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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No.
B.P. No.

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Dated

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*Proceedings of the Madras Government, Public Works Department,
5th January 1876.*

Nos. 41 & 42. Read the following endorsement of the Acting Secretary to Government, Revenue Department, dated 18th October 1874 :—

Proceedings of the Board of Revenue, dated 29th September 1874, No. 2,805.

Read the following letter from R. W. BARLOW, Esq., Collector of the Chingleput District, to J. GROSE, Esq., Secretary to the Board of Revenue, dated Sydapet, 26th August 1874, No. 451 :—

I HAVE the honor to forward the statement of irrigation under the Cholaveram and Red Hills Tanks for a series of years, as directed in G.O., No. 1,313, of the 27th November, and Board's Miscellaneous Proceedings of the 4th December last, No. 8,303. I regret, however, to state that I am unable to give the necessary statistics for the Cholaveram Tank for a longer period than the last seventeen years, as, from the report of the Tahsildar of Pennery, it seems that accounts for the previous three years are not forthcoming. As regards irrigation under the Red Hills Tank, I have given the statistics for twenty years for all villages under it but one, *viz.* Cosa-poor, and the Tahsildar reports that the accounts of this village, for Faslis 1270, 1271, 1272, and 1273 inclusive, are not forthcoming, though a careful search has been made for the same.

2. Adverting to the concluding part of paragraph 3 of the Chief Engineer's letter, printed in the Proceedings of Government quoted above, wherein he remarks "that the causes which have led to a decrease of cultivation, and particularly to the

grant of considerable remissions in Fasli 1281, should be inquired into," I may observe that there has been an increase in the actual cultivation of late years, and also in the net revenue, though there was a slight falling off in Fasli 1281, but this increase is nothing like

what was expected for the reasons stated further on.

3. The remissions granted in Fasli 1281 are due chiefly to a great deal of nunjah cultivation having been destroyed by floods, owing to the enormous quantity of water that was let out in that fasli to prevent the tank bursting.

4. It is to be remarked that the irrigation under the Red Hills and Cholaveram Tanks has not as yet been extended by cutting channels newly to any of those villages which were expected to be benefited by the project; but it is a question for calculation and consideration how far, if this was done, the supply of water would suffice for Madras, and for the extended cultivation.

5. As regards the apparent decrease of cultivation, noticed by the Chief Engineer in Faslis 1280, 1281, and 1282, as compared with Fasli 1276, I beg to remark that the figures of the former do not include (1) cultivation of nunjah minor inams in ryotwary villages; (2) the area irrigated in Zemindary and Shrotriem villages; (3) the area on which second-crop cultivation was raised in those faslis; whereas the figures of Fasli 1276, as given in Mr. Blair's report alluded to, includes the area of all these items, and further an amount was added, calculated at sixteen per cent. on the holding, as the approximate increased area likely to result from the new more accurate survey, and all these swelled the total to acres 5,559.

6. I may also add that the object of the figures given in Mr. Blair's report was to determine, as nearly as possible, the quantity of water required for irrigating the

	Actual culti- vation.	Assessment including Fasli duty and Pervan- juty.	Net Revenue after deduct- ing remis- sions.
	ACRES.	RS.	RS.
1280	3,329	14,167	13,299
1281	4,970	11,609	12,005
1282	4,194	15,108	14,915

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lands already entitled to it, and to see what supply would be available for Madras, after meeting the demand for irrigation, which is that aimed in the statement furnished by this office to the District Engineer in August last, on which the Chief Engineer's remarks as to decreased holding are based, was simply intended to show the net revenue of Faslî 1282, as compared with the two previous ones.

7. The statements now sent over do not include the extent of cultivation in Meettahs and Shrotriem villages, because it is not possible to separate the revenue due to irrigation in these cases from other sources; the peishush or the quit-rent collected being a lump sum fixed with reference to the average collections of a series of years on the entire villages.

Submitted to Government with reference to G.O., dated 27th November 1873, No. 1,313.

2. The Collector shows that the figures contained in Mr. Blair's report included the cultivation on wet minor inams; the area irrigated in Shrotriem and Zemindary villages, and the breadth under second-crop cultivation. But these items formed no part of the Collector's statement, and hence the difference remarked upon.

3. The heavy remissions in Faslî 1281 appear to have been owing to the damage done when allowing an enormous escape to prevent the bank breaching.

4. The Board would direct attention to the Collector's remark regarding nothing having been done towards extending the channels for new irrigation, now that the capacities of the reservoirs have been increased. If there is surplus water at any time it might be diverted into some of the many tanks lying below the Red Hills Tank.

5. It is observed from the report of the Director of Revenue Settlement now before the Board, that he has raised the grouping of the villages under these tanks owing to the certainty of the supply, and placed the assessment thus derived to the credit of the project.

(A true Copy and Extract.)

(Signed) J. GEORGE,
Secretary.

TRANSFERRED to the Public Works Department.

(Signed) C. G. MASTER,
Acting Secretary to Government.

No. 12-A. Read the following Proceedings of the Madras Government in the Revenue Department, dated 25th August 1875, No. 1,276:

Proceedings of the Board of Revenue, dated 23rd July 1875, No. 2,058.

Read the following Proceedings of the Madras Government, dated 9th June 1875, No. 1,221, Revenue Department.

Read the following Proceedings of the Madras Government, dated 2nd June 1875, No. 1,548, Public Works Department.

ABSTRACT.—*Madras Water Works Project*.—Passing orders on the Memorandum of the Chief Engineer for Irrigation affording some information as to points noticed by the Government of India relative to the

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ORDER THEREON, 9th June 1875, No. 1,221.

FORWARDED to the Board of Revenue with the request that they will be good enough to report at an early date on the points referred to in paragraphs 4 and 10 of the foregoing Order.

(True Extract.)

(Signed) LORNE A. CAMPBELL,
Under Secretary to Govt.

With reference to paragraph 4 of Government Order, Public Works Department, printed with the Order above read, the Board observe that the discrepancies therein referred to were explained in, and a statement of revenue forwarded with, the Board's Proceedings, dated 29th September 1874, No. 2,895. The Board, however, observe that the statement is slightly defective, since it does not show the assessment of dry lands, and the quit-rent of Inams, irrigated, both of which under the Order of Government, dated 25th July 1872, No. 1,766, Public Works Department, have to be treated as revenue due to irrigation. The Collector will, therefore, be separately requested to submit the statement in the form required by Government in their Order, dated 23rd March 1874, Public Works Department, No. 791.

2. The Collector's attention will be drawn to paragraphs 7 and 8 of the Government Order, Public Works Department, printed with the Order above read.

3. With reference to paragraph 10 of the Order just referred to, the Acting Director of Revenue Settlement in his report, about to be separately submitted to Government, on the resettlement of a tract in the Sydapet Taluk, which includes fifty villages under the influence of the Red Hill Tank, has furnished information which enables the Board to answer the questions now put. An extract from this report, which contains also suggestions as to the best method of utilizing the supply, is herewith submitted.

4. The area of waste in these villages is not large, and the land is of a very poor description. The tract is a poor one on the whole, and the people are not well off. Mr. Puckle doubts whether the land would fetch much at auction. It would have to be sold, under the terms of the settlement now made, subject to a swatantram, payable to mirassidars, of two Annas in the Rupee of assessment. The revised assessment has not yet come into operation; the lands are specially poor, and the people are as yet unacquainted with the benefits of good irrigation. Under these circumstances there would probably be a reluctance to buy, and the Board are, therefore, of opinion that the sale of the waste is not expedient.

5. The Board see no reason whatever for revising the Inam settlements in this tract by the imposition of additional charge for water supplied to wet lands, which they suppose is the intention of the Government Order. They have recently placed their views on this point and the grounds of them before Government in connection with the Sangam project, and there is nothing in the present case to render different treatment of the Inams possible.

6. From Mr. Puckle's report it will be seen that the wet lands in Government villages could bear, if furnished directly or indirectly, by means of Red Hill Tank water, with a regular and sufficient supply, an addition of Rupees 2 per acre to their present revised wet assessment, and that the dry lands could pay a water-rate of

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21. If the Red Hill Tank water is brought to these lands, the assessment of the existing mungai may be raised by at least half a water-rate, or by Rupees 2 an acre. This will give Rupees 21,666 on the 10,833 acres now cultivated, and if to this be added Rupees 40,000, at a full water-rate of Rupees 4 an acre, on the 10,000 acres of dry land to be irrigated, the total results will be Rupees 61,666 for one crop plus Rupees 11,772, the present single crop assessment of the 3,585 acres now irrigated by the Red Hill Tank.

(True Extract.)

(Signed) H. E. STOKES,

Acting Secretary.

COMMUNICATED to the Public Works Department, with reference to G.O. in that Department, dated 2nd June 1875, No. 1,548, for early attention and full report.

(True Extract.)

(Signed) A. MACGREGOR,

Acting Secretary to Government.

No. 42-B.

No. 1,439.

Note by the Chief Engineer for Irrigation.

THE Board of Revenue in the first paragraph of their Proceedings No. 2,053, of the 23rd July 1875, point out that, in their Proceedings of the 29th September 1874, No. 2,805, the discrepancies pointed out in Proceedings, Madras Government, No. 1,313, of the 27th November 1873, were explained. This was overlooked when the order of the 2nd June 1875, No. 1,548, was passed, and the undersigned regrets that very great carelessness in his office led to the Government being misinformed. The revised statements for the Madras Water Works, directed by the Board to be prepared, have not yet been received, but as a settlement has recently been made of the quantity of water to be reserved in the Red Hills Tank in connection with the supply of the town of Madras, information can be given as to the quantity likely to be available for irrigation.

2. In paragraph 19 of the extract from the report of the Acting Director of Revenue Settlement there are some material misapprehensions. He mentions that the Red Hills Tank contains 48 millions of cubic yards, that Madras takes 5 millions of cubic yards, and that the supply-channel has a continual flow. The facts are as follow:—

	Millions of Cubic Yards.
The Cholaveram tank holds	28.47
„ Red Hills do. do.	101.98
Total ...	130.45

In the Government Order quoted above the Government have directed that water is to be retained in the Red Hills Tank at 6 feet above the sill* of the lowest sluice of the Municipal off-take, and the quantity of water below this level† is 45.32, so that the water available for irrigation, if the tanks be only once filled annually, would be 85.13. Generally a great deal of additional water will be received, but this year it is possible or probable that the tanks will not be once filled, the Red Hills Tank being now more than 5 feet below the full level.

3. The storage of water in a tank required for the irrigation of an acre of land is in many cases more than the 6,000 cubic yards mentioned by the Acting Director,

Letter from the Acting Director of Revenue Settlement, to the Acting Secretary to the Board of Revenue, dated 11th Jan 1875, No. 1,439.

PARAGRAPH 19 of the Report of the Board of Revenue, in the first paragraph of their Proceedings No. 2,053, of the 23rd July 1875, point out that, in their Proceedings of the 29th September 1874, No. 2,805, the discrepancies pointed out in Proceedings, Madras Government, No. 1,313, of the 27th November 1873, were explained. This was overlooked when the order of the 2nd June 1875, No. 1,548, was passed, and the undersigned regrets that very great carelessness in his office led to the Government being misinformed. The revised statements for the Madras Water Works, directed by the Board to be prepared, have not yet been received, but as a settlement has recently been made of the quantity of water to be reserved in the Red Hills Tank in connection with the supply of the town of Madras, information can be given as to the quantity likely to be available for irrigation.

1. The Board of Revenue in the first paragraph of their Proceedings No. 2,053, of the 23rd July 1875, point out that, in their Proceedings of the 29th September 1874, No. 2,805, the discrepancies pointed out in Proceedings, Madras Government, No. 1,313, of the 27th November 1873, were explained. This was overlooked when the order of the 2nd June 1875, No. 1,548, was passed, and the undersigned regrets that very great carelessness in his office led to the Government being misinformed. The revised statements for the Madras Water Works, directed by the Board to be prepared, have not yet been received, but as a settlement has recently been made of the quantity of water to be reserved in the Red Hills Tank in connection with the supply of the town of Madras, information can be given as to the quantity likely to be available for irrigation.

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3. The storage of water in a tank required for the irrigation of an acre of land is in many cases more than the 6,000 cubic yards mentioned by the Acting Director,

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owing to the large quantity wasted by evaporation; but in these tanks of great area and considerable depth, in the larger of which, moreover, under the arrangements directed in connection with the supply of Madras, a considerable depth of water will always be maintained, evaporation will be less, while it will be probably more than compensated for by the additional surplus received from the river. Ere this, detailed information as to the supplies received in the last few years, and as to the extent and details of expenditure of water, should have been forthcoming; but the Superintending Engineer has not yet sent in his report for any year. Pending the receipt of the more definite information required, and looking to the low level of the land irrigated and to be irrigated, it may, it is thought, be assumed that the quantity* of water

* $130.45 - 45.32 = 85.13$.

available for irrigation in the reservoirs of the Madras Water Works up to P.T.L., may be divided by 4,500 to obtain the irrigable acreage, which will thus be 18,900 acres.

4. The Acting Director of Revenue Settlement, in the extract from his report transmitted by the Board, refers to the area already irrigated and to the land capable of irrigation under the Red Hills Tank only, and the Cholaveram tank is not referred to; but it would seem from the following figures that his area of 3,585 acres is under both tanks. From the statements transmitted with the Board's Proceedings, No. 2,805, of the 20th September 1874, it appears that, subject to the corrections yet to be made, the cultivation and revenue for years prior to the enlargement of the tanks were as follow:—

	AVERAGE CULTIVATION		TANK CAPACITY, &c.		Total Revenue.	Remarks.
	Extent	Revenue	Extent	Revenue		
Facis 1267 to 1273	1,458	4,991	1	1	4,995	Cholaveram Tank.
Do. 1203 to 1279	1,824	7,187	1	3	7,460	Red Hills do.
	3,282	12,481	1½	4	12,485	
Similarly, the average for the subsequent facis are,						
Facis 1280 to 1282	1,730	4,945	...	1	4,946	Cholaveram Tank.
Do. do. ...	2,151	9,119	23	70	9,189	Red Hills do.
	4,151	14,064	23	71	14,135	

It appears, therefore, that only nine villages are irrigated under the Cholaveram and ten under the Red Hills Tank, and, as the Acting Director states that there are fifty villages altogether—thirty-one remain to be supplied. A list of these thirty-one, with the area irrigated and irrigable in each, will be useful to the Superintending Engineer, Chingleput, in determining the details of the distribution arrangements required. The available area of land for irrigation, taking the Director's figures, will apparently be—

	ACRES.
The old irrigation	3,585
Do. under petty tanks to be superseded	10,833
Do. tank beds	2,935
Do. manawari or waste	3,670
Do. dry lands to be converted	6,021
Total	27,044

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this, unless the water-supply prove better than has been supposed, only 18,900 can be irrigated, and, judging from the particulars of returns from the several stations of land given by the Director, it would appear that the most profitable use of water to the 15,315 acres, which can be supplied in addition to the old will be to arrange, at least in the first instance, for the irrigation of the—

	ACRES.
Waste lands...	3,670
Dry lands to be converted	6,021
make up the difference by bringing about 5,621 acres of the irrigation under tanks under the influence of the better supply. The revenue will then be—	
9,601 acres at 4 Rupees ...	Rs. 38,764
5,624 do. 2 " ...	" 11,248
	Rs. 50,012

The additional-quantity of water stored in the reservoirs by the outlay on the Water Works project is the—

	ACRES.	Millions of Cubic Yards.
Present capacity of the tanks...	336	130.45
Less the former do. ...	20.48	*23.81
Total ...	23.81	

uses the zero of Mr. Fraser's contours has been arbitrary P.T.L. instead of the occasional or P.T.L., which would make the former capacity

Additional storage... 106.61

and it may perhaps be assumed that by extrasupplies at intervals the total receipts annually of water will amount to one-fifth 130.45 + 26.09 = 156.54, and the additional water provided will then be numbers 132.70 millions. As above stated, the water reserved for municipal is to be 45.32, and the additional supply for irrigation will be 87.38.

The Government of India have intimated that a part of the capital outlay on the project should be borne by Provincial funds, and a sum of two lakhs of Rupees suggested as the share of the latter, but at that time apparently neither the cost of the project nor the proportion of water to be appropriated for new irrigation and purposes respectively was known. The cost of the project has not yet been fixed, but the proportionate shares can be fixed from the information above given, and, it is thought, be—

Municipal or the Provincial Fund share,	45.32	45	15
	132.70 say	132	44
Irrigation share...	87.38	87	29
	132.70 say	132	44

the sum to be thus divided will be the total cost of the project less the outlay on the distribution and excluding the contribution for the town delivery channel, and the share chargeable to Provincial Funds the amount of the contribution to be added, while the irrigation share will be enhanced by all distribution or conveying water to the fields.

The Acting Director's report refers to the want of improved drainage for the villages commanded by the reservoirs. There can be no doubt of the improvement which good drainage would secure, and the necessary investigation should be made. Probably the levels taken for distribution purposes will enable

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the wants of this tract of country as regards drainage to be readily determined and estimated for.

8. In the argument enunciated in paragraph 21 of the Director's Report the undersigned is unable to concur. To take water, other than surplus, from the reservoirs and store it in petty tanks would be the reverse of economical; there would inevitably be additional waste. The natural out-fall of the drainage of fields situated in the beds of these petty tanks is into the deeper parts of those beds, and were the fields bunded to enable water in the deep beds to be stored above the fields' level there would be a complete barrier to drainage: if not so stored embanking will be unnecessary. Some water will remain in the hollow parallel to the bunds of the minor tanks, even if the beds be generally reclaimed; but this should be used, or can conveniently be used, only for the irrigation of lands lying on a lower level and below the bunds. Some of the tanks will be capable of abandonment altogether; others probably will have to be retained, and some little judgment will be needed to make the best selection for either purpose:

Fort St. George,
7th December 1875.

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

A.

Abstract Statement of the Area of Cultivation and Revenue of each Tash from 1266 to 1282 for all the Villages together under the Cholavaram Tank.

Villages.	Fash.	NUNJAH AYACUT.		CULTIVATION.		INAM FASIJASTY AND TEEVAJASTY.		Total of Columns 6 and 8.
		Extent.	Assessment.	Extent.	Revenue.	Extent.	Assessment.	
1	2	3	4	5	6	7	8	9
No. 6, Sembilivaram.	1266	...	RS. A. P.	1,325 48	RS. A. P.	...	RS. A. P.	RS. A. P.
	1267	...	...	1,230 56	4,347 5 1	0 48	0 12 10	4,352 11 4
	1268	...	...	1,263 81	5,026 4 11	...	...	5,032 4 11
	1269	...	...	1,263 69	5,022 8 3	...	...	5,032 8 3
	1270	...	...	1,144 23	5,295 19 1	0 75	0 8 2	5,305 2 3
	1271	...	...	1,062 26	5,099 1 2	...	...	5,099 1 2
	1272	...	...	1,779 21	6,013 9 7	...	...	6,013 9 7
	1273	...	...	1,769 16	6,079 8 7	...	...	6,079 8 7
	1274	...	...	1,631 67	5,756 9 3	...	...	5,756 9 3
	1275	...	...	1,293 63	6,103 11 3	1 80	4 8 9	6,103 11 3
	1276	...	...	1,292 54	4,545 4 9	3 22	8 7 7	4,553 12 4
	1277	...	...	1,071 59	1,501 0 6	...	...	1,501 0 6
No. 8, Amkadoor.	1278	...	...	1,180 28	4,228 8 3	0 67	1 1 0	4,229 0 3
	1279	...	...	1,321 15	4,562 0 7	...	...	4,562 0 7
	Total ...	...	...	29,119 63	69,910 0 9	7 69	15 6 4	69,925 7 1
	Average...	...	...	1,456 83	4,903 9 2	0 50	1 1 7	4,904 10 9
No. 9, Kummamoor.	1280	...	...	1,361 69	4,529 1 6	1 17	2 10 6	4,531 12 9
	1281	1,474 66	1,674 0 6	1,756 92	4,778 4 9	...	...	4,778 4 9
	1282	...	...	1,971 97	5,528 3 5	...	...	5,528 3 5
	Total ...	...	...	3,190 57	14,835 9 7	1 17	2 10 6	14,838 4 1
No. 10, Seroonayam.	1280	...	...	1,361 69	4,529 1 6	1 17	2 10 6	4,531 12 9
	1281	1,474 66	1,674 0 6	1,756 92	4,778 4 9	...	...	4,778 4 9
	1282	...	...	1,971 97	5,528 3 5	...	...	5,528 3 5
	Total ...	...	...	3,190 57	14,835 9 7	1 17	2 10 6	14,838 4 1
No. 11, Cholavaram.	1280	...	...	1,361 69	4,529 1 6	1 17	2 10 6	4,531 12 9
	1281	1,474 66	1,674 0 6	1,756 92	4,778 4 9	...	...	4,778 4 9
	1282	...	...	1,971 97	5,528 3 5	...	...	5,528 3 5
	Total ...	...	...	3,190 57	14,835 9 7	1 17	2 10 6	14,838 4 1
No. 12, Nallur.	1280	...	...	1,361 69	4,529 1 6	1 17	2 10 6	4,531 12 9
	1281	1,474 66	1,674 0 6	1,756 92	4,778 4 9	...	...	4,778 4 9
	1282	...	...	1,971 97	5,528 3 5	...	...	5,528 3 5
	Total ...	...	...	3,190 57	14,835 9 7	1 17	2 10 6	14,838 4 1

Fort St. George,
December 1875.

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

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5th January 1876.

B.

Abstract Statement of the Area of Cultivation and Revenue of each Tash from 1263 to 1279 for all the Villages together under the Red Hills Tank.

Villages.	Fash.	NUNJAH AYACUT.		CULTIVATION.		INAM FASIJASTY AND TEEVAJASTY.		Total of Columns 6 and 8.
		Extent.	Assessment.	Extent.	Revenue.	Extent.	Assessment.	
1	2	3	4	5	6	7	8	9
No. 22, Keespoor.	1263	...	RS.	1,544 0	RS. A. P.	...	RS. A. P.	RS. A. P.
	1264	...	...	1,370 0	6,059 0 0	...	...	6,059 0 0
	1265	...	...	1,370 0	5,452 0 0	1 0	3 0 0	5,453 0 0
	1266	...	...	1,648 0	6,202 0 0	...	...	6,202 0 0
	1267	...	...	1,773 0	7,520 0 0	...	...	7,520 0 0
	1268	...	...	1,876 0	7,931 0 0	1 0	1 0 0	7,932 0 0
	1269	...	...	1,876 0	8,157 0 0	1 0	1 0 0	8,158 0 0
	1270	...	...	1,701 0	7,851 0 0	...	...	7,851 0 0
	1271	...	...	1,701 0	7,250 0 0	...	...	7,250 0 0
	1272	...	...	1,701 0	7,836 0 0	3 0	7 0 0	7,839 0 0
	1273	...	...	1,963 0	8,376 0 0	1 0	3 0 0	8,377 0 0
	1274	...	...	1,973 0	8,825 0 0	...	...	8,825 0 0
No. 18, Allagoodam.	1275	...	...	2,211 0	8,840 0 0	...	...	8,840 0 0
	1276	...	...	2,113 0	9,040 0 0	4 0	10 0 0	9,044 0 0
	1277	...	...	2,009 0	6,028 0 0	3 0	5 0 0	6,031 0 0
	1278	...	...	1,831 0	4,665 0 0	2 0	1 0 0	4,666 0 0
No. 19, Poyasum-bukam.	1279	...	...	2,182 0	9,026 0 0	1 0	7 0 0	9,027 0 0
	Total ...	...	...	31,098 0	1,27,296 0 0	17 0	47 0 0	1,27,313 0 0
	Average...	...	...	1,821 88	7,437 6 7	1 0	2 12 8	7,439 2 10
	1280	...	...	2,161 0	9,179 0 0	...	...	9,179 0 0
No. 2, Velugodam.	1281	2,915 0	10,269	2,607 0	8,088 0 0	19 0	53 0 0	8,144 0 0
	1282	...	...	2,607 0	10,098 0 0	49 0	76 0 0	10,174 0 0
Total ...	Total ...	...	...	7,370 0	27,976 0 0	63 0	210 0 0	27,966 0 0
	Average...	...	...	2,450 0	9,119 0 0	23 0	70 0 0	9,189 0 0

Fort St. George,
December 1875.

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

C.

Statement showing the Average Area of Cultivation and Revenue for each Village under the Cholavaram Tank, from Fash 1263 to 1279, and the subsequent years (1280 to 1282) individually.

Villages.	Fash.	NUNJAH AYACUT.		CULTIVATION.		INAM FASIJASTY AND TEEVAJASTY.		Total of Columns 6 and 8.
		Extent.	Assessment.	Extent.	Revenue.	Extent.	Assessment.	
1	2	3	4	5	6	7	8	9
No. 6, Sembilivaram.	1266 to 1279	...	RS. A. P.	115 85	RS. A. P.	...	RS. A. P.	RS. A. P.
	1280	...	...	121 09	612 14 7	0 22	0 7 7	613 6 3
	1281	165 96	638 2 2	127 40	618 7 11	...	...	618 7 11
	1282	...	...	177 27	676 7 11	...	...	676 7 11
No. 8, Amkadoor.	1266 to 1279	...	...	185 77	634 13 8	...	...	634 13 8
	1280	...	...	154 13	609 4 11	...	...	609 4 11
	1281	202 68	686 14 2	311 43	778 5 2	...	...	778 5 2
	1282	...	...	320 34	818 15 5	...	...	818 15 5
No. 2, Kummamoor.	1266 to 1279	...	...	102 45	303 14 5	...	...	303 14 5
	1280	...	...	76 31	217 15 11	...	...	217 15 11
	1281	76 31	217 15 11	76 31	217 15 11	...	...	217 15 11
	1282	...	...	103 09	297 3 5	...	...	297 3 5

Proceedings of the Madras Government, Public Works Department,
5th January 1876.

Statement showing the Average Area of Cultivation and Revenue for each Village, &c.—(Concluded.)

Villages.	Fasli.	NUNJAH AYACUT.		CULTIVATION.		INAM FASULJASTY AND TILKAVASTY.		Total of Columns 6 and 8.
		Extent.	Assessment.	Extent.	Revenue.	Extent.	Assessment.	
1	2	3	4	5	6	7	8	9
RS. A. P.								
No. 10, Seroona-yam	1266 to 1279	...	...	131 72	585 5 0	...	...	585 5 0
	1280	...	...	165 21	650 0 9	...	...	650 0 9
	1281	205 57	707 15 9	215 68	730 2 3	...	...	730 2 3
	1282	...	...	217 24	778 9 7	...	...	778 9 7
,, 13, Cholave-rina.	1266 to 1279	...	...	584 68	1,814 7 11	0 19 0	8 5	1,815 0 4
	1280	...	...	513 24	1,703 12 9	...	...	1,703 12 9
	1281	545 80	1,543 7 5	612 64	1,719 13 3	...	...	1,719 13 3
	1282	...	...	757 80	2,073 0 11	...	...	2,073 0 11
,, 64, Karanoodai	1266 to 1279	...	...	30 77	158 11 7	0 03 0	0 11	158 12 6
	1280	...	...	38 67	170 19 4	1 17	2 19 6	179 4 10
	1281	36 85	140 8 7	38 62	175 0 7	...	...	175 0 7
	1282	...	...	42 99	214 2 9	...	...	214 2 9
,, 72, Vijianal-loor.	1266 to 1279	...	...	72 58	147 3 7	...	...	147 3 7
	1280	...	...	24 12	29 5 1	...	...	29 5 1
	1281	31 89	23 6 2	31 50	45 8 7	...	...	45 8 7
	1282	...	...	31 24	61 6 4	...	...	61 6 4
,, 105, Sathoor-rumbodu.	1266 to 1279	...	...	119 78	468 5 1	0 05 0	0 7	468 5 8
	1280	...	...	113 54	126 11 3	...	...	126 11 3
	1281	8 53	48 1 8	127 62	152 0 4	...	...	152 0 4
	1282	...	...	188 73	223 2 7	...	...	223 2 7
,, 153, Nalloor...	1266 to 1279	...	...	102 90	259 13 1	...	...	259 13 1
	1280	...	...	185 41	257 5 1	...	...	257 5 1
	1281	299 09	509 8 6	148 72	310 14 3	...	...	310 14 3
	1282	...	...	152 55	325 2 6	...	...	325 2 6

Fort St. George.

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

D.

Abstract Statement showing the Average Area of Cultivation and Revenue for each Village under the Red Hills Tank from Fasli 1263 to 1279, and the subsequent years (1280 to 1282) individually.

Villages.	Fasli.	NUNJAH AYACUT.		CULTIVATION.		INAM FASULJASTY AND TILKAVASTY.		Total of Columns 6 and 8.
		Extent.	Assessment.	Extent.	Revenue.	Extent.	Assessment.	
1	2	3	4	5	6	7	8	9
RS. A. P.								
No. 23, Kosapoor.	1263 to 1279	...	...	51 23	331 13 2	0 47 0	0 10 4	332 7 2
	1280	...	...	135 0	435 0 0	...	...	435 0 0
	1281	229	711 0 0	120 0	503 0 0	...	...	503 0 0
	1282	...	...	191 0	521 0 0	2 0	1 0 6	523 0 0
,, 29, Sathil-u-loor.	1263 to 1279	...	...	35 0	124 4 2	...	...	124 4 8
	1280	...	...	49 0	151 0 0	...	...	151 0 0
	1281	127 0	362 0 0	58 0	178 0 0	...	...	178 0 0
	1282	...	...	59 0	162 0 0	...	...	162 0 0
,, 18, Ahngiva-kuni.	1263 to 1279	...	...	61 53	505 0 0	...	...	505 0 0
	1280	...	...	61 0	574 0 0	...	...	574 0 0
	1281	71 0	411 0 0	63 0	571 0 0	...	...	571 0 0
	1282	...	...	66 0	571 0 0	...	...	571 0 0
,, 16, Thundaka-	1263 to 1279	...	...	111 20	551 11 3	...	...	551 11 3
	1280	...	...	124 0	519 0 0	...	...	519 0 0
	1281	125 0	431 0 0	155 0	604 0 0	...	...	604 0 0
	1282	...	...	151 0	578 0 0	6 0	15 0 6	583 0 0

Proceedings of the Madras Government, Public Works Department,
5th January 1876.

Abstract Statement showing the Average Area of Cultivation and Revenue, &c.—(Concl.)

Villages.	Fasli.	NUNJAH AYACUT.		CULTIVATION.		INAM FASULJASTY AND TILKAVASTY.		Total of Columns 6 and 8.
		Extent.	Assessment.	Extent.	Revenue.	Extent.	Assessment.	
1	2	3	4	5	6	7	8	9
RS. A. P.								
No. 15, Vudake-ral.	1263 to 1279	...	...	...	...	...	...	...
	1280	...	...	...	...	...	...	...
	1281	43 0	123 0 0	...	...	...	...	...
	1282	...	...	...	...	...	...	...
,, 21, Vudapoo-rumbodu.	1263 to 1279	...	...	...	...	...	...	...
	1280	...	...	...	...	...	...	...
	1281	352 0	1,116 0 0	...	...	...	...	...
	1282	...	...	...	...	...	...	...
,, 34, Polai	1263 to 1279	...	...	...	...	...	...	...
	1280	...	...	...	...	...	...	...
	1281	663 0	2,784 0 0	...	...	...	...	...
	1282	...	...	...	...	...	...	...
,, 13, Lina	1263 to 1279	...	...	...	...	...	...	...
	1280	...	...	...	...	...	...	...
	1281	430 0	1,221 0 0	...	...	...	...	...
	1282	...	...	...	...	...	...	...
,, 12, Poyasam-kuni.	1263 to 1279	...	...	...	...	...	...	...
	1280	...	...	...	...	...	...	...
	1281	145 0	569 0 0	...	...	...	...	...
	1282	...	...	...	...	...	...	...
,, 9, Velangadoo-vakuni.	1263 to 1279	...	...	...	...	...	...	...
	1280	...	...	...	...	...	...	...
	1281	711 0	2,513 0 0	...	...	...	...	...
	1282	...	...	...	...	...	...	...

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

No. 43.

ORDER THEREON, 5th January 1876, No. 21.

IRRIGATION, No. 5-A.

These papers contain in an approximate form part of the information required in connection with the Madras Water Works Project.

1st.—There is the water-supply available, and this supply, though necessarily liable to variation, has been supposed by the Chief Engineer for Irrigation to be equivalent to one-fifth more than the capacity of the two reservoirs in which it is stored. The figures are as follow, and they will be liable to correction when the actual receipts and expenditure of water as deduced from the registers of recent years, including the present year, have been worked out:—

	Millions of C. yds.
156-54—45-32.	Available for irrigation ... 111-22
156-54—(23-84+45-32.)	Do. for additional irrigation ... 87-33
	Reserved for town of Madras ... 45-32
2ndly.—The land capable of being irrigated, and this is shown to be—	
	ACRES.
That already or formerly irrigated under the reservoir	3,585
Other lands	23,450
Total	27,035

Of this, for the reasons stated in the foregoing note, somewhat more than two-thirds will, it is anticipated, be actually irrigated annually, and the additional area, after deducting the old irrigation, will be about 15,465 acres.

5th January 1876.

igation will be, selecting out of the gross
which will give the largest income,

...	...	...	...	...	RS.
...	...	...	...	...	38,764
...	...	...	...	...	11,218
Total					50,012

ces gross revenue will be the return on

anks prior to Fasli 1279 (1869-70), and
obable average from 1870-71, have yet

clusive averaged, subject to correction,

age provided by the outlay on the project for the town of Madras, this outlay has to be apportioned in proportion to the quantity of water for drinking and irrigation respectively, and it has been estimated that 1000 cusecs additional supply provided altogether

...	...	...	45.32 millions.
...	...	...	87.38 „

ions specified in paragraph 6 of the Chief
feasible to Provincial will therefore be 15, and
a. Under this arrangement the payments
g will be carried to the credit of Provincial
a difference between the cost of maintenance
-79.

ed to the Revenue Department, with reference 25th August last, No. 1,276, and to the statements referred to in their Proceedings submitted as soon as possible. Also to the Controller of Public Works Accounts, from them at an early date.

ceedings be forwarded for the information

(True Extract.)

Secretary to Government.

To the Public Department.

" Revenue
" Superintending Engineer, Chingleput
" Chief Engineer for Irrigation.
" Board of Revenue.
" Controller of Public Works Accounts.

Exd. S. T. Austin.

Spars Copies

Reçu de paiement
N° 198

Donné à M. J. B. J. B.

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5

francs

le 20

1820

pour

la somme de

5 francs

5.161

✓

22/10/1820