M.R.O. 1—10,006—28-2-50

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. / ~~B.P. No.~~	3219	Press / ~~Mis.~~	
Dated	13-11	0874 —195—	

Not to be folded or roughly handled

Read the following :—

No. 826.

No. 225. *Note by the Chief Engineer for Irrigation.*

R. No. 1,633, dated 27th August 1874, and one enclosure.

THE Revenue Statement of the Godavery Delta for the year 1872-73 (Fasli 1282) gives the following general results :—

—	1871-72.	1872-73.	Increase.
Area irrigated	ACRES. 456,432	ACRES. 516,683	ACRES. 60,251
Revenue water-tax	RS. 14,00,997	RS. 14,84,284	RS. 83,287

The statement as prepared by the Board of Revenue gives the particulars by taluqs, and the subjoined abstract has been prepared in this office giving the details for canals and deltas, and from this it appears that in the year 1872-73 there was a falling off of area and revenue in the Eastern Delta, and a material increase under both heads in the Central and Western Deltas :—

—	AREA IRRIGATED.		WATER-TAX.	
	1871-72.	1872-73.	1871-72.	1872-73
	ACRES.	ACRES.	RS.	RS.
Eastern Delta	144,040	140,543	4,55,137	4,41,177
Central do.	85,273	99,294	2,80,536	3,23,074
Western do.	227,119	276,846	6,87,812	7,48,521

It seems probable that the falling off in the Eastern Delta was due to the closure of canals on account of improvements ; but, if so, as similar improvements were in progress in the Western Delta, where a very material increase occurred, the subject may well be inquired* into and the causes be ascertained. The Samulcotta, Mundapetta, and Bank Canals are those which show a decrease of cultivation.

* By the local Revenue and Public Works Officers.

Abstract showing the Area irrigated by each Canal and in each Delta of the Godavery, with the Water-tax thereon.

Canals.	Government Lands.				Zemindary, etc., charged.				Total.			
	1871-72.		1872-73.		1871-72.		1872-73.		1871-72.		1872-73.	
	Area.	Water-tax.	Area.	Water-tax.	Area.	Water-tax.	Area.	Water-tax.	Area.	Water-tax.	Area.	Water-tax.
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
Coconada ...	16,565	66,271	17,721	69,634	10,918	43,645	16,049	47,982	87,710	1,09,916	39,877	1,17,616
Samulcotta ...	11,731	47,533	11,193	45,994	4,606	18,405	5,864	8,330	26,514	65,937	28,521	64,313
Coringa ...	12,257	43,393	12,800	50,298	8,920	35,158	11,687	84,125	24,982	83,551	25,009	84,423
Ingeram ...	8,818	15,010	8,807	15,218	7,931	31,208	9,009	81,791	13,678	46,228	13,811	47,000
Mundapotta ...	14,867	58,379	13,790	55,029	13,347	52,174	12,092	47,142	28,485	1,10,552	25,937	1,02,171
Bank (Yanam) ...	4,475	15,117	4,156	14,856	6,595	23,057	6,135	20,527	12,328	38,174	11,183	35,383
Yededa (?) ...	...	...	...	...	113	467	...	242	113	467	...	242
Penungudaru (?) ...	...	...	...	...	65	263	71	243	235	262	245	243
Eastern Delta...	63,703	2,50,701	63,617	2,51,029	52,495	2,04,436	60,906	1,90,148	1,44,040	4,55,137	1,40,543	4,41,177
Nagaram ...	17,796	74,325	21,951	86,489	11,880	48,763	19,018	54,010	32,807	1,23,088	41,124	1,40,499
Amalapur ...	7,586	30,015	8,118	32,520	7,803	30,483	12,486	84,543	20,423	61,498	22,026	67,063
Turpugottu (East Bank) ...	9,877	39,343	11,126	43,741	5,066	20,098	8,799	22,428	18,825	59,376	20,807	66,169
Guntnaveram ...	760	3,201	1,052	4,041	3,058	11,071	3,735	13,561	3,818	14,272	4,787	17,602
Bandamurlanka ...	5,428	21,670	6,191	23,123	1,765	7,032	4,120	7,018	9,400	28,702	10,460	31,741
Central Delta...	41,447	1,69,159	48,438	1,90,014	29,577	1,17,377	48,158	1,32,140	85,273	2,80,536	99,294	3,23,074
Nursapur ...	27,753	1,08,833	31,017	1,21,987	15,963	63,251	26,203	62,618	43,315	1,72,084	57,463	1,84,605
Mukkamala ...	7,603	29,719	8,430	33,410	4,713	18,299	6,436	20,558	12,402	48,017	13,466	53,968
Gostanuddi and Velpur ...	17,305	69,103	20,431	80,579	6,410	25,341	15,381	24,088	81,746	94,443	36,846	1,04,667
Venkiah Weyairu ...	10,596	42,354	10,662	38,093	18,203	17,899	38,968	21,880	86,894	60,252	50,788	60,868
Undi ...	12,516	50,047	14,323	57,234	10,546	10,516	23,883	19,264	81,425	60,563	38,970	76,499
Attili ...	11,237	44,586	12,470	45,917	11,085	40,061	12,711	32,490	22,826	84,647	25,220	78,407
Ellore ...	20,770	83,234	26,471	96,028	6,073	16,979	12,691	21,552	32,704	1,00,213	41,515	1,17,580
Bank ...	8,328	13,253	8,761	14,817	3,214	12,897	8,802	15,100	6,543	20,150	7,563	29,917
Nukkala ...	1,048	4,184	993	4,008	1,747	6,970	1,810	6,639	2,795	11,154	2,808	10,147
Main ...	2	4	187	600	457	1,797	1,580	2,221	471	1,801	1,767	2,881
Western Delta...	1,12,158	4,45,316	1,28,755	4,93,623	78,474	3,14,008	1,42,465	2,26,410 Water-tax Nidadavole and Bahurzhalli Estates	1,90,632	7,59,324	2,76,846	7,20,033
Grand Total, Delta...	2,17,308	8,05,176	2,40,810	9,35,566	1,60,646	5,35,621	2,51,529	5,48,718	3,77,954	13,40,797	3,76,885	13,56,108
Ellore (Kistna) ...	8,323	33,245	9,547	33,419	193	757	209	809	8,516	33,974	9,756	33,628

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

AMBASAMUDRUM,
14th October 1874.

Proceedings of the Madras Government, Public Works Department,
13th November 1874.

2. There are several matters in the statement as thus collated which appear to need explanation—

1*stly.*—There is a remarkable difference in the two years between the areas of Zemindary lands irrigated free of charge:—

In 1871-72 this area was Acres 78,578.
In 1872-73 „ „ 24,344.

An examination of the entries under Zemindary lands charged with a water-rate leads to the conclusion that the statements have not been altogether accurately prepared, and that areas which appertain to the free class have somehow or another got into the charged column, thus—

	Zemindary charged.		
	Area.	Water-tax.	Rate per Acre.
		Rs.	
Cocanada Canal, 1871-72	10,918	43,645	Nearly 4 Rs.
Do. do., 1872-73	16,049	47,982	Less than 3 „

And were the free area of 1872-73 made equal to that of 1871-72, the charged area being correspondingly reduced, the resulting rate on the latter would be about right.

Similar remarks apply to other canals.

2*ndly.*—Some of the entries are very remarkable, and certainly need explanation.

Under the Samulcotta Canal the Government lands irrigated—

Were in 1871-72, Acres 11,731, Water-tax Rupees 47,532.
„ 1872-73, „ 11,193, „ „ 45,994.

Indicating that the water-supply was about equally good in the two years.

On the other hand, under Zemindary charged, the entries are—

Area irrigated, 1871-72, Acres 4,606, Water-tax Rupees 18,405.
„ „ 1872-73, „ 5,864, „ „ 8,339.

The water-rate for the one year being 4 Rupees, and in the other less than 1½ Rupees. Possibly the explanation may be found in the entry of free land under land charged. Generally in the Eastern Delta and elsewhere, the water-rates on Zemindary lands in 1872-73 are less than those of the preceding year, while on Government lands the rates for the two years correspond very nearly.

3*rdly.*—In the Western Delta the Irrigation under the Venkiah and Weyairu exhibits the following facts:—

The Government lands in 1871-72 paid a water-rate of 4 Rupees.
Do. in 1872-73 do. of 3¾ „

The Zemindary lands which paid anything for water were charged—

In 1871-72 Rupees 17,898 on Acres 18,262, and
in 1872-73 „ 21,880 on „ 38,968.

On turning to the detailed statements, moreover, it appears that in 1872-73 out of the area above shown 35,448·38 acres were charged Rupees 9,949-5-4 for water, or less than 4½ Annas an acre.

The Zemindary lands under some canals are charged about the same rate as Government lands, *e.g.*, the Bank Canal, Western Delta.

3. The Board of Revenue will probably be able to afford such explanations as will make the entries in the statements comprehensible, but at present no idea can be obtained from them as to the effect which extensions of irrigation will have, *e.g.*, in the Eastern Delta the decrease of irrigation in the year 1872-73 was principally in the Zemindaries, but the water-rate on the decrease is 4 Rupees; in the Central Delta the water-rate on the increase is 2½ Rupees on the average, but

On Government lands nearly 4 Rupees an acre.
On Zemindary do. under 13 Annas do.

Similarly, in the Western Delta, the water-rate on the increased area generally averages 1 Rupee 3½ Annas, but

On Government lands nearly 4 Rupees an acre.
On Zemindary do. just over 3 Annas do.

4. As in 1871-72 so in 1872-73 the sum of Rupees 28,488 is shown as the water-rate levied from the Zemindaries of Nidathavole and Baharzhalli, but the area corresponding thereto, or represented by this payment, is not stated. It appears to be necessary both for the purpose of regulating the supply in the canals, and for other reasons, that the area should be given at least approximately.

5. Some trifling differences arising from the omission of fractions will be found between the return of the Board of Revenue and the abstract by canals. The irrigation under the Kistna Ellore canal in the Godavery District has been shown separately in the abstract, as it appertains to the Kistna Delta.

6. It is desirable that the same classification of canals should be adhered to in preparing the statements of successive years. This has not been attended to in the statements of Faslies 1281 and 1282 in some instances.

AMBASAMUDRUM, *14th October* 1874.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 226. ORDER THEREON, 13th November 1874, No. 3,219.

IRRIGATION, No. 21.

THE Government are of opinion that the entries in the statement of Irrigation in the Godavery Delta, which have been noticed by the Chief Engineer for Irrigation, and others of the same kind, require to be explained, and the Board of Revenue will be requested to prepare and furnish a memorandum showing on what principles the lands irrigated are assessed with water-tax, and how the remarkably low charges in some instances on this account have been determined. The Board will also be asked to furnish information as to the area irrigated in the Nedathavole and Baharzhalli Zemindaries, for which a contract payment of Rupees 28,488 has been made in each of the Faslies 1281 and 1282.

3

2. Pending the receipt of the information above called for, the review of the results of the irrigation in the two years noticed will be postponed.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

To the Board of Revenue.
,, District Engineer, Godavery.
,, ,, Kistna.
,, Chief Engineer for Irrigation.
,, Officiating Controller of Public Works Accounts.
,, Revenue Department.

Exd. S. T. Austin.
Spare Copies

No. 2,413.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 27th August 1874.

Read the following letter from W. S. FOSTER, Esq., Acting Collector of the Godavery District, to J. GROSE, Esq., Secretary to the Board of Revenue, dated Cocanada, 10th June 1874, No. 176:—

ADVERTING to the Board's Proceedings, dated 16th July 1873, No. 1,305, I have the honor to forward, herewith, statement of lands irrigated under anicut canals for Fasli 1282 according to the revised form therewith received.

ENCLOSURE No. 1.—Statement.

A COPY of the Canal Register, received with the foregoing letter for Fasli 1282, is herewith forwarded to the Chief Engineer for Irrigation, with reference to paragraph 3 of his letter, dated 5th June 1872, No. 91, recorded in the Board's Proceedings, dated 24th June 1872, No. 1,082.

(A true Copy and Extract.)

Secretary.

To the Chief Engineer for Irrigation, with a statement.

Copy to the Acting Collector of the Godavery District.

Exd. A. Grubert.

Note by the Chief Engineer for Irrigation

Enclosures-2
R. Revd 6339/27th Aug 1874
1 Enc
2

The Revenue statement of the Godavery Detta for the year 1872-73 (Fusli 1282) gives the following general results

	1871-72	1872-73	Increase
Area irrigated acres	456432	516683	60251
Revenue, water tax, Rupees	14,00,997	14,84,284	83287

The statement as prepared by the Board of Revenue ~~of Revenue~~ gives the particulars by Taluqs, and the subjoined abstract has been prepared in this office giving the details for Canals and Distas, and from this it appears that in the year 1872-73 there was a falling off of area and Revenue in the Eastern Detta, and a material increase under both heads in the Central and Western Dettas

	area irrigated		water tax	
	1871-72	1872-73	1871-72	1872-73
Eastern Delta	144,040	140,543	4,55,137	4,41,177
Central do	85,273	99,294	2,80,536	3,23,074
Western do	227,119	276,846	6,87,812	7,48,521

It seems probable that the falling off in the Eastern Delta was due to the closure of canals on account of improvements; but, if so, as similar improvements were in progress in the Western Delta, where a very materiab increase occurred, the subject may well be enquired into and the causes be ascertained. The Samulcotta, Mundapetta and Bank Canals are those which show a decrease of cultivation

× by the Revenue Officers

Abstract.

2. There are several matters in the statement as thus collated which appear to need explanation

1st there is a remarkable difference in the two years between the areas of Zemindary lands irrigated free of charge

In 1871-72 this area was acres 78,578
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An examination of the entries under Zemindary lands charged with a water rate leads to the conclusion that the statements have not been altogether accurately prepared, and that areas which appertains to the free class have somehow or another got into the charged columns Thus

	Zemindary charged area	Water tax	Rate per acre
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1872-73	16,049	47,982	less than 3 Rs.

and were the free area of 1872-73 made equal to that of 1871-72

the

the charged area being correspondingly reduced, the resulting rate on the latter would be about right.

Similar remarks apply to other canals.

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indicating that the water supply was about equally good in the two years

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—"— —"— 1872-73 —"— 5,864 —"— —"— 8,339

the water rate for the one year being 4 Rupees, and in the other less than 1½ Rupees. Possibly the explanation may be found in the entry of free land under land charged. Generally in the Eastern Eastern Delta and elsewhere the water rates on Zemindary lands in 1872-73 are less than those of the preceding year, while on Government lands the rates for the two years corresponded very nearly.

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The Government lands in 1871-72 paid a water rate of 4 Rupees
—"— do —"— 1872-73 do do 3¾ do.

The Zemindary lands which paid anything for water were charged in 1871-72 Rupees 17,898 on acres 18,262
& in 1872-73 —"— 21,880 on —"— 38968

By turning to the detailed statements moreover, it appears that in 1872-73 out of the area above shown 35,448.38 acres were charged Rupees 9,949-5-4 for water, or less than 4½ annas an acre.

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the same rate as Government lands, e.g. the Bank Canal, Western Delta.

3. The Board of Revenue will probably be able to afford such explanations as will make the entries in the statements comprehensible, but at present no idea can be obtained from them as to the effect which extensions of irrigation will have e.g. in the Eastern Delta the decrease of irrigation in the year 1872-73 was principally in the Zemindaries, but the water rate on the decrease is 4 Rupees: in the Central Delta the water rate on the increase is 2½ Rupees on the average, but

on Government lands nearly 4 Rupees an acre
" Zemindary do under 13 annas do
Similarly in the Western Delta the water rate on the increased area generally averages 1 Rupee 3½ annas, but

on Government lands nearly 4 Rupees an acre
" Zemindary do just over 3 annas do

4 As in 1871-72 so in 1872-73 the sum of Rupees 28,488 is shown as the water rate levied from the Zemindaries of Nidathavole & Bahargimilli, but the area corresponding thereto, or represented by this payment is not stated. It appears to be necessary both for the purpose of regulating the supply in the Canals, and for other reasons, that the area should be given at least approximately.

5 Some trifling differences arising from the omission of fractions will be found between the returns of the Board of Revenue and the abstract by Canals. The irrigation under the Kistna Ellore Canal in the Godavery District has been shown separately in the abstract, as it appertains to the Kistna Delta.

6. It is desirable that the same

same classifications of canals should be adhered to in preparing the statements of successive years. This has not been attended to in the statements of Fasilis 1281 & 1282 in some instances.

Ambasamoodrum
14th October 1874.

W. Henderson Lt Colls.
Chief Engineer for Irrigation

To
The Secretary to Govt P.W.D.

From V. Lt. Dalyell
Mng. Director Nº 6637
Public Works Department
Madras

Dated 18th October 1874

Received 28 October 1874.

No. 826.

Submitting to Govt. the Estimate for the Repairs of the Sluices of the Pulicat Lake.

Sir,

I have the honor to submit herewith the Estimate for the Repairs of the Sluices of the Pulicat Lake.

2. The Estimate amounts to Rs. 32,19 and I propose that the Repairs be executed by Contract.

3. The Estimate is framed on the Plan and Estimate sanctioned by Government in G.O. No. 1215 dated 23rd March 1874.

I have the honor to be,
Sir,
Your most obedient Servant,
V. Lt. Dalyell
Mng. Director
Public Works Department.

Nandyaur	27,753	1,08,833	31,017	1,21,987	15,968	63,251	26,203	62,618	5,594	243	49,315	1,72,084	51,463	1,84,600
Mukkamala	7,603	29,719	8,430	33,410	4,713	18,298	5,436	20,558	86	"	12,102	48,017	13,866	53,968
Gostanadi & Kalpur	17,305	69,102	20,431	80,579	6,410	25,341	15,381	24,088	8,030	1,074	31,745	94,443	36,886	1,04,667
Venkiah Vyasam	10,596	42,354	10,662	38,988	18,262	17,898	38,968	21,880	8,036	1,158	36,894	60,252	60,788	60,863
Undi	12,516	50,047	14,328	57,234	10,646	10,516	23,883	19,264	8,363	759	31,425	60,563	38,970	76,498
Attili	11,237	44,586	12,470	45,917	11,085	40,061	12,711	32,490	504	39	22,826	84,647	25,220	78,407
Ellore	20,770	83,234	26,471	96,028	6,072	16,979	12,691	21,562	6,962	2,363	32,704	1,00,213	41,516	1,17,580
Bank	3,328	13,263	3,761	14,817	3,214	12,997	3,302	15,100	•	•	6,542	26,150	7,563	29,917
Nukkala	1,048	4,184	998	4,008	1,747	6,970	1,810	6,639	•	•	2,795	11,154	2,808	10,647
Main	2	4	187	660	457	1,797	1,550	2,221	12	•	471	1,801	1,767	2,581
Western Delta	1,12,158	4,45,316	7,27,755	4,93,628	78,474	2,14,005	1,42,465	2,26,410	36,487	5,626	2,27,119	6,59,324	2,76,846	7,20,033
Water tax Nidathavole and Bogarkulli Estates												28,488		28,488
												6,87,812		7,48,521
Grand total Delta	2,17,308	8,65,176	2,40,810	9,35,566	1,60,546	5,36,524	2,51,529	5,47,718	78,578	24,344	4,56,432	14,00,997	5,16,683	14,84,284
Ellore (Kistna)	8,328	33,245	9,547	33,419	193	757	209	809	3,256	3,358	11,777	34,002	13,114	34,228

Ambasamoodrum
14th October 1874

Colombine Dalyell
Chief Engineer & Secy.

Abstract showing the area irrigated by each Canal in each Delta of the Godavery with the water tax thereon.

Canal	Government lands.				Zemindary Area charged				Zemindary Area free		Total			
	1871-72		1872-73		1871-72		1872-73		1871-72	1872-73	1871-72		1872-73	
	Area	Water tax	Area	Water tax	Area	Water tax	Area	Water tax	Area	Area	Area	Water tax	Area	Water tax
Cocanada	16,566	66,271	17,721	69,634	10,918	43,645	16,049	47,982	10,227	6,107	37,710	109,916	39,577	117,616
Samalcotta	11,731	47,532	11,193	46,994	4,606	18,406	5,864	8,339	10,177	6,464	26,514	66,937	23,521	54,333
Coringa	12,257	48,393	12,890	50,298	8,920	35,158	11,687	34,125	3,806	1,392	24,982	83,551	25,969	84,423
Tuperam	3,818	15,010	3,867	15,218	7,931	31,268	9,008	31,791	1,924	936	13,673	46,278	13,811	47,009
Mundapatta	14,857	58,378	13,790	56,029	13,347	52,174	12,092	47,142	281	55	28,485	110,552	25,937	102,171
Bank (Yanam)	4,475	15,117	4,156	14,856	6,595	23,057	6,135	20,527	1,258	892	12,328	38,174	11,183	36,383
Penda ?	"	"	"	"	113	467	"	"	"	"	113	467	"	"
Ramayedaru ?	"	"	"	"	65	262	71	242	170	174	235	262	245	242
Eastern Delta	63,703	250,701	63,617	261,029	52,495	204,436	60,906	190,148	27,842	16,020	144,040	455,137	140,543	441,177
Nagaram	17,796	74,325	21,951	86,489	11,880	48,763	19,018	54,010	3,131	155	32,807	123,088	41,124	140,499
Dunalapur	7,586	30,615	8,118	32,620	7,808	30,483	12,486	34,643	5,029	1,422	20,423	61,098	22,026	67,063
Purpugottu (Cantabank)	9,877	39,848	11,126	43,741	6,066	20,028	8,799	22,428	3,882	972	18,825	59,876	20,897	66,169
Gummavaram	760	3,201	1,052	4,041	3,058	11,071	3,735	13,561	"	"	3,818	14,272	4,787	17,602
Penamarlanka	5,428	21,670	6,191	24,123	1,766	7,002	4,120	7,618	2,207	149	9,400	28,702	10,460	31,741
Central Delta	41,447	169,159	48,488	190,914	29,577	117,377	48,158	132,160	14,249	2,698	85,273	286,536	99,294	323,074

Proceedings of the Public Works Department of the Madras Government
From the Chief Engr. for Irrn. (P.W.D.) No. 826 dated 14th April 1926
Read the following
No. 3219

The Government are of opinion that the statement of irrigation in the Godavery Delta, which have been noticed by the Chief Engineer for Irrigation, and others of the same kind, require to be explained, and the Board of Revenue will be requested to prepare and furnish a memorandum shewing on what principle the lands irrigated are

are assessed with water tax, and how the remarkably low charges in some instances in this account have been determined. The Board will also be asked to furnish information as to the area irrigated in the Nelathavoli and Bazhalli Zemindaries, for which a contract payment of Rupees 28,488 has been made in each of the Faslis 1281 & 1282.

2. Pending the receipt of the information above called for, the review of the results of the irrigation in the two years noticed will be postponed.

Mm. 15/10/74 13

Genl

27

93/8

To
The Board of Revr
D.R. Godaveri
Kistna
Chfmgr for Bdr
Controller Mad Accts
Revr Dept

S. Capis dept 19/11/74.

Govt. of {1874} Madras.

PUBLIC WORKS.

To

The Bd. of Revenue.

dated

Encl. 2

to G.O. P.W. Nov. 1874. No. 3219

Nos. 225 226.

Statement of Irrigation
Godavery, Delta
for 1872-73.

The review of the re-
turns of Irrigation for
the years 1872-73 post-
poned pending the
receipt of the information
called for from the
Board of Revenue —

225-226.

Rec'd 27/10/74 Rec'd 30/10/74
Delivered 23rd Oct 74