

(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.	2357	Press	<i>Original</i>
B.P. No.		Mis.	
Dated	16-8	1875	195

Not to be folded or roughly handled

Ayacut area	Acres	548
„ assessment	Rupees	2,698
Average revenue	„	2,408

Proceedings of the Madras Government, Public Works Department,
16th August 1875.

No information has been given as to past expenditure on repairs. In G. O., No. 490, of the 21st February 1872, it was directed that the question of the enlargement of the capacity of this tank should be considered in due course, and in August 1874 an estimate amounting to Rupees 4,840 was submitted for repairs and improvements.

To District Engineer, No. 789, 30th Oct. 1874.
No. 1,115, 23rd June 1875.

This was in some respects defective and a revised estimate has been prepared.

The estimate does not show clearly the

amount chargeable to Capital and Revenue respectively, and abstracts exhibiting this information should be submitted. It is proposed to raise the F. T. L. $1\frac{1}{2}$ feet, and the work required in connection therewith will be a Capital charge. The bund at present is very irregular in level, and in parts so low as to endanger the safety of the tank. The drainage basin has not been stated, but the tank receives most of its supply from the Alliabadd channel. The improvements contemplated will increase the capacity of the tank from 1,662 millions of cubic yards to 2,207 millions, a difference of 545 millions of cubic yards, and it is reported that 77 acres additional will be irrigated. It seems probable that the object proposed to be attained will be secured by the arrangements designed. Greater attention should be paid to the notation of all levels. One datum should have been used throughout, and the level of every important point, such as sills F. T. L., M. W. L., top of bund, &c., referred to this datum. It is as easy to do these things properly as in the slovenly manner which too frequently leads to mistakes of moment. The sluice will require a platform from which to work the plug.

OOTACAMUND,
9th August 1875.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Officiating Chief Engineer, P.W.D.

AGRICULTURAL—ORDINARY—CAPITAL.

ABSTRACT ESTIMATE, No. 109 OF 1874-75.

District, North Arcot; Taluq, Palmanair; Village, Keelary Cuddapanatham.

WORK.—Constructing retaining wall and dam to the High and Low Level Sluice Channels respectively crossing the surplus of the tank.

Quantity.	Description of Charges.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS.
<i>High Level Sluice Channel.</i>					
83½	Cubic yards of rough stone in chunam ...	2 12 0	C. yd.	229 10 0	560
82½	Square yards of pointing in chunam ...	0 2 0	Sq. yd.	10 5 4	
33	Cubic yards of brick in chunam ...	4 8 0	C. yd.	148 8 0	
11	Squares of plastering two coats ...	2 8 0	Sqre.	27 8 0	
174½	Cubic yards of new rough stone ...	0 12 0	C. yd.	130 11 0	
	Sundries ...	...	...	13 5 8	
<i>Low Level Sluice Channel.</i>					
37	Cubic yards of brick in chunam ...	4 8 0	C. yd.	166 8 0	520
10½	Squares of plastering two coats ...	2 8 0	Sqre.	26 4 0	
551½	Cubic yards of cutting channel (chut-too) and very hard moramboos ...	0 6 0	C. yd.	206 11 6	
	Compensation for land ...	...	...	100 0 0	
	Sundries ...	...	...	20 8 6	
	Total estimate ...	...	...	...	1,080

Proceedings of the Madras Government, Public Works Department,
16th August 1875.

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE, No. 109 OF 1874-75.

District, North Arcot; Taluq, Palmanair; Village, Keelary Cuddapanatham.

WORK.—Repairing Keelary Cuddapanatham Tank Calingulah.

Quantity.	Description of Charges.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS.
52½	Cubic yards of new rough stone in chunam ...	2 12 0	C. yd.	145 1 0	540
9	Do. of cut stone slabs laid in chunam ...	20 0 0	"	180 0 0	
84	Square yards of pointing in chunam ...	0 2 0	Sq. yd.	10 8 0	
168	Cubic yards of new rough stone ...	0 12 0	C. yd.	126 0 0	
	For repairing the leakages at the end of calingulah through the banks ...	...	...	50 0 0	
	Sundries ...	...	...	28 7 0	
	Total estimate ...	...	...	...	540

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE, No. 7 OF 1874-75.

District, North Arcot; Taluq, Poloor; Village, No. 20, Narrainamungalum Chittary.

WORK.—Repairing the Narrainamungalum Chittary Tank.

Quantity.	Description of Charges.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
1,690	Cubic yards of earth work	0 1 3	C. yd.	132 0 6	232 2 0
213	Do. of repacking old stone...	0 2 6	"	33 4 6	
2,138	Square yards of turfing	0 0 6	Sq. yd.	66 13 0	
24 Yards Flush Escape.					
89½	Cubic yards of loose stone	0 12 0	C. yd.	67 2 0	67 2 0
Sundries at 5 per cent.					
		...	...	...	299 4 0
		...	...	...	15 12 0
Total estimate		...	...	...	315 0 0

AGRICULTURAL—ORDINARY—CAPITAL.

ABSTRACT ESTIMATE, No. 6 OF 1874-75.

District, North Arcot; Taluq, Wandewash; Village, No. 341, Thennathoor.

WORK.—Lengthening the escape of Thennathoor Tank from 28 feet to 90 feet.

Quantity.	Description of Charges.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
431½	Cubic yards of rough stone in mortar ...	2 8 0	C. yd.	108 15 8	288 2 8
82½	Do. of brick in mortar with plastering ...	3 8 0	"	288 2 8	
62	Do. of loose stone apron ...	0 12 0	"	46 8 0	
4½	Do. of removing old wing wall ...	0 12 0	"	3 2 0	

Proceedings of the Madras Government, Public Works Department,
16th August 1875.

WORK.—Lengthening the escape of Thennathoor Tank from 28 feet to 90 feet.—(Concluded.)

Quantity.	Description of Charges.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
15	Removing dam stones ...	0 4 0	Each.	3 12 0	
147	Cubic yards of earth work (excavating foundation) ...	0 2 0	C. yd.	18 6 0	
125	Do. of do. (removing bank) ...	0 1 6	"	11 11 6	
	Sundries, &c....			99 6 2	
	Total estimate ...				580 0 0

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE, No. 6 OF 1874-75.

District, North Arcot; Taluq, Wandewash; Village, No. 341, Thennathoor.

WORK.—Filling breaches and repairing the Thennathoor Tank.

Quantity.	Description of Charges.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
3,085½	Cubic yards of earth work ...	0 1 3	C. yd.	241 0 6	
1,705½	Do. of do. ...	0 3 0	"	319 12 6	
3,494½	Square yards of turfing ...	0 0 6	Sq. yd.	109 3 4	
	Sundries, &c....			49 15 8	
	Total estimate ...				720 0 0

No. 269.

ORDER THEREON, 16th August 1875, No. 2,357.

IRRIGATION, No. 15-A.

The following estimates are sanctioned:—

North Arcot District.

	Capital.	Revenue.
	RS.	RS.
1. Keelary Cuddapanatham Tank ...	1,080	540
2. Narrainamungalum Chittary ...		315
3. Thennathoor Tank ...	580	720
4. Velloor Tank ...		5,700

2. For the last-mentioned estimate separate abstracts for the works chargeable to Capital and Revenue respectively are to be prepared and submitted by the District Engineer, whose attention is called to the remarks thereupon and to the observations on the other estimates contained in the foregoing memorandum.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the District Engineer, North Arcot.
" Controller of Public Works Accounts.
" Chief Engineer for Irrigation.
Fxd. E. C. Shunker.
Spare Copies

Agricultural Ordinary. No 109/74/75 Capital.
Abstract Estimate No 109/74/75

District North Arcot Taluq Palmanair Village Keelary Cuddapanatham
Work. Constructing Retaining wall and dam to the high and low level sluice channels respectively crossing the surplus of the Tank

Quantity	Description of Charges	Rate	Per	Amount	Total
		R. A. P.		R. A. P.	R. A. P.
83½	High level Sluice channel Cyz of Rough Stone in Chumam	2 12 ½	Cyz	229 10 0	
82½	Cyz of Plastering in Chumam	2 2 ½	Cyz	10 5 4	
33	Cyz of Bricks in Chumam	4 8 ½	Cyz	148 8 4	
11	Cyz of Plastering 2 Coats	2 8 ½	Cyz	27 8 4	
17½	Cyz of new Rough Stone	4 12 ½	Cyz	130 11 4	
	Sundries and uneven items			13 5 8	
	Total			560 4 4	560
	Low level Sluice channel				
37	Cyz Bricks in Chumam	4 8 ½	Cyz	166 8 4	
10½	Cyz of Plastering 2 Coats	2 8 ½	Cyz	26 4 4	
55½	Cyz of cutting channel (Chittor) and very hard marambos	3 4 6 ½	Cyz	206 11 6	
	Compensation for land			100 4 4	
	Sundries			20 8 6	
	Total Estimate Rupees				520 10 80 4 4

At 2. Muttos Rangapur

19th March 1875

(Sd) J. Lennyeuch Captain R.E.
Dist. Engineer North Arcot

(Sd) N. Parthasarathy Jyengaur. Sub Eng
In charge of At 2 or Muttos Rangapur

(Sd) Mr. P. Whitehead
Collector

Agricultural Ordinary

Revenue

Abstract Estimate No 109 of 1874/75

Dist North Arcot Taluk Palmanair Village Keelary (Adapantham
Mokk. Repairing Keelary (Adapantham tank Calingalah

Quantity	Description of Charges	Rate		By		Amount		Total	
		R	A	P	R	A	P	R	A
52 1/4	Cy ² new rough stone in chumam	2	12	a	67 1/2	145	1	a	
9	S ² Cut Stone Slabs laid in chumam	20	a	a	52	180	a	a	
84	S ² 3 ² of Pointing in chumam	a	2	a	10	8	a		
168	Cy ² new rough stone	a	12	a	67 1/2	126	a	a	
	For repairing the leakages at the end of Calingalah through the bank	2	a	a	50	a	a		
	Sundries and unenumerated items				28	7	a		
Total Estimate								540	a

(Signed) J. Pennycuik Captain D. C.
Dist Engr North Arcot

(Sd) T. Parthasarathi Iyengar. Sub. Engr.
In charge of No 2 or

No 2 or Clutton
Range Officer
19th March 1875

(Sd) W. L. Whitelocke
Collector

Clutton Range

Agricultural Ordinary

Revenue

Abstract Estimate No 7 of 1874/75

Dist North Arcot Taluk Labor Village No 20 - Narainamangalam Chittary
Work. Repairing the damages sustained by the Narainamangalam Chittary
during the storm of 5th May 1874 and Constructing 24 yards Flush Escapes

Quantity	Description of Charges	Rate	Per	Amount	Total
1690	Cyds of Earth Work	" 13	Cyds	132	" 6
213	Do of Repacking old Stone	" 26	Rs	33	4 6
2138	Sq yards of Turfing	" 6	Cyds	66	13
					232 2

24 yards flush escapes

89 1/2	Cyds of Loose Stone	" 12	Cyds	67	2
				67	2

299 4

15 12

315 4

Sundries at 5% Conty
Total Estimate Rupees

Approved
27th April 1875

(Sd) S. M. Govindar. Overseer
in charge of Labor Taluk

(Sd) Mr. Beram Lett
Supt. of Labor Taluk
Sd. J. G. Dennywick. Sd. J. G.
Dist. Off. North Arcot

(Sd) Mr. S. Whiteside
Collector

Agricultural Ordinary

Capital

Abstract Estimate No. 6. of 1874/75

District North Arcot Taluk Wandawash Village No. 341 - Theppanthor
 Mark 2. ~~Expanding the top of the wall of the temple from~~
~~Expanding 28 feet to 90 feet.~~

Quantity	Description of Charges	Rate		Amount	Total
		Rs	P		
13 ¹⁶ / ₂₇	Cy of Rough Stone in mortar	2	8	632	108 15 8
82 ¹ / ₂	S of Brick in mortar with plastering	3	8	288	2 8
62	S of Loose Stone Apron	12	0	46	8
4 ¹ / ₂	S of Removing old wing wall	12	0	3	2
15	Removing Dam Stones	4	0	3	12
147	Cy of Earth work (Excavating foundation)	2	0	18	6
125	S of S. (Removing bank)	1	6	11	11 6
	Sundries				99 62
	Total Estimate				Rs 580

Approved -
 27th April 1873

(Sd) Mr. H. Bevan Lth
 Exp. Engr. Labor Party

(Sd) J. Pennycook Captain R.E.
 Dist. Engr. North Arcot

(Sd) Mr. J. White Lth
 Collector

Agricultural Ordinary

Revenue

Abstract Estimate No 6 1874/75

District North Arcot: Taluk Wandawash. Village No 341 - Shennathoor
Work. Filling breaches and repairing ~~damages sustained by the~~
Shennathoor tank in storm of May 1874.

Quantity

Description of charges

Prices per unit Amount Total

3085 $\frac{1}{4}$ Cubic of Earth work

= 13 Cubic 241 = 6

1705 $\frac{1}{2}$ Do of Do

= 3 = Do 319 12 6

3494 $\frac{2}{3}$ Sq yards of Turfing

= = 6 Sq 109 3 4

Sundries per per

49 15 8

Total Estimate Rupees — 720 =

Done
27th April 1875

(Signed) Mr. H. Bevan Esq
Dep. Asst. Commr. Range

(Sol) J. Lemjeweich Esq
Dep. Asst. North Arcot

(Sol) Mr. J. Whitehead

Collector

Irrigation.

No 896

Enclom 19

Memorandum.

The following estimates have been submitted by the District Engineer, North Proch.

No 538 - 11 May 1. Kollary Kundaparamam
1875.

Santhi Rupees 1620

Agacut area acres 320

Government Rupees 1488

Average revenue " 1195

No repairs have recently been executed.

The area of the catchment basin is stated to be about 3 square miles; the surplus weirs have an effective length of 132 feet; and owing to the nature of the ground it would be costly to extend them, so it is calculated that a maximum flood discharge can be disposed of with 6 feet going over the weirs, and it is reported that the bund, which would be 2 feet above the water level in that case, would be amply strong enough. The estimate provides for repairs to the Casago weir.

including filling some scour holes in the surplus channel, the necessity for which is not apparent and should be further considered, and for improving the arrangements for carrying the supply from two of the tanks across the surplus channel. The former work amounting to Rupees 540 will be chargeable to Revenue, and the latter estimated to cost Rupees 1080 to Capital. The need of the improvements has been accepted on the District Engineer's countersignature, the work being of a kind the necessity for which can be ascertained only on inspection.

2. Narainamangalam Chittary No 315.

Adjacent area acres 26
" Assessment Rupees 106
" Average revenue " 88

No repairs have recently been executed. This tank breached in May 1874 owing to it is believed, the cody or surplus opening having been closed. It is intended to provide for surplus by a dry stone

improvement 24 yards in length which appears to be sufficient.

3. Pennathoor Tank Rupees 1800
Adjacent area acres 151
" Assessment Rupees 935
" Average revenue " 837

Rupees 585 were expended on this tank in 1872-73 and 1873-74, but apparently the disposal of surplus was not attended to as the area of the catchment basin is reported to be 2 square miles, and the Culingalan is only 28 feet long, with an effective length of 10 feet, which is altogether inadequate. The escape is to be lengthened to 90 feet, but it must be noticed that the area of the drainage basin as stated is very small for the acreage irrigated. Of the total, Rupees 720 will be charged - 440 to Revenue and Rupees 280 to Capital. It will be better to place the apron of the surplus weir on a lower level as the design shows a drop of 2 feet on to unprotected ground.

including filling some scour holes in the surplus channel, the necessity for which is not apparent and should be further considered, and for improving the arrangements for carrying the surplus from two of the tanks across the surplus channel. The former work amounting to Rupees 540 will be chargeable to Revenue, and the latter estimated to cost Rupees 1080, to Capital. The need of the improvements has been accepted on the District Engineer's countersignature, the work being of a kind the necessity for which can be ascertained only on inspection.

2. Narainamangalam Chittary No 315.

Adjacent area acres 26
Assessment Rupees 106
Average revenue " 88

No repairs have recently been executed. This tank breached in May 1876 owing to it is believed, the cody or surplus opening having been closed. It is intended to provide for surplus by a dry stone

improvement 24 yards in length which appears to be sufficient.

3. Tennathoor Tank Rupees 1300
Adjacent area acres 151
Assessment Rupees 935
Average revenue " 837

Rupees 385 were expended on this tank in 1872-73 and 1873-74, but apparently the disposal of surplus was not attended to as the area of the catchment basin is reported to be 2 square miles, and the Culingulam is only 28 feet long, with an effective length of 15 feet, which is altogether inadequate. The escape is to be lengthened to 90 feet, but it must be noticed that the area of the drainage basin is stated to be very small for the acreage irrigated. Of the total, Rupees 720 will be chargeable to Revenue and Rupees 580 to Capital. It will be better to place the surplus of the surplus water on a lower level as the design shows a drop of 2 feet on to unprotected ground.

4. Velloor Tank Rupees 5700 No 1115-23
 Dyicut area acres 548 June 1875.
 " Rupees 2,678
 Average revenue " 2,408

No information has been given as to
 past expenditure on repairs.

In G.O. No 490 of the 21st February
 1872, it was directed that the question
 of the enlargement of the capacity of
 this tank should be considered in
 due course, and in August 1874 an
 estimate amounting to Rupees 4840
 was submitted for repairs and im-
 -provements. This was in some
 respects defective and a revised esti-
 -mate has been prepared. The esti-
 -mate does not show clearly the amount
 chargeable to Capital and Revenue res-
 -pectively, and abstracts exhibiting
 this information should be sub-
 -mitted. It is proposed to raise the
 F.T.L 1½ feet and the work required
 in connection therewith will be as

To St. C. Dept. 20
 No 1115-23 June 1875

Capital charge. The bund at present
 is very irregular in level, and in
 parts so low as to endanger the
 safety of the tank. The drainage
 basin has not been stated, but the
 tank receives most of its supply
 from the Allahad channel. The
 improvements contemplated will
 increase the capacity of the tank
 from 1.662 millions of Cubic yards to
 2.207 millions, a difference of .545
 millions of Cubic Yards, and it is re-
 -ported that 77 acres additional will
 be irrigated. It seems probable that
 the object proposed will be attained
 will be secured by the arrangements
 designed. Greater attention should be
 paid to the notation of all levels.
 One datum should have been used
 throughout, and the level of every
 important point such as sills
 F.T.L, M.W.L., top of bund &c. referred
 to

to this datum. It is as easy to do
these things properly as in the
slovenly manner which too frequently
leads to mistakes of moment. The
shovel will require a platform from
which to work the plug.

Wm. L. Williams
Lieut. Col. &c.
offg. Chief Engineer

Colacamin
9th August 1875

To The Offg. Secretary to Government
SMD

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P. W. 1875 Dept.
No: 5324

From

The Offg. Chief
Engineers

Dated 9 Aug. 1875.
Recd. 18 - 1875.

L. 13. No. 896

Memo. on ltr. for
the repairs of certain
tanks in the North
Crest Dist.

S. G. 2257. 16.8.75.

N. 268

No. 2357

S. H. O.

Proceedings of the Madras Government
Under date the 16th August 1875

Read the following:-

From

The Offg. Chief Engineer (A. E. No. 896 of 9th Aug. 75)

The following
estimates are sanctioned
North Arcot District;

Capital - Revenue

1. Keelary Buddolaparam		
Tank	1080	540
2. Arainamangalam Chittary	-	315
3. Shennathoor Tank	580	720
4. Velloor do		5700

For the last mentioned
estimate separate ab-
stracts for the works
chargeable to Capital and
Revenue respectively
are

to are to be prepared and
submitted by the Dis-
trict Engineer, whose
attention is called to
the remarks there-
upon and to the obser-
vations on the other esti-
mates contained in
the foregoing Memorandum.

May 11/87

268/9

Q. Northcott

with M. A. C.

of the Gov.

under the P. M. A.

268/9

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5 sc & 19 Enclosures

SC dispd - 7-9-75

CP 5324

Govt. of Madras
PUBLIC WORKS.

To

Dr. Engr.
J. Ancoth.

Dated

Issued

Recd.

Encl.

G. O. 11 Augt No. 2357

No. 268-269

Santho North West St.

The Estimates amounting
to Rs 8935 for the repair
of Santho —, sanctioned
with remarks.