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(2) Date of repair _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. 1278 (2)	Press ~~Mis.~~
Dated 23-4-	1877.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
23rd April 1877. No. 1,378.*

Read the following:—

No. 191—W.

No. 522. *Note by the Chief Engineer for Irrigation.*

The following estimates from the No. 3 or Chingleput Range are forwarded by the Superintending Engineer, Chingleput, No. 3,231, dated 20th December 1876. with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
Conjeeveram	Olayur, S. No. 331	Nettary tank	Rs. 385
	Do. do.	Kavettary tank	630
	Do. do.	V. large do.	725
	Pitchavakum, S. No. 200	Virthacheranady and V. spring channel	595
Chingleput	Amoorthapullum, S. No. 232	V. tank	330
	Peria Vippedu S. No. 231	Peria Vippedu, Chinna Vippedu, and Kattakalanai Hissa tank.	1,335
Total			4,000

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

I.—Financial Details.

Name of Work.	Ayscut Area.	Assessment.	Average Revenue for five Years.	Highest Revenue for five Years.	OUTLAY.			
					During the previous four Years.	PROPOSED, ORDINARY AGRICULTURAL, IRRIGATION.		
						Original Works.	Repairs.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT.
Nettary tank	60	165	119	154	Nil.	...	385	64.7
Kavettary tank	99	282	186	212	...	95	365	49.4
Olayur large tank	240	660	599	634	...	...	622	20.7
Virthacheranady and Pitchavakum spring channel	224	1,238	1,210	1,465	998	...	595	26.3
Amoorthapullum tank	40	98	93	107	Nil.	170	160	70.9
Peria Vippedu, Chinna Vippedu, and Kattakalanai Hissa tank	244	572	409	450	...	460	875	65.2
Total	907	3,015	2,616	3,022	998	725	3,002	36.1

77 3015 2616 3022 998 725 3002 36.1

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.		
Nettary tank	0.5	354		E 60	60	1.5	0.0	305.4	Nil.
Kavettary tank	1.5	737		E 114	114	3.0	1.5	351.8	
Olayur large tank	4.0	1,417		E 50	50	2.75	0.25	547.7	1
				E 83.5	83.5	4.0	1.5	914.6	
				K 42	34	3.5	1.0	427.8	2
				W 42	172	4.5	2.0	1421.0	
				E 130					4
Virthacheranady and Pitchavakam spring channel.									
Amoorthapullum tank	0.8	484		E 12	12	3.4	1.4	94.0	5
Peria Vippedu, Chinna Vippedu, and Kattakkalanai Hissa tank.	2.0	893		E 102	102	4.0	2.0	484.6	
				W 10	10	3.75	1.25	132.8	
				W 10	102	5.0	2.5	1140.5	
				E 92					

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:—K.—Kalingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. V.—Village. S.—Revenue Survey Number.

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

Nettary Tank.—This tank is the first of a group of three tanks. The bund requires to be raised and repaired: the irrigation sluice is in a very ruined condition and quite beyond repair; it is therefore proposed to reconstruct it. The tank has two openings acting as escapes, one at the east end of the bund and the other at the west end; it is proposed to close the latter and to extend the former and to plant it with kuskus.

The estimate provides for raising and repairing the bund, extending the east escape, and planting kuskus and turfing, and for constructing an irrigation sluice.

Kavettary Tank.—The bund of this tank is very much eroded and otherwise damaged: it was breached in two places in October 1874. The bund needs raising and repairing, and will be protected by kuskus planting above the revetment, which is in good order.

The tank has an irrigation sluice, which is also in good order, but it has no regular surplusing work, and the existing means of escape are through a breach in the bund; it is therefore proposed to construct a dry-stone escape. This tank receives the surplus of the Nettary tank.

The estimate provides for raising and repairing the bund, planting kuskus and turfing, and for constructing a dry-stone escape. It will probably be a waste of money to plant kuskus above the revetment. The item for turfing has been struck out. It is of doubtful utility, and amounts to 1/4th of the average revenue.

Olayur Large Tank.—The bund of this tank is considerably eroded, and the revetment to a certain extent requires to be repacked up to F.T.L., beyond which point the bund will be protected by a belt of kuskus grass up to M.W.L.

The front slope of the tank bund will be turfed.

The tank is provided with two irrigation sluices; the head of one needs reconstruction and the other sluice requires trifling repairs. It is proposed to convert the existing kalingulah into a weir by removing the dam stones and raising the body wall to F.T.L., which is at present 1.5 feet below F.T.L.; in addition to this it is proposed to construct an escape 130 feet in length and to plant it with grass. The position of the escape will be at the east end of the bund.

The estimate provides for raising and repairing the bund, repacking the revetment, planting kuskus, repairing two irrigation sluices, converting the kalingulah into weir, and for forming an escape planted with grass. No kuskus should be planted above F.T.L., and the item for turfing has been struck out.

Virthacheranady River and Pitchavakam Spring Channel.—The bed of the channel was silted up by the Virthacheranady, or old course of the Palar, breaching into it. The villagers have cleared the channel of silt, but to prevent a recurrence of the damage it is necessary to close the breaches and to repair the river bank and to protect it with planted grass. The head sluice of the spring channel is an ancient structure and is very much dilapidated; it is therefore proposed to reconstruct it and to raise it above flood level.

The estimate provides for closing the breaches and repairing the river bank and for improving the head sluice of the channel.

Amoorthapullum Tank.—The bund of this tank is much eroded and the tank is not provided with an irrigation sluice which it is much in need of; it is also without a proper surplusing work, and the surplus has to be discharged through a breach in the bund at the south end. It is therefore proposed to form a grass-planted escape in addition to the existing breach; also to construct a masonry irrigation sluice and to raise and repair the bund.

The estimate provides for these repairs and additions.

Peria Vippedu, Chinna Vippedu, and Kattakkalanai Hissa Tank.—This tank was breached in 1874, and the breach was banked up as a work of emergency. The bund requires to be raised and repaired. The tank had three irrigation sluices, but one of them has been destroyed, it is therefore proposed to reconstruct this sluice and to repair the other two. Owing to the length of the existing weir being insufficient, it is proposed to construct a rough-stone escape.

The estimate provides for raising and repairing the bund, repairing two irrigation sluices and a weir, and for reconstructing an irrigation sluice and a rough-stone escape.

More than one plug-hole may with advantage be allowed in the rebuilt sluice. On the plan the whole area of irrigation of the tank is put down as under this sluice which is a mistake. Sketches have been supplied showing the connection of the tanks estimated for with each other, but what is required in addition is a summary of the Ayacut area and revenue of, and outlay on, each group.

The wings of the surplus escapes should be of the form shown on the plan of the Peria Vippedu tank. The length of the escape of this tank to discharge the surplus from the catchment area given as 2 square miles need not exceed 60 feet in addition

Proceedings of the Madras Government, Public Works Department,
23rd April 1877. No. 1,378.

to the weir, but as the ayacut is 244 acres, of which the greater portion appears to be cultivated, it is probable that a larger area drains into it.

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, ORDINARY AGRICULTURAL IRRIGATION.		Total for each Tank, &c.
		Original Works.	Repairs.	
		RS.	RS.	RS.
Nettary Tank ...	Raising and repairing the bund and extending escape ...	...	175	385
	Reconstructing an irrigation sluice ...	...	210	
Kavettary Tank ...	Raising and repairing the bund ...	...	365	460
	Constructing a dry-stone escape ...	95	...	
Olayur Large Tank.	Raising and repairing the bund and forming an escape planted with grass ...	...	360	622
	Converting kalingulah into weir ...	...	81	
	Repairing two irrigation sluices ...	...	181	
Virthacheranady and Pitchavakum spring channel.	Closing breaches and repairing the river bank ...	...	465	595
	Improving head sluice in channel ...	...	130	
Amoorthapullum Tank.	Raising and repairing the bund and forming an escape planted with grass ...	...	160	330
	Constructing an irrigation sluice ...	170	...	
Peria Vippedu, Chinna Vippedu, and Kattakkalanai His- sa Tank.	Raising and repairing bund, repairing two sluices and a weir ...	...	875	1,335
	Reconstructing an irrigation sluice ...	355	...	
	Constructing a rough-stone escape ...	105	...	

(Signed) G. T. WALCH,

Ag. Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

FORT ST. GEORGE,
14th April 1877.

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. 523.

ORDER THEREON, 23rd April 1877, No. 1,378.

IRRIGATION, No. 50.

Account.

No. 191—W, dated 14th April 1877.

THE following estimates for Irrigation Works in the No. 3 or Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned :—

Proceedings of the Madras Government, Public Works Department,
23rd April 1877. No. 1,378.

Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural, Irrigation.	Amount.	Irrigation Register No.
			RS.	
Nettary Tank ...	Repairing bund and extending escape ...	Repairs ...	175	1 } 24-I.
	Reconstructing sluice ...	Do. ...	210	
Kavettary Tank.	Repairing bund ...	Do. ...	365	1 } 25-I.
	Escape ...	Original Works.	95	
Olayur Large Tank.	Repairing bund and forming escape ...	Repairs ...	360	1 } 26-I.
	Converting kalingulah into weir.	Do. ...	81	
	Repairing two sluices ...	Do. ...	181	
Virthacheranady and Pitchavakum spring channel.	Repairing river bank ...	Do. ...	465	1 } 27-I.
	Improving head sluice ...	Do. ...	130	
Amoorthapullum Tank.	Repairing bund and forming escape ...	Do. ...	160	1 } 28-I.
	Irrigation sluice ...	Original Works.	170	
Peria Vippedu, Chinna Vippedu, and Kattakkalanai Tank.	Repairing bund, two sluices, and weir ...	Repairs ...	875	1 } 29-I.
	Irrigation sluice ...	Original Works.	355	
	Escape ...	Do. ...	105	

2. These sanctions are registered as shown above.

(True Extract.)

Lieut.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, Chingleput.

„ Collector of Chingleput.
„ Chief Engineer for Irrigation.
„ Examiner of Public Works Accounts.
„ Revenue Department.

Exd. T. D. Ryan.
Spare Copies

Total 707 3615 2610 8023 998 725 3002 3691

No. 191.W

Int. St. George - 14 April 1877.

Note by the Chief Engineer for Irrigation.

No. 3281

Dated 20 Dec 1876.

Enclosures 39.

The following Estimates from the S. 30 of Shingleput Range are forwarded by the Superintending Engineer Shingleput with his letter marginally noted:

Taluq.	Village.	Work.	Rs.	Amount.
Sejjeeram	Olager	S. 30-331 Nettary Tank	285	
do	do	do Kuvettary Tank	630	
do	do	do Large Tank	725	
do	Pitchavakum.	S. 30-200 Vithacharini & V. Spring channel	595	
Shingleput	Amoorthapullam.	S. 30-232 V. Tank	330	
do	Peria Veppadu.	S. 30-231 Peria Veppadu Shima Vippadu & Kattak Kalanai Kissa Tank	1035	
Total Rs.			4000	

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.	During the previous 4 years.	OUTLAY.		
						Provisional estimate.		
						Original estimate.	Revised estimate.	Average annual proportion of Charges to Revenue.
	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Nettary Tank	60	165	119	132	56	385	447	
Kuvettary Tank	99	202	100	232	2	95	368	49.4
Olager Large Tank	240	660	599	634	50	622	307	
Vithacharini & V. Spring channel	225	225	1212	1285	998	695	263	
Amoorthapullam Tank	40	98	95	207	1070	160	70.9	
Peria Veppadu Shima Vippadu & Kattak Kalanai Kissa Tank	244	572	409	650	1	460	875	65.2
Total	707	3015	2610	3022	998	725	3002	36.1

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 F. T. L.	Above M. T. L.		
	Sq. M.	C. ft.	C. ft.	Ft.	Ft.	Ft.	Ft.	C. ft.	No.
Kettary Tank	0.5	354	.	E. 63	60	1.5	0.0	35.4	Nil
Kavettary Tank	1.5	737	.	E. 50	50	3.75	1.25	54.7	1
Olavur large tank	1.4	1417	.	K. 42	34	3.5	1.0	52.8	2
Virthacherandi			.						
Pitchavakav Spring			.						
Amurthapullum tank	0.8	668	.	E. 12	12	3.4	1.4	74.4	4
Pirai Kuppudu			.						
Kattakkal	2.0	872	.	K. 10	10	3.75	1.25	52.8	5
mai Hiza tank			.						

Note.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. The following abbreviations are used:—K.—Kalingul with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. V.—Village. S.—Survey Number.

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

Kettary Tank

This tank is the first of a group of three tanks. The bund requires to be raised & repaired. The irrigation sluice is in a very ruined condition and quite beyond repair, it is therefore proposed to reconstruct it. The tank has two openings acting as escapes, one at the back end of the bund and the other at the front end. It is proposed to close the latter & to extend the former and to plant it with kushes.

The Estimate provides for raising and repairing the bund, extending the East Escape & planting kushes and turfing and for constructing an irrigation sluice.

Kavettary Tank

The bund of this tank is very much eroded & otherwise damaged, it was breached in two places in October 1874. The bund needs raising and repairing and will be protected by kushes planted above the settlement which is in good order.

The tank has an irrigation sluice which is also in good order but it has no regular surplus work and the existing means of escape are through a breach in the bund, it is therefore proposed to construct a dry stone escape. This tank receives the surplus of the Kettary Tank.

The Estimate provides for raising and repairing the bund, planting kushes & turfing and for constructing a dry stone escape. It will probably be a waste of money to plant kushes above

above the revetment. The item for
turfing has been struck out. It is
of doubtful utility and amounts
to $\frac{8}{9}$ of the average revenue.

Olaver Large Tank

The bund of this tank is considerably
eroded and the revetment to a certain
extent requires to be repacked up to
F. T. L. beyond which point the
bund will be protected by a belt of
Kushes grass up to N. W. L.

The front slope of the tank bund
will be turfed.

The tank is provided with two irri-
gation sluices, the head of one needs
reconstruction & the other sluice requires
trifling repairs. It is proposed to
convert the existing Kalingulak into
a weir, by removing the dam stones
and raising the body wall to F. T. L.
which is at present 1.5 below F. T. L.
in addition to this it is proposed
to construct an Escape 180 feet in
length and to plant it with grass

2
The position of the Escape will be
at the East end of the bund.
The Estimate provides for raising
and repairing the bund, repacking
the revetment, planting Kushes,
repairing two irrigation sluices, con-
verting the Kalingulak into weir
and for forming an Escape planted
with grass. No Kushes should
be planted above F. T. L. and the
item for turfing has been struck
out.

Virthacheranady river & Pithavakam Spring Channel

The bed of the channel was silted
up by the Virthacheranady or old
course of the Palari breaching into
it. The villagers have cleared the
channel of silt, but to prevent a
recurrence of the damage it is
necessary to close the breaches
and to repair the river bank and
to protect it with planted grass.
The head sluice of the spring channel

is an ancient structure and is very much dilapidated, it is therefore proposed to reconstruct it and raise it above flood level.

The Estimate provides for closing the breaches and repairing the river bank and for improving the head sluice of the channel.

Amoothapullum Tank

The bund of this tank is much eroded and the tank is not provided with an irrigation sluice which it is much in need of, it is also without a proper surplussing work and the surplus has to be discharged through a breach in the bund at the south end. It is therefore proposed to form a grass planted Escape in addition to the existing breach, also to construct a masonry irrigation sluice and raise and repair the bund.

The Estimate provides for

their repairs and additions.

Peria Veppeedu, Shina Veppeedu and Kattakkiadanai Shina Tank

This tank was breached in 1876 and the breach was banked up as a work of emergency. The bund requires to be raised and repaired. The tank had three irrigation sluices but one of them has been destroyed, it is therefore proposed to reconstruct this sluice and to repair the other two. Owing to the length of the existing weir being insufficient it is proposed to construct a rough stone Escape.

The Estimate provides for raising and repairing the bund, repairing two irrigation sluices & a weir and for reconstructing an irrigation sluice and a rough stone Escape.

More than one plug hole may with advantage be allowed in the rebuilt sluice. On the plan the whole area of irrigation of the tank is put down as under the sluice which is a mistake. Sketches

Amruthapallam Tahk-	Constructing an irrigation sluice	170	"	330
	Raising & repairing bund, repairing 2 sluices & a weir	"	"	875
Peria Vippedu Chinna Vippedu & Kattakkalam Nissa Tahk-	Reconstructing an irrigation sluice. - - - - -	355		1135
	Constructing a rough stone escape - - - - -	105	"	

Periwalah

*Ag. Dy. Chief Engineer for Irrigation
for Chief Engineer for Irrigation.*

The Secretary to Govt.

Irrigation Branch

Ch. E.

11/11/1908

E. I. Form No. 18.

P.W.D.

191-1027

NA-1027

From

The Chief Engineer for Irrigation,

To

The Secretary to Government,
Public Works Department.

Dated 14th April }
Despatched 19th April } 1877.
Received

ENCLOSURES 39

No. 191-W

Subject.

Tank Repairs - Chingleput District
note submitting for sanction, estimate
for Rs. 4000 for certain —

E. I. Form No. 18.

No. 10
P.W.D.
Pro. of the Madras Govt.
Under date the 23rd April 1877
Note by the Ch. Engr for S. H. E. No. 39 of 14th April 1877
The following Estimates for Irrigation

Works in the No. 3 of Chingleput Range,

Chingleput District, forwarded by
the Chief Engineer for Irrigation with his

Memorandum marginally noted are sanctioned.

No. 191-W of 14th April 1877.

Irrigation.

Name of Tank.	Provision of Estimate.	Fund. Agric. & Irrigation	Amount	Irrigation Register No.
Nettary Tank	Repairing bund	Repairs	175	24-I
	Extending escape			
	Reconstructing sluice ---	Repairs	210	2
Kavattary Tank	Repairing bund	Repairs	365	25-I
	Escape ---	Grig. works	95	
Olavayr large Tank	Repairing bund	Repairs	360	26-I
	forming escape			
	Converting kalingudi into weir ---	Repairs	81	3
	Repairing 2 sluices.	Repairs	189	
Virthachheranay & Pithachananku Spring chamber	Repairing river bank ---	Repairs	465	27-I
	Improving head			
	Sluice ---	— do —	150	2
Amoortha pullu Tank -	Repairing bund	Repairs	160	28-I
	forming escape			
2 Sluices	Irrigation sluice	Grig. Works	170	2
	Repairing			

G.O. 23rd April 1877 No. 522

Repairing	two sluices and Repairs	875	} 294
Peria Vippedu Weir			
Thimma Vippedu	Irrigation sluice orig. works	355	
Kattakkalund	Escape	105	
Sank.			

2. These sanctions are registered as shown above.

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Govt. of 1877, Madras

PUBLIC WORKS.

To *the S. B. Chingleput*

Dated

Issued

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Encl.

G. O. *15 April* 1877, No. *1378*

Nos. *522.523.*

Lanks. Chingleput Or
The estimates for repairs
to certain — Sarsu

Govt. of Madras

in 4.1.77 Recd. 1/7

Re. Dept. Res. 12-0-77