

100-10-9-18.
(1) Number of _____
(2) Date of repair _____
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	626	(9)	Press
B.P. No.			Mis.
Dated	9.3		1876

Not to be folded or roughly handled

19

*Proceedings of the Madras Government, Public Works Department,
9th March 1876.*

Read the following :—

No. 142.

No. 128. *Note by the Chief Engineer for Irrigation.*

The following estimates from the Serooloor Range are forwarded by the Superintending Engineer, Chingleput, with his letter marginally noted :—

No. 4,115, dated 12th January 1876.

Taluk.	Estimate No.	Work.	Amount.
Poonary	187	Chevootoopanapakam Tank ...	RS. 780
Do.	...	Aranee Nadoocooppum Tank ...	930
Do.	...	Vayalore Ooranumbadoo Tank ...	3,400
Do.	...	Tharooly Tank	250

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.
Chevootoopanapakam Tank ...	ACRES. 71	RS. 218	RS. 224	RS. 235	RS. 541	RS. 80	RS. 700	RS. 780
Aranee Nadoocooppum Tank ...	54	150	130	190	1,932	80	850	930
Vayalore Ooranumbadoo Tank ...	1,412	3,771	1,165	1,400	2,623	...	2,400	3,400
Tharooly Tank	53	112	115	120	41	...	250	250

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 Section.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Chevootoopanapakam Tank ...	SQ. M. 1	C. FT. 563	C. FT. ...	FT. Not stated.	FT. Not stated.	FT. 3	FT. 1	C. FT. 0 0	No. ...
Aranee Nadoocooppum Tank ...	75	461	...	E 59	59	4 5	2 5	280 3	...
Vayalore Ooranumbadoo Tank...	2 5	1,036	...	E 57	57	4 25	2 5	221 6	...
Tharooly Tank	3 5	1,296	...	E 133	133	4 25	2 50	517 2	...
				E 116	116	4	2	551 2	...

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. L.—Escape at ground level. B.—Band of tank.

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

Chevootoopanapakam Tank.—This tank was breached in four places by the overflow of the Naranaveram river caused by a cyclone. The estimate provides for filling up

*Proceedings of the Madras Government, Public Works Department,
9th March 1876.*

the breaches, raising, sectioning, and turfing the bund, restoring the flood banks, and constructing a new third-class sluice.

Aranee Nadoocooppum Tank.—This tank was breached by a cyclone, and the inner slopes are reported to be much eroded. The estimate provides for filling up the breach, raising, sectioning, and turfing the bund, planting nanul grass, and constructing a new weir and a third-class sluice.

Vayalore Ooranumbadoo Tank.—This tank was breached in two places by a cyclone. The estimate provides for forming a permanent escape, sectioning the bund, turfing, and planting grass.

Tharooly Tank.—The estimate submitted for this tank provides for filling a breach, raising, sectioning, and turfing bund, and planting nanul grass.

4. The Chevootoopanapakum tank report for which a form has been provided by the Superintending Engineer has been very imperfectly rendered. Particulars for which space has been provided have not been properly filled up. It is necessary that in all such cases the estimates should be returned to the Range Officer for the supply of information so plainly called for in the first instance.

This tank is apparently an unprofitable one, as when the repairs now estimated for have been carried out five and a half years' average revenue will have been expended within a period of five years. Its proximity to a river liable to overflow its banks has no doubt been the cause of this excessive outlay.

The plan of the third-class sluice for the tank should be modified in accordance with the remarks made in the Note of the undersigned, No. 223, dated 21st February 1876, on the estimate forwarded with the Superintending Engineer's letter, No. 3,716, dated 2nd December 1875.

5. The Aranee Nadoocooppum tank sluice plan is subject to the alteration alluded in the Note referred to in paragraph 4, and the estimate should be revised accordingly. The length of escape provided should be 70 feet.

6. The Vayalore Ooranumbadoo tank is to be provided with an escape 133 feet long, but that length is insufficient, as it is to be planted with grass, and it should be increased to 250 feet.

The irrigation area is stated in the report to be 89 acres, in the heading to the abstract estimate the ayacut is returned at 1,412 acres. This discrepancy should be explained, and if the larger area is correct the abnormally large supply from the catchment area ought to be accounted for.

7. The financial particulars given at the head of this Note respecting the Aranee and Vayalore tanks show a rate of expenditure during the past few years which should have been the subject of notice by the Range Officer. In particular it should have been explained why the considerable outlay on the latter in 1873-74 and 1874-75 failed to secure the work from subsequent injury the following year. Sanction to the estimate cannot be recommended till the additional information required has been furnished.

FORT ST. GEORGE,
2nd February 1876.

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

To the Secretary to Government, Public Works Department.

*Proceedings of the Madras Government, Public Works Department,
9th March 1876.*

No. 129.

ORDER THEREON, 9th March 1876, No. 626.

IRRIGATION, No. 12.
Account.

The following estimates forwarded by the Superintending Engineer, Chingleput, are sanctioned :—

Irrigation.

	RS.
Register No. 40 I. of 1875-76.—Repairing the Chevootoopanapakam Tank. Revenue (Repairs)	700
Do. " 41 I. of " Do. the Aranee Nadoocooppum Tank. Do. do.	850
Do. " 42 I. of " Do. the Tharooly Tank. Do. do.	250

2. An early report should be furnished regarding the Vayalore tanks, and the designs for the sluices of Chevootoopanapakam and the Aranee Nadoocooppum tanks should be revised in accordance with the remarks of the Chief Engineer for Irrigation.

3. These sanctions are registered as shown above.

(True Extract.)

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

S. J. 23
To the District Engineer, Chingleput.
" Collector of
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.

Exd. S. T. Austin.
Spare Copies

Fort St George 2nd Feby 1876.

No. 142

Note by the Chief Engineer for Irrigation.

No. 4115

Dated 12th Jan 1876.

21 Suelo.

The following Estimates from the *Serooloo* Range are forwarded by the *Superintending Engineer Ching Lepu* with his letter marginally noted:—

Taluq.	Estimate No.	Work.	Amount. Rs.
	187		
Poomary	—	Chervootoopanapakam Tank	480
— do —	—	Aranas badoo coop-punn Tank	930
— do —	—	Vayalore Boranum-badoo Tank	3400
— do —	—	Tharooly Tank	250

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.
	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Chervootoopanapakam Tank	71	248	224	255	521	80	700	780
Aranas badoo coop-punn Tank	52	180	180	190	1032	80	250	930
Vayalore Boranum-badoo Tank	1442	377	115	1400	2628		3400	3400
Tharooly Tank	5	112	115	120	44		250	250

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.
Chebootoosana-pattam Tank	1	562	nil	nil	nil	3	1	0.0	nil
Naranadoodoosoppam Tank	7.5	464	"	E 12	12	2.5	7.5	62.2	"
Nayalora Oorannumbados Tank	2.5	1036	"	nil	nil	2.5	2.5	0.0	"
Tharooly Tank	3.5	1296	"	nil	nil	3	1	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.

Chevootoapanapattam Tank. This tank was breached in four places by the overflow of the Naranadoodoos river caused by a cyclone. The estimate provides for filling up the breaches, raising sectioning and turfing the bund, restoring the flood banks and constructing a new 3^d class sluice.

Naranadoodoosoppam Tank. This

This tank was breached by a cyclone, and the inner slopes are reported to be much eroded. The estimate provides for filling up the breach, raising sectioning and turfing the bund, planting narrow grass, and constructing a new weir and a 3^d class sluice.

Nayalora Oorannumbados Tank. This tank was breached in two places by a cyclone. The estimate provides for forming a permanent escape, sectioning the bund, turfing, and planting grass.

Tharooly Tank. The estimate submitted for this tank provides for filling a breach, raising sectioning and turfing bund, and planting narrow grass.

4. The Chevootoapanapattam tank report for which a form has been provided by the Superintending Engineer has been very imperfectly rendered. Particulars for which space has been provided

vided have not been properly filled up. It is necessary that in all such cases the estimates should be returned to the Range Officer for the supply of information so plainly called for in the first instance.

This tank is apparently an unprofitable one as when the repairs now estimated for have been carried out five and a half years average revenue will have been expended within a period of five years. Its proximity to a river liable to overflow its banks has no doubt been the cause of this excessive outlay.

The plan of the 3^d class sluice for the tank should be modified in accordance with the remarks made in the note of the undersigned, No 223, dated 21st

21st February 1876 on the estimate, forwarded with the Superintending Engineer's letter, No 3716, dated 2nd December 1875.

5. The Arance Kadocoop-pum Tank sluice plan is subject to the alteration alluded to in the note referred to in para 4 and the estimate should be revised accordingly.

The length of escape provided should be 70 feet.

6. The Vayalore Boram-baddo Tank is to be provided with an escape 133 feet long, but that length is insufficient as it is to be planted with grass and it should be increased to 200 feet.

The irrigation area is stated in the report to be 89 acres in the heading to the Abstract Estimate. The ayacut is returned at 1442 acres. This discrepancy should be explained and if the larger area is correct the

the abnormally large supply from the catchment area ought to be accounted for. The financial particulars given at the head of this note respecting the Straneri Nayalare tanks show a rate of expenditure during the past few years which should have been the subject of notice by the charge officer. In particular it should have been explained why the considerable outlay on the latter in 1873-74 & 1874-75 failed to secure the work from subsequent injury the following year. Sanction to the estimate cannot be recommended till the additional information required has been furnished.

Indulgent

Major R. H.
Asst. Chief Eng. for Irrigation
for Chief Engineer for
Irrigation -
The Secretary to Government
P.W.D. Dept.

C.H.B.

FORMER CASES.

Current No.

of 187 .

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M. WORKS FORM No. 3.

Current No. 1619.

From

The Chief Eng. for Irrigation

No. 142

Dated 2

Recd. 4

Feb
March

1876.

Subject:-

Note on Estimates for Irrig. Works in the Terooloor Range, Chingleput Dist.

LATER CASES.

Current No.

of 187 .

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ENCLOSURES. 2/.

From

to

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Orders and Proceedings in file.

Department.	No.	Date.	ENDORSEMENTS.		
			Department.	No.	Dated.

6-3-76.

N^o 626 P. W. Dept.
Proceedings of the Madras Govt.
Under date the 9th March 1876
Read the following

From
The Chief Engineer
for Irrigation } (H.E. No 142 d/2nd Feb. 1876)

The following
estimates forwarded
by the Superintending Engineer,
Chingleput, are sanc-
tioned:-

- Register No 405 of 1875 ^{Tringitow} Repairing the Chevootor.
Panapakam tank
Revenue Repairs, Rs. 700
- 50 No 41-1 of 1875/6 Repairing the Aranes
Nadoocoppun tank
Revenue Repairs, Rs. 850
- 50 No 42-2 of 1875/6 Repairing the Tharooly
tank, Revenue Repairs, Rs. 250.

2 An early report
should be furnished
regarding the Aranes
and Vayalore tanks
and the designs
for the sluices of

Chevoostopanapakam
and the Araner Adoo-
coappum tanks should
be revised in accordance
with the remarks of
the Chief Engineer
for Irrigation.

3. These sanction
are ~~has~~ been registered
as ~~is~~ ~~I of 1875-76~~
shown above.

Aug 1

28-2-76

C.M.M.

17

128-129

D. E. Chingliah
Collector & do—
C. E. for J. with 21 Orig. Endos.
Est. P. W. do.
Rev. - Dept

15-
Wspd - 21-3-76 17

Comp. E. M. Ar 6-3-26

Chooatoo panapakam
and the crane radio
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1519
Sect. of 18701 Indus.
PUBLIC WORKS.

To
The St. Engineer
Chengleph

Dated

Issued

Recd.

Encl.

G. O., 9 March 73, No. 126

Nos. 128 129

Repair to ^{Certain} Sanks in the
Two-Low Range, Chingphut
Unit — The Estimates for
— cancelled.