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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.
B.P. No.

3179

Press.
Mis.

Dated

7.6.1877

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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

28th May 1877, No. 43 I.

Irrigation.

Account.

Read the following paper :—

No. 21.

No. 83. *Note by the Chief Engineer for Irrigation.*

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

Taluq.	Village.	Work.	Amount.
Sydlapet ...	Palaventangle ...	S. No. 189 V. tank...	RS. 359
Do. ...	Ayappakkam ...	Do. 92 do. ...	1,740
Total ...			2,099

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

1.—Financial Details.

Name of Work.	Ayacut Area.	Assessment.	Average Revenue for 5 Years.	Highest Revenue for 5 Years.	OUTLAY.			
					During the previous 4 Years.	PROPOSED ORDINARY AGRICULTURAL IRRIGATION.		
						Original Works.	Repairs.	Average Annual proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	Per cent. RS.
Palaventangle tank ...	33	117	115	118	Not known.	...	359	62.4
Ayappakkam tank ...	108	360	421	464	63	230	805	51.1
Total ...	141	477	544	582	63	230	1,164	53.5

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 second.	Tanks above.
		Catchment per second.	Channels per second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Palaventangle tank	SQ. MS. 0.25	C. FT. 123	C. FT.	FT. NIL	FT. NIL	FT. 3.0	FT. 1.5	C. FT. 0.0	NO. Nil.
Ayappakkam tank	2.5	1,036		W 48 W 92	140	4.5	2.5	665.2	1

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:—O.—Calingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. V.—Village. S.—Revenue Survey. W.—Weir with over fall.

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

Palaventangle Tank is the upper one of a group of four tanks which affect the South Indian Railway; it has no masonry surplusage work, but discharges down the railway side channel, the average width of which is 9 feet; depth 1 foot, with an inclination of 17 feet per mile. It is proposed to increase the width of the channel to 22.40 feet.

A portion of the tank at the south-east end was cut off in the formation of the South India line of railway, and the bund was cut through by the line of pits forming a channel west of the railway. Through this cut, the water of the tank escapes and injures cultivation. Owing to the longitudinal section of another tank, the Paruthipattu, having by mistake been attached to the estimate, the circumstances are not quite as clear as they otherwise would have been. However there appears to be no objection to the discharge of the tank surplus through a 6 feet culvert under the railway, and to make this available the line of pits south of the tank bund requires to be deepened to F.T.L. and somewhat widened. The closing of the bund across the pits and the deepening of the pits to form a surplus channel to the culvert should be done by or at the cost of the railway.

The tank is situated between the southern trunk road and the railway line, the former is to the west, and the latter to the east of the tank; and in order to avoid raising that portion of the road which lies between the two tunnels in the 10th mile, it is proposed to remove a small portion of the bund which abuts against the road, and to extend the bund in a new alignment alongside and parallel to the road up to the southern tunnel, and to form a short earthen dam on the west side of the road of sufficient length to prevent the drainage from flowing uselessly through the northern tunnel, and to divert it into the tank through the southern tunnel. The arrangements do not appear to be suitable, the water coming through the road tunnels to the tank must be liable to rise to F.T.L. or higher, and, if the road be low, a bund east of the road would be useless, so long as water could pass from the tank by the tunnels to the west of the road. All that seems necessary is the prolongation of the tank bund west of the road to prevent part of the supply escaping towards G.

The work to be done at cost of the railway appears to amount to—

	RS.	A.	P.
Earthwork ...	7	1	9
Turfing ...	3	2	8
Sundries ...	0	11	7
Deepening and widening channel ...	74	0	0
Total ...	85	0	0

The tank has an Irrigation sluice which is in need of repair.

The estimate submitted provides also for repairing the sluice and may be sanctioned subject to the alteration of arrangements above noted which will reduce the expenditure.

The Superintending Engineer should communicate with the Railway Officers and obtain their concurrence before carrying out any of the work which may be deemed to affect the railway.

Ayappakkam Tank.—This tank receives the surplus of the Paruthipattu tank and surpluses into the Ambatoor tank, and if breached the water would escape into the Magapu tank; thence into the Coorum. The tank has three Irrigation sluices, all of which are in need of repairs. The existing calingulah is insufficient, and its crest is below F.T.L. The estimates provide for converting the calingulah into a weir by removing the dam stones and raising the body wall to F.T.L. for constructing a flush escape, and for raising and repairing the bund and repairing the three Irrigation sluices.

It is not stated whether the Paruthipattu tank which surpluses into this one is provided with adequate means of surplus, and the Superintending Engineer should report on this point; in the meantime the estimates under notice are recommended for provisional sanction, that for repairs however being reduced from Rupees 1,510 to Rupees 805 by the disallowance of the provision* for turfing, and of a proportional†

* Rupees 672

† „ 33

of the allowance for sundries. It is not likely that turfing could now be carried out with success.

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, MAIN HEAD, IRRIGATION.		Total for each Tank, &c.
		Classes.		
		Original Works.	Repairs.	
		RS.	RS.	RS.
Palaventangle tank...	Clearing the surplus channel	...	74	359
	Improving and repairing the bund, forming an earthen dam, and repairing the Irrigation sluice... ..	...	285	
	Raising and repairing the bund, repairing three Irrigation sluices, and converting the calingulah into weir	...	805	
Ayappakkam tank ...	Constructing a masonry weir	230	...	1,035

FORT ST. GEORGE,
14th May 1877.

(Signed) G. T. WALCH,
Ag. Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

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

No. 84.

ORDER THEREON, 28th May 1877, No. 43 I.

The following estimates for Irrigation works in the Mount Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned.

No. 21 I, dated 14th May 1877.

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PUBLIC WORKS DEPARTMENT, 28TH MAY 1877, No. 43 I.

Name of Work.	Item of Estimate.	Fund, Ordinary Agri- cultural, Main Head Irrigation.	Amount.	Irrigation Registry No.
		<i>Classes.</i>	RS.	RS.
Palaventangle tank.	Clearing surplus channel ...	Repairs ...	74	1
	Improving and repairing bund, forming an earthen dam and repairing sluice ...	Do. ...	285	2
Ayappakkam tank.	Repairing bund and three sluices, and converting calin- gulah into weir ...	Do. ...	805	1
	Weir ...	Original Works...	230	2

2. These sanctions are registered as shown above.

(True Extract.)

W. H. ...

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

6/6

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

Exd. E. C. Shunkor.

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Revenue Department
No 2773

IRRIGATION
ACCOUNT.

Govt. of 1877 Madras

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
CHINGLEPUT,
&c., &c., &c.



Dated May 28th.

Issued

Recd.

6 June 1877

Encl.

G. O., 28th May 1877, No. 43 E

Dis. Muz

MAY.

Nos. 83-84

No 3179
Comm. to the
Board of Revenue

7 June 77

Tanks, Chingleput District.—The estimates
for repairs to certain—, sanctioned.

950 to the No. of Revenue 8-6-77