Public Works (1896) Department.

G.O., No. 574 / 575

Dated 16-6-96

[Despatch Abstract.]

Thuttero: The estimate of Rs 5420 for two left — to be fitted in the Grand Anicut, Cauvery delta system, sanctioned, and a Copy of these proceedings ordered to be forwarded to the Govt of India for information.

=

Forwarded.

=

[P.W. 20. 1891-93 10-96.]

IRRIGATION.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

3/a

Dated June, 16th.

Read. *Encl.*

G.O. Nos. 514, 515 I., 16th June 1896.

JUNE.

Shutters

Forwarding a copy of the Proceedings sanctioning an estimate of Rs. 5,420 for two lift — to be fitted in the Grand anicut, Cauvery delta system.

5/a

No. 514 I., 16TH JUNE 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper :—

From Lieutenant-Colonel A. W. SMART, R.E., Superintending Engineer on Special Duty, to the Chief Engineer for Irrigation, dated Tanjore, 14th May 1896, No. 290.

In continuation of my No. 265, dated 6th May 1896, I have the honour to submit estimate Rs. 4,400 and plan for 2 lift shutters to be fitted in the Grand anicut, say, in the 9th and 18th spans from the west end. These will be required in connection with the proposed falling shutters in order—

(1) to lower the water level in small freshes and so prevent the fall of the falling shutters;

(2) to help in a rising flood to scour away sand accumulated in front of the shutters and so to ensure that they will fall.

I propose that one of the shutters should be worked with screws and the other with chain only to ascertain which is the best.

2. Of course in proposing 4 feet falling shutters I did so on the ground of economy only. Lift shutters would be much better and will prevent loss of water.

3. If the three vent surplus is built at the west end as proposed, there would be 27 vents of 32 feet left to be fitted with shutters of one kind or another—

	RS.
The cost of lift shutters would be at Rs. 2,200 each—22×2,200=	59,400
Cost of three vent surplus, say	50,000
Total ...	1,09,400

In my opinion the money would be well spent and we shall be able to pass down the Vennar more water than has been possible hitherto, or than will be possible with the falling shutters.

ENCLOSURE.

REPORT to accompany estimate Rs. 4,400 for two lift shutters, Grand anicut.

The shutters to be fitted to the 9th and 18th arches from the west end.

Parapet and arch to be cut away as shown on the plan and the piers built out 1½ feet. Floor to be levelled below. The shutters to be made of three rolled girders 3″×6″ with a skin of $\frac{3}{8}$″ iron, with three rollers on each side to reduce friction and counterweighted. One shutter to be worked by screws the other with chains passing over sprocket pulleys.

The rollers 9″ diameter, bushed with *lignum vitæ* and with 1½″ gun metal pins, to be attached as shown to the shutter by a spring plate, which will allow for deflection and so ensure the true bearing of rollers on the roller path.

The gearing, &c., to be carried by 12″×6″ two rolled girders placed 2½ feet from centre to centre, with 2½″ teakwood plank platform; and guard railing.

ORDER—No. 514 I., dated 16th June 1896.

The following estimate is sanctioned:—

Capital expenditure not charged to Revenue.
49. Irrigation.
Cauvery Delta System.
Open Capital Account.
1. Head Works.
3. Works.
Unremunerative Work.
Two lift shutters to be fitted in the Grand anicut.

	Rs.
I. Works	4,400
II. Establishment	1,012
III. Tools and plant	8
Total ...	5,420

2. This sanction is registered as No. 66 I. of 1896–97 and will expire on the 31st March 1898.

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

[Here enter No. 515 I., dated 16th June 1896.]

(True Extract.)

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

To the Chief Engineer for Irrigation.
" Superintending Engineer, V Circle.
" " " on Special Duty, Cauvery Completion Estimates, with three enclosures.
" Examiner, Public Works Accounts.

ENDORSEMENT—No. 515 I., dated 16th June 1896.

Forwarded.

(By order.)

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

Exd. P. Seetharam.,
Spare Copies

7a

IRRIGATION.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated June, 16th.

Read. *Encl.*

G.O. No. 514 I., 16th June 1896.

JUNE.

Shutters

The estimate of Rs. 5,420 for two lift — to be fitted in the Grand anicut, Cauvery delta system, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper :—

From Lieutenant-Colonel A. W. SMART, R.E., Superintending Engineer on Special Duty, to the Chief Engineer for Irrigation, dated Tanjore, 14th May 1896, No. 290.

In continuation of my No. 265, dated 6th May 1896, I have the honour to submit estimate Rs. 4,400 and plan for 2 lift shutters to be fitted in the Grand anicut, say, in the 9th and 18th spans from the west end. These will be required in connection with the proposed falling shutters in order—

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(2) to help in a rising flood to scour away sand accumulated in front of the shutters and so to ensure that they will fall.

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3. If the three vent surplus is built at the west end as proposed, there would be 27 vents of 32 feet left to be fitted with shutters of one kind or another—

	RS.
The cost of lift shutters would be at Rs. 2,200 each—22×2,200=	59,400
Cost of three vent surplus, say	50,000
Total ...	1,09,400

In my opinion the money would be well spent and we shall be able to pass down the Vennar more water than has been possible hitherto, or than will be possible with the falling shutters.

ENCLOSURE.

REPORT to accompany estimate Rs. 4,400 for two lift shutters, Grand anicut.

The shutters to be fitted to the 9th and 18th arches from the west end.

Parapet and arch to be cut away as shown on the plan and the piers built out 1½ feet. Floor to be levelled below. The shutters to be made of three rolled girders 3″×6″ with a skin of $\frac{3}{8}$″ iron, with three rollers on each side to reduce friction and counterweighted. One shutter to be worked by screws, the other with chains passing over sprocket pulleys.

The rollers 9″ diameter, bushed with *lignum vitæ* and with 1½″ gun metal pins, to be attached as shown to the shutter by a spring plate, which will allow for deflection and so ensure the true bearing of rollers on the roller path.

The gearing, &c., to be carried by 12″×6″ two rolled girders placed 2½ feet from centre to centre, with 2½″ teakwood plank platform; and guard railing.

Order—No. 514 I., dated 16th June 1896.

The following estimate is sanctioned:—

Capital expenditure not charged to Revenue.
49. Irrigation.
Cauvery Delta System.
Open Capital Account.
1. Head Works.
3. Works.
Unremunerative Work.
Two lift shutters to be fitted in the Grand anicut.

	Rs.
I. Works	4,400
II. Establishment	1,012
III. Tools and plant	8
Total ...	5,420

2. This sanction is registered as No. 66 I. of 1896-97 and will expire on the 31st March 1898.

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

[Here enter No. 515 I., dated 16th June 1896.]

(True Extract.)

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

To the Chief Engineer for Irrigation.
" Superintending Engineer, V Circle.
" " " on Special Duty, Cauvery Completion Estimates, with three enclosures.
" Examiner, Public Works Accounts.

Exd. P. Seetharam.
Spare Copies

Public Works Department,
Irrigation Branch.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

From the Supdg Engr, Special duty Cauvery Completion Estimates, No 290 dy 14 may/96.

The following estimate is sanctioned:—

Capital Expenditure not charged to Rev.
49. Irrigation
Cauvery Delta System
Open Capital Account
1. Headworks.
3. Works.
Unremunerative work.
Two lift shutters to be fitted in the Grand Anicut.

	Rs/
I. Works . . .	4400
II Establishment.	1012
III Tools & Plant.	8
Total	5420/

2. This sanction is registered as No

66 J of 1896-97 & will expire on the 31st March 98.

3. Ordered that a copy of these Proc: be forwarded to the Govt of India for information.

Endorsement.

Forwarded.

Encls.

Recd 5/6

Recd 11/6

Recd 15/6

Regd 16/6

DESPATCHED

To The Chief Engr for J.
Supt Engr Q Circle
Do Special duty
Canvey Completion with 2 Encls.
Estimates
2 " Plans

E. I. Form No 1—1,000—27-11-96.

Estimate for two lift Shutters to be fitted in the Grand Anicut Canvey Delta System

Report to accompany Estimate Rs 4400 for 2 lift shutter Grand Anicut

The shutter to be fitted to the 9th and 18 arches from the west end. 2

Parapet and arch to be cut away as shewn on the plans and the piers built out 1½ ft. Floor to be levelled below. The shutters to be made of 3 rolled girders 3"x6" with a skin of 3/8" iron, with 3 rollers on each side to reduce friction and counter-weighted. One shutter to be worked by screws; the other with chains passing over sprocket pulleys.

The rollers 9" diameter, bushed with bronze and with 1½" gun metal pins to be attached as shewn to the shutter by an spring plate, which will allow for deflection and so ensure the true bearing of rollers on the roller path.

The gearing &c to be carried by 12"x6" two rolled girders placed 2½ ft from centre to centre, with 2½" teakwood plank platform, and guard railing.

Encls. 3.
1 Detailed Estimate two Sheets.
2 Abstract Estimate
3 Drawing Plan

Lt Colonel
Superintending Engineer
14-5-96 on Special duty

Office of the Superintending Engineer
& Cannery Completion Estimate
Tanjore dated 14th May 1896.

No 290

From

Lt Col A.W. Smart RE
Superintending Engineer
on Special duty

To,

The Chief Engineer for Irrigation
Madras.

Sir,

In continuation of my No 265 dated 6th May 1896, I have the honor to submit estimate & plans for 2 lift sluices to be fitted in the Grand Anicut — say in the 9 and 18th Spans from the west end. These will be required in connection with the proposed falling shutters in order

1) to lower the water level in small freshes and so prevent the fall of the falling shutters

2) to help in a rising flood to scour away sand accumulated in front of the shutters and so to ensure that they will fall.

I propose that one of the shutters should be worked with screws and the other with chains only to ascertain which is the best.

Encls 4
1 Report
1 Detailed Est
1 Abstract Est
1 Tracing plan

2. Of course in proposing 4 lift falling shutters

shutters I did so on the ground of economy only. Lift shutters would be much better and will prevent loss of water.

3. If the three vent surplus is built at the west end as proposed, there would be 27 vents of 32 ft left to be fitted with shutters of one kind or another.

The cost of lift shutters would be at Rs 2200 each — 22 × 2200 = Rs 59,400

Cost of 3 vent surplus say Rs 50,000

109,400

In my opinion the money would be well spent and we shall be able to pass down the Vemar more water than has been possible hitherto, or than will be possible with the falling shutters.

I have the honor to be
Sir,
your most obed.t Servant

Edmund Locke

Superintending Engineer
on spl. duty

CHIEF ENGINEER
FOR IRRIGATION.
16 MAY 96
No.

C. W. CURRENT No.

From.

Lt Col A. W. Swaine R.E.
Superintending Engineer
on special duty

To. The Chief Engineer for
Irrigation

Dated 14th
Desp.d 14th } May/96
Rec.d

No 290

Subject

Submitting angle Robbon,
and plan for 2 lift sluices
to be fitted in the Grand
Canal 9ft and 8ft wide.