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MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

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Dated	1-12-		1876.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
1st December 1876. No. 3,264.

Read the following —

No 263 W

No 65 Note by Chief Engineer for Irrigation

The following estimates from the Poloor Range are forwarded by the District Engineer, North Arcot, with his letter No 1,778, dated 1st September 1876 marginally noted —

Taluq	Village	Work	Amount
Wandewash	Reddycooppum	V Chittary tank	Rs
Do	Do	V Large tank	330
Do	Sancaranthy	V Tank	780
Do	Nagarunthul	V Large tank	400
Do	Japthy Karany	V Tank	520
			685

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 6 Years	OUTLAY			
					During the previous 4 Years	Proposed		
						Capital	Revenue	Average Annual portion of charges to Revenue
Reddycooppum Chittary tank	Acres 19	Rs 103	Rs 125	Rs Not stated	Rs Nil	Rs 105	Rs 225	Rs 52 8
Do large tank	37	201	232			125	655	67 2
Sancaranthy tank	18	93	102			160	240	78 4
Nagarunthul large tank	17	124	108			76	444	96 3
Japthy Karany tank	35	192	181		51	125	560	81 3
Total	126	713	748		51	591	2,124	73 9

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		
Reddycooppum Chittary tank.	sq M 37	C FT 292	C FT	FT E 25	FT 25	FT 2 00	FT 0 25	C FT 160 3	No Nil
Do large tank	50	354		E 36	36	3 50	1 75	230 9	
Sancaranthy tank	1	562		F 20	20	1 91	0 09	156 7	
Nagarunthul large tank	50	354		E 36	36	3 50	1 50	282 1	
Japthy Karany tank	1	562		E 36	36	1 37	0 63	64 8	
				F 20	20	2 30	0 30	470 2	2
				E 36	36	3 50	1 50	156 7	
				E 29	29	2 10	0 10	282 1	Nil
				E 60	60	4 50	2 50	272 3	
								470 2	

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type in small type The following abbreviations are used —C—Calngulah with dam stones W—Weir with flush crest
E—Escape at ground level B—Bund of tank V—Village.

Proceedings of the Madras Government, Public Works Department,
1st December 1876 No 3,264

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

Reddycooppum Chittary Tank — Raising, repairing, and turfing the bund, also repairing the head of the irrigation sluice, and constructing a dry stone escape

Reddycooppum large Tank — Raising, repairing, and turfing the bund, repacking the revetment, reconstructing the irrigation sluice, and constructing a dry stone escape

Sancaranthy Tank — Raising, repairing, and turfing the bund, closing the breach, repairing the cistern of an irrigation sluice, and constructing a dry stone escape

Nagarunthul large Tank — Raising, repairing, and turfing the bund, closing breaches, reconstructing an irrigation sluice, and constructing a dry stone escape.

Japthy Karany Tank — Raising, repairing, and turfing the bund, and constructing a dry stone escape

4 The co-efficient which is probably most suitable for the calculation of the discharges of the surplus escapes provided for the above tanks is 0.518, and the discharges so derived are shown in the tabular statement, paragraph 2. With the heads allowed the drainage from the several catchment basins seems hardly to be provided for by the lengths of the crests, but as there is ample margin between the levels of the tops of the bunds and M W.L. to allow of a small increase of head, it will therefore not be necessary to add to the escapes

The tunnels of irrigation sluices should not be less than 2 feet in width by 2½ in height, and the dimensions of those provided for the Reddycooppum and Nagarunthul large tanks may be increased with advantage.

5 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	
Reddycooppum Chittary tank	Repairing the bund and irrigation sluice	RS	RS	RS
	Dry stone escape		225	
Reddycooppum large tank	Repairing the bund	105	410	330
	Reconstructing irrigation sluice		245	
Sancaranthy tank	Dry stone escape	125	240	780
	Repairing the bund and irrigation sluice		170	
Nagarunthul large tank	Dry stone escape	160	274	400
	Repairing the bund		560	
Japthy Karany tank	Reconstructing irrigation sluice	76		620
	Dry stone escape			
	Repairing the bund	125		685
	Dry stone escape			

FORT ST GEORGE,
23rd November 1876.

(Signed) A DEC SCOTT, Major, R E,
Dy Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

To the Secretary to Government, Public Works Department.

Proceedings of the Madras Government, Public Works Department,
1st December 1876. No. 3,264.

No 66. ORDER THEREON, 1st December 1876, No. 3,264.

IRRIGATION, No. 10

Account

No 263 W, dated 23rd November 1876.

THE following estimates for irrigation works in the Poloor Range, North Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned. —

Name of Work.	Items of Estimate.	FUND		Irrigation Registry No
		Ordinary Agricultural	Amount	
Reddycooppum Chittary tank	Repairing the bund and irrigation sluice	Repairs	225	1 } 190-I
	Dry stone escape	Original Works	105	2 }
Reddycooppum large tank	Repairing the bund	Repairs	410	1 } 191-I
	Reconstructing irrigation sluice	Repairs	245	2 }
	Dry stone escape	Original Works	125	3 }
Sancaranthy tank	Repairing the bund and irrigation sluice	Repairs	240	1 } 192-I
	Dry stone escape	Original Works	160	2 }
Nagarunthul large tank	Repairing the bund	Repairs	170	1 } 193-I
	Reconstructing irrigation sluice	Repairs	274	2 }
	Dry stone escape	Original Works	76	3 }
Japthy Karany tank	Repairing the bund	Repairs	560	1 } 194-I
	Dry stone escape	Original Works	125	2 }

2. These sanctions are registered as shown above.

(True Extract)

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

To the District Engineer, North Arcot
" Collector of do
" Examiner of Public Works Accounts.
" Chief Engineer for Irrigation.
" Revenue Department.

Exd S T Austin.
Spare Copies

OFFICE OF CHIEF ENGINEER FOR IRRIGATION,

No 263-W. Fort Sanat George 23 Nov 1876.

Note by the Chief Engineer for Irrigation

1876 The following Estimates from the *Poloor* Range are forwarded
by the *District* Engineer *North Arcot* with his letter
marginally noted —

Taluk . . . Village . . . Work . . . Rs. . . . Amount

Wandiwash - Reddycooppum & Chittary Tank . . . 330

do do & large Tank . . . 730

do Saneeranthu & Tank . . . 400

do Nagaruthul & large Tank . . . 520

do Japthy Narany & Tank . . . 635

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		
						Proposed		
						Capital	Revenue	Average annual proportion of Charges to Revenue
	Acres	Rs	Rs	Rs	Rs	Rs	Rs	Rs
<i>Reddycooppum Chittary Tank</i>	<i>19</i>	<i>103</i>	<i>125</i>	<i>Not stated</i>	<i>Nil</i>	<i>105</i>	<i>225</i>	<i>52.8</i>
<i>do & large do</i>	<i>37</i>	<i>120</i>	<i>232</i>	<i>do</i>	<i>do</i>	<i>125</i>	<i>655</i>	<i>67.2</i>
<i>Saneeranthu</i>	<i>2</i>	<i>93</i>	<i>102</i>	<i>do</i>	<i>do</i>	<i>160</i>	<i>240</i>	<i>73.2</i>
<i>Nagaruthul large do</i>	<i>17</i>	<i>124</i>	<i>108</i>	<i>do</i>	<i>do</i>	<i>76</i>	<i>444</i>	<i>96.3</i>
<i>Japthy Narany</i>	<i>20</i>	<i>192</i>	<i>181</i>	<i>do</i>	<i>51</i>	<i>125</i>	<i>560</i>	<i>81.3</i>
<i>Total</i>	<i>126</i>	<i>712</i>	<i>748</i>	<i>do</i>	<i>51</i>	<i>591</i>	<i>2124</i>	<i>71.9</i>

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	M T L		
	Sq. M	C ft	C ft	Ft	Ft	Ft	Ft	C ft	No
Reddygooppum Chittary Tank	.37	292	.	E 25	25	2.00	0.25	1603	Nil.
do. large d.	.50	354	.	E 20	20	1.91	0.09	1567	.
Sancaranthy " " " "	1.	562	.	E 36	36	1.37	0.63	648	2.
Nagarunthal large d.	.50	354	.	E 20	20	2.30	0.30	1567	Nil
Japthy Karany " " " "	1.	562	.	E 29	29	2.10	0.10	2723	.

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—Kalingulah with dam stones W—Weir with flood cross
E—Escape at ground level B—Bund of tank.

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

Reddygooppum Chittary Tank— Raising repairing and turfing the bund— also repairing the head of the irrigation sluice and constructing a dry stone escape.

Reddygooppum large Tank— Raising repairing and turfing the bund, repacking the revetment, reconstructing the irrigation sluice and constructing a dry stone escape.

Sacaranthy Tank— Raising, repairing and turfing the bund, closing the breach, repairing the system of an irrigation sluice and constructing a dry stone escape.

Nagarunthal

Nagarunthal large Tank— Raising repairing and turfing the bund, closing breaches, reconstructing an irrigation sluice and constructing a dry stone escape.

Japthy Karany Tank Raising repairing and turfing the bund and constructing a dry stone escape.

The coefficient which is probably most suitable for the calculation of the discharges of the surplus escapes provided for the above tanks is 0.618, and the discharges so derived are shown in the tabular statement para 2. With the heads allowed the drainage from the several catchment basins seems hardly to be provided for by the lengths of the creeks, but as there is ample margin between the levels of the tops of the bunds and the W.T. to allow of a small increase of head, it will therefore not be necessary to add to the escape.

The tunnels of irrigation sluices should not be less than 2 feet in width by 2 ft in height and the dimensions of those provided for the Reddygooppum and Nagarunthal large tanks may be increased with advantage. The following statement shows the proposed distribution of the outlay recommended for sanction to the debit of the several heads of account involved.

Name

Name of Tank	Items of Estimate	Sand Hydraulic Cultural		Total for each tank
		Original work	Repairs	
Raddicooppam Chittary Tank	Repairing the bund		225	
	Irrigation sluice			330
	Dry stone escape	105		
Raddicooppam Large Tank	Repairing the bund		210	
	Reconstructing irrigation sluice		240	780
	Dry stone escape	125		
Sancaranthy Tank	Repairing the bund			
	Irrigation sluice		240	480
	Dry stone escape	160		
Nagarunthel Large Tank	Repairing the bund		170	
	Reconstructing irrigation sluice		272	520
	Dry stone escape	176		
Japthy Karany Tank	Repairing the bund		560	
	Dry stone escape	120		680

Final State

under the immediate guidance of the Chief Engineer for Irrigation
The Secretary to Government
Public Works Department

Note for Printers - Red entries in the above are to be printed in C and entries in blue in P and 2 altered to C and

Recd. 19.12.76

1876
From
The Chief Engineer for Irrigⁿ

P.W.D.
24 NOV 76
No 8546

Dated 23rd Nov 1876
Recd 24th do

Encls. 11.
No 263-W

Tank Repairs - North Arcot
District - Note forwarding
for sanction, estimates for
costs -

No 65

Note for Printer - Paid entries in B. etc are to be printed in C. as usual.
Type used in form para 2 altered to suit.

E I Form No 3

No 263-W of 11/11/76
732 w
part.

The following Estimates for Irrigation
works in the Palloor Range,
North Arcot District, forwarded by the
Chief Engineer for Irrigation with his Memo.
dated 23rd November 1876. marginally noted are sanctioned -

Name of Work	Item of Estimate.	Fund	Amount	Irrigation Registry No
		Ordinary Repairs		
Reddygooppuram Chikkaru Tank	Repairing the bund	Repairs	225	190I
	Irrigation sluice			
	Dry stone escape	Original works	105	2
Reddygooppuram Large Tank	Repairing the bund	Repairs	140	191I
	Reconstructing irrigation sluice	Repairs	245	
	Dry stone escape	Original works	125	3
Sancaranthy Tank	Repairing the bund	Repairs	240	192I
	Irrigation sluice			
	Dry stone escape	Original works	160	2
Nagarambudi Large Tank	Repairing the bund	Repairs	170	193I
	Reconstructing irrigation sluice	Repairs	274	
	Dry stone escape	Original works	76	3
Jagathiyar Tank	Repairing the bund	Repairs	560	194I
	Dry stone escape	Original works	170	

2. The above estimates are
registered as shown above.

Ames

to North Arcot
Collector of do -
to P. W. Dept
Ch. S. for Irrig. with 11. Enclosures
Revenue Dept
Depd. 19. 12. 76

8546

To The N. E. South Street

Issued

Encl

G O, ~~7~~¹⁶ ~~Ne~~² 1876, No 376

Nos.

Tanks North Arcot

Inch — Estimated for.

Repairing certain —

Sanctioned

Cont in pp 2