

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	1714	Press
B.P. No.		Mis.
Dated	5-7-	6876 195

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
5th July 1876. No. 1,714.

Read the following:—

No. 65 W.

No. 98. *Note by the Chief Engineer for Irrigation.*

The following estimates from the No. 1 or Northern Range are forwarded by the Officiating District Engineer, Tinnevely, with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
Sunkerninarcovil ...	Poohengoody ...	R. No. 113, Chinna Chetty Tank ...	Rs. 330
Do. ...	Chinthamoney ...	R. „ 129, Kothandampary Tank ...	1,255
Do. ...	Perambatoor ...	R. „ 126, Kundiaperi Tank ...	625
Do. ...	Poohengoody ...	R. „ 111, Atheyuthu Tank ...	275

2. The financial and hydraulic details of the Irrigation Works concerned are exhibited in the following statement:—

I.—Financial Details.

Name of Work.	Ayacut Area.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	OUTLAY.			
					During the previous 4 years.	PROPOSED.		
						Capital.	Revenue.	Average annual proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT.
Chinna Chetty Tank ...	20	110	91	111	...	100	230	72.53
Kothandampary Tank ...	87	487	353	437	...	...	1,255	71.10
Kundiaperi Tank ...	60	419	230	433	327	...	625	73.23
Atheyuthu Tank ...	18	102	94	123	...	...	275	68.51

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M. T. L. per Sec.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F. T. L.	Above M. T. L.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Chinna Chetty Tank ...	25	270	...	W 20	20	Not stated	Not stated	0.0	...
				K 10	7½	3.00	1.50	206.1	
Kothandampary Tank..	Not stated	902	...	K 37	23.25	Not stated	Not stated	892.7	1
				W 59	59	4.50	2.00	783.5	
Kundiaperi Tank ...	5	354	400	W 60	60	Not stated	Not stated	570.2	...
				W 60	60	4.50	2.50	570.2	
Atheyuthu Tank ...	Not stated	...	356	W 36	36	Not stated	Not stated	0.0	...
				W 36	36	3.00	1.00	342.1	

NOTE.—The proposed dimensions of escapes and heights of bund are entered in large type. The existing dimensions in small type. The following abbreviations are used:—K.—Kalingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. R.—Revenue Numbers.

3. The following is a summary of the work proposed to be carried out in each case:—

Chinna Chetty Tank.—Raising and repairing the bund, rebuilding the covering of the sluice, constructing a retaining wall and cistern, and constructing a masonry weir.

Kothandrapary Tank.—Raising and repairing the bund, constructing cisterns and reconstructing retaining walls for two irrigation sluices, extending and improving the existing calingulah by converting it into a weir.

Kundiaperi Tank.—Raising and repairing the bund, also repairing the sluice and surplus weirs, and constructing a regulator at the head of the supply channel.

Atheyuthu Tank.—Raising and repairing the bund, also repairing the supply channel, constructing a surplus weir and a front retaining wall and cistern to the existing irrigation sluice.

4. It is not desirable as a rule to adopt the native pattern of calingulah or weir with dam stones either wholly or partly as in the case of the Chinna Chetty Tank. As, however, the discharge above the dam stones and solid crest would probably in itself suffice to relieve the tanks of flood-water, the design may stand.

The improvements proposed for the calingulah of the second tank on the list involves the regulation of discharge through vents closed by wooden planks. Their timely removal cannot be depended on, and the weir must be lengthened so as to have a total length of crest of 59 feet. Thus will involve an increase to the estimate of Rs. 105.

5. It is proposed to embank the stream which supplies the Kundiaperi Tank and to confine the supply from the river to the channel leading to the tank. The ends of the embankment abutting on the channel are to be provided with masonry retaining walls carried $4\frac{1}{2}$ feet below the channel bed. These cannot be said to regulate the supply to the channel, and the masonry work cannot properly be called a regulator. The object in view is to prevent the spill from the river reaching the tank and breaching it, and the proposed arrangements are suitable so far as they go.

6. The names given to the tanks are confusing. The name of the village should be distinguished from that of the tank when the latter has a special name, and the word tank should be substituted for the tamil equivalent.

The estimates are recommended for sanction subject to the revision recorded in paragraph 4 for that in connection with the Kothandrapary Tank.

The following statement shows the proposed distribution of the outlay recommended for sanction to the debit of the several heads of account involved:—

Name of Tank.	Item of Estimate.	FUND.		Total for each Tank, &c.
		ORDINARY AGRICUL, TURAL.		
		Original Works.	Repairs.	
		RS.	RS.	RS.
Chinna Chetty Tank	Raising and repairing the bund	...	193	380
	Rebuilding the covering of the sluice in front and constructing a retaining wall and cistern	...	37	
	Constructing a masonry weir	100	...	1,255
	Raising and repairing the bund	...	963	
Kothandrapary Tank	Constructing cisterns and reconstructing retaining walls for two irrigation sluices	...	108	1,255
	Improving and extending the existing calingulah and converting it into a weir...	185	...	

Name of Tank.	Item of Estimate.	FUND.		Total for each Tank, &c.
		ORDINARY AGRICULTURAL.		
		Original Works.	Repairs.	
		RS.	RS.	RS.
Kundiaperi Tank	Raising and repairing the bund, and also repairing the sluice and surplus weirs ...	...	510	625
	Constructing a masonry head to the supply channel ...	115	...	
	Raising and repairing the bund and also repairing the supply channel ...	...	113	
Atheyuthu Tank	Constructing a surplus weir ...	113	...	275
	Constructing a front retaining wall and cistern to the existing irrigation sluice ...	50	...	

(Signed) A. DEC. SCOTT, Major, R.E.,
Depy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

3rd June 1876.

To the Secretary to Government, Public Works Department.

No. 99. ORDER THEREON, 5th July 1876, No. 1,714.

IRRIGATION, No. 7.
Account.

No. 65 W., dated 3rd June 1876.

THE following estimates for Irrigation works in the No. 1 or Northern Range, Tinnevely District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

Irrigation.

Name of Work.	Item of Estimate.	FUND.		Amount.	Irrigation Registry No.
		Ordinary Agricultural.			
Chinna Chetty Tank ...	Raising and repairing the bund ...	Repairs	...	rs. 193	1 } 2 } 58 I.
	Rebuilding the covering of the sluice in front and constructing a retaining wall and cistern.	Do.	...	37	
	Constructing a masonry weir ...	Original Works	...	100	3 } 1 } 2 } 59 I.
	Raising and repairing the bund ...	Repairs	...	962	
	Constructing cisterns and reconstructing retaining walls for two irrigation sluices.	Do.	...	108	
Kothandrapary Tank	Improving and extending the existing calingulah and converting it into a weir.	Original Works	...	185	8 }
Kundiaperi Tank ...	Raising and repairing the bund and also repairing the sluice and surplus weirs.	Repairs	...	510	1 } 2 } 60 I.
	Constructing a regulator at the head of supply channel.	Original Works	...	115	1 } 2 } 3 } 61 I.
Atheyuthu Tank ...	Raising and repairing the bund, and also repairing the supply channel.	Repairs	...	113	
	Constructing a surplus weir ...	Original Works	...	113	
	Constructing a front retaining wall and cistern to the existing irrigation sluice.	Do. do.	...	50	

Proceedings of the Madras Government, Public Works Department,
5th July 1876. No. 1,714.

2. These sanctions are registered as shown above.
(True Extract.)

Colonel,
Offg. Under Secy. to Govt., P.W.D.

To the District Engineer, Tinnevely.
" Collector of Tinnevely.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.

E. I. Form No. 1.

OFFICE OF CHIEF ENGINEER FOR IRRIGATION,

No 65.W. 3rd June 1876.

Note by the Chief Engineer for Irrigation.

No. 3

Dated 1 April 1876.

Indro. 21

The following Estimates from the *North Range* are forwarded
by the *Officiating District Engineer Tinnevely* with his letter
marginally noted.

	Village.	Work.	Amount. Rs.
<i>Sunkaridharicoril</i>	<i>Pookengoody</i>	<i>Ris Chinna Chetty tank</i>	<i>330</i>
<i>do</i>	<i>Chenthamonay</i>	<i>R. K. Kothandramperiy</i>	<i>1255</i>
<i>do</i>	<i>Perambalur</i>	<i>R. K. Kundaaperi</i>	<i>625</i>
<i>do</i>	<i>Pookengoody</i>	<i>R. K. Atheyuthu</i>	<i>275</i>

2. The Financial and Hydraulic details of the Irrigation works concerned
are exhibited in the following statement:—

I.—Financial Details.

Name of Work.	Ayacut Area. Acres.	Assessment. Rs.	Average Revenue for 5 years. Rs.	Highest Revenue for 5 years. Rs.	During the previous 4 years. Rs.	OUTLAY.		
						Proposed.		
						Capital. Rs.	Reve- nue. Rs.	Average annual proportion of Charges to Revenue. Rs. per cent.
<i>Chinna Chetty Tank</i>	<i>20</i>	<i>110</i>	<i>91</i>	<i>111</i>	<i>Nil</i>	<i>100</i>	<i>230</i>	<i>72.52</i>
<i>Kothandramperiy d.</i>	<i>87</i>	<i>487</i>	<i>353</i>	<i>487</i>	<i>Nil</i>	<i>.</i>	<i>1255</i>	<i>71.10</i>
<i>Kundaaperi d.</i>	<i>60</i>	<i>419</i>	<i>260</i>	<i>483</i>	<i>327</i>	<i>.</i>	<i>625</i>	<i>72.23</i>
<i>Atheyuthu d.</i>	<i>13</i>	<i>102</i>	<i>94</i>	<i>123</i>	<i>Nil</i>	<i>.</i>	<i>275</i>	<i>58.57</i>

as to have a total length of crest of 54 feet.
 This will involve an increase to the estimate
 of Rs 105

5. It is proposed to embank the stream
 which supplies the Kundiaperi tank to confine
 the supply from the river to the channel leading
 to the tank. The ends of the embankment abutting
 on the channel are to be provided with masonry retaining
 walls carried 4 1/2 feet below the channel bed. These cannot
 be said to regulate the supply to the channel &
 the masonry work cannot properly be called a
 Regulator. The object in view is to prevent the
 spill from the river reaching the tank & breaching
 it, the proposed arrangements are suitable so far as they
 6

The names given to the tanks are
 confusing. The name of the village should
 be distinguished from that of the tank
 when the latter has a special name and the
 word tank should be substituted for the
 Tamil equivalent

The estimates are recommended for sanction
 subject to the revision recorded in para 4 for
 that in connection with the Kothmandrapary
 Tank.

Note for Printer - Red entries in this note are to be printed in
 red ink.

P. V. S. 201

The following Statement shows the proposed distribution of the outlay
 recommended for sanction, to the debit of the several heads of account involved:—

Name of Tank.	Items of Estimate.	FUND.			Total for each Tank, &c.
		Capital Ordinary Improvements	Revenue.		
			Extension & Improvements	Repairs.	
Chenna chetty Tank.	Raising & repairing the bund	"	"	193	
	Rebuilding the covering of the sluice in front & constructing a retaining wall & culvert	"	37	37	330
	Constructing a masonry weir	100	"	"	
Kothandrapary Tank.	Raising & repairing the bund	"	"	962	
	Constructing culverts and reconstructing retaining walls for a drainage sluice	"	108	108	1255
	Improving & extending the existing Kalingula and converting it into a weir	185	185	"	
	Raising & repairing the bund and also repairing the sluice and culverts weirs	"	"	570	
Kundiaperi Tank	Constructing a regulator at the head of the supply channel	115	115	"	625
	Raising				

5.
 w
 the
 to
 on
 w
 be
 the
 Re
 1/2
 1/2
 6
 cos
 be
 wh
 w
 In
 sub
 the
 Jan

At the mouth of
 Tank.

Raising & repairing
 the bund and also
 repairing the
 supply channel.
 Constructing a
 surplus weir
 Constructing a
 front retaining
 wall & widening to the
 existing irrigation
 sluice

1/13

113

275

50

112

P. H. 1870 m.p.
 1870 m.p.
 1870 m.p.

Amesbury

Major R. E.
 Deputy Chief Engineer for Irrigation
 for
 Chief Engineer for Irrigation

To
 The Secretary to Government
 Public Works Department

1870 m.p.
 1870 m.p.

For Circulation
Issue Case.

FORMER CASES:

R No. 2071 of 1876

I. E. Form No. 31.

P. H. 1876. Department
The Chief Engineer for Irrigation.

Issue No.

Dated 3rd June 1876

LATER CASES.

No. of 1876

Sent to Government with No.

18

W. of

Printed with G. O. No.

dated

REMINERS ISSUED.

No. 1, dated	1876
" 2, "	"
" 3, "	"
" 4, "	"
" 5, "	"

KEEP-WITHS.

Cir-3-776 Para 5-9-76
P.H. Shet 52 fund

Received No. 2071
Dated 1st April 1876
Dated 3rd June
Received 7th July } 1876-
P.H. 65 H.

Subject:—

Irrigation Estimates.
Submitted for sanction
Certain

ENCLOSURES. 21

Letter 1: 3 of 12th 76.
4 Sheets Reports.
4 Reports.
4 Memoirs of class of Engineers.
4 Plans.
4 Abstracts with detail Dets.

E. I. Form No. 3.

No 1714 95 July 1876

THE following Estimates for Irrigation
works in the 1st or Northern Range,
Tinnevely District, forwarded by the
Chief Engineer for Irrigation with his Memo.

No. 65-W

dated

3rd June 1876.

marginally noted are sanctioned:—

Name of Work.	Item of Estimate.	Fund.	Amount	Irrigation Registry No.
Chinnachetty Tank	Raising and repairing the bund	Revenue Repairs	193.	1
	Rebuilding the covering of the sluice in front and constructing a retaining wall & eastern masonry weir	Revenue Extension Improvements	31	2
	Constructing a masonry weir	Revenue Extension Improvements	100.	3
	Raising and repairing the bund	Revenue Repairs	962.	4
Kothumbampalayam Tank	Constructing sluices & raising walls for 2 irrigation sluices	Revenue Extension Improvements	1082.	5
	Improving & extending the existing Kalmugul and converting it into a well	Revenue Extension Improvements	455.3	6

Hundrapen
Tank

Raising & repairing
the bund & also
repairing the sluice
and snophs
weirs

Revenue
Repairs

\$10.1

60I

Constructing a
regulator at the
head of supply
channel

Revenue
Expenditures
Improvements
Original Works

113.2

Raising & repairing
the bund and
also repairing
the supply
channel

Revenue
Repairs

112.1

Constructing
a snophs
weir

Revenue
Expenditures
Improvements
Original Works

113.2

Atheyathu
Tank

Constructing
a front
returning
wall and
extending to
the existing
irrigation
ditch

Revenue
Expenditures
Improvements
Original Works

50.3

61I

These cautions are registered
as shown above -

1898-99

D. E. Panninelly
Collector
C. E. for J. with 21 lines
Ex. P. with
Receipt

Depto 18/7/18

Chief

11/11/18

11/29/18

C. E. P.

4852 N.

Govt. of 1876: Madras
PUBLIC WORKS.

To

The H. B. Linnemally

Dated

Issued

Recd

Encl.

G. O., 5 July 1876, No. 1714

Nos. 98-99

Jankas. Linnemally &

Estimates for the
repair &c of certain
sanctions of

Not in Reg.
21-7-76.