
The Chief Engineer for Irrign.
" Supdg. Engineer - 6th Circle with Tenders.
" Exr of P.W. Accts.

To India 23/5/98

4/11/98

4/11/98

C.E.I
22-3-98

Public Works (1898.) Department.

CURRENT No. // T.N.

Order

From The Supdg Engineer VI. circle

No. 191. T.N.

Dated 19th March 98

Received 21 —— do ——

Enclosures 4.

Spare copies

SUBJECT.

Screw gearing Shutters to the Scouring Sluices in Srivaikuntam anicut —— Retransmits the necessary Sanction for providing ——

E. I. Form No. 1—500—3-12-96.

BACK PAPERS.

No.	Date.
I 31 T.N dy	31. 5. 97 S
R 29 T.N	22-5-97
I 58 T.N	2-9-96
R 62 T.N	4-7-96

FURTHER PAPERS.

No.	Date.

4 Enc

Report to accompany the estimate for providing screw gearing Shutters to Scouring sluices in Srivaikundtham anicut.

Amount of Estate Rs. ~~9000~~ 9000.

1. The estimate is called for in Irrigation Chief Engineer's memorandum No. VI / 58. T.N dated 2-9-96 communicated with Superintending Engineer's No. 1050 T.N. dated 9-9-96. In paras 1 and 2 of the Inspection notes of the former officer printed with G.O. No. 713 I dated 17-8-93, orders are given to fit the scouring sluices in all the anicuts of the Tambraparni above Maruthur with screw-gearing shutters of the pattern sanctioned for the under-sluices of the Palar anicut in G.O. No. 371 I dated 12-4-92. It is proposed to fit in Shutters of the same pattern to the scouring sluices in this anicut as they will well suit.

Flagged Z

2. There are 9 scouring sluices at each flank of the anicut to keep clear the head of the channels taking off therefrom. They are in sets of three sluices, each set being in one of the bays into which the anicut is divided by the piers carrying the bridge above. Each sluice is now 4 ft broad and 5'—3" high and is worked with needle shutters. As per instructions issued in the Chief and Superintending Engineers' Nos. VI / 31. T.N dated 31-5-97 and 788 T.N dated 23-4-97 respectively it is proposed to make the top level of the vents

Flagged E.

Coincide

coincide with the level of the bottom of the second course of stone from the old crest of anicut. This gives a height of 4'—2½" for the vents. Plan showing the arrangement for dealing with sluices in one bay of the bridge is submitted as this will do for all and it will be seen from it that the platform for working the shutters is nearly 1¾ feet above the crest of the anicut. This height of 1¾ feet is an advantage as rise of freshes in the river being rapid there will be time to get all the vents opened. Early sanction of estimate is requested.

Encls: 1 Plan
1 Estimate.

G. Jackson
Executive Engineer.

9.11.97.

D.S.C.
3/3/98

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE,
Trichinopoly, 19th March 1898.

No. 191. T.N.

From Lt-Col. C. V. Boddy, R.E.
Superintending Engineer,
6th Circle.

To
The Chief Engineer,
for Irrigation

SIR,

4. ENCLOSURES.
1. Estimate with report & 4 copies complete.
1. Plan
1. Enlarged plan of screw gearing shutter.
1. Estimate for Screw Shutter.

Flagged I.

I have the honor to submit the estimate for providing Screw gearing Shutters to the Scouring sluices in Strivaikuntham anicut, revised in accordance with your Memorandum No: 67/31 T.N. dated 31 May 1897.

2. The proposal to make the platform 8¾' wide was with a view to avoid dismantling the groove stone, the grooves of which could have been deepened in Situ.

3. The level of bottom of 3rd course of stone from the old crest is 3½' from the sill. The vents are therefore now designed with top level the same as bottom of the 2nd Course, or 4'—2½" above sill.

4

4. The platform level will be 1.95' above the ancient crest, and considering the great rapidity with which the river rises, this is no disadvantage.

I have the honor to be
Sir.
Your Most obedt Servant,

V. F. Boadley Lt Col. R.E.
Supg Engineer, 6th Circle

CHIEF ENGINEER
FOR IRRIGATION.
27 MAR 1898
11 TN.

16/28/98

Nov 20

Public Works (1897) Department.

IRRIGATION BRANCH.

11

ISSUE No. 31 TN

To

The Supg Engineer
6th Circle

(Reply to letter No. , dated).

Dated 31-5-97
Despatched 3-6-97
Enclosures * 2

* Particulars of Enclosures.

1 Sketch with report &c.
1 Plan.

SUBJECT.

Sirwan Kanikan Ancient.
Estimate for shutters to the vents of the — Returned for revision & resubmission of the — with reference to the remarks noted within

Declared

E. I. Form No. 13—2,600—23-2-97.

BACK PAPERS.

No.	Date.
R 197 R	22.5.97

Sent to Government with No. I.,
dated 1897.
Printed with G.O., No. I.,
dated 189 .

REMINDERS ISSUED.

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

KEEP-WITHS

FURTHER PAPERS.

No.	Date.
R 117 N	19-3-98

E I Form No. 2—200—14-4-94

OFFICE OF THE CHIEF ENGINEER FOR IRRIGATION,
~~Madras~~, Coimbatore 31st May 1897.

D23
For panel of E.E.'s papers
to return.

VI

No. 31 TN

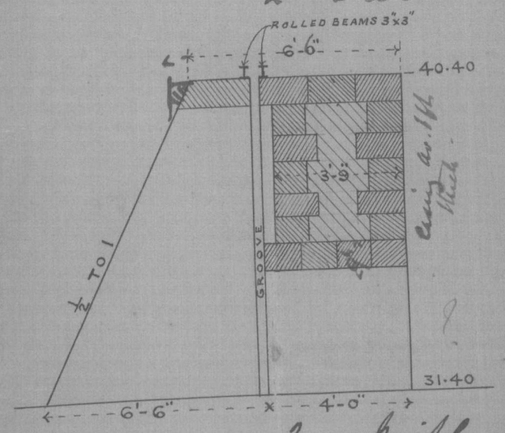
Irrigation

Enclosures. D

MEMORANDUM.

The estimate for shutters to the vents of the Srinaikunthum anicut received with the Superintending Engineer's Ro. 445 T. N. dated 22nd May 1897 is returned with the following remarks.

2. There is no need for a platform 8 2/4 ft wide nor for the extremely heavy stone work (700 cft a span) provided. If the anicut is raised with the present front batter (1/2 to 1) it will give a platform 6 1/2 ft wide which is quite sufficient (see marginal sketch)



3. With platforms 9 ft above sills it is possible to have vents more than 3 1/2 ft high. They could easily be made 4 ft or a little more but it will be better to make them with top level the same as bottom of 3rd course of stone from the old crest if this be anything between 3 3/4 and 4 1/4 ft from the sill. The vents

E.

nents should be covered with beam stones (not arched). The old covering stones ought to do for this. In no part of the work need there be any stone more than 9" thick. In fact anything over 7" would do for so small a span. Light rolled beams 3"×3" should be used to carry the shutters instead of rails. The screws should be 2¼" diameter.

4. It is requested that the estimate may be revised and returned without delay.

W.H

Chief Engineer for Irrigation

31/5/09

To

The Supt. Engineer
6th Circle

Rec'd 1/6/09

Jno G

E. I. Fo

189 .

From

THE CHIEF ENGINEER FOR IRRIGATION,

Dated

Despatched

Received

ENCLOSURES.

No.

Subject.

D 510
26/5/97

ublic Works (189 7) Department.

CURRENT No. 29 T R

Order

From

The Supg Engineer
6th circle

No. 445 T.W

Dated 22d May 1897

Received 26. 5. 97

Enclosures 2. 5

Spare copies

SUBJECT.

Sriankuntham anicut

Forwards for approval and sanction an estimate amounting to Rs. 9,000 + plan, for providing screw-gearing shutters to the scouring sluices in the Zo D E 9

LCL 26/5/97

26-5-97

BACK PAPERS.

~~G.O.~~	No.	Department.	Date.
I	58 T.R.	dy 2-9-96.	

FURTHER PAPERS.

G.O.	No.	Department.	Date.
R II JN	9	19-3-98	

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE,

No. 445 T.R.

Trichinopoly, 22nd May 1897.

From Lieut. C. V. Boddy R.E.
~~The~~ Superintending Engineer,
6th Circle.

To

The Chief Engineer,

for Irrigation

SIR,

2 ENCLOSURES.
1. Estimate
2. Plan.

With reference to your Memorandum No. III / 58 T.R. dated 2nd Septr. 1896, I have the honor to forward for your approval & sanction an estimate amounting to Rs. 9,000 together with plan, for providing scouring shutters to the Scouring sluices in Srivaikuntham anicut as called for therein. A full description of the existing sluices & the arrangements now proposed to fit screw shutters is given in the report attached to the estimate. The newly raised portion of the crest 2 feet in height over each bay is proposed to be demolished, as well as the old crest near the piers & its full width down to the level of 34.90 and

200—20-4-97

3,000—7-12-97.

over this a masonry platform faced
on all sides with cut stone is proposed
to be built up to the level of 40.40
or 2 feet higher than the existing
crest which is considered necessary
to allow a safe working of these
gates.

The estimate has been compiled
signed by the Collector of the
Tunnerally District.

I have the honor to be
Sir,
Your most obedient Servant,

[illegible]
Lt. Col. RE.
Supt Engineer, Nilgiris

CHIEF ENGINEER
FOR IRRIGATION
26 MAY 1891
No. 1129 T