

Government of Madras.

PUBLIC WORKS DEPARTMENT.

—
IRRIGATION.
ACCOUNT.

G.O. No. 6 I., 9th January 1917

N

Improvements to the Kambala kanmoy, Periyar system

Sanctioning an estimate amounting to Rs. 8,037 for —

Government of Madras.

PUBLIC WORKS DEPARTMENT.

—
IRRIGATION.
ACCOUNT.

G.O. No. 6 I., 9th January 1917

Improvements to the Kambala kaumoy, Periyar system

Sanctioning an estimate amounting to Rs. 3,087 for —

GOVERNMENT OF MADRAS
PUBLIC WORKS DEPARTMENT

**Irrigation.
Account.**

READ—the following papers:—

I

Letter—from C. T. MULLINGS, Esq., Superintending Engineer, VI Circle.
To—the Chief Engineer for Irrigation.
Dated—Trichinopoly, the 2nd November 1916.
No.—2529-C.E.

I have the honour to forward herewith an estimate and plans amounting to Rs. 2,120 for improvements to the Kambala kannoy, Melur taluk, Madura district, for favour of your approval and sanction.

This is one of the Periyar-affected tanks ordered to be maintained as per G.O. No. 1250 I., dated 15th December 1905. The necessity for its improvements is clearly explained in the report accompanying the estimate.

ENCLOSURES

(1)

*Report to accompany the estimate for repairs and improvements to No. 58,
Kambala kannoy in the Uppar Odai Minor basin, Madura district.*

	rs.
Amount of estimate	2,120

Situation and source of supply.—This tank is situated about four furlongs east of No. 81 Kottagudi village in the Melur taluk. It receives the drainage from its free basin of one square mile besides the surplus of three upper tanks, and surpluses into No. 62 Madayangudy and Sadakkulam tanks at the left flank.

2. *Surplus arrangements.*—The tank surpluses through open cuts in the bund and has no regular surplus works. This state of affairs has caused frequent disputes between the ryots of this and the lower tanks which it supplies, and the tank is not safe against breaching. It is therefore proposed to construct a combined calingala and weir, with a vent of 4' × 1½' in the former for passing the sixth B distributary channel, its sill being 2 feet below F.T.L., for supplying the lower tanks.

3. *Bund.*—The bund throughout except at the weir will be 3 ft. above M.W.L. with top width 6 ft. The slopes will be 1½ to 1 in front and 1½ to 1 in rear. The soil at L.F. is gravelly but on the whole the earth available for the bund is of a poor quality being saline and sandy. The top of the bund and 3 ft. either slope will be gravelled to a thickness of 6 inches, and the slopes turfed. A separate estimate for repairs to the bund is attached. (Since sanctioned and returned to the Executive Engineer).

4. *Revetment.*—The slopes of the bund will be planted with creepers and other plants as protection against erosion.

5. *Sluice.*—Irrigation is carried on at present by a masonry sluice and two palmyra spouts. The front head of the former is very dilapidated. It will be reconstructed. The palmyra spouts will be replaced by masonry pipe sluices as per designs accompanying.

6. *Full tank level.*—F.T.L. has been fixed with reference to the water marks and from local enquiries of the ryots. There is some mamool submergence of foreshore lands. A statement of the lands submerged accompanies*. The Collector has certified that the submergence is mamool (vide copy of his D. Dis. No. 265C/Rev., dated 6th December 1914).

* Not printed.

7. *General remarks.*—The present ayacut of the tank is 139 acres yielding a revenue of Rs. 764-10-0. This may ultimately be increased to 158-70 acres by selling 9 acres of waste and 10 acres of abandoned tank-bed land all of which could be supplied from this tank.

II

Memorandum No. 8455/16 B.-1, dated 29th November 1916.

With reference to his letter No. 2529—C.E., dated 2nd November 1916, the Superintending Engineer, VI Circle, is requested to state clearly the reasons for the combined calingula and weir proposed at the left flank of Kambala kanmoy and also to report how it is proposed to work it.

(By Order)

F. E. MORGAN,
Asst. Chief Engineer for Irrigation.

To the Superintending Engineer, VI Circle.

III

Letter—from C. T. MULLINGS, Esq., Superintending Engineer, VI Circle.

To—the Chief Engineer for Irrigation.

Dated—Trichinopoly, the 16th December 1916.

No.—2762-C.E.

With reference to your memorandum No. 8455/16-B-1, dated 29th November 1916, I have the honour to inform you that a combined weir and calingula has been proposed at the left flank of Kambala kanmoy so that the calingula portion may pass more quantity to the tanks lower down during the monsoon season. The surplus work cannot be designed as a calingula, considering the trouble of putting a turf bund for its full length.

2. When the monsoon is over and when it is desired to retain water in the Kambala kanmoy up to F.T.L. the calingula portion will be banded up with turf bund.

The ventway in the calingula may also be closed by the end of September as Madayangudy kanmoy, for whose supply this vent is provided in the calingula portion, is dependent on the supply from Kambala kanmoy only in the beginning of the irrigation season for about two months, as it afterwards receives the surplus of its upper tanks.

IV

Note by the Chief Engineer for Irrigation, No. 8455/16 B-2, dated 3rd January 1917.

Submitted to Government.

2. Owing to minor alterations carried out in this office the estimate has been increased from Rs. 2,120 to Rs. 2,500.

W. M. ELLIS, Col., R.E.,
Chief Engineer for Irrigation.

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

Order—No. 6 I., dated 9th January 1917.

The following estimate is sanctioned :—

		Imperial.	
		Irrigation.	
	49. Capital expenditure not charged to Revenue		
	Open Capital Account.		
	Periyar System.		
	Madura Division.		
	I. Works.		
	3. Distributaries.		
	C. Works.		
	Remunerative work.		
	Improvements to the Kambala kanmoy.		
Estimate—			RS.
I. Works	2,500
II. Establishment	537

	Total	...	3,037

2. The sanction accorded above is registered as No. 99-I, of 1916-17 and will expire on the 31st March 1918.

(True Extract)

*Under Secretary to Government, P.W.D.,
Irrigation Branch.*

To the Superintending Engineer, VI Circle, with plans and estimate.
.. Accountant-General, Madras.

PUBLIC WORKS DEPARTMENT
(IRRIGATION BRANCH)

NOTES CONNECTED WITH G.O. No. 6 I., DATED
9TH JANUARY 1917

[SUBJECT.—*Improvements to the Kambala kanmoy, Periyar system.*]

*From the Superintending Engineer, VI Circle, dated 2nd November 1916,
No. 2529-C.E.*

Submitted for orders if the estimate which is chargeable to the Open Capital Account of the Periyar system may be checked for sanction. It is stated that by the improvements proposed, nine acres of waste and ten acres of abandoned tank-bed lands will be reclaimed and sold, but the amount that can be realised has not been stated.

M.S.V.—6-11-16.

M.S.V.—8-11-16.

F. E. MORGAN—8-11-16.

W. M. ELLIS—9-11-16.

There are two surplus courses below and apparently one is fed from weir and one from calingulah and these feed two tanks.

F.E.M.

Item No. 3 (constructing combined weir and calingulah) No reasons have been assigned as to the necessity for providing a combined weir and calingulah.

N.L.R.—21-11-16.

T.R.N.—21-11-16.

F.E.M.—23-11-16.

The reasons for the combined calingulah and weir proposed should be clearly stated, also how it is proposed to work them. A reference must be made to Superintending Engineer.

W.M.E.—25-11-16.

Draft memorandum to Superintending Engineer, VI Circle, is submitted for approval.

N.L.R.—27-11-16.

T.R.N.—27-11-16.

F.E.M.—27-11-16.

To the Superintending Engineer, VI Circle, No. 8455, dated 29th November 1916.

*From the Superintending Engineer, VI Circle, dated 16th December 1916,
No. 2762-C.E.*

If the reasons now given by the Superintending Engineer are accepted a draft order sanctioning the estimate will be put up.

M.S.V.—20-12-16.

M.S.V.—20-12-16.

With reference to Chief Engineer for Irrigation's note, dated 25th November 1916, the Superintending Engineer states that the calingulah portion is intended to pass more supply to the tank slower down during the monsoon season and that the

trouble of putting up a turf-bund along the whole length of the surplus work has been averted by proposing a calingulah for only half its length. It is not clear if of it. There is the same trouble but not so much of it.

F.E.M.

Superintending Engineer's intention seems primarily to be, to pass more monsoon supply to the lower tanks, it is for consideration if the whole work may, with advantage, be converted into a calingulah. The height of turf-bunding necessary would only be 6 inches for holding up water to level of F.T.L.

Regarding the vent in the calingulah and its working it is stated that this would be closed by the end of September, as soon as the early supply is received by the Madayangudi kanmoy for whose supply this vent has been provided. This appears contradictory to the information furnished on plan No. S.E. VI 33 of 1916, where the vent has been stated to supply the four tanks—Madayangudi, Sadayankulam, Sivaredu tangal and Panangudy kanmoy, having a total area of 496.61 acres. Excepting Sivaredu tangal the other tanks find place in the list of Periyar affected tanks, and as such they all have claim on the 6th distributary. The Superintending Engineer's original entry seems therefore correct. But this will not however affect the main design of the work (whether a combined calingulah and weir or a full calingulah) and the Superintending Engineer's attention may be drawn to the contradictory statements when returning the estimate after sanction.

T.R.N.—21-12-16.

I cannot quite follow the Superintending Engineer. I think he means that water has to be drawn off below the F.T.L. of the Kambala kanmoy and that the length of calingulah provided gives the requisite draw off. This being so the design might be accepted, unless it is considered that economy should be effected by making the whole length a calingulah.

F. E. MORGAN—22-12-16.

The proposals of the Superintending Engineer may be accepted.

W. M. ELLIS—3-1-17.

*Notes by the Chief Engineer for Irrigation, dated 3rd January 1917,
No. 8455/16-B-2.*

A draft order sanctioning the estimate is put up for approval and issue.

M.S.—8-1-17.

A.V.S.—8-1-17.

F.E.M.—9-1-17.

W.M.E.—9-1-17.

[G.O. No. 6 I., dated 9th January 1917.]

380

will be replaced by masonry pipe sluices as per designs accompanying.

Full Tank Level. 6. P. T. L. has been fixed with reference to the water marks and from local enquiries of the ryots. There is some narrow submergence of fore-shore lands. A statement of the lands submerged accompanies. The Collector has certified that the submergence is narrow (wide copy of his D.Dis.No.3657/Rev. of 1914 dated 6-11-14).

fl B

General Remarks. 7. The present area of the tank is 139 acres yielding a Revenue of Rs.764-10-0. This may ultimately be increased to 156.70 acres by selling 9 acres of waste and 10 acres of abandoned tank beds land all of which could be supplied from this tank.

land will be sold in auction

Standard to be maintained.

F.T.L.	-	-	-	357.42 ft.	Top width	-	-	-	6 ft.
M.W.L.	-	-	-	388.92 "	Side slopes	-	-	-	1 1/2:1 "
Top of bund	-	-	-	391.92 "	Height of revetment above P.T.L.	Nil.			

Bench Marks.

B.M. on boundary stone in Left Bank rear of N.V. surplus site	388.23	ft.
II.B.M. Top of front head wall of masonry sluice	389.48	"
III.B.M. Top of front head wall of superpassage of VI-C Disty.	393.67	"

Maxm. Discharge to be provided for.

Co-efficient C	500	a	100
Area of Free Basin, sq. miles	1.00		
No. of Tanks above	3		
Combined Catchment Area, sq. miles	4.27		
Maxm. Discharge from do. Cft.	1217		
Do. do. from channel - Under Regulation.			
Total Discharge to be provided for	1217		

Surplus Arrangements.

Effective length of Masonry Escapes	175	ft.
Proposed additional length do. ft.	175	ft.
Discharge over total length, Cft.	1217	
Total Maxm. Discharge provided	1217	

Details of Storage

Area of Waterspread at P.T.L.		
Mills sq. ft.	3.03	
Capacity of Tank at P.T.L.		
Mills cub. ft.	8.03	
Total Annual Storage, Mills)		
cub. ft.		
Capacity of Tanks above		
Mills cub. ft.)		

Details of Irrigation.

Area, Acres	139.00
Proposed ultimate Area, Acres	156.70

8

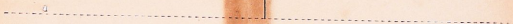
4

480

Levels of Sluices.

Sill of Sluice No.1 from the left flank	384.50 Ft.
Do. No.3 do.	383.92 "

Sill of Sluice No.2 from the left flank	379.46 Ft.
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M. W. W. W.
10.3.15

Executive Engineer,
Madaya Division.

~~8.3.15~~
8.3.15

9

5 500
Copy of letter D.Dis.No.3657/Rev. of 1914 dated 6-10-14
from A. R. Knapp Esquire, I.C.S. Collector of Madura to the
Executive Engineer, Madura Division.

With reference to your No.828-R.M. of 1914 dated
9-10-1914, I have the honour to return herewith the memo of
submergence statement duly countersigned by the Division
Officer, Melur.

M. Jones
10.3.15

Executive Engineer,
Madura Division.


8.3.15

Statement of Patta lands submerged at F. T. L.
 of Kambala Key: - of Kottagudi village, Melur Taluq.

name of village	Survey No.		Area			Depth of water over field at F.T.L	Nature of Cultivation whether single or Double Crop	Remarks Names of holders of the fields
	no.	letter	Wet	Dry				
			Ac. Cent	Ac	Cent			
Kokagon village, Melur Taluq	331	-	-	-	47	0.50x0.67		Jank Parambake
	332	-	2 54	-	-	1.06 .97 + 1.07		Thagappan
	333	A	62	-	-	1.10 .87 + 0.70		- Do -
		B	60	-	-	.50x1.00		Suppan, Palani
	334	A	36	-	-	.80x1.00		Periyakaruppan - ambalau, Suppan
		B	36	-	-	.75x1.00		P. Karuppanan
	335	A	61	-	-	.46x.87		- Do -
		B	20	-	-	.48x.87		Periyakaruppan - ambalau
		C	42	-	-	.40x.67		Thappan Ambalau
		D	93	-	-	.42x1.47		Do - Periyakaruppan
	336	-	1 62	-	-	1.50, 1.02 + 1.80		- Do -
	337	-	43	-	-	.94, 1.02 + 1.13		- Do -
	349	-	1 85	-	-	.18 .25 + .52		Rathirettambadi - chetti.
	350	-	1 13	-	-	1.03x1.30		Periya Karuppanan
	351	A	23	-	-	.60x1.17		Palaniyappa chetti
	A-2	22	-	-	.72x1.17		Sunderam chetti	
	B	53	-	-	.40 .77		Palaniyappa chetti	
	C ₁	23	-	-	.17 .57x .71		Do.	
	C-2	26	-	-	.17 .47 + .71		P. Palaniyappa - chetti	

Single Crop Wet

11

		3. 24.				
352	A.	.	10		.794.87	Priyakanip ² ana
	B.	.	26		.414.42	Do.
329	B.	2	12		.60.58	Do.
					4.02.53	

Countersigned

(Sd) J. Stodard

21. X. 14

Per. Div. M. P. S.

Bellevue

M. W. Jones
Executive Engineer

Diabira 20²

9.3.15

9.3.15

Memo. 7P

8455/16-10/1 27/29.11.16

With reference to his
Letter N° 2529 D dated
2 Nov 1916, the Supty Engr
N Circle is requested to
state clearly the reasons
for the combined Calcutta
and weir proposed at
the left flank of Kambala
Kanning and also to report
as to how it is proposed
to work them.

TRB
27.11.16.

27/11/16

DESPATCHER
Date 24-11-16
Encls. —

To
The Supty Engr
N Circle ✓
W.B.
27/11/16

27/11/16 by [initials]

27/11/16 [initials]

12

101-7 et
101-9-10

From the S. P. VI circle no. 2529 of 2.11.16
To do do no. 8455/16 of 29.11.16
From do do no. 2762 of 16.12.16

Note by the Chief Engineer
for Irrigation.

NR 8455/16 B-2 & 3-1-17

Submitted to Government.

2. Owing to minor alterations

carried out in this office the estimate
has been increased from Rs. 2,120 to
2,500.

subject to approval

100
2.11.16

10/20
14
3/17

To,
The Secretary to the Government
P.W.D. Irrigation.

NR
2/11/16

14

2. The sanction accorded
above is registered as No. 99 S
of 1916-17 and will expire on
the 31st March 1918.

Indy ^W
8/17 8/11/17

W 9/17
2/17
P/17

To
The S.S. V. file with
plan book
A.P. Masas

DISPATCHED
Date 11-1-17
of copies 1 each

Stamp + 1 plan

Signed K. Masas
Copies dispatched

H
7-2-17