Public Works (1899) Department.

G.O., No. 456

Dated 29 May 1899

[Despatch Abstract.]

Stone groyne

Estimate of Rs 5660 for constructing a —— at 13¼ miles, on the left bargin of the Cauvery river in the Panayapuram limits, Trichinopoly ~~District~~ Division, sanctioned

P. W. 26. 250-27-4-99.

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 {1899} of Madras.

PUBLIC WORKS.

Recd.
Regd.
} 1899.
Enclosures
Spare copies

G.O., No. 456 I., 29th May 1899.

MAY.

Stone groyne

Estimate of Rs. 5,660 for constructing a — at 13¼ miles, on the left margin of the Cauvery river in the Panayapuram limits, Trichinopoly division, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

From the Superintending Engineer, VI Circle, dated 6th Dec. 1898, No. VI/29 T.C.
" " VI " " 17th March 1899. No. 512 T.C.
To the " " Engineer, VI Circle, dated 22nd March 1899, No. VI/13 T.C.

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 5th May 1899, No. 781 T.C.

With reference to your memo. No. VI/13 T.C., dated 22nd March 1899, I have the honour to submit, herewith, an estimate, amounting to Rs. 5,660, for the construction of a stone groyne in the line of the old stop bank on the left bank of the Cauvery river in the Panayapuram limits. The site I fixed on for the stone groyne seemed to me to be the best, as it caught the set of the current, and I considered that the margin above it could be gradually reclaimed by continuing planting operations.

2. The short groynes which I proposed below the stone groyne had for object the deposition of silt behind them in order to facilitate planting and the reclamation of the margin. All possible planting has already been carried out. With deep water at this locality close to the bank, the reclamation of the margin to the normal alignment must take a long time as it can only be gradually accomplished.

3. The estimate for the hurdle groyne and modassil work will be sanctioned by me. The Executive Engineer proposes to make the hurdle groyne 300 feet long, but as such a groyne could not possibly stand the river current, it will be built for a length of 150 feet only. The protection to the eroded bank will be carried out with modassil instead of short groynes.

4. I also forward a copy of letter from the Executive Engineer, No. 57 S.E., dated 22nd April 1899, for your information.

ENCLOSURES.

From J. INGLIS, Esq., Executive Engineer, Trichinopoly Division, to the Superintending Engineer, VI Circle, Trichinopoly, dated 22nd April 1899, No. 57 S.E.

With reference to your letter No. 556 T.C, dated 25th March 1899, I have the honour to forward, herewith, two estimates for sanction—

No. 1 estimate provides for putting up a stone groyne in the Cauvery left margin, 13¼ miles, at the site selected by the Chief Engineer.

No. 2 estimate provides for putting up a groyne, 300 feet long, composed of cocoanut horses and modassal work, at the site chosen by the Chief Engineer and also for seven hurdle groynes each 25 feet long, to protect the margin. An alternative estimate is also submitted, substituting modassal work for the hurdle groynes, as suggested by the Chief Engineer.

I think however that the hurdle groynes will be more effective than the modassal, and I would recommend that the estimate providing hurdle groynes be sanctioned.

The instructions of the Chief Engineer regarding the use of iron spikes, instead of coir-rope and the provision of wicker-wells, for securing the legs of the cocoanut horses, have been attended to.

With reference to the Chief Engineer's remarks regarding nanel planting, I have the honour to inform you that the planting actually carried out in 1897–1898 and 1898–99 has been marked on the survey in full and dotted red lines respectively.

The planting done in 1897–98 was not successful as most of it was either covered over with sand or washed away.

In this connection, I may say that this planting was all properly done and was check-measured by myself. As regards the planting done this year, it was found that the water close to the margin, from A to B, was too deep to permit of planting, hence the strip shown on the survey had to be left unplanted.

The whole of the eroded margin from C to D was planted both this year and last with nir-nochi and wild cane, both of which have grown well, especially the former. This planting was done with the object of reclaiming the eroded margin, and as it has not proved successful, the necessity for the groynes, now estimated for, has arisen.

Three sections showing the level of the river bed between the margin and the large sand lunka have been plotted on the survey, according to your personal instructions.

The survey will follow as soon as the sections are taken.

REPORT to accompany estimate for constructing a stone groyne at 13¼ B.M. in the Cauvery left margin (near Panayapuram).

	RS.
Estimate	5,660

This estimate provides for putting up a stone groyne at the set in the 13¼ miles of the left margin referred to by the Chief Engineer for Irrigation, in his No. VI/29 T.C., dated the 6th December 1898.

The site has been fixed by the Chief Engineer and the same is noted on the survey. The groyne will be 100 feet long with necessary tail bank joining on to the Srírangam nattuvoikal right bank.

The stone will be packed at a slope of ¾ to 1 below low water level and at ½ to 1 above it. The stone will be confined at the base of the groyne, by a row of country wood piles 6 inches diameter and 2 feet apart from centre to centre right round.

The work will be done in strict accordance with the standard specification and in a workmanshiplike manner.

No. 101 I.

Note by the Chief Engineer for Irrigation.

The accompanying estimate of Rs. 5,660 submitted by the Superintending Engineer, VI Circle, provides for constructing a stone groyne in the line of the old stop bank on the left margin of the Cauvery river, in the Panayapuram limits, Trichinopoly division, for the reclamation of the eroded portion of the left bank. The estimate may be sanctioned. The proposals of the Superintending Engineer, with reference to the temporary groyne and modasil to be constructed in connection with the stone groyne are approved, and estimates for which will be sanctioned by the Superintending Engineer himself under "repairs."

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

22nd May 1899.

ORDER—No. 456 I., dated 29th May 1899.

The following estimate is sanctioned :—

Irrigation.
43. Minor Works and Navigation.
Agricultural Works.
Trichinopoly Division.
Original Works.

Constructing a stone groyne at 13¼ miles on the left margin of the Cauvery river in the Panayapuram limits.

	Rs.
Estimate	5,660

2. This sanction is registered as No. 14 I. of 1899–1900.

(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.

Exd. Shaik Karim.

Public Works (1899) Department.

CURRENT No. 4176

450

From The Chief Engr for Irrign

Order

No. 1012.

Dated 19 - May 99.

Received

Registered 26.5.99

Enclosures 13 (3 plans).

Spare copies.

SUBJECT.

Constructing a stone groyne on the left bank of the Cauvery in Panayapuram limits, Trichr Dt —

Recommending for sanction estimate for Rs 5660 for —

S/

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Estimate of Rs 5660 for constructing a stone groyne on the left margin of the Cauvery river

UNDER date the

READ the following

From the Supg. Engineer VI Circle, No. VI/29.T.C dy 6th Decr. 1898.
From the —— do —— No. 572.T.C. dy 17th March 1899.
To the —— do —— No. VI/13.T.C dy 22nd March 1899.
From the Public Works Secretary No. 781.T.C. dy 5th May 1899.

Note by the Chief Engineer for Irrigation No. 1019

10

Issue

WH

225 99

I

F.2.9

The accompanying estimate of Rs. 5,660 submitted by the Supg: Engineer, 6th Circle, provides for constructing a stone groyne in the line of the old stop bank on the left margin of the Cauvery river, in the Panayaparam limits, Trichinopoly division for the reclamation of the eroded portion of the left bank, and has eroded the margin.

The estimate may be

sanctioned. The ~~latter to follow~~ temporary (proposals of the Supdg Engnr. with reference to the
groyne and modasil to be
constructed in connection
with the stone groyne will be (are approved, and estimates for which
sanctioned by the Supdg:
himself
Engineer under "repairs".

Order thereon. No: 456 Dy 29-5-99.

The following estimate is
sanctioned:—

Irrigation.

43. Minor works & Navigation.

Agricultural works.

Trichinopoly Division.

Original works.

Constructing a stone groyne,
at 13¼ miles, on the left margin
of the Cauvery river in the
Ramayapuram limits.

	Rs
Estimate	5,660.

2. This sanction is registered
as No. 14 I of 1899-1900.

19/5
99.

19.5.99

To. The Chief Engineer for Irrign
& Supdg: — do — VI Circle
with ~~his~~ enclosures.

E. I. Form No. [illegible]

781 TC

Public Works (1899) Department.

CURRENT No. 24 TC

Urgent

From

The Supdg Engineer
VI Circle

Order

May the b sanctioned
after check — it is
proposed according to
instructions given
Approval to the other
steps taken for protection
deems necessary.

8/5/99

Dated 5th May 1899.
Received } 6 — do
Registered }
Enclosures 5 (4 cards for packet Sanct.)
Spare copies.

SUBJECT.

Stone groyne in the left
bank of the Cauvery in
Ramayapuram limits —
Submitting for sanction
an Estimate of Rs 5,660 for
Constructing a ——

TCS 10/5/99

Agreed

The Estimate has been
check - the S.E. has proposed
to construct the groyne at his
site selection by him & submitted
to G.O. the latter has a [illegible]

TCS 6/5/99

The site proposed by E.E. in
approved by S.E. in [illegible]
No. XII

BACK PAPERS.

No.	Date.
1BTC	22-3-99
A15TC	17-3-99
13-VI	15-3-99
14-VI	11-2-99
129TC	6-12-98

FURTHER PAPERS.

No.	Date.

W: No: 5 D.S. C. VI. No: 781 TC / 5-5-99

25

Letter from John Inglis Esqre, Executive Engineer, Trichinopoly Division, to the Superintending Engineer, VI circle, Trichinopoly, dated 22d April 1899. No: 57. S.O: —

CHIEF ENGINEER FOR IRRIGATION. 6-MAY. 1899. 24 T.C

Encls: 8.

With reference to your letter No: 556 T.C dated 25-3-99. I have the honor to forward herewith two estimates for sanction -

No: 1. Estimate provides for putting up a stone groyne in the Cauvery Left margin, 13¼ mile, at the site selected by the Chief Engineer.

No: 2. Estimate provides for putting up a groyne 300' long, composed of cocoanut horses and modassal work, at the site chosen by the Chief Engineer and also for 7 hurdle groynes each 25' long, to protect the margin.

An alternative estimate is also submitted, substituting modassal work for the hurdle groynes, as suggested by

by the Chief Engineer.

I think however that the hurdle groynes will be more effective than the modassul, and I would recommend that the estimate providing hurdle groynes be sanctioned.

The instructions of the Chief Engineer regarding the use of iron spikes, instead of coir-rope and the provision of wicker-wells, for securing the legs of the coco-nut horses, have been attended to.

With reference to the Chief Engineer's remarks regarding naval planting, I have the honor to inform you that the planting actually carried out in 1897-1898 & 1898-99 has been marked on the survey in full and dotted red lines respectively.

The planting done in 1897-1898 was not successfull as most of it was either covered over with sand or washed away.

In this connection, I may say that this planting was all properly done and was check-measured by

myself. As regards the planting done this year, it was found that the water close to the margin, from A to B was too deep to permit of planting, hence the strip shown on the survey had to be left un-planted.

The whole of the eroded margin from C to D was planted both this year, and last with nir-nochi and wild cane, both of which have grown well, especially the former. This planting was done with the object of reclaiming the eroded margin, and as it has not proved successful, the necessity for the groynes, now estimated for, has arisen.

Three sections showing the level of the river bed between the marg and the large sand kunka have been plotted on the survey, according to your personal instructions.

The survey will follow as soo as

as the sections are taken.

|True copy|

J. V. Roddy Lieutt: Colr RE

Supg engineer. 6: circle

5-5-99

7

A

Encld 4
3
1: Plan of stone groyne
1: Detail plan of stone groyne
1: Estimate with reports — 3
4 3

4 9

Report to accompany Estimate for constructing a stone groyne at 13¼ C. M. in the Cauvery left Margin (near Panayapuram).

Estimate Rupees. 5660—

This Estimate provides for putting up a stone groyne at the set in the 13¼ mile of the left Margin reported to by the Chief Engineer for Irrigation in his Ltr. No. III. 29 T.C. dated the 6th December 1898.

The site has been fixed by the Chief Engineer and the same is noted on the Survey. The groyne will be 100 ft long with necessary tail bank joining on to the Srirangam Kattalai vaikal Right bank.

The stone will be packed at a slope of 3/4 to 1 below low water level and at 1/2 to 1 above it.

The stone will be confined at the base of the groyne, by a row of Coombry wood piles 6" diameter and 2 feet apart from centre to centre right round.

The work will be done in strict accordance with the Standard Specification and in a workmanshiplike manner.

John Inglis
Executive Engineer
Trichinopoly Dt.
20/4/99

No. 781 T.C.

Supdg Engineer office, 4th Circle
Tuticorin 5th May 1899.

From

Lt-Col. A. T. Boddy R.E.
Superintending Engineer
4th Circle

CHIEF ENGINEER FOR IRRIGATION. 6 MAY 1899. 24 T.C.

To

The Chief Engineer
for Irrigation

Sir,

Enclos: 5

1. Survey
2. Plans
1. Estimate with report &c. complete
1. Copy of Ex. Engs letter No. 578 22.4.99

With reference to your Memorandum No. 111 13 T.C. dated 22 March 1899, I have the honor to submit herewith an estimate amounting to Rs 5660 for the construction of a Stone Groyne in the line of the old Stop Bank on the Left Bank of the Cauvery River in the Pavayapuram limits. The site I fixed on for the Stone Groyne seemed to me to be the best, as it caught the set of the current, and I considered that the margin above it could be gradually reclaimed by continuing planting operations.

2. The Short Groynes which I proposed below the Stone groyne had

Nos: 1 to 4 (Sent to Consult. Port)

for object the deposition of silt behind them in order to facilitate planting and the reclamation of the margin. All possible planting has already been carried out. With deep water at this locality close to the bank, the reclamation of the margin to the normal alignment must take a long time as it can only be gradually accomplished

3. The estimate for the hurdle groyne and Modasoil work will be sanctioned by me. The Executive Engineer proposes to make the hurdle groyne 300' long, but as such a groyne could not possibly stand the river current, it will be built for a length of 150' only. The protection to the eroded bank will be carried out with modasoil instead of short groynes.

4. I also forward a copy of letter from the Executive Engineer No: 57 S.E. dated 22 April 1899, for your information.

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

J. V. Boddy Lt.Col. R.E.
Superintending Engineer
N Circle

Public Works (1899) Department.

IRRIGATION BRANCH.

VI

ISSUE No. 13 T.C

To

The Supg Engineer 6 Circle

(Reply to letter No. 572 Tc, dated 17.3.99)

Dated 22. 3. 99

Despatched 23. 3. 99

Enclosures *5

* Particulars of Enclosures.

1 Survey
1 Section of Shoe Groyne
1 do Hurdle do
1 Sale with report &c
1 old Survey prepared in 1882.

Gs No 1902/76 dt 26.7.76

Ref to SCs letter No 15 T.C/99 dt 17.3.99

Please say what is to be done with the enclosures received with Rep 15 T.C/99

They do apparently go back to the Supg Engr as he is to approve the Sale

Ref. 1 4176/98

SUBJECT.

Cauvery left bank in the Saravapuram limits—

States that the S.E. does not seem to have in view the reclamation of the eroded margin of the — and points out what should have been done for the protective works. and invites SE's attention to Govt 1902 dt 26.7.76 with regard to the incidence of charge for the

E. I. Form No. 13—4,000—7-1-99

BACK PAPERS.

No.	Date.
R15TC	17-3-99

FURTHER PAPERS.

No.	Date.
R22C 8-4-99	
R40C 9 5-5-99	

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

REMINDERS ISSUED.

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

KEEP-WITHS.

17
No 13 T.C. dy 22/3/99

S. E VI

Ref S. E's No 872 TC dy 17-3-99

Ex. 5

The S.E does not seem to have in view the reclamation of the eroded margin of the Canvey left bank in the Panayar Varam limits. The protective work provided in the estimate is only a temporary & pedestal and little better than absolute uselessness — What should have been done was to lay down the axis and trimmed margin of the new outer slope and arrange to reclaim as much of the normal margin as far as circumstances permit. In the Scheme of planting keyed upon the margin marked in pencil A B on the map must now be accepted as the normal margin. The Stone Pitching provided in the estimate should be built on line of the old Slope bank and another

Groyne of Cúrgamul horse and mudwall (there being no time to collect enough stone)
built where the S.E. pursued
to place the stone groyne.
The short groyne provided
in the estimate cannot
afford much protection as
the sea will set nearly
straight on to them & should
work would probably do as
well - It is essential
that the feet of the horse
in groyne and mudwall
should be sunk in
trenches - where the sea bed is sand
below low water
plan many successfully
adopted in Tanjore - They
would not otherwise have
a chance of standing in such
a place - The shells & rock
should be used in fastening
the latter to be as the expense
of procuring would be
trifling -

22.3.99 WH.

2. With regard to the incidence
of charge for the work, the
Supg Engineer's attention
is drawn to Go. No 1902 d/26.7.76.
only the stone groyne is to be
classed as an original work. -

→ Given to Supg Engr in connection with Estimate for Groynes at Devipattinam

Do to Asst. E.E. add to para 2.

6/3/99

4/4/99

Public Works (1899) Department.

CURRENT No. 157 G

From

Asst Engr Tanjore

Order

No. 512 TC

Dated 17 March 1899

Received 18 - do

Registered

Enclosures 5 (Each separate)

Spare copies

SUBJECT.

Repl. Margin of the Sea-
-wall at 13¼ M. in Da-
-rasuram Limits —

Submitting for sanction
an Estimate of Rs 10,800 for
Constructing Stone Groyne
for protecting the

with RLJC/99

24/3/99

24-3-99

BACK PAPERS.

No.	Date.
129 T.C.	6-12-98
1340	15-3-99

FURTHER PAPERS.

No.	Date.
1425	5-5-99

No. 512 T.C.

512 T.C.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE,
Trichinopoly, 17th March 1899.

D/17.

From

Lt.-Col. A. T. Boddy R.E.
Superintending Engineer,
6th Circle.

To

FOR
18 MAR. 1899
No. 15 T.C.

The Chief Engineer,
for Irrigation

SIR,

5 ENCLOSURES.

1. Survey Hdqrs. D
1. Sketch of stone groyne
1 do. Hurdle groyne
1. Estimate with report &c.
1. old survey prepared in 1882

F. X.

X Sent separately

With reference to your Memo No: 129 T.C. dated 6th December 1898, I have the honor to forward herewith for sanction an estimate amounting to Rs 10,800 for protecting the left margin of the Causeway at 13¼ B.M. in Panayapuram limits.

2. The estimate provides for the construction of a stone groyne 100 feet long at the head of the set, and for 14 hurdle groynes below 25' long and spaced 75' apart.

3. The Stone and Hurdle groynes will be connected with high land by tail banks, and will protect a length of 1300'. For a further length of 600' the existing modassil work will be repaired and strengthened.

4. I think that by these means further erosion will be stopped. If found to be necessary another stone groyne could be put in next year.

5. All possible planting up with Manuka and Nikau has been done.

6. This portion of the margin seems to be liable to erosion. I forward a survey of the site dated 1882 from which it will be seen that the erosion then was nearly up to the Kaitoke Railway.

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

P. P. Bromley Lt.-Col. R.E.
Supg Engineer, Circle

Ans. 12/12
4126 (98)

Public Works (1898) Department.

IRRIGATION BRANCH.

VI

ISSUE No. 29 T.C.

To
The Supg Engineer Circle

4589

(Reply to letter No. , dated)

Dated 6-12-98

Despatched 10 12 98

Enclosures *

* Particulars of Enclosures.

SUBJECT.

Erosion of the Canvery left bank on the 5th (road) mile below the Trentham Bridge — &c. — Writes Sd's attention to the — and requests with instructions that the Supt Irrigation should give this matter their close personal attention and arrange for the early execution of whatever work is found necessary & for which funds can be provided.

Ordered

E. I. Form No 13—2,000—4-6-98.

BACK PAPERS.

No.	Date.

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

REMINDERS ISSUED.

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

KEEP-WITHS.

FURTHER PAPERS.

No.	Date.
R4-II	11-2-99
K15JC	17-3-99
R4JC	25-5-99

VI
No 29 T.C. 4/6 1899

S.R. VI

The Supt. Engineer's attention is drawn to the erosion of the Canvey Left bank in the 5th (road) mile below the Indin Jetty bridge. The importance of the erosion does not appear to have been realised. If it be not stopped and the padyri reclaimed as old marshes formerly the river may form a new course for itself. At present there is an island near the middle of the river mouth in the 5th mile nearly 200 yards across and from the head of the island a bar extends across towards the right bank. In fact the river tends to pass entirely between the island and the left bank. Some mud dredging is said to have been done in the locality but it has taken place last year

and it has been blended this year but the protection which it has given has not been very effective and apparently no planting has been done to take the place of the latter Screens as they decay. The first thing to be done is to plant the eroded margin with reed & cane above water and willows below, to restrain the undercut and to eradicate from the island all traces of vegetation. — The river Survey should be corrected and the present margin and islands shown — At the head of the Delta at least two Stone groynes will be required to turn the current. These groynes must be carried out to the line of proposed reclamation Boards of lighter class gravel may be found sufficient but the most suitable class of rock can be decided only after a survey in which the

should be marked, if available. The Supt. and Executive Engineer should give the matter their close personal attention and arrange for the early execution of whatever work is found necessary and for which funds can be provided.

6/2/05 WH