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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

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*Proceedings of the Madras Government, Public Works Department,
24th August 1876. No. 2,244.*

Read the following :—

No. 145 W.

No. 563. *Note by the Chief Engineer for Irrigation.*

The following estimates from the Poloor and Chittoor Range are forwarded by the Officiating District Engineer, North Arcot, with his letter marginally noted :—

No. 461, dated 8th May 1876.

Taluq.	Village.	Work.	Amount.
			RS.
Vandiwash ...	Coonumboddy ...	R No. 126, V Tank ...	450
Do. ...	Pathiry ...	" " 7, V large Tank ...	910
Do. ...	Keelathoor ...	" " 237, V Tank ...	1,235
Godhattam ...	Bramhapuram ...	V Nagul Tank ...	1,165
Poloor ...	Alliabad ...	V Anicut ...	1,600

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.	OUTLAY.			
			During the previous 4 years.	PROPOSED, ORDINARY AGRICULTURAL.		
				Original Works.	Repairs.	Average annual proportion of charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS. per cent.
Coonumboddy Tank...	30	216	Nil.	170	280	36.4
Pathiry large do.	43	264	"	130	780	70.0
Keelathoor do.	72	411	"	225	1,010	60.9
Bramhapuram Nagul Tank...	136	954	"	240	925	23.7
Alliabad Anicut ...	...	...	"	1,484	116	...
Total...	281	1,845	"	2,249	3,111	56.6

II.—Hydraulic Details.

Name of Work.	Catchment Basin, Area.	MAXIMUM SUPPLY.		Ld.	AVERAGE HEIGHT OF BUND.		Surplus discharged at M.T.L. per Second.	Tanks above.
		Catchment per Second.	Channels per Second.		Above F.T.L.	Above M.T.L.		
	SQ. M.	C. FT.	C. FT.		FT.	FT.	C. FT.	No.
Coonumboddy Tank	175	800	...	No	2.40	0.40	...	Nil.
Pathiry large do.	75	464	...	No	50	2.50	800	...
Keelathoor do.	1	562	...	No	1.61	0.00	...	...
Bramhapuram Nagul Tank	1	562	...	No	50	2.50	480	Not stated.
Alliabad Anicut	...	...	...	No	50	2.50	480	...
					1.58	0.53	...	...
					50	2.50	568	...
					...	...	...	...

NOTE.—The proposed dimensions of escapes and bunds are given in small type. The following abbreviations are used :—
E.—Escape at ground level. B.—Bund of tank. V.—

in large type. The existing dimensions are given in small type. W.—Weir with flush crest. M.—Masonry.

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

Coonumboddy Tank.—Raising and repairing the bund, closing the breaches and constructing a dry stone escape. The rates for earthwork are too high. That for closing the breach may stand; the rest should be reduced to 1 Anna. The stepping of the bund as provided for is much greater than is required; it may be reduced one-half. Fifty Rupees may be allowed for grass planting in lieu of general turfing. The estimate for repairs has accordingly been reduced to Rupees 280.

Pathiry large Tank.—Raising and repairing the bund, repacking the revetment, and constructing a dry stone escape. The amount of the estimate is very great. The bund is by no means a high one and rates of from 1½ to 1¾ Annas for earthwork are much too high—a rate of 1 Anna should be ample. The large item for repacking revetment should be omitted. The store, even if in disorder, will be a considerable and probably sufficient protection for so petty a tank. Rupees 100 may be allowed for grass planting, but general turfing is not necessary. The estimate has been accordingly reduced to Rupees 780 for repairs.

Keelathoor Tank.—Raising and repairing the bund, closing the breaches, repairing the tank sluice and tunnel of spring channel, providing new stone revetment at the breached portions of bund and constructing a masonry escape. The rates are excessive for the leads specified and should be reduced as shown. The items for stepping and turfing have likewise been reduced, and the estimate for repairs reduced to Rupees 910.

Brumhapuram Nagul Tank.—Raising and repairing the bund, repacking the revetment, and raising it with rubble masonry. The rates in this estimate are reasonable.

Alliabad Anicut across the Cumendalanathy river.—Constructing a cut stone apron and repointing the old apron.

4. It is stated that the village under the Brumhapuram tank is to be guaranteed an extension of cultivation to produce an additional revenue of Rupees 140.

No particulars of the revenue have been furnished, and this information also has been shown on the section. There is no specification describing the manner in which the cut stone apron should be built or the manner in which the stone taken out from the section, is not in a very good state. Also that the concrete should be made of broken or small stone* rather than broken brick, and the lime mixed with soorkee. The joints of the rubble should be seventy instead of sixty feet in length, and an addition has been

* River gravel called kuppy is the material.

apron under the concrete should be provided for the Keelathoor Tank, and an addition has been

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.		Total for each Tank, &c.
		Original Works.	Repairs.	
		RS.	RS.	RS.
Coonumboddy Tank	Repairing the bund and closing the breach	170	280	450
	Dry stone escape	130	780	910
Pathiry large Tank	Repairing the bund, &c.	...	...	...
	Dry stone escape	...	910	1,235
Keelathoor Tank	Repairing the bund, &c., and closing the breaches	225	100	...
	New stone revetment for breaches	...	...	...
Brumhapuram Nagul Tank	Masonry escape	...	775	1,105
	Repairing the bund and repacking the revetment	240	150	...
Alliabad Anicut across the Cumendalanathy river.	Raising the revetment	1,484	116	1,600
	Rebuilding the masonry escape	...	...	...
	Cut stone apron	...	...	...
	Repointing the old apron	...	...	...

OOTACAMUND,
19th August 1876.

(Signed)

A. DEC. SCOTT, Major, R.E.,
Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 564. ORDER THEREON, 2

IRRIGATION, No. 57.

Account.

No. 145-W., dated 19th August 1876

Name of Work.	Provision of Estimate
Coonumboddy Tank	Repairing the bund and closing the breach
	Dry stone escape
Pathiry large Tank	Repairing the bund, &c.
	Dry stone escape
	Repairing the bund, &c., and closing the breaches
Keelathoor Tank	New stone revetment for breaches
	Masonry escape
Brumhapuram Nagul Tank	Repairing the bund and repacking the revetment
	Raising the revetment
	Rebuilding the masonry escape
Alliabad Anicut Cumendalanathy river	Cut stone apron
	Repointing the old apron

1876, No. 2,244.

The following estimates for Irrigation works in the Poloor and Chittoor North Arcot District, forwarded by the Chief Engineer for Irrigation with memorandum marginally noted, are recommended :—

Fund, Ordinary Agricultural.	Amount.	Irrigation Register No.
	RS.	
Coonumboddy Tank	280	119-I. { 1
Pathiry large Tank	170	120-I. { 2
Keelathoor Tank	780	121-I. { 1
Brumhapuram Nagul Tank	130	122-I. { 2
Alliabad Anicut	910	123-I. { 3
	100	
	225	
	775	
	240	
	150	
	1,484	
	116	

(True Extract.)

W. H. H. H.

Colonel,

To the District Engineer, North Arcot.

Collector of North Arcot.

Chief Engineer for Irrigation.

Examiner of Public Works Account

Revenue Department.

Exd. E. C. Shunker.

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PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
NORTH ARCOT,
&c., &c., &c.

Dated August 24th.

Issued

Recd.

Sept. 19th

Encl.

G. O., 24th August 1876, No. 2344.

AUGUST.

Nos. 563-564.

Tanks, North Arcot District.—Estimate
for the repairs of certain sanctioned.

communicated to the
Rev. 1

MADRAS RECORD OFFICE