Public Works (1898) Department.

G.O., No. 282 I / A

DATED 31st March 98

15/4/98

[Despatch Abstract.]

Excess outlay; Authorising the Examiner of P.W. accounts to pass the — of Rs. 170 incurred on constructing sluice No. 1 of Kykalur channel, a distributary of the Polraj Canal, Kistna Delta System.

282
13/4/98

[illegible]

[P. W. 26.
1,000—14-2-98.]

Indexed. 15/4

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.	1898.	*Enclosures*	
Regd.		*Spare copies*	

G.O., No. $\frac{282}{A}$ I., 31st March 1898.

MARCH.

Excess outlay

Authorising the Examiner of Public Works Accounts to pass the — of Rs. 170 incurred on constructing sluice No. 1 of Kykalur channel, a distributary of the Polraz canal, Kistna delta system.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers:—

From the Superintending Engineer, II Circle, dated 14th January 1898, No. 118 K.E.
To the Examiner, Public Works Accounts, „ 17th „ „ No. 10.
From the „ „ „ „ 26th „ „ No. 210 B.A.
To the Superintending Engineer, II Circle, „ 2nd February „ No. II/21 K.S.

From J. HANNAN, Esq., Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, dated Bezwada, 12th February 1898, No. 443 K.E.

With reference to your No. II/21 K.S., dated 2nd February 1898, I have the honour to report that the estimate of Rs. 400, submitted with this office No. 118 K.E., dated 14th January 1898, is to supersede the estimate of Rs. 230 sanctioned in G.O., No. 1064 I., dated 6th December 1893, for constructing sluice No. 1 of Kykalur channel.

2. The difference of Rs. 170 may now be met from item No. 710 of the statement printed with G.O., No. 857 I., dated 11th October 1893.

3. Of the outlay of Rs. 490-15-0 already debited to the estimate of Rs. 230 already sanctioned, Rs. 90-15-0 will be absorbed on the disposal of the surplus materials remaining at the site of the work.

To the Superintending Engineer, II Circle, dated 19th February 1898, No. II/32 K.S.

From J. S. WILSON, Esq., Executive Engineer, Kistna Eastern Division, to the Superintending Engineer, II Circle, dated 14th March 1898, No. 619.

With reference to your No. 604 K.E., dated 2nd March 1898, I have the honour to inform you that the estimate in question was first sanctioned for Rs. 230 in the Government Order sanctioning the estimate for the extension of Kykalur channel, but owing to subsequent changes in the design, the estimate was revised for Rs. 400 and your predecessor's permission was obtained for it (*vide* your letter No. 1218 K.E., dated 11th August 1896).

Enclosure.

From the Executive Engineer, Kistna Eastern Division, to the Superintending Engineer, II Circle, dated 28th June 1896, No. 1410.

I have the honour to state that an estimate, amounting to Rs. 230, for constructing a face wall sluice to Achavaram channel at 2 miles 1 furlong 200 feet, on the right bank of Kykalur channel was sanctioned in G.O., No. 1064 I. of 6th December 1893, sanctioning the estimate for the extension of Kykalur channel.

It is undesirable to have a face wall sluice on the right bank at this place as it is necessary to ride along this bank for inspection from the head sluice to the point where the road from Vinjaram lock joins it. I, therefore, send for approval a revised plan and estimate of sluice having a distance of 4 feet between the parapets.

The excess can be met from the savings on the estimate for excavation.

No. 894 K.E.

Forwarded to the Chief Engineer for Irrigation with reference to his No. II/32 K.S., dated 19th February 1898.

2. A copy of letter No. 1410, dated 28th June 1896, from the Executive Engineer, Kistna Eastern division, is enclosed.

(Signed) J. S. WILSON,
for Supg. Engineer, II Circle.

26th March 1898.

No. 123 I.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, II Circle, reports that an excess expenditure of Rs. 170 has been incurred on the work "Constructing No. 1 sluice," item 1 for Rs. 230 of the estimate for the extension of the Kykalur channel, a distributary of the Polraz canal, Kistna delta system, sanctioned in G.O., No. 1064 I., dated 6th December 1893. The excess is reported to be due to subsequent changes in the design of the sluice which became necessary owing to provision having been made for a space along the right bank of the channel for riding for inspection purposes.

The excess may be passed.

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

31st March 1898.

Order—No. $\frac{282}{A}$ I., dated 31st March 1898.

The Examiner of Public Works Accounts is authorised to pass the excess outlay incurred on the work referred to, the excess, Rs. 170, being met from the balance of the provision for item 710 of the statement printed in Proceedings of Madras Government, No. 857 I., dated 11th October 1893.

2. This sanction is registered as No. 201 I. of 1897-98.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ Superintending Engineer, II Circle.
„ Examiner, Public Works Accounts.

Exd. Shaik Karim.

A

His Excellency the Governor

Date this 31/3/98

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Recommending for sanction excess expenditure incurred on the work constructing sluice No 1 of Kykalur Channel.

UNDER date the

READ the following

From the Supg. Engineer, Second Circle. (H.E. No. 118-K.E. dated 14-1-98).
To the Examiner, P. W. Accounts. (H.E. No. 10 dated 17-1-98)
From do do (H.E. No. 210 B/A dated 26-1-98).
To the Supg. Engineer, Second Circle. (H.E. No. $\frac{II}{21\text{-K.E.}}$ dated 2-2-98).
From do do (H.E. No. 443-K.E. dated 12-2-98).
To do do (H.E. No. $\frac{II}{32\text{-K.E.}}$ dated 19-2-98).
From do do (H.E. No. 894-K.E. dated 26-3-98).

No 123 I dy 31-3-98

6 P

Note by the Chief Engineer for Irrign.

The Supeg. Engineer, Second Circle, reports that an excess expenditure of Rs. 170- has been incurred on the work "Constructing No. 1 sluice," item 1 for Rs. 230- of the estimate for the extension of the Kykalur channel, a distributary of the Polraz Canal, Kistna delta system, sanctioned in G.O. No. 1064-I dated 6 December 1893. The excess is reported to be due to subsequent changes in the design of the sluice which became

× vide letter flagged G

⊗ flagged E

Issue

WH

I

4-4-98

necessary

necessary owing to provision having been made for a space along the right bank of the channel for riding for inspection purposes.

The excess may be passed.

31/3/98

Order thereon. No. 282 I / A d. 31.3.98.

Proprietor Acct.

The Examiner of Public Works Accts. is authorized to pass the excess outlay incurred on the work referred to, the excess, Rs. 170, being met from the balance of the provision for item 710 of the statement printed in P. M. G. O. No. 857-I dated 11th October 1893.

A.H.
2.4.98

Flagged D.

2. This sanction is reprobated as No 201 I A. 1897-98.

31/3/98

J.H.
31.3.98

9 29/4/98 To The Chief Engineer for Irrigation
" Supdg. Engineer, Second Circle
" Examiner, P. W. Accts.

Note for H.C., Pr. Secy.
This order should bear a date in "March 1898," as the Construction Estt. of the Kistna delta lights closed on the 31-3-98.

I. Form No. 1—1,000-10-2-94.

30/3 H.C. 31/3

Public Works (1898) Department.

829 / A

CURRENT No. 3132

From the Chief Engr for Irrgn

Order

No. 123 I

Dated 31-3-98

Received } 6.4.98
Registered }

Enclosures 12 (1 Plan)

Spare copies

SUBJECT.

Sluice No 1 of Kykalur Channel – Excess expenditure of Rs 1701 incurred on the work of constructing – Note recommending for sanction the

—

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Public Works (1898) Department.

CURRENT No. 82 KS

From The Superintending Engineer
II Circle.

Order

No. 894 KE

Dated 26th March 1898

Received 29 — Do —

Registered

Enclosures 1

Spare copies

SUBJECT.

Sluice No 1 of Kykalur Channel. Forwards Copy of Ex. Engineer's letter explaining the Cause of Excess over the Estimate of

F. E. S.

lcs
29/3/98

30-3-98

BACK PAPERS.

No.	Date.
132 Ks dy	19-2-98
147 Ks	12-2-98
141 Ks	2-2-98
121	26-1-98

FURTHER PAPERS.

No.	Date.

Copy of the letter from the Executive Engineer, Kistna Eastern Division, to the Sup intending Engineer, Second Circle, No. 1410 d/ 28th/30th June/96.

I have the honor to state that an estimate amounting to Rs. 230 for constructing a face wall sluice to Achavaram channel at 2 ms. 1 furl. 200 ft., on the right bank of Kykalur channel was sanctioned in G. O. No. 1064 I of 6-12-93, sanctioning the estimate for the extension of Kykalur channel.

It is undesirable to have a face wall sluice on the right bank at this place as it is necessary to ride along this bank for inspection from the Head sluice to the point where the road from Vinjaram Lock joins it. I therefore send for approval a revised plan and estimate of sluice having a distance of 4 feet between the parapets.

The excess can be met from the savings on the estimate for excavation.

(True copy)

Wm. Upshon
Manager
Superintending Engineer's Office
II circle.

CHIEF ENGINEER
FOR IRRIGATION.
29 MAR. 1898
No. 82 Ks

1

Ou 5.11
323/88

Copy of the letter from J. S. Wilson Esquire, Ex: Engineer, Kistna Eastern Division, to the Superintending Engineer Second Circle, No. 619, dated 14th/15th March 1898.

With reference to your No. 604. K.E., dated 2-3-98, I have the honor to inform you that the estimate in question was first sanctioned for Rs. 230 in the G. O. sanctioning the estimate for the extension of Kykalur Channel but, owing to subsequent changes in the design the estimate was revised for Rs. 400, and your predecessor's permission was obtained for it vide your letter No. 1218. K.E. dated 11-8-96.

No. 894 KE / 26.3.98

4P

Enclo 1.

Forwarded to the Chief Engineer for Irrigation with reference to his No. II/32 Ks. dated 19th February 1898.

2. A copy of letter No. 1410 D/ 28th June /96 from the Executive Engineer, Kistna Eastern Division, is enclosed.

J. Morto Wils
25/3/98
Executive Engineer
for Superintending Engineer
II circle.

[illegible]

CHIEF ENGINEER FOR IRRIGATION.
29 MAR. 1898
No. 82KS

With reference to your No. [illegible] K dated 2-3-98, I have the honour to inform you that the estimate [illegible] was first sanctioned for Rs 280 in the G.O. sanctioning the estimate for the extension of Kykaler Channel but owing to changes in the design the estimate was revised for Rs 400 and the [illegible] permission was obtained for it vide your letter No 218 K dated 11-5-96.

No. 894 KS.
Dated 26-3-98

Forwarded to the Chief Engineer for Irrigation with reference to his [illegible] dated 19th February 1898.

2. A copy of the [illegible] from the Executive Engineer [illegible] is enclosed.

OLSS.12 / 3132 SD

8

Public Works (1897) Department.

IRRIGATION BRANCH.

II

ISSUE No. 32KS

2

To

The Supg Engineer
2nd Circle

(Reply to letter No. , dated)

Dated 19-2-98

Despatched 24-2-98

Enclosures *

* Particulars of Enclosures.

SUBJECT

Constructing sluice No 1 of Kykaler Channel - Kistna Delta System - S.E. requested to explain the cause of the excess expenditure of Rs 170 over the estimate of Rs 280/- sanctioned in G.O. No 1064 I.O./a/93 for —

Indexed

E. I. Form No. 13—2,000—1-11-97.

BACK PAPERS.

No.	Date.
R 47 K.S	12-2-98

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 82 K.S	26-3-98

II

No. 32 K.S. of 18-2-98

Memo.

With reference to his letter No. 443-K.I., dated 12th February 1898, the Superg. Engineer, Second Circle, is request-ed to be so good as to explain the cause of the excess expenditure of Rs. 170 over the estimate of Rs. 230, sanctioned in G.O. No. 1064-I, dated 6th December 1893, for constructing Sluice No. 1 of Kykalur Channel, Kistna delta system.

17/2/98

To The Supg. Engineer,
Second Circle,

17/2/98.

With reference to his letter No 443-K.E., dated 12 February 1898, the Superintending Engineer, Second Circle, is requested to be so good as to explain the cause of the excess expenditure of Rs 170 over the estimate of Rs 230, sanctioned in G.O. No 10 W.I., dated 6 December 1893, for constructing Sluice No 1 of Kykalur Channel, Kistna delta system.

The Supdg. Engineer,
Second Circle.

30-2-98
3-3-98

Public Works (1898) Department.

CURRENT No. 47 K.S.

Order

From The Superintending Engineer
2nd Circle

No. 443 K.E.

Dated 12 February 1898
Received 14 — do —
Registered 14 — do —
Enclosures
Spare copies

SUBJECT.

Constructing a sluice No 1 Kykalur Chl. extension. Informs that the estimate of Rs 400/- submitted for is intended to supersede the estimate of Rs 290/- already sanctioned.

F.E.J.

14/2/98

15/2

BACK PAPERS.

No.	Date.
I 21 KS	2 - 2 - 98
R 21	26-1-98
R 21 Ks	14-1-98

FURTHER PAPERS.

No.	Date.
I 32 KS	13. 2 98
R 82 Ks	26-3-98

No 443 K.E

Office of the Suptg: Engineer
2nd Circle
Bezvada 12. 2. 98.

2P

From

J. Hannan Esquire,
Suptg: Engineer, 2nd Circle,

To

The Chief Engineer
For Irrigation.

Sir,

With reference to your No $\frac{II}{21\text{-}KS}$ ~~KS~~ dated 2nd February '98, I have the honor to report that the Estimate of Rs: 400/- submitted with this office No 118 K.E. dated 14th January '98 is to supersede the estimate of Rs 290/- sanctioned in G.O. No 1064 I dated 6th December '93 for constructing Sluice No 1 of Kykalur Channel. 230?

2. The difference of Rs 170. may now be met from item No 710 of the statement printed with G.O. No 857 I

8

dated 11th October '93.

3. Of the outlay of Rs 490-15-. already debited to the estimate of Rs 230/- already sanctioned, Rs 90-15-. will be absorbed on the disposal of the surplus materials remaining at the site of the work.

CHIEF ENGINEER
FOR IRRIGATION.
14 FEB. 1898
No. R 47 KS

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

for Supdg. Engineer
2nd Circle

C 11/2

1/2/98

Oc 5-5/31-3-(SD)

8

Public Works (1897) Department.

IRRIGATION BRANCH.

ISSUE No. II/21 KS.

To

The Supdg Engineer
2 Circle

(Reply to letter No. , dated)

Dated 2-2-98

Despatched 5-2-98

Enclosures *

* Particulars of Enclosures.

SUBJECT

Constructing sluice No 1. Kykalur Channel extension — S E asked with remarks to report whether the estimate of Rs 400 is intended to supersede the estimate of Rs 230 sanctioned in G.O. No. 1064-I of 93 pro —

Indexed

E. I. Form No. 13—2,000—1-11-97.

BACK PAPERS.

No.	Date.
R 21. OR	26. 1. 98

FURTHER PAPERS

No.	Date.
R 47 Ks	12-2-98
R 82 Ks	26-3-98

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.

A

~~146~~

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

From the Supg. Engineer, Second Circle. (Hd. No. 118-K.E. dated 14-1-98).
To the Examiner of P.W. Accounts. (Hd. No. 10 dated 17-1-98).
From —do II do— (Hd. No. 210 B/A dated 26-1-98).
No 21 KS dd 2-2-98

memo

With reference to letter No. 118 K.E., of the Jan/98, from the S.E., II Circle, the undersigned has the honour to request that he will be so good as to report whether the estimate of Rs 400 therewith forwarded is intended to supersede the estimate of Rs 230 sanctioned in G.O. No. 1064 I, dd 6 Dec/93, for constructing sluice No. 1, Kykalur Channel Extension, × vide letter flagged B in which case only the difference between the original & revised estimate will have to be met from item 710 of the statement printed in P.W.G. No. 857 I, dd 11 Oct/93.

2. The Ex. P.W.A. reports

Note by the Chief Engineer for Irrigation.

450 acres of land lying in the right of the Kykalur channel, a distributary of the Polraz canal in the Kistna Eastern division, have hitherto been supplied by spouts in the main channel bank. To provide for the better supply of these lands, a sluice has been, in anticipation of the sanction of Govt., constructed in the Achavaram channel, a branch of the Kykalur channel. The Supdg. Engineer, Second Circle, submits an estimate of Rs. 400 for the work, which may be sanctioned.

Order thereon.

The following estimate is sanctioned from the balance of the provision made for

~~for item 710 of the statement printed in~~

~~P.M.G. No 857-I dated 11 October 1893:—~~

~~Capital Expenditure not charged to Revenue.~~

~~49. Irrigation.~~

~~Kistna delta system.~~

~~Eastern Section.~~

~~I_Works.~~

~~Polraz Canal.~~

~~3_Distributaries.~~

~~3. Works.~~

~~Constructing a sluice in Atchavaram Channel, at 2 miles on the right bank of Kykalur channel.~~

~~Estimate. ———— Rs. 400.~~

~~2. This sanction is registered as No I. of 1897-98.~~

Recd 2/2/98

That the total outlay to end of Nov /97 as debited by the Ex Engr to the Estimate of Rs 230 is Rs 490-15-0 that in the objectionable items statement for Aug /97 the E.E. remarked that a revised Estimate amtg to Rs 400 was approved by the S.E. & that the remaining excess - Rs 91- would be absorbed when the surplus materials at site of the work were disposed of-

2/2/98

WH.
2/2/98

~~To The Chief Engineer for Irrigation~~
~~" Supt. Engineer, Second Circle.~~
~~" Examiner, P.W. Accounts.~~

31/1/98

To the S.E. II

1/2/98

E. I. Form No. 1—1,000—2-2-97.

Public Works (1898) Department.

CURRENT No. 21

Order

From The Examiner, P.W. Acct, Madras

No. 210 B/A

Dated 26th January 1898
Received 27 — Do —
Enclosures 4
Spare copies

SUBJECT.

Sluice on Right Bank of Kykalur Channel or Atchavaram Sluice — Intimates outlay on — Kistna Eastern Dn —

F.E.I.

28/1/98

27/1/98

28-1-98

BACK PAPERS.

G.O.	No.	Department.	Date.
I 10	d/17	1.98	
R	21Ks	d/14-1	98

FURTHER PAPERS.

~~G.O.~~	No.	Department.	Date.
I	21	KS	2-2-98
R	47Ks	d/12-2	98
R	82Ks	d/26-3	98

E. No .27.
1,000—6-9-97.

KEEP-WITH

CURRENT No.

dated 189 .

GOVT. OF MADRAS. } 189~~7~~8. { P. W. DEPT.

EXAMINER, P. W. ACCOUNTS.

Madras, 26th January 189~~7~~8.

OFFICE NOTE No. 210 B/A

To

I.

Your Office Note No.10 dated 17th.January 1898

In the papers put up no mention is made that the Estimate for Rs.400/ now submited is a revised one to that for Rs.230/ for Constructing No.I Sluice Item I of the Estimate for "Excavating Kykalur Channel extension" sanctioned in G.O.No.1064 I dated 6th.December'93.

2. The total outlay to end of November 1897 as debited by the Executive Engineer to the Estimate of Rs. 230/ is Rs.490-15-10,and in the Objectionable Items Statement for August 1897 the Executive Engineer Kistna Eastern Division remarks that a revised estimate amounting to Rs.400/ was approved by Superintending Engineer, II.Circle, and that the remaining excess (Rs.91) would be absorbed when the surplus Materials at site of the work were disposed of.

W/26.1.98

C.

IPK
25/1/98

R 21 / 27.1.98

Public Works (1898) Department.

CURRENT No. 21 KS.

EXAMINER,
P. W. ACCOUNTS.
20 JAN. 1898
No. ....

From The Superintending Engr.
II Circle

C No 10 d/ 17.1.98
Order Encl 3

As the Sluice is reported to have been already constructed please let me know the outlay incurred on the work

WEJ
17/1
/98

No. 118 KE

Dated 14 January 1898
Received 17 — Do —
Registered
Enclosures 3 (1 plan)
Spare copies

SUBJECT.

Estimate for constructing a Sluice to Achavaram channel of Kyhalur chl. Forwards for approval and sanction of Govt an—

Indexed

BACK PAPERS.

No.	Date.
R891 W/93.	

FURTHER PAPERS.

No.	Date.
R47Ko	12-2-98
R21Ks	21-3-98

SUPG. ENGINEER'S OFFICE No. 1773 1- JUL. 95 P.W.D. SECOND CIRCLE

SUPG. ENGINEER'S OFFICE No. 1914 13 SEP. 97 P.W.D. SECOND CIRCLE

13-8-96

21 K.S.
1

R21/98
2

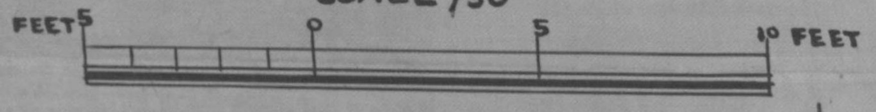
SUPG. ENGINEER'S OFFICE No. 12691 10 NOV. 97 P.W.D. SECOND CIRCLE

3/3/98

EXAMIN
P. W. ACCOUN
20 JAN 18

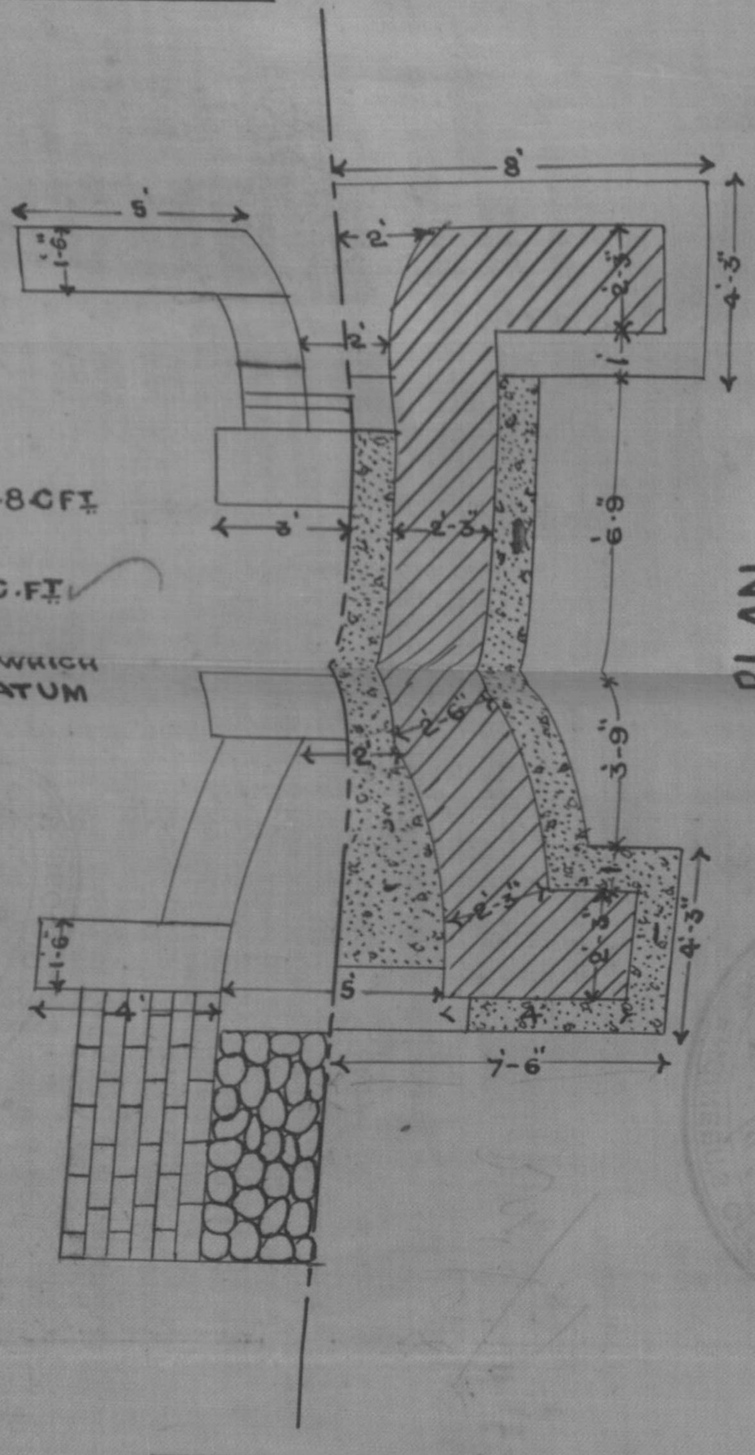
HEAD SLUICE
TO
ACHAVARAM CHL.
ON
RIGHT BANK OF KAIKALUR CHAL.
AT
2 MILES O.Fs.

SCALE 1/50

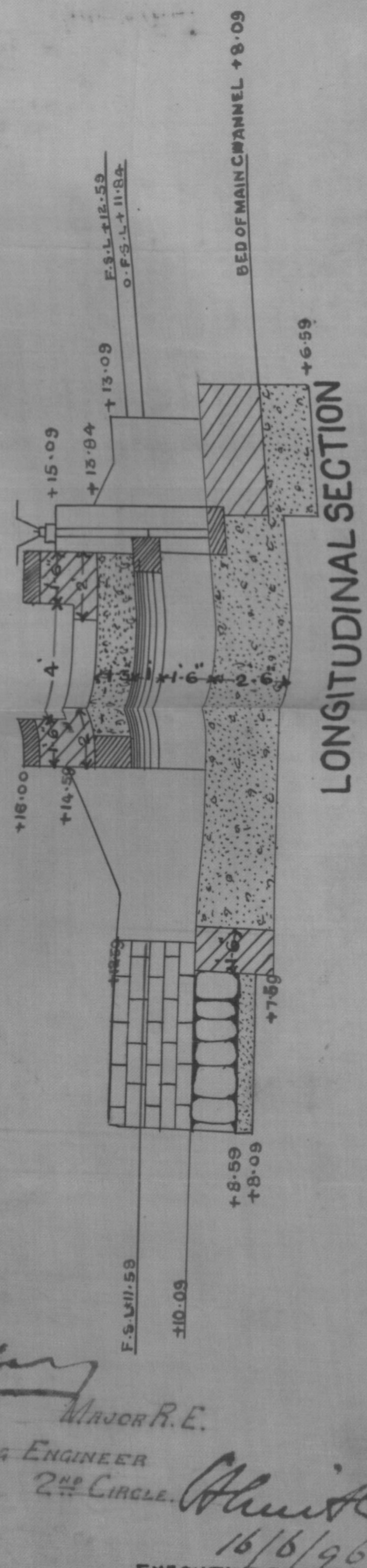


ACREAGE 450 ACRES
DISCHARGE REQUIRED $\frac{450}{66}$ = 6·8 C.FT.
CALCULATED DISCHARGE
WITH O.F.S.L $5A\times\sqrt{H}$
$= 5\times 2\times 1.5\,\sqrt{2.5}$ = 7·5 C.FT.

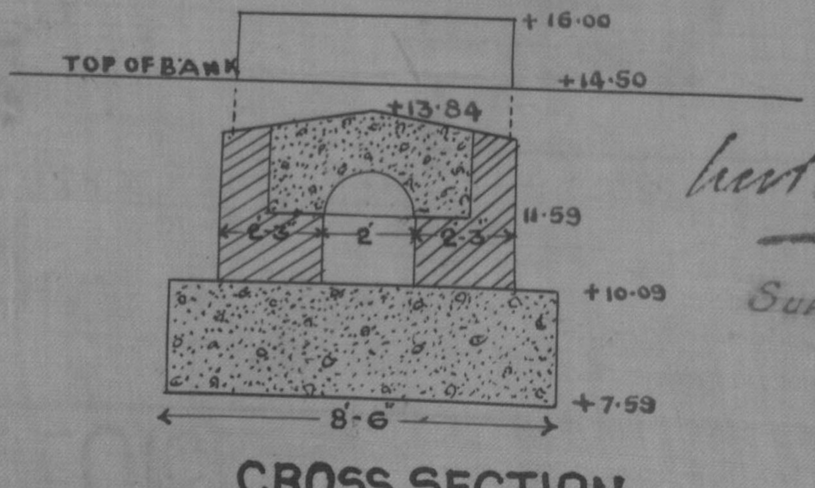
LEVELS REFER TO M.S. DATUM WHICH
IS 3·25 FT. BELOW THE OLD DATUM



PLAN



LONGITUDINAL SECTION

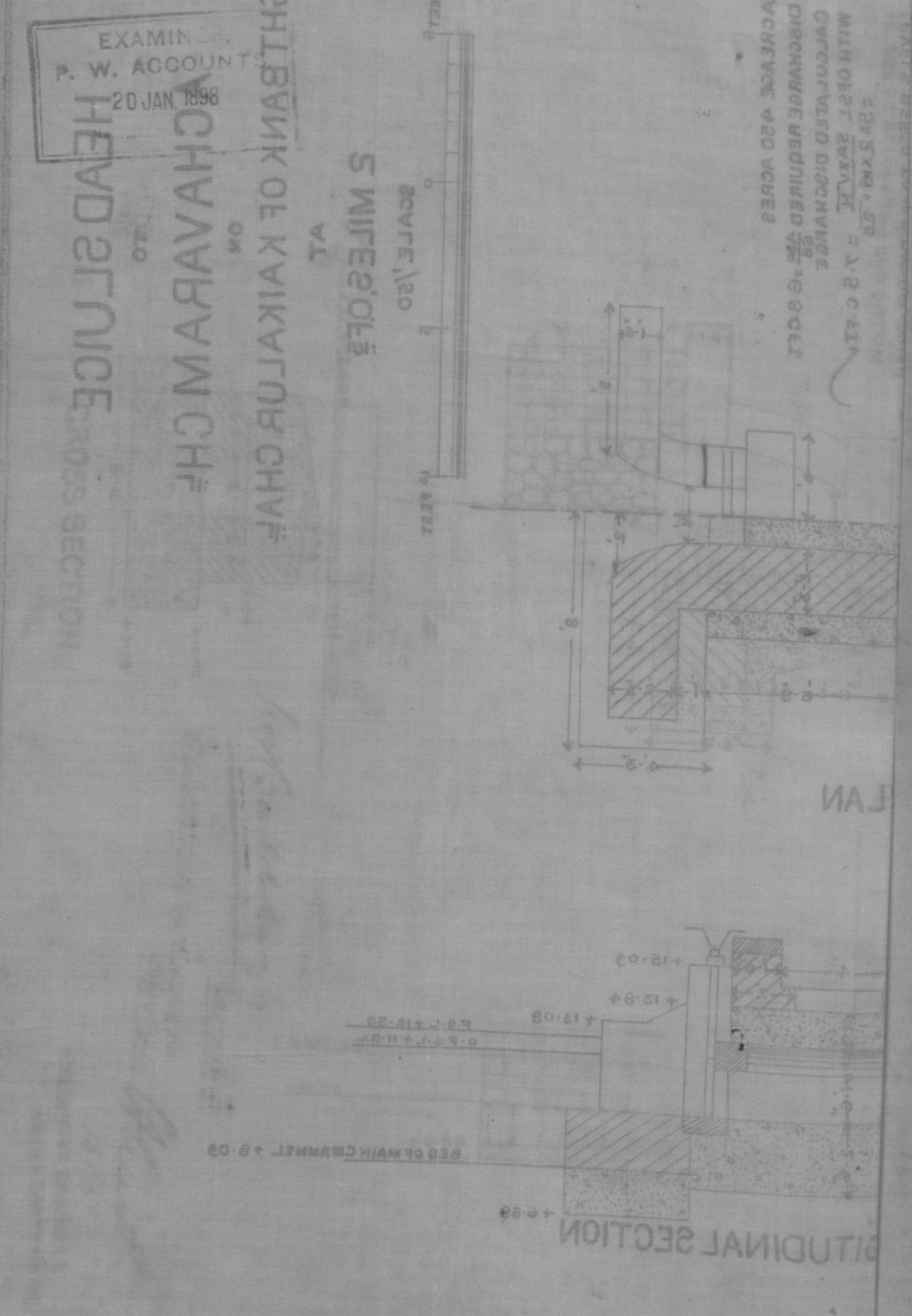


CROSS SECTION

MAJOR R.E.
SUPERINTENDING ENGINEER
2ND CIRCLE.

16/6/96
EXECUTIVE ENGINEER
KISTNA EASTERN DN.

EXAMINER,
P. W. ACCOUNTS
20 JAN. 1898



SUPG. ENGINEER'S OFFICE
No. 1/1263
10 NOV. 97
P. W. D.
SECOND CIRCLE.

2/70 KE

SUPG. ENGINEER'S OFFICE
No. 1/1914 KE
13 SEP. 97
P. W. D.
SECOND CIRCLE.

CHIEF ENGINEER
FOR IRRIGATION.
17 JAN. 1898
No. 21 KS

3

SUPG. ENGINEER'S OFFICE
No. 273 KE
1- DEC. 97

386 KE
13-8-98

EXAMINER,
P. W. ACCOUNTS.
20 JAN. 1898
No.

R21/98
4

(E. No. 123.)

Circle— Second

Division— Kistna Eastern

District— Kistna

Taluk (or Estate in case of Estate Works.)

ESTIMATE FORM.—Abstract.

Financial Head— Capital expenditure not charged to Revenue

Budget Head— 29 Irrigation

Departmental Head— 1 Works

Main Head— 3 Distributaries

Sub-Head— 3 Works

Project of which the work forms part— Kistna Delta System

Section— Eastern.

Name of Work— Constructing Sluice to Achavaram Chl at 2 miles on the Right bank of Kaikalur Chl

Amount of Estimate, Rs.— 400

To be carried out by— D.P.W.

REFERENCES.

3.32/58

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount	TOTAL.
1	2	3	4	5	6
		RS.		RS.	RS.
5.20 Units	Concrete in Mortar	19.3.0	Unit	100	
4.60 do	Rubble in Mortar	20.7.0	do	93½	
0.50 do	Cut stone	67.2.0	do	34	
~~3.20~~ 3.80 Sqrs	Pointing with cement	4.4.0	Sqr.	~~14~~ 16	
0.20 do	Plastering with Cement 3" thick	10.4.0	do	2	
1.50 Units	Rough stone packing	12.4.0	Unit	18	
0.50 do	Quarry Rubbish	9.5.0	do	5	
10 Rft	Grooving work	0.6.0	Rft	4	
	Screw gearing shutters with angle irons &c. Complete			75	
	Excavating foundations & filling in			20	
	Centering			10	
	Chunam shed			~~8~~ 5	
				383	
	Petty Supervision			7	
	Contingencies			10	
					400

Wm Boddeley
Major R. E.
Superintending Engineer
2nd Circle

Grand Total of Estimate Rs 400

STATION

Date June 1896.

A Smith
Executive Engineer.
Kistua Eastern Dn

16-6-96

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
		MEASUREMENTS IN FEET.				
1	2	3	4	5	6	7

3132

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Plastering						
Intrados of the arch	1	5·50	3·14		17	
Face in front	1	1·25	1·25		2	
Total					19	or ·20 Sqr.
Rough stone packing						
Apron	1	5·00	8·00	1·50	60	
Revetment	2	6·00	4·50	1·50	81	
Total					141	or 1·50 Unit
Quarry Rubbish						
$\frac{1}{3}$ the Quantity of Rough stone					0·50	
Total					0·50	or 0·50 Units
Grooving						
Grooves	2	5·00			10	
Total					10	10 Rft
Screw gearing shutter with angle irons &c. Complete						Ro75
Excavating foundations & filling in						Ro20
Centering						Ro10
Chunam Stud						Ro5
Petty Supervision						
Contingencies						

E. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Cut Stone						
Sill Stone	1	3·50	1·00	0·50	2	
Voussoirs	1	4·75	1·00	1·25	6	
Front returns Coping	2	5·50	1·50	0·50	8	
Wings	2	1·75	1·50	0·50	3	
Head walls	2	1·50	1·50	0·50	2	
Parapets	2	6·00	1·50	0·50	9	
Beam stone	1	3·50	1·00	1·00	4	
Rear wings	2	4·50	1·50	0·50	7	
Rear returns	2	4·00	1·50	0·50	6	
Total					47	or ·50 Units
Pointing with Cement						
Front returns	2	6·50	5·50		71	
Wings	2	1·50	6·87		21	
Head walls	2	1·50	7·50		23	
Face wall in front	1	2·00	1·25		3	
Parapet wall in front sides and top	1	6·00	5·25		32	
Do rear	1	6·00	5·75		35	
Face wall in rear	1	2·00	1·00		2	
Abutment	2	7·00	1·50		21	
Rear wings	2	5·00	6·00		60	
Do returns	2	5·50	5·00		55	
Top of rear retaining wall	1	7·00	2·50		18	
Between returns in front	1	4·25	3·00		13	
Ends of returns & parapet	8	2·00	1·50		24	
Total					~~314~~ 378	or ~~3·20~~ 3·80 Sqrs.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Concrete in Mortar						
Under front returns through out	1	16.00	4.25	1.50	102	
do abutments	1	6.75	8.50	2.50	143	
do Rear wings	1	3.75	9.75	2.50	91	
do Rear Returns	1	15.00	4.25	2.50	159	
Concrete arch	1	6.00	4.50	2.25	61	
Total					556	
Deductions						
Retaining wall in rear	1	7.00	1.50	2.50	26	
Semi circular portion of arch	1	6.00	3.14/2	area	9	
Sill stone	1	3.50	1.00	0.50	2	
Total					37	
Total concrete less deductions					519	or 5.20 Units
Rubble in mortar						
Front returns	2	5.50	1.88	2.50	52	
Wings	2	1.75	1.88	3.87	25	
Head walls	2	1.50	1.88	4.50	25	
Abutments	2	7.00	2.25	1.50	47	
Bankings	2	7.00	1.00	2.00	28	
Below parapets	2	6.00	2.00	0.75	18	
Parapets	2	6.00	1.50	1.00	18	
Rear wings	2	4.50	1.94	3.00	52	
do Returns	2	4.00	1.88	2.00	30	
Rear retaining wall	1	7.00	1.50	2.50	26	
Under front returns	1	16.00	4.25	2.00	136	
Total					457	or 460 Units

		Brought forward					65	9	8			
	4P.	Lime puntage for 5 Mls	"	"	4	Unit Candy	"	3	5			
	8P	Sand —— do ——	"	"	7	do	"	12	"			
	4P.	Lime Cartage for 2 Mls	"	4	"	do	"	1	7			
	8P	Sand —— do ——	"	6	"	do	"	4	10			
	12P	Loading & Unloading	-	-	-	-	"	2	~~5~~ 6			
		Total					67	2	"	67 67	2 5	" 2
Pointing with cement	100 sft	Rate as per Schedule	3	12	"	100 sft	3	12	"			
		Puntage & Cartage for cement & sand —					"	8	"			
		Total					4	4	"	4	4	"
Plastering with cement 3/4" thick	100 sft	Rate as per Schedule	9	9	"	100 sft	9	9	"			
		Puntage &c. for Cement & sand	"	11	"	do	"	11	"			
		Total					10	4	"	10	4	"
Rough stone packing	100 cft	Rate as per Schedule	4	14	·	100 cft	4	14	0			
		Puntage & cartage for stone as per above	-	-	-		7	5	8			
							12	3	8	~~or 12~~	~~3~~	~~8~~
Quarry rubbish	100 cft	Rate as per Schedule	1	15	"	100 cft	1	15	"			
		Puntage &c. for stone as per above for [illegible] Con crete					7	5	8			
							9	4	8	9	5	0

SUPG. ENGINEER'S O[FFICE]
No. 3/25
10 NOV. 97
P. W. D.
SECOND CIRCLE

CHIEF ENGINEER
FOR IRRIGATION.
27 JAN. 1898
No. 21/3

Smith
20/6

25-6
Executive Engineer
Kistna Eastern Dn.

23/6

Dec. 3/3132/58

D. P. W.

Second Circle.
Kistna Eastern Division.

EXAMIN
P. W. ACCOUNTS.
20 JAN. 1898
No

Data to accompany the Plans and Estimates for the—

Description.	Materials & labour.					Per.	Amount.			Total.
	Quantity.	Particulars.	Rate.							
Concrete in Mortar	100 cft	Rate as per Schedule	9	..	..	100 cft	9	..	..	
	110 cft	Puntage for 49 miles from Bezwada to Rudravaram	..	1	8	mile	5	1	8	
		Unloading	..	..			..	4	..	
		Cartage for 2 ms ~~B.J.~~ Bandy work	1	..	..	..	2	..	..	
	7.5 P.	Lime puntage for 51 ms	..	..	4	Candy mile	..	6	5	
	15 P.	Sand — do —	..	..	7	Do	1	6	4	
	7.5 P	Lime Cartage for 2 ms	..	4	..	Do	..	3	..	
	22.5 P	Loading & Unloading	..	4	..	Candy	..	4	6	
	15. P.	Sand Cartage for 2 ms	..	6	..	Do mile	..	9	..	
		Total					19	2	11	or 19 3 ..
Rubble in Mortar	100 cft	Rate as per Schedule	10	4	..	100 cft	10	4	0	
	110 cft	Puntage & cartage &c for Stone as per above	..	..	..		7	5	8	
	22.5	Lime & Sand puntage &c as per above - ..					2	13	3	
		Total					20	6	11	or 20 7 ..
Cut stone	100 cft	Rate as per Schedule	57	8	..	100 cft	57	8	..	
		Puntage for 49 miles	-	-	-	-	5	1	8	
		Unloading					..	8	..	
		Cartage for two miles	1	4	..	mile	2	8	-	
		C.O.					65	9	8	

Report to accompany the estimate for Constructing sluice to Atcha-veram channel at 2 Miles on the R. Bank of Kykalur channel Estimate Rupees 400.

EXAMINER,
P. W. ACCOUNTS.
20 JAN. 1898
No

The sluice for which this estimate is submitted is designed for the better regulation of distribution to 450 acres of land lying in the right of the Kykalur channel and which have hitherto been supplied by spouts in the main channel bank. The site is at 2 M 0 F 1 from the Head sluice. Hydraulic Data are given in the plan. The sluice has already been constructed under orders of the Superintending Engineer.

Executive Engineer
Kistna Eastern Division

16-12-97

Superintending Engr's Office
No. 118 KE 2nd Circle, Bezwada. Dated 14.1.97

EXAMINER,
P. W. ACCOUNTS.
20 JAN. 1898
No

From

J. Hannan Esquire,
Superintending Engineer,
2nd Circle.

To

The Chief Engineer,
for Irrigation.

Enclosures: 3
1 D & A Estimate with data
1 Report
1 Tracing
3

Sir,

I have the honour to forward herewith for your approval and sanction of Government plan and estimate amounting to Rs 400/- for constructing a Sluice to Achavaram channel of Kykalur channel a distributary of the Polraz canal in the Kistna Eastern Division.

2. The amount of the estimate may be met from the balance of the provision as per item No. 710 of the statement printed with G.O. No. 857 I, dated 11-10-93.

3. The report which accompanies the estimate explains the necessity.

I have the honour to be
Sir,
Your most obedient Servt.
J Hannan
Superintending Engineer
II Circle

12/1/98

No. 21 Kl

R21/98
1

Oct 2
3137/08