

(1) Number of pages 1-12(2) Date of repair 21.12.11(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. <u>1467</u>	Press
<u>516-11</u>	~~Mis.~~
Dated <u>30</u> <u>5</u>	<u>18</u> <u>11</u>

Not to be folded or roughly handled

No. 510. Read the following Proceedings of the Board of Revenue, dated 4th April 1871, No. 1,484:—

Read the following letter from the Collector of Nellore, to the Acting Secretary to the Board of Revenue, dated 3rd March 1871, No. 415.

I HAVE the honour to acknowledge the receipt of the correspondence marginally noted calling for a detailed report on the extension of irrigation under the Pennair anicut during the last nine years, distinguishing how much is due to extension of irrigation to lands formerly wet, how much to conversion of dry into wet, and how much to second crop, etc., and referring to any losses from sowdu, objection to take water, etc. The Board further desire information as to the enhancement in the value of private landed property due to the extension of irrigation.

2. As already reported to the Board, the returns annually submitted hitherto were incomplete, and did not include water-rate charged on Shrotriem and Kandrika lands, owing to the measurement of these lands not having been completed by the time the Tahsildars sent in their returns to this office. The Tahsildars of Gudur and Nellore were directed to revise the returns hitherto submitted, and to submit fresh returns for all the nine years, taking care that all items which ought to be included were duly taken into account. Enclosure marked A is a statement prepared from the talook returns in the same form in which the results have been hitherto rendered, and the following abstract thereof shows the results as now arrived at in comparison with those previously recorded:—

Proceedings of the Madras Government, Public Works Department,
30th May 1871.

Years.	NELLORE TANK.						ANICUT.					
	Former return.			Present return.			Former return.			Present return.		
	ACRES.		RS.	ACRES.		RS.	ACRES.		RS.	ACRES.		RS.
1861-62 ...	5,320	13,893	22,228	5,816	22,228	8,335	34,533	1,16,061	35,534	1,19,701	1,001	3,640
1862-63 ...	5,404	14,962	24,174	6,172	24,174	9,212	35,638	1,36,643	36,091	1,37,777	453	1,134
1863-64 ...	5,464	15,487	22,057	5,616	22,057	6,570	39,505	1,59,588	39,577	1,59,719	72	131
1864-65 ...	5,588	16,369	18,782	6,457	18,782	2,413	40,957	1,70,896	41,086	1,72,779	129	1,883
1865-66 ...	5,578	16,156	18,312	6,306	18,312	2,156	41,841	1,77,124	41,204	1,73,200	-637	-3,924
1866-67 ...	6,122	16,948	20,529	7,433	20,529	3,581	52,097	1,92,206	53,278	1,97,632	1,181	5,366
1867-68 ...	5,523	14,764	18,585	6,545	18,585	3,821	51,441	1,77,771	51,856	1,81,326	415	3,555
1868-69 ...	6,493	16,589	20,306	7,439	20,306	3,717	57,286	1,94,781	57,860	1,97,108	574	2,327
1869-70 ...	8,036	21,906	22,210	8,080	22,210	304	63,953	2,24,208	55,128	2,09,838	-8,825	-14,370
Total...	53,828	1,47,074	1,87,183	59,864	1,87,183	40,109	417,251	15,49,368	411,614	15,49,110	-5,637	-258
Average...	5,981	16,342	20,798	6,652	20,798	—	46,361	1,72,152	45,735	1,72,123	—	—

Proceedings of the Madras Government, Public Works Department,
30th May 1871.

3. In revising the returns of past years a mistake was observed. The village of

Years.	Acres.	RS.
1861-62 ...	614	3,322
1862-63 ...	705	3,265
1863-64 ...	782	4,166
1864-65 ...	796	4,324
1865-66 ...	864	4,584
1866-67 ...	986	4,453
1867-68 ...	1,052	4,391
1868-69 ...	1,192	4,651
1869-70 ...	1,466	5,986

Utukur in the Nellore Talook is situated partly south and partly to the north of the Pennair. It is only the southern portion that is irrigated from the anicut. But in the returns hitherto submitted the area of the whole village was erroneously entered. The extent and assessment of the tract on the north of the river thus erroneously included are

detailed in the margin. They have been excluded from the present return.

4. In the return submitted for 1869-70 a further error was detected, 8,036 acres, assessed at Rupees 21,906, irrigated under the Nellore tank, were included in the area returned under that tank, and again in the area under the anicut also. This mistake has now been corrected.

5. After making the above deductions, and including the water-rate on Shrotriem, etc., lands which has been hitherto excluded, the results under the Nellore tank exhibit a considerable increase in each year, while the results under the anicut show a net decrease of 5,637 acres in the area, and of Rupees 258 in the assessment on the totals of the nine years as hitherto reported.

6. As the accounts of nine years had to be examined, and the statements received from the Tahsildars had to be returned to them several times for revision, the submission of this report has been delayed. The Tahsildars were directed to see that the figures now rendered tallied in each case with the Jammahbundy statements, and I have reason to believe that the return now submitted represents the results accurately.

7. The statement A. referred to shows the results under the Nellore tank and the anicut separately for a period of ten years previous to the completion of the anicut. The results from 1861-62, when the anicut was completed, up to the end of last year (1869-70) are also

Total difference.		Anicut.	Nellore tank.
Average annual revenue after the completion of the anicut.	RS.	RS.	
Do. prior to do. ...	1,04,934	13,297	
Difference...	67,189	7,501	
	9	9	
	6,04,701	67,509	6,72,210*

Expenditure.		RS.
Before the completion	...	3,36,073
After the do.	...	4,17,780
Total...		7,53,853†

profit minus charge for interest will thus be found to be Rupees 6,72,210,* against a capital expenditure from first to last of Rupees 7,53,853.†

*Proceedings of the Madras Government, Public Works Department,
30th May 1871.*

8. The statement marked B. enclosed herein shows the single and double crop irrigation of Government and Inam lands, as well as water-rate charged on dry converted into irrigated land during the last nine years. Similar details for the ten years preceding the completion of the anicut not being available, the actual results under the several heads referred to, after the completion of the anicut, cannot be compared with those of the corresponding items prior to its construction. The statement B. therefore simply exhibits the progress of irrigation since the completion of the anicut.

9. The rule which Mr. Dykes adopted, of accepting applications for land at wet rates alone and the introduction of survey areas, render it difficult to ascertain precisely the area formerly entered as irrigated. A considerable extent of land which would have been given at dry rates has been occupied as wet and irrigated. The second crop cultivation in the district generally is very limited in extent, for the reasons given in letter dated 1st March 1869, No. 511.

10. In 1861-62, when the anicut was completed, 453 acres of dry land entered as ryotwar, and 121 acres of Inam land were converted into wet by means of the anicut irrigation. During last year, or eight years after the completion of the anicut, we have 2,200 acres of Government and 1,884 acres of Inam dry land so irrigated. The supply prior to the construction of the anicut was so precarious, as to justify the supposition that the conversion of dry land into wet is wholly attributable to the improved system of irrigation.

11. There may be lands left uncultivated as sowdu; but if there are, the instances are so few that the Tahsildars do not consider them of sufficient importance to be noticed.

12. Where water is available it has been freely made use of, and objections to take it are unknown. Lands situated at high levels, and not easily accessible to water, are sometimes left waste. Mr. Dykes was in the habit of charging such waste in the villages irrigated by the Nellore tank and the anicut. The waste thus charged is included in the statements referred to, and ranged in extent from 600 to 3,700 acres. Such waste lands were no doubt profitably utilized as pasture.

13. The Gudur Tahsildar gives 30 Rupees as the average selling value per acre. The Nellore Tahsildar thinks that the price has risen 50 per cent. But neither of them has recorded any instances of sales. The ryots seem to have neither desire nor occasion to sell their lands, and sales have consequently been very rare. The sales of land for arrears of revenue are, as a rule, almost nominal, and no conclusion can be drawn from the results. Such lands are usually of very inferior quality.

ENCLOSURES Nos. 1 and 2.—Statements.

SUBMITTED to Government, with reference to Government Order, dated 29th November 1870, No. 2,882.

2. The inquiries which have now been made into the revenue history and statistics of the Pennair project have brought to light mistakes which with the

*Proceedings of the Madras Government, Public Works Department,
30th May 1871.*

addition of the rate on Shrotriems and Kandrikas affect the figures already submitted though not materially.

3. Thus the figures given in paragraph 2 of the Government Order should be altered thus:—

Average cultivation under the Nellore tank above the influence of the anicut from 1861-62 to 1869-70	Acres.	Assessed at Rupees.
...	6,652	20,798
Average cultivation within the influence of the anicut...	45,735	1,72,123
		1,92,921
Average cost of repair		8,310
		1,84,611
Average net revenue prior to completion of the anicut		94,360
		90,251
Average increase of revenue		

A statement is submitted for the first time showing the revenue obtained since the anicut was made under the following heads:—

Government land	Single crop.
	Second „
	Dry converted into wet.
Inam	Single crop.
	Second „
	Dry converted into wet.

The revenue from the area under the influence of the anicut has been derived thus:—

Fuslies.	Single crop.	Second crop.	Dry converted into wet.	Waste charged.
	RS.	RS.	RS.	RS.
1271	1,15,062	723	2,322	1,595
1272	1,16,526	349	3,283	7,619
1273	1,42,678	392	8,770	7,879
1274	1,52,687	261	11,260	8,571
1275	1,53,390	208	9,296	10,306
1276	1,74,543	242	13,060	9,817
1277	1,67,202	470	9,734	3,920
1278	1,70,089	808	10,064	15,607
1279	1,79,101	799	16,189	13,149

No. 511.

ORDER THEREON, 30th May 1871, No. 1,467.

IRRIGATION, No. 30.

RECORDED with reference to G. O.,
No. 2,882, dated 29th November 1870.

*Proceedings of the Madras Government, Public Works Department,
30th May 1871.*

2. The corrected statement of irrigation under the Pennair anicut works and the Nellore tank is as follows:—

	IRRIGATED UNDER THE NELLORE TANK ABOVE THE LEVEL OF THE ANICUT WORKS.		IRRIGATED UNDER THE ANICUT WORKS.		EXPENDITURE ON THE ANICUT AND ALL WORKS CONNECTED WITH IT INCLUDING NELLORE TANK.		
	Area.	Revenue.	Area.	Revenue.	New Works.	Repairs.	Total.
	ACRES.	RS.	ACRES.	RS.	RS.	RS.	RS.
1851-52 ...	3,506	14,983	26,154	1,21,543		3,495	3,495
1852-53 ...	3,265	14,338	23,600	1,07,609		4,527	4,527
1853-54 ...	1,926	8,693	11,857	52,397		12,505	12,505
1854-55 ...	2,821	12,263	18,152	79,941	89,494	18,125	1,07,619
1855-56 ...	3,260	13,597	24,567	1,14,207	16,559	14,611	31,170
1856-57 ...	3,548	14,966	28,224	1,30,051	8,935	20,410	29,345
1857-58 ...	3,221	12,089	19,842	81,211	20,862	34,869	55,731
1858-59 ...	3,550	14,223	30,382	1,24,523	55,129	64,651	1,19,780
1859-60 ...	3,377	14,670	30,778	1,28,714	52,667	40,908	93,575
1860-61 ...	5,310	13,152	33,980	1,09,148	92,427	24,607	1,17,034
		1,32,974		10,49,344	3,36,073	2,38,708	5,74,781
1861-62 ...	5,816	22,228	35,534	1,19,701	68,138	6,845	74,983
1862-63 ...	6,172	24,174	36,091	1,37,777	57,246	3,884	61,130
1863-64 ...	5,616	22,057	39,577	1,59,719	44,114	7,775	51,889
1864-65 ...	6,457	18,782	41,086	1,72,779	27,386	4,124	31,510
1865-66 ...	6,306	18,312	41,204	1,73,200	10,546	7,394	17,940
1866-67 ...	7,433	20,529	53,273	1,97,662	8,891	9,611	18,502
1867-68 ...	6,545	18,585	51,856	1,81,326	67,235	11,069	78,304
1868-69 ...	7,439	20,306	57,860	1,97,108	73,412	19,662	93,074
1869-70 ...	8,080	22,210	55,123	2,09,838	60,762	4,429	65,191
		1,87,183		15,49,110	4,17,730	74,793	4,92,523

(True Extract.)

Captain, R.E.,

Acting Joint Secretary to Government.

To the Superintending Engineer, 2nd Division.
,, Revenue Department.
,, Chief Engineer for Irrigation.

Exd. F. C. Shunker.

MEMORANDUM.

REQUESTED for reference the undermentioned paper on the subject of *irrigation*
under the Pennair Anicut:—

*The 2 original enclosures (statements A & B)
forwarded to Govt. with Board's Proceedings
4th April 1871 No. 1484, and not returned with
G. O. 30th May 1871 No. 1467 P. W. D.*

REVENUE BOARD OFFICE,

30th October 1874.

Registrar.

To

The Registrar, Govt. Office
Public Works Dept.

Public Works Department
 Proceedings of the Madras Government.
 Under date the 30 May 1871
 Read the following

From The Secy of the Bd. of Revs. P.W. E. No. 1484 of 4th April 1871

Recorded with reference
 to G.O. No. 2882 dated 27 Nov 70.

The correct statement of
 Irrigation under the Ponnair
 ancient works and the Kellore
 tank is as follows:-

Irrigated under the Kellore Tank alone
 the level of the
 ancient works

Irrigated under the
 ancient works

Expenditure on the
 ancient and all works
 connected with the
 including Kellore Tank.

	Area	Revenue	Area	Revenue	New works	Repairs	Total
	Aores	Rupies	Aores	Rupies			
1851-52	3506	14,983	26154	1,21,543	-	3495	3495
3	3265	14,338	23600	1,07,609	-	4527	4527
4	1926	8,693	11857	52,397	-	12,505	12,505
5	2821	12,263	18152	79,941	89494	18,125	1,07,619
6	3260	13,597	24,567	1,14,207	16,559	14,611	31,170
7	3548	14,966	28,224	1,30,051	8935	30,410	39,345
8	3221	12,089	19842	81,211	20,862	34,869	55,731
59	3550	14,223	30,382	1,24,523	55,129	64,651	1,19,780
60	3377	14,670	30,778	1,28,714	52,667	40,908	93,575
61	5310	13,152	33,980	1,09,148	92,427	24,607	1,17,034
		1,32,974		10,49,344	336,073	338,026	5,74,779
1861-62	5816	22,228	35,534	1,19,701	68138	6845	74,983
63	6172	24,174	36,091	1,37,777	57,246	3884	61,130
64	5616	22,057	39,577	1,59,419	44,116	7775	51,899
65	6457	18,782	41,086	1,72,779	37,386	4826	31,510
66	6306	18,312	41,204	1,73,200	10,546	7394	17,920
67	7423	20,529	53,278	1,97,662	8891	9611	18,502
68	6545	18,585	51,856	1,81,326	67,335	11,069	78,354
69	7437	20,306	67,860	1,97,188	73,412	17,662	93,074
70	8080	32,210	55,128	2,09,888	60,762	4429	65,191
		1,87,183		15,49,116	417,730	74,778	4,92,523

By The Super Engineer 2nd div.
 P.W. Department
 Chief Engineer for Irrigation

By Secy 1/6/71

1773

Govt of 1871 Madras.

PUBLIC WORKS.

To the Inspecting Engr
2nd Division

Dated

21.5

Recd.

Encl. 2

G. O. 20th May 1871, No 1467.

Nos. 510 1511

General order of the

Government of Madras

in relation to the

Public Works Department

and the

Public Works Department

and the

Public Works Department

and the

Public Works Department

and the

1871	1872	1873	1874
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2167	2168	2169	2170
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2199	2200	2201	2202
2203	2204	2205	2206
2207	2208	2209	2210
2211	2212	2213	2214
2215	2216	2217	2218
2219	2220	2221	2222
2223	2224	2225	2226
2227	2228	2229	2230
2231	2232	2233	2234
2235	2236	2237	2238
2239	2240	2241	2242
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2247	2248	2249	2250
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2255	2256	2257	2258
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2307	2308	2309	2310
2311	2312	2313	2314
2315	2316	2317	2318
2319	2320	2321	2322
2323	2324	2325	2326
2327	2328	2329	2330
2331	2332	2333	2334
2335	2336	2337	2338
2339	2340	2341	2342
2343	2344	2345	2346
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2351	2352	2353	2354
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