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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

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*Proceedings of the Madras Government, Public Works Department,
17th February 1876.*

Read the following :—

No. 72.

No. 311. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the 1st, 2nd and 3rd Ranges are forwarded by the
Superintending Engineer, Chingleput,
No. 3,061, dated 21st October 1875. with his letter marginally noted :—

Taluq.	Estimate No.	Work.	Amount.
	187		RS.
Chingleput ...	...	Valavathoor Pootary Tank.	1,350
Do. ...	...	Valavathoor Kadapary Tank	780
Trivellore ...	...	Ramanjary river channel	1,820
Sydapett ...	...	Meyoor Tank	735
Do. ...	...	Aminjeekaray Tangle	595

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.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
Valavathoor Pootary Tank ...	...	...	...	...	...	...	...	...
Valavathoor Kadapary Tank ...	...	...	...	...	...	...	...	...
Ramanjary River Channel ...	...	...	...	...	...	...	...	...
Meyoor Tank ...	...	...	...	...	...	...	...	...
Aminjeekaray Tangle ...	...	...	...	...	...	...	...	...

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.		
Valavathoor Pootary Tank ...	...	...	...	...	...	...	...	...	...
Valavathoor Kadapary Tank ...	...	...	...	...	...	...	...	...	...
Ramanjary River Channel ...	...	...	...	...	...	...	...	...	...
Meyoor Tank ...	...	...	...	...	...	...	...	...	...
Aminjeekaray Tangle...	...	...	...	...	...	...	...	...	...

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type. The existing dimensions in small type. The following abbreviations are used :—C. Calingulah with dam stones. W. Weir with flash crest. E. Escape at ground level. B. Bund of tank.

Proceedings of the Madras Government, Public Works Department,
17th February 1876.

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

Valavathoor Pootary Tank.—This tank was largely breached last year. The bund is to be repaired and raised, and a sluice is also to be placed in good order. A rough stone escape at the flank of the bund is to be extended 13 feet.

Valavathoor Kadapary Tank.—This tank was also breached last year. The sluice is to be repaired; the bank also is to be repaired and sectioned. An escape is to be constructed at the flank of the bund, and a supply sluice rebuilt. All the work may be treated as repairs, and will form a Revenue charge.

Ramanjary River Channel.—This channel is partly choked up. It is to be cleared and a head sluice built.

Meyoor Tank.—The bund which is breached is to be raised, repaired, and widened. A new outlet sluice and rough stone escape are to be constructed.

Aminjeekaray Tangle.—The bund is to be raised and turfed. A new sluice inserted and a rough stone escape provided.

4. When new escapes are provided it is necessary that the course which will be taken by the surplus after leaving the tank, the nature of the soil at and outside the proposed escape, and the inclination of the ground below the outfall should be ascertained, and it is desirable that the facts should be noticed in the Range Officer's or Overseer's report, or on the plan.

5. The plan of the Valavathoor Kadapary tank supply sluice is incomplete, since no flooring is shown in the longitudinal section throughout the tunnel. The manner in which the sluice shutter is to be inserted and supported is not clear.

6. The design for the Ramanjary river channel is defective, and the plan does not give sufficient information, neither is there a specification. The dimensions of the wells in the foundation should vary so as to avoid large interspaces. The spaces unsupported are too wide. The filling should be concrete made with hydraulic lime or soorkee mortar. The wings are of insufficient length to allow of a proper slope to the bank, baulks are shown in the elevation, closing the vent. A framed shutter and screw gearing are provided in the estimate. The platform is too low to ensure at all times the working of the planks. The aperture proposed is too large, seeing that only 192 acres have to be irrigated, and no statement is given of the discharge, or of the dimensions or slope of the supply channel. A general plan should have been furnished showing the bank of the river and a section of the bank with the levels of maximum flood, and it should have been noted whether the sluice was secure from danger of being turned. Aprons are required both in front and on the tail side of the sluices.

7. The estimate for clearing the channel of silt amounting to Rupees 340 may be sanctioned as a revenue charge, but the plan and estimate of the sluice should be returned for revision.

8. The wings of the pot sluices designed for the Meyoor and Aminjeekaray tanks require to be extended, in order to retain the banks from closing the waterway. The earthenware pipe should not abut on the shutter as shown, but should have a stop of brickwork or masonry.

FORT ST. GEORGE,
21st January 1876.

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

Proceedings of the Madras Government, Public Works Department,
17th February 1876.

No. 312. ORDER THEREON, 17th February 1876, No. 436.

IRRIGATION, No. 33.
Account.

THE following estimates for works in the Mount Range, forwarded by the Superintending Engineer, Chingleput, are sanctioned :—

Irrigation Register No. 5-I. of 1875-76.—Repairing the Valavathoor Poothary Tank,				
	revenue repairs	...	...	Rs. 1,350
"	"	" 14-I.	" Do. Valavathoor Kadapary Tank, do.	780
"	"	" 15-I.	" Do. Meyoor Tank, do.	500
"	"	" 16-I.	" Do. Aminjeekaray Tangle, do.	430

2. The designs for the Ramanjary river channel and the sluices to the Meyoor and Aminjeekaray Tangle will be returned for revision, with reference to the remarks of the Chief Engineer for Irrigation.

3. These sanctions have been registered as entered above.

(True Extract.)

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

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

Exd. E. C. Shunker.

Spare Copies

Sakunt George, Madras-21 January 1876.

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N. 72.

Note by the Chief Engineer for Irrigation.

No. 3061

Dated 21st Decr 1875.

Sudo. 13.

The following Estimates from the 1st, 2nd and 3rd Ranges are forwardedby the *Superintending* Engineer *Chingleput* with his letter marginally noted:—

Taluq.	Estimate No.	Work.	Amount. Rs.
<i>Chingleput</i>	187	<i>Valavathoor Pottery Tank</i>	1350
<i>Do.</i>		<i>Valavathoor Kadey Tank</i>	780
<i>Trivellore.</i>		<i>Ramanjany river channel</i>	1820
<i>Sydpet.</i>		<i>Meyoor Tank</i>	735
<i>Do.</i>		<i>Aminjekaray Tank</i>	595

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

A.—Financial Details.

Name of Work.	Ayacut Area.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	Expenditure during previous 4 years.	Amount of Estimate.		
						Capital.	Revenue.	Total.
	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Valavathoor Pottery Tank</i>	238	892	787	900	Nil	..	1350	1350
<i>Valavathoor Kadey Tank</i>	99	415	332	350	Nil	..	780	780
<i>Ramanjany river channel</i>	192	595	655	885	Nil	1480	340	1820
<i>Meyoor Tank</i>	32	108	125	136	known	235	500	735
<i>Aminjekaray Tank</i>	35	131	114	120	do.	165	430	595

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.		
						Ft.	Ft.		
Valavathoor Pookary Tank	2	893	not stated	54	54	4.5	2	717	not stated
Valavathoor Kadapary Tank	1.5	737	o.	nil	nil	3.5	1.5	0.0	1
Ramanyary river channel	"	"	"	"	"	"	"	"	"
Meyoor Tank	.75	464	o.	nil	nil	4	1	0.0	not stated
Aningurkaray Tank	.25	281	o.	nil	nil	"	"	0.0	"

NOTE.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. In the MS. the entries in red denote proposed dimensions. The following abbreviations are used:—C.—Calingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank.

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

Valavathoor Pookary Tank.—This tank was largely breached last year. The bund is to be repaired and raised, and a sluice is also to be placed in good order. A rough stone escape at the flank of the bund is to be extended 13 feet.

Valavathoor Kadapary Tank.—This tank was also breached last year. The sluice is to be repaired, the bank also is to be repaired and sectioned. An escape is to be constructed at the flank of the bund, and a supply sluice re-built.

All:

All the work may be treated as repairs and will form a Revenue charge.

Ramanyary river channel.—This channel is much partly choked up. It is to be cleared and a head sluice built.

Meyoor Tank.—The bund which is breached, is to be raised, repaired, and widened. A new outlet sluice and rough stone escape are to be constructed.

Aningurkaray Tank.—The bund is to be raised and turfed. A new sluice inserted and a rough stone escape provided.

When new escapes are provided it is necessary that the course which will be taken by the surplus after leaving the tank, the nature of the soil at and outside the proposed escape, and the inclination of the ground below the outfall should be ascertained, and it is desirable that the facts should be noticed in the Range officer's or, Revenue's report, or on the plan.

The plan of the Valavathoor Kadapary Tank supply sluice is incomplete since no flooring is shown in the longitudinal section between the wings and throughout the tunnel. The manner in which the sluice shutter

shutter is to be inserted and supported is not clear.

6. The design for the Ramanagar river channel is defective and the plan does not give sufficient information, neither is there a specification. The dimensions of the wells in the foundation should vary so as to avoid large interspaces. The spaces unsupported are too wide. The filling should be concrete inside with hydraulic lime or rooker mortar. The wings are of insufficient length to allow of a proper slope to the brick. Bricks are shown in the elevation closing the shutter. A ^{small} shutter and ^{small} gearing are provided in the estimate. The platform is too low to ensure at all times the working of the planks. The aperture proposed is too large seeing that only 192 acres have to be irrigated, and no statement is given of the discharge or of the dimensions or slope of the supply channel. A general plan should have been furnished showing the bank of the river, and a section of the bank with the levels of maximum flood, and it should have been noted whether the sluice was secure from danger of being turned. Aprons are required both in front and

and on the tail side of the sluices.

7. The estimate for clearing the channel of silt amounting to Rupees 340 may be sanctioned as a revenue charge, but the plan and estimate of the sluice should be returned for revision.

8. The wings of the pot sluices designed for the elleyoor and Annige Karay tanks require to be extended in order to retain the earth ^{from} the ^{water} way. The earthen ^{work} ^{or} masonry ^{work} should not abut on the shutter as shown, but should have a step of brick

work or masonry.

Subscribed

Major R.E.

for Chief Engineer for Irrigation

The Secretary to Government
P.M.D.

C.M.S.

W. 1896 Sept.

No: 1130

From

The Chief Engr.
for Irrigation

Dated 21st Jan 1896.
Recd. 14th Feb. 1896.

E. 32 Rs. 72.

Note on certain estimates forwarded by the Super Engr. Chinglput for the repair of certain tanks.

No 436

Proceedings of the head say Engr.
Under date 17th Feb 1896
Read the following

From

The Chief Engr.
for Irrigation

(H.E. No 72 of 21 Jan 1896)

The following estimates for works in the Mount Range, forwarded by the Superintending Engineer Chinglput, are sanctioned.

Repairing the Valawathoor	Revenue Repairs Rs 1350
Pothary tank	
—do— Valawathoor	—do— " 780
Kadapary tank	
—do— Meyoor tank	—do— " 500
—do— Arinjey Karay	
Tangle	—do— " 430

2 The designs for the Ramam-jary river channel and the sluices to the Meyoor and Arinjey Karay tangle will be returned

W. 1896 Sept.

No: 1130

From

The Chief Engr.
for Irrigation

Dated 21st Jan 1896.
Recd. 14th Feb. 1896.

E. 32 Rs. 72.

Note on certain estimates forwarded by the Super Engr. Chinglput for the repair of certain tanks.

N 311

G.O. No 436. 17.2.76

No 436

Proceedings of the head of the
Under state that 17th Feb 1896
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Kadapany tank	
—do— Meyoor tank	—do— " 500
—do— Arinjey Karay	
Tangle	—do— " 430

2 The designs for the Ramam-jary river channel and the sluices to the Meyoor and Arinjey Karay tangle will be returned

returned for revision, with
reference to the remarks
of the Chief Engineer for
Irrigation.

Ames
G.M.

This sanction has been
registered as ~~Legation~~
No 5-~~34~~ of 1875-76

J. E. Chapple
Collector do
Ch. for J. with 32 Original
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Govt. of 1876 Madras.
PUBLIC WORKS.

To
D. S. Chingleput
1872
West. bank
- Madras South 24/2/76

Dated

Issued

Recd

Emt.

G. O., 17 July 1876, No. 436

No. 311-3/2

Sanku. Chingleput Dist.
Estimates for the repair
of certain — Sanctioned
with remarks.