

Public Works (1898) Department.

✓ G.O., No. 298.998

DATED 1st April
March 1898

21/3/98

[Despatch Abstract.]

Periyar Project, Revised Estimate of Rs. 2020 for excavating distributary and field channels from the right sluice of drop N^o 14 in the IX branch channel - sanctioned and a copy of the Pros. order to be forwarded to the Govt of India.

Periyar Project, Forwarding copy of Pros. sanctioning the revised estimate of Rs. 2020 for excavating distributary and field channels from the right sluice of drop N^o 14 in the IX branch channel. -.

21/3/98

BACK PAPERS.

FURTHER PAPERS.

IRRIGATION.
ACCOUNT.

Government {1898} of Madras.
PUBLIC WORKS.

Recd.

Enclosures

Regd.

1898.

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G.O., Nos. 298, 299 I., 6th April 1898.

APRIL.

Periyar Project

Forwarding copy of Proceedings sanctioning the revised estimate of Rs. 2,020 for excavating distributary and field channels from the right sluice of drop No. 14 in the 9th Branch channel —.

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 Palamcottah, 20th February 1898, No. 262 R.D.

I have the honour to forward, for your approval and sanction, a revised estimate, amounting to Rs. 1,670, for excavating distributary and field channels from the right sluice of drop No. 14 in the 9th Branch channel, Periyár works. The estimate is submitted in supersession of that sanctioned for Rs. 1,460 in G.O., No. 397 I., dated 24th April 1897; the excess amount now requiring sanction is Rs. 210. This excess is partly due to enhanced rates for earthwork having to be provided and partly to provision being made for closing breaches which occurred in two places in the distributary channel owing to the heavy rains of September 1897, and for raising the right bank of 9th branch channel below drop No. 14 which also serves as the left bank of the distributary for a length of 10 chains. It is pointed out that with soil varying so much as does the soil in many parts of the division it is impossible to estimate accurately the cost of cutting channels without spending an undue amount of time and money upon the preparation of the estimate. Now, on the actual execution of the channel cutting, various description of soil, such as hard earth, hard gravel, soft rock and rock are reported to have been met with and rates consequently have to be paid from Rs. 3 to Rs. 30 according to the description of soil as shown in the estimate, while the original estimate provides for only two different rates, viz., Rs. 2-8-0 for earthwork and Rs. 3 for gravel. The Executive Engineer reports that the earthwork has been executed and paid for according to these increased rates. In regard to raising the right bank of the 9th Branch channel below drop No. 14—a work for which provision should have been made in the original estimate—the Executive Engineer reports that it was intended to make up this portion out of maintenance grant for branch channels, but finding that no funds to meet the expenditure were available, provision is now made in this revised estimate which alone amounts to Rs. 78. In these circumstances I have accepted the revised estimate and the increased rates, and I recommend that sanction may be accorded to the revised estimate which is classed as a remunerative work.

2. A classified abstract estimate is also accompanying the estimate.

ENCLOSURES.

REPORT to accompany the revised estimate for excavating a distributary and field channels from the right sluice of drop No. 14 in the 9th Branch channel.

	RS.
Amount of revised estimate	1,670
Do. original estimate sanctioned	1,460
	$\frac{24}{1897-98}$

The estimate has to be revised for the following reasons :—

(1) The soil in cutting channel is found different from what was originally anticipated, being composed of hard earth, hard gravel and rock and consequently the rates have to be increased.

(2) As the major portion of work was done between March and June, the earth for banking was found very hard and had to be excavated by pouring in water for which special rate had to be paid. During heavy rains in September, when 9th Branch channel breached at 6 miles 2 furlongs, the distributary also breached in two places which had to be closed, and hence the excess in banking up to 12th chain.

(3) No provision was made in the original estimate for raising the right bank of 9th Branch channel below drop No. 14, which also serves as the left bank of the distributary for a length of 10 chains. As it was found very essential to raise the banks before letting in water in the distributary, it is provided in this estimate.

(4) And, lastly, the number of demarcation stones have been increased so as to mark the boundaries clearly.

(Signed) A. V. RAMALINGA AIYAR,
Assistant Engineer, Madura Sub-Division.

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.				
	Open Capital Account.				
	3. Distributaries.				
	9th Branch Channel.				
	Remunerative Work.				
	Excavating distributary and field channel from the right sluice of drop No. 14.				
2. Land	1. Compensation for land	168	168		
3. Works	2. No. 1 drop of 6 feet at 0 mile 2,300 feet	390			
	3. Two 6-inch pipe sluices—one left bank and the other right bank—at 0 mile 2,300 feet	60			
	4. No. 2 drop of 6 feet at 0 mile 2,900 feet	390			
4. Earthwork	5. Cutting channel	647	840		
5. Miscellaneous	6. Demarcation stones	15	647		
			15		
	Total, I. Works			1,670	
	II. Establishment			345	
	III. Tools and plant			5	
	Total, Estimate			2,020	

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

20th February 1898.

No. 86 I.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits a revised estimate, amounting to Rs. 1,670, for excavating distributary and field channels from the right sluice of drop No. 14 in the 9th Branch channel, Periyár project, involving an excess of Rupees 210 over the estimate sanctioned in G.O., No. 397 I., dated 24th April 1897. The excess is reported to be due to increased rates having been provided for earthwork, as the soil was found different from what was originally anticipated, to the necessity for closing breaches in the distributary channel caused by the heavy rains of September 1897 and to raising the right bank of the 9th Branch channel below drop No. 14, which was not originally provided.

2. The revised estimate may be sanctioned.

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

12th March 1898.

No. 298 I., 6TH APRIL 1898.

ORDER—No. 298 I., dated 6th April 1898.

The revised estimate, amounting to Rs. 1,670, or Rs. 2,020 including establishment and tools and plant charges, for excavating distributary and field channels from the right sluice of drop No. 14 in the 9th Branch channel, Periyár project, is sanctioned in supersession of the estimate of Rs. 1,760 sanctioned in G.O., No. 397 I., dated 27th April 1897.

2. This sanction is registered as No. 4 I. of 1898-99 and will expire on the 31st March 1899.

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

[Here enter No. 299 I., dated 6th April 1898.]

(True Extract.)

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

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

ENDORSEMENT—No. 299 I., dated 6th April 1898.

Forwarded.

(By order.)

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

Public Works (1898) Department.

CURRENT No. 2513

From

*The Chief Engr
for Irrig.*

Order

No. 86. I

Dated 12th March 98

Received

Registered

18.3.98

Enclosures 6

Spare copies

SUBJECT.

*Revised Est. of Rs. 1670 for
excavating distributary
& field channels from
the right sluice of drop
No 14 in the 9th Branch
channel - Periyar Project
- Note recommending
for sanction -*

FURTHER PAPERS.

[illegible]

No.	Date.
<p><i>[Faint handwritten notes in the left column, including "to supply" and "to supply" visible through the paper.]</i></p>	<p><i>[Faint handwritten notes in the right column, including "to supply" and "to supply" visible through the paper.]</i></p>

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Note recommending prosauctions
revised rate of Rs 20 20 for excavating
disturbatory field channels from the
right side of top No 15 in the 18 Bch/band
Perryat

UNDER date the

READ the following

From the Supvy. Engineer, ~~Letter~~ ^{Letter} Circle - (H.E. No 262 - M.D. dated 20.2.98)
No 86 - Jy 12-3-98

Note by the Chief Engineer for Inspection.

The Superg. Engineer, Sixth Circle, submits a revised estimate amounting to Rs. 1670- for excavating distributary and field channels from the right sluice of drop No. 14 in the IXth branch channel, Briggs project, involving an excess of Rs. 210- over the estimate sanctioned in G.O. No. 397-I dated 24 April 1897. The excess is reported to be due to increased rates having been provided for earthwork, as the soil was found different from what was originally anticipated, to the necessity for closing breaches in the distributary channel caused by the heavy rains of September 1897 and to raising the right bank of the IXth branch channel below drop No. 14 which was not originally provided.

x-fledged E

④ Flagger F.

Isbn

114

2

17.3.98

100
17/3/95

sanctioned.

B.

H/13/98 N-228/96.4.98
Order thereon.

The revised estimate amounting to Rs. 1670 or Rs. 2,020 including establishment and tools and plant charges, for excavating distributary and field channels from the right sluice of drop No. 14 in the IXth branch channel, Periyar project, is sanctioned in supersession of the estimate of Rs. 1760 sanctioned in G.O. No. 397-I dated 27 April 1897.

2. This sanction is registered as No. 4 I of 1897-98 and will expire on the 31 March 1899.

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

Endorsement
Forwarded.

H/13/98 114
12.3.98

E. I. Form No. 1-500-1-11-97

10/3/98 H/14/3 R/170

7.3.98

16.3.98

flipped F.

6/4/98

7.2.9. 19.3.98

To The Chief Engineer for drainage
- Supp. Engineer Sixth Circle
- Examiner, P.W. Works

Public Works (1898.) Department.

CURRENT No. 17 M.D.

Order

From

The Super Engineer
VI. Circle

No. 262.R.D.

Dated 20th February 1898

Received 23

Enclosures 2.

Spare copies

SUBJECT.

Distributary & field channels from the right sluice of Drop No. 14 in the 9th branch channel Periyar Works — towards remarks for sanction an estimate of Rs 1670 for excavating —

CCS
24/2/98

—

FURTHER PAPERS.

Report to accompany the revised estimate
for excavating a distributary and
field channels from the right sluice
of Drop No. 14. in the 9" Branch channel.

Amount of revised Estimate Rs 1670
 Rs original = 2 } Rs 1460
 Sanctioned 24
 97498.

The Estimate has to be revised for the following reasons.

1. The soil, in cutting channel is found different from what was originally anticipated, being composed of hard earth, hard gravel and rock and consequently the rates have been increased.

2. As the major portion of work was done between march and June, the earth for banking was found very hard and had to be excavated by pouring in water for which special rates had to be paid.

During

During heavy rains in September, when 9th Branch channel breached at 6 m. 2 fms. the distributary also breached in 2 places which had the closed and hence the excess in banking up to 12th chain.

3. No provision was made in the original estimate for raising the right bank of 9th Branch channel below drop no 14, which also serves as the left bank of the distributary for a length of 10 chains. As it was found very essential to raise the banks before letting in water in the distributary, it is provided in this estimate.

4. And lastly the number of demarcation stones have been increased so as to mark the boundaries clearly.

H. V. Ramakrishna
Asst. Engineer
Madras Lab Division

25/3/98
Approved
Executive Engineer
R. V. R. S.

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	Capital expenditure not charged to Revenue 149. Irrigation. Perimeter Project. Open Capital Account. 3. Distributaries. IX. 9th Branch Channel. Remunerative Work 1/2			5	6	7
	Excavating distributary and field Channel from the right Side of drop No 14.					
2. Land	1- Compensation for land	168				
			168			
3. Works	2. No 1 drop of 6 ft at 0 mile 2300 feet	390				
	3- Two 6 inches pipe shuies - one left bank & the other right bank at 0 mile 2300 feet	60				
	4- No 2 drop of 6 feet at 0 mile 2900 feet	390				
			840			
4. Earth work	5- cutting Channel	647				
			647			
5. Miscella neous.	6- Demarcation Stones	15				
			15			
Total, Part I Works			1690			
II. Establishments			345			
III. Tools & plant.			5			
Total Estimate			2020			
H. V. Ramakrishna Lt. Col. R.E. Super Engineer 1 st Circle 20-2-98						

STATION

Dated

188

Executive Engineer.

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

ESTIMATE FORM—ABSTRACT CLASSIFIED.

IRRIGATION.

CHIEF ENGINEER
FOR IRRIGATION.

23 FEB. 1898

No. 17 lup

Sixth CIRCLE.

DIVISION—Madura

DISTRICT—Madura

To accompany the Detailed Estimate No.

of 188 -8 . for *

Distributary and field ch^{ls}
from the right sluice of drop
No 14 in the 9th Branch
Channel.

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

262/25
20/2

262 L.D.
Encls No 2 to S. G. 6th 7th 20. 2. 98

No 262.R.D.

OFFICE OF THE SUPERINTENDING ENGINEER,

6TH CIRCLE,

Palamcottah
Trichinopoly 20 February 1898.

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From

Lt Col. C. V. Boddie R.E.
Superintending Engineer,

6th Circle.

To

The Chief Engineer,

for Irrigation

SIR,

ENCLOSURES 2.

1. Revised Estimate with
report Comp. S. G. 6th
1. Classified
Abst: Estimate

I have the honor to forward for
your approval and sanction a revised
estimate amounting to Rs 1670 for excava-
-ting Distributary and field Channels from
the right sluice of Drop No: 14 in the 9th
Branch Channel. Periyar works. The estimate
is submitted in supersession of that sanc-
-tioned for Rs 1460 in G. O. No. 397 I. D. of 24th
April 1897. The excess amount now requiring
sanction is Rs 210. This excess is partly due
to enhanced rates for earthwork having to
be provided and partly to provision being
made for closing breaches which occurred
in two places in the Distributary Channel
owing to the heavy rains of September 1897
& for raising the right bank of 9th Branch
Channel below Drop No: 14 which also serves
as the left bank of the Distributary for a

length of 10 chains. It is pointed out that with soil varying so much as does the soil in many parts of the Division it is impossible to estimate accurately the cost of cutting channels without specifying an undue amount of time and money upon the preparation of the estimate. Now, on the actual execution of the channel cutting various descriptions of soil, such as, hard earth, hard gravel, soft rock & rock are reported to have been met with & rates consequently have to be paid from Rs 3 to Rs 30 according to the description of soil as shown in the estimate, while the original estimate provides for only two different rates, viz Rs 2-8-0 for earthwork and Rs 3 for gravel. The Executive Engineer reports that the earthwork has been executed and paid for according to these increased rates. In regard to raising the right bank of the 9" Branch Channel below drop No. 14, a work for which provision should have been made in the original estimate, the Executive Engineer reports that it was intended to make up this portion out of maintenance grant for branch channels, but finding that no funds

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funds to meet the expenditure were available, provision is now made in this revised estimate which alone amounts to Rs 78. In these circumstances I have accepted the revised estimate and the increased rates and I recommend that sanction may be accorded to the revised estimate which is classed as a remunerative work.

2. A Classified Abstract estimate is also accompanying the estimate.

I have the honor to be
Sir,

Yours most obedt Servant.

J. R. Maddy Lt Col. R.E.
Bryce Engineer, 11 Circle

CHIEF ENGINEER
FEB 23 1898
No. 17 m. Q.

0692
2513/8