

(1) Number of pages

22.

(2) Date of repair

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 888

(9)

Press
Mis.

Dated

16

3

1877.

Not to be folded or roughly handled

Read the following papers:—

No. 383. From Major J. BEATTY, R.E., Officiating Superintending Engineer, Godavery, to the Secretary to Government, Public Works Department, dated Dowlaishweram, 24th February 1877, No. 3,415.

With reference to paragraph 6 of my letter embodied in G.O., No. 188, of 20th ultimo, I have the honor to forward herewith an abstract of Irrigation Registers for fasli 1285 or 1875-76, prepared from the statements received from the Collector, showing the irrigated area, assessment and water-rates separately; from which it will be seen that the decrease in the Eastern Delta was only 213 acres instead of 3,594, as shown by the returns obtained from the Range Officers.

2. The Revenue Registers are no doubt accurate, at least as to the totals for ranges, though there may be and doubtless often are errors in the totals for canals; and the explanation of the smaller figures given by the Range Officers is simply that those they obtain from the Curnums of villages are often incorrect.

3. For convenience of reference the irrigated areas, &c., for faslis 1283 and 1284 are shown in the abstract now submitted.

4. The same causes that were at work in 1284 to produce a decrease in the Eastern Delta continued in action in 1285, and it is hoped that when the Collector's figures for 1286 are obtained, they will show some recovery in that delta, because the chief reason of the decrease, namely, water being given late, was removed. In 1876 all the canals were opened on or before 24th May.

GODAVEYR DISTRICT.
Abstract of Irrigation Registers as per Revenue Accounts for *Fasli* 1283, 1284, and 1285.

Canals.	1283.				1284.				1285.			
	Area.	Asses- ment.	Water- tax.	Total.	Area.	Asses- ment.	Water- tax.	Total.	Area.	Asses- ment.	Water- tax.	Total.
<i>Eastern Delta.</i>												
Cocanada Canal ..	38,806	64,027	1,12,780	1,76,807	38,903	65,672	1,11,002	1,76,674	38,677	66,075	1,07,069	1,73,144
do ..	26,370	47,476	86,218	1,33,692	24,829	44,457	81,166	1,25,638	26,452	44,642	84,121	1,28,763
Coringa do ..	29,078	60,780	1,13,287	1,74,067	26,686	57,283	1,04,198	1,61,481	25,110	55,411	96,983	1,52,394
Mundapetta Canal ..	13,851	17,794	46,659	64,453	13,638	16,832	43,296	60,128	12,157	14,813	36,332	51,145
Injeram do ..	11,755	18,186	36,621	64,807	9,939	14,219	31,569	46,078	8,395	10,958	22,016	32,974
Bank do ..	24,094	28,263	55,987	85,250	23,259	28,376	52,401	80,777	25,565	30,557	59,789	90,346
Samulcotha do ..	1,43,984	2,36,526	4,52,550	6,89,076	1,37,254	2,26,859	4,23,922	6,50,781	1,36,356	2,22,456	4,06,310	6,28,766
Total ..	4,414	..	..	..	2,965	..	..	..	2,280	..	..	..
Deduct for dry crops ..	1,39,540	..	..	..	1,34,239	..	..	..	1,34,076	..	..	..
Net ..	1,38,917	..	..	..	1,32,454	..	..	..	1,28,860	..	..	..
Area as per P.W.D. Registers ..	..	..	..	..	..	..	..	..	..	..	..	..
<i>Central Delta.</i>												
Narasapur Canal ..	38,457	74,562	1,32,567	2,07,129	37,820	72,652	1,30,537	2,03,189	37,428	69,428	1,27,832	1,97,260
do ..	10,462	17,556	30,765	48,301	10,203	16,938	31,000	47,938	10,367	16,864	30,727	46,591
Bendapur Canal ..	22,293	32,632	68,370	1,01,002	22,476	32,844	73,127	1,05,971	22,667	31,566	73,851	1,05,417
East Bank do ..	23,776	30,488	70,687	1,04,175	24,140	30,869	72,172	1,03,041	24,074	31,613	74,900	1,06,513
Amalapur do ..	4,813	6,517	17,702	24,219	5,198	5,467	12,669	18,136	..	..	..	..
Gunnarum do ..	9	..	..	..	1	..	..	..	..	..	..	..
Rallce do ..	99,810	1,61,742	3,20,109	4,81,851	97,338	1,58,770	3,19,506	4,78,276	98,402	1,53,700	3,22,474	4,76,174
Total ..	4,303	..	..	..	1,576	..	..	..	2,042	..	..	..
Deduct for dry crops ..	95,507	..	..	..	96,262	..	..	..	96,360	..	..	..
Net ..	95,167	..	..	..	91,756	..	..	..	93,000	..	..	..
Area as per P.W.D. Registers ..	..	..	..	..	..	..	..	..	..	..	..	..
<i>Western Delta.</i>												
Narasapur Canal ..	57,379	85,320	1,62,900	2,48,220	58,253	86,837	1,69,510	2,76,347	60,373	89,672	1,88,302	2,76,074
do ..	10,309	13,742	33,000	46,832	85,466	68,199	1,00,507	1,58,706	34,774	55,658	1,00,321	1,55,979
Velpur do ..	24,928	44,695	66,381	1,11,076	11,481	30,860	45,621	76,371	12,938	32,848	60,600	83,448
Goswamdy Canal ..	11,224	30,132	44,675	74,807	11,481	30,860	45,621	76,371	12,938	32,848	60,600	83,448
Makkamala do ..	10,614	23,039	41,573	64,612	7,167	16,255	29,161	45,498	7,139	16,145	28,867	44,012
Bank do ..	23,324	33,390	74,833	1,08,223	24,023	32,152	75,110	1,07,262	24,283	32,044	76,081	1,08,725
Attali do ..	..	..	..	..	..	..	..	..	..	..	..	..

Yonkara and Wyeeru Canal ..	44,443	23,773	63,983	87,756	46,458	22,062	60,854	82,916	49,416	22,931	60,679	83,610
do ..	39,428	44,998	75,439	1,20,437	44,042	54,871	83,936	1,48,807	45,183	57,026	93,982	1,51,008
Undi High Level do ..	43,723	35,501	1,39,114	1,74,615	44,716	35,901	1,42,027	1,77,928	47,492	36,639	1,50,971	1,87,610
Ellore do ..	1,422	..	..	..	470	..	704	735	665	87	839	926
Man do ..	..	..	..	..	2,974	4,439	11,333	15,792	2,793	4,278	10,482	14,760
Yenamadduru Drainage ..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	2,70,884	3,34,650	7,22,701	10,57,351	2,78,050	3,41,627	7,48,663	10,90,290	2,84,947	3,45,928	7,61,124	11,07,052
Deduct for dry crops ..	2,150	..	..	..	..	..	..	..	2,811	..	..	..
Net ..	2,68,734	..	..	..	..	..	..	..	2,82,136	..	..	..
Area as per P.W.D. Registers ..	2,44,745	..	..	..	2,57,439	..	..	..	2,70,830	..	..	..
Grand Total ..	5,14,618	7,32,918	14,95,360	22,68,278	6,13,142	7,27,256	14,92,091	22,19,347	6,19,705	7,22,084	14,89,908	22,11,992
Deduct for dry crops ..	10,867	..	..	..	4,541	..	..	..	7,133	..	..	..
Net ..	5,03,751	..	..	..	6,08,601	..	..	..	6,12,572	..	..	..
Area as per P.W.D. Registers ..	4,78,829	..	..	..	4,81,649	..	..	..	4,92,780	..	..	..

(Signed) J. BEATTY, Major, R.E.,
Offg. Suptg. Engr., Godavery.

DOWLAISHWERAM,
27th February 1877.

Proceedings of the Madras Government, Public Works Department,
16th March 1877. No. 883.

No. 136—W.

No. 383-A. Note by the Chief Engineer for Irrigation.

The general results exhibited in this return are as follow :—

	Area.	Assessment.	Water-tax.	Total.
	ACRES.	RS.	RS.	RS.
Eastern Delta—1283 (1873-74) ...	1,39,540	2,36,526	4,52,550	6,89,076
1284 (1874-75) ...	1,34,289	2,26,859	4,23,922	6,50,781
1285 (1875-76) ...	1,34,076	2,22,456	4,06,310	6,28,766

Taking 1283 for the standard of comparison the falling off was in—

	ACRES.	RS.
1284 ...	5,251	38,295 W. T.
1285 ...	5,464	60,310 "

It further appears that the average water-rate was in—

	RS.
1283 ...	3-24 an acre.
1284 ...	3-16 "
1285 ...	3-03 "

indicating an insufficient water-supply in addition to a smaller area irrigated.

	Area.	Assessment.	Water-tax.	Total.
	ACRES.	RS.	RS.	RS.
Central Delta—1283 (1873-74) ...	95,507	1,61,742	3,20,109	4,81,851
1284 (1874-75) ...	96,262	1,58,770	3,19,506	4,78,276
1285 (1875-76) ...	96,360	1,53,700	3,22,474	4,76,174

Compared with 1283 the other fasli show for—

	ACRES.	RS.
1284 ...	755 (Increase)	603 (Decrease) W. T.
1285 ...	853 (")	2,365 (Increase) "

The average water-rates were—

	RS.
1283 ...	3-35 an acre.
1284 ...	3-32 "
1285 ...	3-35 nearly an acre.

The variations in this delta, for which as yet completion estimates have not been sanctioned, are probably only such as are to be expected.

	Area.	Assessment.	Water-tax.	Total.
	ACRES.	RS.	RS.	RS.
Western Delta—1283 (1873-74) ...	2,44,745	3,34,650	7,22,701	10,57,351
1284 (1874-75) ...	2,57,439	3,41,627	7,48,663	10,90,290
1285 (1875-76) ...	2,82,136	3,45,928	7,61,124	11,07,052

Compared with 1283 the increase in the following years was—

	ACRES.	RS.
1284 ...	12,694	25,962 W. T.
1285 ...	37,391	38,423 "

Proceedings of the Madras Government, Public Works Department,
16th March 1877. No. 883.

The average water-rates were—

	RS.
1283 ...	2-95 an acre.
1284 ...	2-91 "
1285 ...	2-70 "

The falling off in average rate in the last fasli is a matter which should be inquired into. It will be seen that the average rate is considerably lower in the western than in the other deltas, and this is partly due to lands irrigated free of charge, and also to the very considerable areas which are charged for at an extremely low rate, and no explanation of this has hitherto been obtained.

2. The detailed statements for this delta to be furnished by the Board of Revenue under G.O., Revenue Department, No. 912, dated 6th July 1876, Public Works Department No. 2,069, dated 11th August 1876.

have not yet been received. They will give such details as will enable a much more accurate investigation of the circumstances of the irrigation under any particular canal to be made, but it is uncertain when they will be ready, and for administrative purposes the early elucidation of leading features of a year's irrigation is of importance. These papers have, therefore, been examined in some detail.

3. It will be noticed that the variations in assessment are considerable. These are beyond the influence of Canal Officers, but they should be noticed in the annual reports on the Delta revenue.

FORT ST. GEORGE,
7th March 1877.

(Signed)

JOHN MULLINS, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 384.

ORDER THEREON, 16th March 1877, No. 883.

IRRIGATION, No. 31.

RECORDED, and communicated to the
Superintending Engineer, Godavery, who
will give attention to the points noticed

by the Chief Engineer for Irrigation, and refer to them in reviewing the statements
for 1876-77.

(True Extract.)

Lieut.-Colonel, R.E.,
Secretary to Government, P.W.D.

To the Superintending Engineer, Godavery.
Kistna.

" Chief Engineer for Irrigation.
" Revenue Department.

Exd. E. C. Shunker.

Spare Copies

No. 3415

DISTRICT ENGINEER'S OFFICE GODAVERY.

DOWLAISHWERAM, 24 February 1877

Read the following for Govt. - 7

From

Major J. Beatty R.E.

Offr. Superintending Engineer Goddy

To

Lieutenant Col. J. Mullins R.E.

Chief Engineer & Secretary to Govt. P.W.D.
Madras

Sir,

With reference to para 6 of my letter embodied in G.O. No. 184 of 20th ultimo, I have the honor to forward herewith an Abstract of Irrigation Registers for Suse 1285 or 1875/76, prepared from the State-ments received from the Collector, showing the irrigated area, Assessment and Water rates separately; from which it will be seen that the decrease in the Eastern Delta was only 213 acres instead of 3594 as shown by the returns obtained from the Range Officers -

2. The Revenue Registers are no doubt accurate, at least as to the totals for Ranges,

2
9

Ranges, though there may be and doubt-
-less often are errors in the totals for ca-
-nals; and the explanation of the smaller
figures given by the Range Officers is simp-
-ly that those they obtain from the Har-
-bours of Villages are often incorrect -

3. For convenience of reference the
irrigated areas &c for fiscal 1283 and
1284 are shown in the Abstract now sub-
-mitted -

4. The same causes that were at work
in 1284 to produce a decrease in the Cas-
-tern Delta, continued in action in 1285,
and it is hoped that when the Collec-
-tor's figures for 1286 are obtained they
will show some recovery in that Delta,
because the chief reason of the decrease,
viz, water being given late, was removed.
In 1876 all the Canals were opened on
or before 24th May -

I have the honor to be
Sir

Your Most Obedt. Servant

L. Peatty. Major R.E.

Offr. Superintending Engrs G. & F.

Compt. by
D.D.

Canals	1283			1284			1285		
	Area	Revenue - rent tax	Total Area	Revenue - rent tax	Total Area	Revenue - rent tax	Total Area	Revenue - rent tax	Total Area
Eastern Delta									
Kocanada Canal	38,806	640.27	112,780	176,807	38,903	66,672	111,002	176,674	38,677
Coringa	26,370	47,476	88,216	133,692	24,829	44,457	81,166	125,628	26,452
Mundafatta	29,078	60,780	113,287	174,067	26,686	57,283	104,198	161,481	25,110
Myiram	13,851	17,794	46,659	64,453	13,638	16,852	43,296	60,148	12,757
Bank	11,755	18,186	36,621	54,807	9,939	14,219	31,859	46,078	8,395
Samulcotha	24,094	28,263	56,987	85,250	23,259	28,376	52,401	80,777	25,565
Total	143,952	2,36,526	1,52,550	689,076	1,37,254	226,859	1,23,922	650,781	1,36,356
Net.	4,414	Deduct for dry crops	2,965	Deduct for dry crops	2,965	Deduct for dry crops	2,280	Deduct for dry crops	2,280
	139,540		134,289	Net.	134,289	Net.	134,076	Net.	134,076
	138,917	Area as per D.M. Register.	132,454	Area as per D.M. Register.	132,454	Area as per D.M. Register.	128,860	Area as per D.M. Register.	128,860

Central Delta									
Nagarani Canal	38,457	74,562	132,567	207,129	37,820	72,652	130,537	203,189	37,428
Budamurikunta	10,462	17,536	30,765	48,301	10,203	16,938	31,000	47,938	10,367
East Bank	22,293	32,632	68,370	101,002	22,476	32,844	73,127	105,971	22,667
Amalapur	23,776	30,488	70,687	101,175	24,140	30,869	72,172	103,041	24,074
Gunnam	4,813	6,517	17,702	24,219	3,198	5,167	12,669	18,136	3,866
Rallu	9	7	18	25	1	1	1	1	1
Total	99,810	161,742	320,109	481,857	97,838	158,770	319,506	478,276	98,402
Net.	4,303	Deduct for dry crops	1,576	Deduct for dry crops	1,576	Deduct for dry crops	2,042	Deduct for dry crops	2,042
	95,507	Net.	96,262	Net.	96,262	Net.	96,360	Net.	96,360
	95,167	Area as per D.M. Register	91,756	Area as per D.M. Register	91,756	Area as per D.M. Register	93,090	Area as per D.M. Register	93,090

Western Delta									
Kursapur Canal	57,379	85,320	182,900	268,220	58,253	86,837	189,570	276,347	60,373
Elapur	10,399	13,742	33,090	46,832	35,466	58,199	100,507	158,706	34,744
Stanaddy	20-24,928	44,695	66,381	111,076	35,466	58,199	100,507	158,706	34,744
Mukkamala	20-11,224	30,132	44,675	74,807	11,481	30,850	45,521	76,371	12,928
Bank	20-10,614	23,039	41,573	64,612	7,167	16,265	29,161	45,426	7,139
Attali	20-23,324	33,390	74,833	108,223	24,023	32,152	75,110	107,262	24,283
Venkayya & Wageru	44,443	23,773	63,983	87,756	49,458	22,062	60,854	82,916	49,416
Mudi High Canal	20-39,428	44,998	75,439	120,437	44,042	54,871	93,936	148,807	45,183
Ellore	20-43,723	35,501	139,114	174,615	44,716	35,901	42,027	177,928	47,492
Main	20-14,22	60	713	773	470	31	704	735	565
Gunnamaduru drainage					29,74	44,59	11,333	15,792	2,793
Total	270,884	334,650	722,701	1,057,357	278,850	34,162	748,663	1,090,290	284,947
Net.	2,150	Deduct for dry crops							
	2,68,734	Net.							
	2,44,745	Area as per D.M. Register	2,57,439	Area as per D.M. Register	2,57,439	Area as per D.M. Register	2,70,830	Area as per D.M. Register	2,70,830

Grand Total	674,648	732,918	14,95,360	22,68,788	573,142	72,725	14,92,091	22,19,347	51,970
Net.	108,67	Deduct for dry crops	4,541	Deduct for dry crops	4,541	Deduct for dry crops	7,133	Deduct for dry crops	7,133
	503,781	Net.	508,601	Net.	508,601	Net.	512,572	Net.	512,572
	478,829	Area as per D.M. Register	481,649	Area as per D.M. Register	481,649	Area as per D.M. Register	492,780	Area as per D.M. Register	492,780

Doree Lachinuram }
 27 February 1877 }
 comp^d by
 Dr.

L. Peartley - Major R.E.
 Offg. Superintending Engineer Godavari

P.W.D.
2202

[Handwritten notes in vertical columns, likely a ledger or record book, containing various numbers and text.]

Q. 16th March 1877 J.B. 2983

E. L. Form No. 18.

OFFICE OF CHIEF ENGINEER FOR IRRIGATION,

No. 136.W.

Fort St. George,

13th March 1877.

Note by the Chief Engineer for Irrigation.

Enclosures. 2.

The general results exhibited in this return are as follows.

	area.	assess	water Tax	Total
	acres.	Rupies.	Rupies.	Rupies.
Eastern Delta: 1283 (1873-74)	139540	226526	452550	689076
1284 (1874-75)	134289	226889	426922	657781
1285 (1875-76)	134076	222456	406310	628766

Taking 1283 for the standard of comparison the falling off was in

1284	acres 5257	Rupies 38295 W.T.
1285	acres 5464	Rupies 60310

It further appears that the average water was in 1283

1283	Rupies 3.24 an acre
1284	" 3.26 do.
1285	" 3.03 do.

indicating an insufficient water supply in addition to a smaller area irrigated.

Central Delta

Area. Acreage. Water Tax. Total
 Central Delta. 1283 (1873-74) 95,507 - 161,742 - 329,109 - 4,81,858
 1284 (1874-75) 96,262 - 158,770 - 319,506 - 4,78,276
 1285 (1875-76) 96,360 - 153,700 - 322,474 - 4,76,174

Compared with 1283, the other Fusli shows for

1284 acres 755 (Increase) Rupees 603 (Decrease) W.T.
 1285 — " — 853 (Increase) — " — 2365 (Increase) W.T.

The average water rates were

1283 Rupees 3.35 an acre
 1284 — " — 3.32 — do —
 1285 — " — 3.35 nearly — do —

The variations in this Delta for which as yet
 Completion estimates have not been sanctioned
 are probably only such as are to be expected.

Area. Acreage. Water Tax. Total
 Western Delta. 1283 (1873-74) 244,745 - 334,650 - 722,701 - 70,57,381
 1284 (1874-75) 257,489 - 341,627 - 748,563 - 70,90,290
 1285 (1875-76) 252,736 - 345,928 - 761,124 - 71,07,052

Compared with 1283 the increase in the following
 years was.

1284 acres 12,694 Rupees 25,962 W.T.
 1285 — " — 37,391 — " — 38,423 — " —

The average water rates were 15

1283 Rupees 2.95 an acre
 1284 — " — 2.91 — do —
 1285 — " — 2.70 — do —

The falling off in average rate in the
 last Fusli is a matter which should
 be enquired into. It will be seen that
 the average rate is considerably lower
 in the Western than in the other Deltas
 and this is partly due to lands irrigated
 free of charges and also to the very consider-
 able areas which are charged at an
 extremely low rate and no explanation
 of this has hitherto been obtained

vide P.M. G. No 3219
 dated 13 November 1874
 Note para 2 Clause 3

P.W.D. No 2069
 d/11th Aug. 1876.

2. The detailed statements for this
 Delta to be furnished by the Board of
 Revenue under G.O. Rev. Dept. No 912 dated
 6 July 1876, have not yet been received.
 They will give such details as will enable
 a much more accurate investigation
 of the circumstances of the irrigation
 under any particular Canal to be made,
 but it is uncertain when they will
 be ready and for administrative purposes
 the early elucidation of leading features
 of a year's irrigation is of importance.

Shree

It will be noticed that the variations in assessment are considerable. These are beyond the influence of Canal officers, but they should be noticed in the annual reports on the Delta Revenue.

It will be noticed that the variations in assessment are considerable. These are beyond the influence of Canal officers, but they should be noticed in the annual reports on the Delta Revenue.

P.M. 4. 422069 of 11th
aug 176 — G.O. Rev. Sept.
Para 21. vide also P.M. 4.
17th June 176 421504.

Wm. L. ...
Chief Engineer for Irrigation.

The Secretary to Public Works Dept.

Public Works Dept.

hP

The first thing I noticed
 when I stepped out
 of the car was the
 smell of the sea. It was
 a salty, bracing scent
 that I had never before.
 The air was cool and
 clear, a stark contrast
 to the humid, stifling
 atmosphere of the city.
 I took a deep breath,
 savoring the freedom
 of the open air. The
 sun was shining brightly,
 casting a warm glow
 over everything. I felt
 a sense of peace and
 tranquility that I had
 never experienced before.

20.7.74
 18.6.76
 19.7.76
 20.8.76
 21.9.76
 18.10.77

E. I. Form No. 18.

P.W.D.

2561

From
The Chief Engineer for Irrigation,

To
The Secretary to Government,
Public Works Department.

Dated 7th March
 Despatched 9th March
 Received 1877

ENCLOSURE

No. 136. W.

Subject.

Irrigation Registers - for District -
 Godavery District. - Note submitting
 abstract of - prepared from State-
 ments from the Collectors, showing the irri-
 gated area, Assessment &
 water rates.

383 A.

12.3.77

E. I. Form No. 22.

No 888

19
 Public Works Department.

PROCEEDINGS of the MADRAS GOVERNMENT.

UNDER date the 16 March 1877

Read the following:—

The Off. Supers. Engineer, Godavery. / H.E. No. 3415 of 24 Febry. 1877/
 Note by the Chief Eng. for Irrig. / H.E. No. 136 - W. of 7 March 1877.

Recorded and
 Communicated to the Super-
 intending Engineer Godavery
 who will give attention
 to the points noticed by
 the Chief Engineer for
 Irrigation and refer to them
 in reviewing the statements
 for 1876-77.

MR
 14/3

The Suprs Eng. Godavery. ✓
 " " District ✓
 Chief Eng. for Irrig. ✓
 Revenue Department. ✓

12/3
 5 April 77

Sub

