Public works

~~Marine~~ (1899) Department.

G.O., No. 369 & 370

Dated 20th April 1899

[Despatch Abstract.]

Periyar Project

Revised Estimate for Rs 4180 for excavating a distributary from the right Sluice at Drop No 1 of Kunnathur off lake, 9th Branch Channel, ——, Approved with Remarks, And a Copy of the Govt: ordered to be forwarded to the Govt: of India

Periyar Project

Forwarding Copy of Govt: Abstract with Remarks, a revised Estimate of Rs 4180 for excavating a distributary from the right Sluice at Drop No 1 of Kunnathur off lake, 9th Branch Channel, ——

809—23-8-97.

4413/5

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. } 1899. *Enclosures*
Regd. *Spare copies*

G.O., Nos. 369, 370 I., 20th April 1899.

APRIL.

Periyar Project

Forwarding copy of Proceedings approving, with remarks, a revised estimate of Rs. 4,180 for excavating a distributary from the right sluice at drop No. 1 of Kunnathur offtake, 9th Branch channel, —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following paper:—

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 2nd February 1899, No. 142 M.D.

I have the honor to submit herewith a revised estimate for excavating a distributary from the sluice in right bank at drop No. 1, Kunnathur offtake from the 9th Branch channel.

2. The original estimate was sanctioned for Rs. 2,860 in G.O., No. 885 I., dated 28th October 1896.

3. In the report it is said that the first 1,600 feet being through rocky ground natural rapids will be allowed at convenient places and this involved a bed fall of 73·2 feet per mile. Solid rock was not, however, found, except in the first 200 feet, and the result is that the banks have been much eroded and undercut by the current. It is therefore necessary to reduce the fall by the introduction of suitable drops.

4. The rough stone byewashes provided for in the original estimate are ineffective, and water leaks freely through them. It is therefore necessary to replace them by masonry weirs.

5. It was necessary to construct the 6-inch pipe culvert across the Madura-Mélúr road as ryots holding land to the east of the road could not get water to their fields.

6. These additional works are most necessary, and I recommend the revised estimate amounting to Rs. 4,450 for sanction.

Enclosures.

Report to accompany the estimate for excavating a distributary channel and constructing masonry works from right sluice of drop No. 1, Kunnathur offtake, 9th Branch channel.

	Rs.
Amount of original estimate	2,860
Do. of revised estimate	4,180

The present estimate provides for the following additional works and their necessity is as explained below:—

(1) In the original estimate as the distributary channel runs close by Anámalai hills a bed fall of 73·2 feet per mile was allowed from the right sluice of drop No. 1 in Kunnathur offtake as far as 16th chain in the distributary in consideration of the rocky nature of the soil. On actual execution, it was found that the soil is composed of boulders of rock here and there without any solid beds of rock except in the first 200 feet and when water was let in, the channel was much scoured out owing to the rapid fall. It is therefore proposed to insert 3 drops of 5 feet in the middle to reduce the fall at the head of which drop No. 3 has already been built (see paragraph 3 of report).

(2) Five rough stone paved byewashes were provided for in the original estimate and on actual experience it is found that they leak much allowing considerable amount of water to escape through them thus depriving the lands lower down of water. It is therefore proposed to build 5 masonry weirs in the left bank at the same sites as per accompanying type design.

(3) A 6-foot drop was originally proposed for the field channel (running parallel to the offtake) from the distributary. As sound rock was met with at site, there was no necessity for building the drop and it has already been built on the main distributary channel at 1,310 feet to lessen the bed fall. A masonry sluice has been built in place of the drop in the branch distributary as the original drop of 6 feet served as a regulator.

(4) A 6-inch pipe sluice above the proposed drop No. 3 in right bank is provided for irrigating some waste lands in right flank of the right distributary.

(5) Another paved byewash No. 4 at 4,550 feet was found necessary and built as the channel breached at that place during heavy rain. A weir 12 feet long is now proposed to be built in its place.

(6) A 6-inch pipe culvert has been built across Madura-Mélúr road for irrigating the waste lands on the east of the road.

(7) The works that are still to be done are drops Nos. 1 and 2 and masonry weirs.

The work will be carried out in strict accordance with the provisions of the standard specification and with the best practice of the department.

(Signed) T. W. S. SMYTH,
Special Ex. Engr., Periyár Divn., Madura.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual work.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	Rs.	Rs.	Rs.	Rs.
	49. Irrigation.				
	Periyár Project.				
	1. Work.				
	3. Distributaries.				
	9th Branch channel.				
	No. 1 Drop, Kunnathur offtake.				
	Channel from right sluice.				
	Remunerative works.				
2. Lands ..	1. Compensation for land	357	357		
3. Works ..	2. Five masonry weirs 12 feet long, each Rs. 120 ..	600			
	3. One masonry weir 20 feet long	150			
	4. Three 5-foot drop, each Rs. 255	765			
	5. One 8-foot drop	300			
	6. Five earthenware pipe sluices, each Rs. 30 ..	150			
	7. One road pipe culvert	100			
	8. One masonry sluice	60			
	9. Two road culverts, each Rs. 95	190			
		1,432	2,315		
4. Earthwork ..	10. Cutting channel	1,432	1,432		
5. Miscellaneous.	11. Demarcation stones	76	76		
	Total ..	..	..	4,180	..

(Signed) O. V. BODDY, Lt.-Col., R.E.,
Superintending Engineer, VI Circle.

From the Superintending Engineer, VI Circle, No. 153 M.D., 2nd February 1899.
To the " " " " VI/18 M.D., 8th February 1899.

No. 61 I.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits for sanction the accompanying revised estimate of Rs. 4,450 for excavating a distributary from the right sluice at drop No. 1 of Kunnathur offtake, 9th Branch channel, Periyár project, involving an excess of Rs. 1,590 over the sanction accorded in G.O., No. 885 I., dated 28th October 1896. The excess is attributed to the provision of suitable drops to reduce the bed fall of the channel, solid rock having been found only in the first 200 instead of 1,600 feet of the bed as originally anticipated, to the roughstone byewashes constructed being found ineffective and requiring to be replaced by masonry weirs, and to the provision of a pipe culvert across the Madura-Mélúr road for the irrigation of the lands to the east of the road. As the cost of the byewashes, viz., Rs. 270, to be replaced by masonry weirs, should, under paragraph 37, Chapter V, Vol. II, Public Works Department Code, be written back from the "Capital" to the "Revenue" account of the project, the amount has been eliminated in this office from the revised estimate which may be approved for inclusion in the schedule of incomplete works of the project shortly to be submitted to the Government of India for sanction.

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

15 March 1899.

ORDER—No. 369 I., dated 20th April 1899.

The revised estimate of Rs. 4,180 for excavating a distributary from the right sluice at drop No. 1 of Kunnathur offtake, 9th Branch channel, Periyár project, is approved, and will be included in the schedule of incomplete works of the project prescribed in paragraph 35 (iii), Chapter V, Vol. II, Public Works Department Code, in lieu of the estimate of Rs. 2,860 sanctioned in G.O., No. 885 I., dated 28th October 1896.

2. The actual cost (Rs. 270) of the byewashes to be replaced by masonry weirs will be written back by the Examiner of Public Works Accounts from the "Capital" to the "Revenue" Account of the Periyár project, in accordance with paragraph 37, Chapter V, Vol. II, Public Works Department Code.

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

[Here enter No. 370 I., dated 20th April 1899.]

(True Extract.)

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

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

ENDORSEMENT—No. 370 I., dated 20th April 1899.

Forwarded.

(By order.)

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

Exd. Shaik Karim.

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

From the Supdg. Engr 6th Circle — No. 142 dt. 2nd Feb: 1899.
do — do — No. 153 dt. 8th do
To do — do — No. VI 18 dt. 20 dt. 15-3-99
Classified abstract estimate —

Note by the Chief Engineer for Irrigation.

The Supdg: Engineer, 6th Circle, submits for sanction the accompanying revised estimate of Rs. 4450 for excavating a distributary from the right sluice at drop No. 1 of Kunnathur offtake, 9th Branch channel, Periyar project, involving an excess of Rs. 1590 over the sanction accorded in G.O. No. 885 I. dated 28th October 1896. The excess is attributed to the provision of suitable drops to reduce the bed fall of the channel,

Issue.

21.3.99 WH.

~~the bed not being of~~ solid
having been found only in the first 200 instead of 1600 ft of the bed
rock as originally anticipated,
& the ~~rough~~stone byepass has
constructed being found ineffective
and requiring ~~under the original~~
~~sanction having to be~~ replaced
by masonry weirs, ~~the former~~
~~being ineffective as water~~
~~leaks through freely~~, and
to the provision of a pipe
culvert across the Madura-
-Melur road for the irrigation
of the lands to the east
As
of the road. ~~the~~ the cost of the
viz Rs 270,
byepasses to be replaced by
masonry weirs, ~~which~~ should,
under paragraph 37, Chapter V,
Vol: II P.W.D. Code, be written
back from the "Capital" to the
"Revenue" account of the
project ~~the amount~~ has been ~~omitted~~ eliminated
in the ~~1st~~ Item
from the revised estimate
Do/ It may be approved for
inclusion in the schedule of ~~in~~ complete works
Order thereon No: 369 Dg 20-4-99. of the project shortly to
be submitted to the
" The revised estimate of Govt of India for
sanction.
Rs 4180 for excavating a

a distributary from the right
sluice at drop No 1 of Kannatheri
offtake, 9th Branch channel,
Periyar project, is approved,
and will be included in the
schedule of incomplete works
of the project ~~referred to~~ prescribed in
paragraph 35 (iii) Chapter V,
Vol: II P.W.D. Code, in lieu of
the estimate of Rs 2060 sanc-
-tioned in G.O. No 885 Dt dated
28th October 1896.

2. The actual cost of the
byewashes to be replaced by
masonry weirs will be written
back by the Examiner of P.W.
Accounts from the "Capital"
to the "Revenue" account of
the Periyar project, in accord-
-ance with paragraph 37,
Chapter V, Vol. II, P.W.D. Code.

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

Endorsement
forwarded.

8P

D.GH
19.3.99

× Rs 270.

× 27/4/11
No: 370 Dg 20-4-99.

To. 11/3/99
The Chief Engr for Periyar:
Submitted for sanction.

14/3/99

WH 15/3/99

Public Works (1899) Department.

CURRENT No. 2574.

From The Chief Engineer for Irrigation

Order

No. 618

Dated 15th March/99.

Received } 24-3-99.
Registered }

Enclosures # 42 - plans 14.

Spare copies

SUBJECT.

Excavating a distributary from the right sluice at No 1 of Kunnathur Ix Branch channel Periyar Project - Revised estimate of Rs 1450/- for - Note recommending with remarks that the - may be approved.

M. L. Form No. 1 (a)—500—21-4-98.

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Public Works (1899) Department.

IRRIGATION BRANCH.

ISSUE No. VI / 18 m D

To

The Supdg Engineer VI Circle

(Reply to letter No. , dated)

Dated 8th January 1899

Despatched 8th — do —

Enclosures*

* Particulars of Enclosures.

SUBJECT.

Informing that certain works referred to in this No 153 dated 2.2.99 may be put in hand in anticipation of sanction.

E. 1. Form No. 13—4,000—7-1-09

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.

No. VI
18 m. D

S. E VI

The Supt Engr may
put in hand the works
referred to in his letter
No 153 dated 2 Feb
1899 in anticipation
of sanction

Lst

8/2/99

Despd. 8.2.99

E. I. Form No. 13—4,000—7-1-99

Public Works (1899.) Department.

2574 2574

CURRENT No. 13 m.D.

Ex if provisions generally affirmed (Estes herewith) permission to commence work may be communicated & will be Estes being checked & Enclosed in due course.

Order 11/2/99

1000

From The Supdg Engineer R. Circle

No. 153. R.D.

Dated 2nd February 1899.

Received 3 4- do —

Registered

Enclosures 1.

Spare copies

SUBJECT.

Commencement of Certain Works in anticipation of Sanction. Requests Sanction for the ——— in Pennyan Project.

Linked with R.U.O 11 m.D/99 + 12 ml.D/99 - Kept underneath the file

mb

D.E.

H.S. 4/2

Accts Branch

P.W.D. 2-2-99

P.W.D. 2-2-99 4/98

BACK PAPERS.

No.	Date.
R 11 mk R 12 mk	4 - 2 - 99

FURTHER PAPERS.

No.	Date.

From Mr: A. V. Ramalingam aiyar, Assistant Engineer, Madura Sub Division, to the Executive Engineer, Periyar Works, No: 1575 dated 26 January 1899: ——

I have the honor to request that you will be good enough to permit me to start the Tail end of Thirupalai offtake and the new drops and weirs in the Right Distributary from Drop No: 1 in Kunnathur offtake 9' Branch Channel as per revised estimate recently submitted for sanction. I can spend an additional allotment of Rs 5,000 if you permit me to start the above works.

——

No: 186 S.E. dated 25 January 1899.

Forwarded to the Superintending Engineer, Trichy: I have asked for urgent sanction to the former work in submitting the estimates.

Apart from the question of spending the allotments there will be heavy work in the Madura Sub Div next closure in works that cannot be done except during

4-FEB 1899
1/18 mkd

the closure and permission is urgently requested for leave to commence works in anticipation of sanction as soon as complete estimates are submitted as was formerly the practice in this division.

Recd. T. W. S. Smyth
Executive Engineer
24. 1. 99.

/ True copy /

O. V. Rowlly Lt.Col. R.E.
Supg Engineer, 6th Circle
2.2.99

No. 153. Dr. D.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE,
Trichinopoly, 2nd February 1899.

From

Lt.Col. O. V. Bowly, R.E.
Superintending Engineer,
6th Circle.

To

The Chief Engineer,
for Irrigation

SIR,

I am forwarding herewith copy of letter from the Special Executive Engineer, Periyar Works, No: 186 S.E. dated 24th January 1899, I have the honor to request that, under the circumstances, permission may be granted to commence the works noted in the margin, in anticipation of sanction, the estimates for which were submitted with this office letter No: 142 Dr.

1. Revised estimate for excavating a distributary from the sluice in right bank at drop No: 1. Kummathur offtake from the 9th Branch channel Rs 4,450.
2. Estimate for excavating the extension of Thirupallai offtake 4th Branch channel. Rs 4,170.

† R 12 Ind/99 } Clubbed ⊗ 1741 Ind/99 dt. 2nd February 1899.
⊗ R 11 Ind/99 }

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

O. V. Bowly Lt.Col. R.E.
Supg Engineer, 6th Circle

C.E.D
6-2-99

Public Works (1899) Department.

CURRENT No. ~~12 M.D~~ ~~D.O 13~~ ~~2574/93~~

Urgent

£1 for notice
HS
7/2

From The Supdg. Engineer
N. Circle

Order

Sanction
8/2 LOH

No. 142.2.D

Dated 2nd February 1899

Received } 4. do

Registered

Enclosures 16. ✓

Spare copies

SUBJECT.

Distributary from the Sluice
in Right Bank at Dudpur
Kumaka Offtake from
the IX. Branch channel.
Submits a revised estimate
for excavating a

DE 1
1/14 HS
4/-

Linked with K/13 dated 99.

ACCS
6/2/99

P.W.S.2
2574/93.

P.S. 2.99

BACK PAPERS.

No.	Date.
K557 dy	28-10-96

FURTHER PAPERS.

No.	Date.

No. 42.2.D.
Dy 10.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE,
Trichinopoly, 24th February 1899. D/3.

From

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

To

The Chief Engineer,
for Irrigation.

4-FEB 1899
12 noon

SIR,

16 ENCLOSURES.
Take with report
1 a complete
Tracings
orig take
Tracings

I have the honor to submit herewith a revised estimate for excavating a distributary from the Sluice in R. Bank at drop No: 1 Kunnathur offtake from the 9" Branch Channel.

2. The original estimate was sanctioned for Rs 2860 in G.O. No: 885 I dated 28 October 1896.

3. In the report it is said that the first 1800 feet being through rocky ground natural rapids will be allowed at convenient places and this involved a bed fall of 73.2 feet per mile. Solid rock was not however found, except in the first 200 feet, and the result is that the banks have been much eroded and undercut by the current. It is

therefore necessary to reduce the fall by the introduction of suitable drops.

4. The Rough stone keywashes provided for in the original estimate are ineffective, and water leaks freely through them. It is therefore necessary to replace them by masonry weirs.

5. It was necessary to construct the 6" pipe culvert across the Madura Feeder Road as ryots holding lands at the east of the road could not get water to their fields.

6. These additional works are most necessary and I recommend the revised estimate amounting to Rs 4450 for sanction.

From this report it is inferred that the keywashes were constructed the cost being Rs 270 as per Completion Statement. It seems that the amount should be written back to the Revenue Budget of the present year under Civil Works

Dy. E-in-C 28/10/97

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

V. V. Boddy Lt Engr. R.E.
Supg Engineer, W Circle

Enclosures:-
1 Rev Estt file.
with 10 tracings.
1. Old Estt & No.
with 4
tracings
Nos 3553
28th Oct 96
2.

Report to accompany the Estimate for excavating a distributary channel and constructing masonry works from right sluice of Drop No 1 Kunnathoor off take of the Branch channel:-

Amount of original Estimate - 2860/-

Amount of revised Estimate as Rs 4450 4188

The present Estimate provides for the following additional works and their necessity is explained below:- In the original Estimate the distributary channel runs close by Anamalai hills a bed fall of 73-2 feet per mile was allowed from the right sluice of Drop No 1 in Kunnathoor off take as far as 16th chain in the distributary in consideration of the rocky nature of the soil. On actual execution, it was found that the soil is composed of boulders of rock here and there without any solid bed of rock except in the first 200 feet and when water was let in, the channel was

was much scoured out owing to the rapid fall. It is therefore proposed to insert 3 drops of 5 feet in the middle to reduce the fall at the head of which drop No 3 has already been built (See para 3 of report).

2. 5 rough stone paved bye wash es were provided for in the original estimate and on actual experience it is found that they leak much allowing considerable amount of water to escape through them thus depriving the lands lower down of water. It is therefore proposed to build 5 masonry weirs in the left bank at the same sites as for accompanying type design.

The sites of the weirs are changed, vide long section.

3. A 6 ft drop was originally proposed for the field channel (running parallel to the off take) from the distributary. As found rock was met with at site, there was no necessity for building the drop and it has already been built on the main distributary channel at 1310 ft to 5 ft

become the bed fall. A masonry sluice has been built in place of the drop in the branch distributary as the original drop of 6 feet served as a regulator.

4. A 6" pipe sluice above the proposed drop No 3 in right bank is provided for irrigating some waste lands in right flanks of the right distributary.

5. Another paved bye wash No 4 at 4550 feet was found necessary and built as the channel breached at that place during heavy rain. A weir 12 feet long is now proposed to be built in its place.

6. A 6" pipe culvert has been built across Madras Mehur road for irrigating the waste lands on the east of the road.

7. The works that are still to be done are drops Nos 1 & 2 and masonry weirs.

The work will be carried out.

out in strict accordance with the provisions, the standard specification and with the best practice of the Department.

J W Smyth
Spl Ex. Engineer
Punjar Scheme
Madura.
7/1899.

Recd 20/7/99

Rec'd 3/8/99

ESTIMATE FORM—Abstract—Classified.

Sub-head.	Names of Works. 4 Brs	Amount of Estimate for individual Work.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each main head.	Remarks.
1	2	3	4	5	6	7
	Capital Expenditure not charged to Revenue.					
	49 Irrigation					
	Periyar Project					
	1- Works					
	3- Distributaries					
	9th Branch Channel					
	No 1 Distr. Kunnathur offtake Channel from right Sluice					
	Remunerative works					
2. Lands	1- Compensation for land	357.				
			357			
3. Works	~~2. Six Bywashes each Rs 45~~	~~270~~				already constructed will be replaced by bywashes
	28. Five masonry weirs 12 ft long each Rs - 120	600	✓			
	34. One Rs - 20 ft long	150				
	45- Three 5 ft drop each. Rs 255	765	✓			
	56. One 8 ft drop	300	✓			
	67. Five Earthen ware pipe Sluices each Rs 30	150				
	78- One Road pipe Culvert	100	✓			
	89- One Masonry Sluice	60	✓			
	90- Two Road Culverts each - Rs - 95	190	✓			
			2315			
			~~2585~~			

Station
Dated 188 .

Executive Engineer.

P. W. D. Madras.
Form No. M. 77 a.

REFERENCE TO MADRAS P. W. D. CODE.

CHAPTER VII—PARAS 968 & 968 A.

ESTIMATE FORM—ABSTRACT CLASSIFIED.

IRRIGATION.

CIRCLE.

DIVISION—

DISTRICT—

To accompany the Detailed Estimate No.

of 188 -8 , for *

* Here enter the Name and Description of work in full.

ESTIMATE FORM—ABSTRACT—CLASSIFIED.

Sub-head.	Names of Works.	Amount of Estimate for individual Work.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each main head.	REMARKS.
1	2	3	4	5	6	7
					5 Br	
	Brought forward		2672 ~~2972~~			
4- Earth work	10 H- Lenbling Channel	1432	1432			
5. Miscellaneous -	12° Demarcation Stones	76	76			
	Total Rupees			~~4450~~ 4180.		

S. V. Boddy Lt Col R-E
Supg Engineer 6th Circle
2-2-99

STATION

Dated 188 .

Executive Engineer.

P. W. D. Madras.
Form No. M. 77 a.

REFERENCE TO MADRAS P. W. D. CODE.

CHAPTER VII—PARAS 968 & 968 A.

ESTIMATE FORM—ABSTRACT CLASSIFIED.

IRRIGATION.

Sixth CIRCLE.

DIVISION— Madura.

DISTRICT— Madura

To accompany the Detailed Estimate No.

of 188 -8 . for * Excavating Distributary Chs & Madavary works from the right Sluice at drop No 1 Kurmathur offtake 9th Branch channel Periyar Projects

* Here enter the Name and Description of work in full.

Pw 5.18
2574/17.

9 P