M.R.O. I—5,006—16-10-50. 132

(1) Number of pages 24

(2) Date of repair 6.7.1965

(3) Initials of the Referencer

MADRAS RECORD OFFICE

Government of Madras

Revenue DEPARTMENT

G.O. No. / ~~B.P. No.~~	132	~~Press~~ / Mis.
Dated	23.1.1872 — 195 .	

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
19th January 1872.

Read the following papers:—

No. 342. From the Controller of Public Works Accounts, to the Secretary to Government, Public Works Department, dated Madras, 14th November 1871, No. 2,099-A.

ADVERTING to the Proceedings of Government noted in the margin, I have the honour to forward the general statement of Remunerative Works in this Presidency for the year 1870-71.

1 Statement.
1 Copy of letter from the Accountant-General, Public Works Department, No. 108-I., dated 3rd November 1871.
Nos. 187 and 41, dated 21st September and 8th November 1871, respectively.

2. The delay in the submission of this return is owing to the non-receipt, up to the 9th instant, of the statements from the Superintending Engineer of the 6th Division, who reports that they were detained in order to ensure the simultaneous despatch of the statements of reproductive works which are overdue.

3. In placing the enclosed statement before Government, it is necessary for me to explain that Superintending Engineers have always been held responsible for the accuracy of the statistical details which it affords, this office checking the correctness of the figures appearing in columns 3 and 7 by comparison with the previous year's return. The figures against the columns provided for current year's charges against "Capital and Revenue"* are noted by the Superintending Engineers, and those under "Income" by the Revenue authorities. Over these latter figures, this office, under existing circumstances, can exercise no check whatever, and as regards current year's charges it frequently happens that this department is unable to verify the figures entered by the Superintending Engineers with those which, from Range Officer's Progress Reports, seem to appertain to the same works. In the present statement, taking the works as per margin as examples, I have been unable to check the entries under charges against "Capital" in the current year, and I have accordingly placed myself in communication with the Superintending Engineers, with a view of comparing the details making up each item with the progress reports of Range Officers for the past official year. It will be some time before these and other differences can be explained, and as the Government of India are urgent in their calls for the general statement of remunerative works, I have no alternative but to submit it in its present form with this explanation.

* Namely, maintenance.

Godavery anicut and its subsidiary works.
Kistna anicut project.
Pennair do. do.
Palar do. do.
Poincy do. do.
Cheyaur do. do.
Pooniar anicut.
Trivady do.
Vellaur do.
Lower Coleroon anicut.
Upper anicut in Coleroon.
Lower do. do.
Nundyaur anicut.
Yanamacal dam.
Calengaroyen channel.
Thadapully do.
Arkencottah do.

4. With respect to the outlay on Capital recorded against each project "up to the end of the past year," the Government are aware that the figures brought forward annually are those which appeared in column 5 of the returns immediately preceding, but whether the accuracy of those figures can be relied upon, this office is not in a position to say, nor has it any details from which to calculate the actual cost of works embracing a project on which operations were commenced many years ago. Upon this subject I beg to invite attention to my letter No. 1,904, dated 21st October 1871, and its enclosure, and in now submitting copy of a letter from the Accountant General of the Public Works Department in reply to mine of the 21st October 1871, No. 1,903, I have only to add that I have addressed the Acting Chief Engineer for Irrigation in respect to the statements prepared by the late Colonel Anderso[illegible] "showing the outlay from 1st to last on the Godavery and Kistna schemes," and have at the same time requested Captain Oakes to favour me with similar details, if forthcoming, in respect to the other old works.

Statement of Remunerative Works for the year 1870-71.

Names of Works.	CAPITAL. Outlay on Construction (Dead Stock Valuation). Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	REVENUE. Charges. Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.	Ganjam. None. Vizagapatam. None. Godavery.				
Godavery Anicut and its subsidiary works.	Outlay on original works and re-construction.	49,19,481	95,219	50,14,709	Interest on the Capital, Rupees 49,19,481, at 4 per cent.	25,47,791	1,96,779	27,44,570	
	Deduct deterioration by wear and tear at 1 per cent.	5,90,614	49,194	6,39,808	Maintenance and repairs.	34,93,479	1,34,423	36,27,902	
	Balance of Capital...	43,28,867	46,025	43,74,892	Total Charges...	60,41,270	3,31,202	63,72,472	
						Gross proceeds from all sources.	2,14,49,856	17,98,893	2,32,48,749	
					Kistna.	Balance of Income	12,46,104	1,30,935	13,77,039	
Kistna Anicut Project.	Outlay on original works and re-construction.	32,73,374	97,593	33,70,967	Interest on the Capital, Rupees 32,73,374, at 4 per cent.	Gross proceeds from all sources.	59,58,058	7,35,161	66,93,219	
	Deduct deterioration by wear and tear.	5,56,170	32,734	5,88,904	Maintenance and repairs.	11,39,272	79,773	12,19,045		
	Balance of Capital...	27,17,204	64,859	27,82,063	Total Charges...	23,85,376	2,10,708	25,96,084		
						Balance of Income	55,72,682	5,24,453	40,97,135	
					Nellore.				
Pennair Anicut Project.	Outlay on original works and re-construction.	7,53,803	70,451	8,24,254	Interest on the Capital, Rupees 7,53,803, at 4 per cent.	2,21,192	30,152	2,51,344	
	Deduct deterioration by wear and tear at 1 per cent.	55,297	7,538	62,835	Maintenance and repairs.	3,28,213	23,684	3,51,897	
	Balance of Capital...	6,98,506	62,913	7,61,419	Total Charges...	5,49,405	53,836	6,03,241	
						Gross proceeds from all sources.	6,06,038	1,00,254	7,06,292	The figures of expenditure and revenue have been modified agreeably to G. O., No. 1,467, dated 30th May 1871, and this statement therefore does not agree with the previous ones.
						Balance of Income	56,633	46,418 being 6·22 per cent. on balance of Capital.	1,03,051	

Statement of Remunerative Works

Names of Works.	CAPITAL. Outlay on Construction (Dead Stock Valuation.) Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	REVENUE. Charges. Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Income. Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.	Nellore.—(Concld.)	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
Channel from Venkatagherry river to Chennoor tank.	Outlay on original works and re-construction.	21,706	275	21,981	Interest on Capital, Rupees 21,706, at 4 per cent.	1,286	868	2,154	Gross proceeds from all sources.	5,906	Information not received from the Collector.		
	Deduct deterioration by wear and tear at 1 per cent.	321	217	538	Maintenance and repairs.	.....	.....	.....					
	Balance of Capital...	21,385	58	21,443	Total Charges...	1,286	868	2,154	Balance of Income	4,620	.....	.....	
					Cuddapah.								
					None.								
					Bellary.								
					None.								
					Kurnool.								
					None.								
					Chingleput.								
Palar Anicut Project.—Excavating Kambankal channel and constructing masonry works.	Outlay on original works and re-construction.	2,14,925	.....	2,14,925	Interest on the Capital, Rupees 2,14,925, at 4 per cent.	67,051	8,597	75,648	Gross proceeds from all sources.	1,17,401	25,012	1,42,413	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	5,658	888	6,546					
	Balance of Capital...	2,14,925	.....	2,14,925	Total Charges...	72,709	9,485	82,194	Balance of Income	44,692	15,527	60,219	

Public Works Department, 19th January 1872.

for the year 1870-71.—(Continued.)

Statement of Remunerative Works

Names of Works.	CAPITAL.				REVENUE.						Remarks.
	Outlay on Construction (Dead Stock Valuation).				Charges.			Income.			
	Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Amount up to the end of the past year.	Amount of the current year.	Total.	
		Rs.	Rs.	Rs.	Chingleput.—(Contd.)	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Coratoor Anicut...	Outlay on original works and re-construction.	16,730	.....	16,730	Interest on the Capital, Rupees 16,730, at 4 per cent.	9,845	669	10,514				
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	1,684	126	1,810				
	Balance of Capital...	16,730	.....	16,730	Total...	11,529	795	12,324				
Casaveram Anicut.	Outlay on original works and re-construction.	32,363	.....	32,363	Interest on the Capital, Rupees 32,363, at 4 per cent.	10,320	1,294	11,614				
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	5,287	125	5,412	Gross proceeds from all sources for Coratoor and Casaveram anicuts and Bungaroo channel.	1,87,286	23,018	2,10,304	This increase is the result of the outlay on the Casaveram and Coratoor anicuts and the Chembrumbaukum tank project.
	Balance of Capital...	32,363	.....	32,363	Total...	15,607	1,419	17,026				
Stone revetment to portions of Bungaroo channel, and widening the head of channel.	Outlay on original works and re-construction.	14,691	.....	14,691	Interest on the Capital, Rupees 14,691, at 4 per cent.	1,326	588	1,914				
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....				
	Balance of Capital...	14,691	.....	14,691	Total...	1,326	588	1,914				
	Total Balance of Capital for Coratoor and Casaveram anicuts and Bungaroo channel.	63,784	.....	63,784	Total Charges...	28,462	2,802	31,264	Balance of Income	1,58,824	20,216	1,79,040	
East Coast Canal.	Outlay on original works and re-construction.	6,16,690	29,827	6,46,517	Interest on the Capital, Rupees 6,16,690, at 4 per cent.	2,65,090	24,668	2,89,758	Gross proceeds from all sources.	10,45,581	37,019	10,82,600	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	3,49,212	19,920	3,69,132					
					Total...	6,14,302	44,588	6,58,890	.....				
	Balance of Capital...	6,16,690	29,827	6,46,517	Balance of Charges...	.....	7,569	.....	.....	4,31,279	.....	4,23,710	

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Public Works Department, 19th January 1872.

for the year 1870-71.—(Continued.)

Statement of Remunerative Works for the year 1870-71.—(Continued.)

Names of Works.	CAPITAL. Outlay on Construction (Dead Stock Valuation). Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	REVENUE. Charges. Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Income. Description.	Remarks.
		Rs.	Rs.	Rs.		Rs.	Rs.	Rs.		
Anicut across the Neenjal Madoogoo in the limits of Yellasoor and excavating a channel.	Outlay on original works and re-construction.	18,366	.....	18,366	Interest on the Capital, Rupees 18,366, at 4 per cent.	1,190	735	1,925	Gross proceeds from all sources.	This work being still incomplete, the increase of revenue is small.
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....		
					Total...	1,190	735	1,925		
	Balance of Capital...	18,366	.....	18,366	Balance of Charges...	1,190	.....	1,182	.....	
Madras Water Works.	Outlay on original works and re-construction.	*8,43,872	84,806	9,28,678	Interest on the Capital, Rupees 8,43,872, at 4 per cent.	41,422	33,755	75,177	Gross proceeds from all sources.	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	7,954	7,954		
					Total...	41,422	41,709	83,131		
	Balance of Capital...	8,43,872	84,806	9,28,678	Balance of Charges...	41,422	39,488	80,910	Balance of Income	
Chembrumbaukum Tank Project.	Outlay on original works and re-construction.	†2,14,964	39,585	2,54,549	Interest on the Capital, Rupees 2,14,964, at 4 per cent.	5,787	8,598	14,385	Gross proceeds from all sources.	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....		
					Total...	5,787	8,598	14,385		
	Balance of Capital...	2,14,964	39,585	2,54,549	Balance of Charges...	5,787	8,598	14,385	Balance of Income	
Madrantakum Tank	Outlay on original works and re-construction.	20,691	1,793	22,484	Interest on the Capital, Rupees 20,691, at 4 per cent.	952	828	1,780	Gross proceeds from all sources.	The work being still incomplete the increase of revenue is rather small.
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....		
					Total...	952	828	1,780		
	Balance of Capital...	20,691	1,793	22,484	Balance of Charges...	952	.....	681	Balance of Income	
					North Arcot.					
Palar Anicut ...	Outlay on original works and re-construction.	7,50,282	580	7,50,862	Interest on the Capital, Rupees 7,50,282, at 4 per cent.	3,44,731	30,011	3,74,742	Gross proceeds from all sources.	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	13,917	1,700	15,617		
					Total...	3,58,648	31,711	3,90,359		
	Balance of Capital...	7,50,282	580	7,50,862	Balance of Charges...	2,64,912	23,102	2,88,014	Balance of Income	

* Rupees 1,451 have been recovered under G. O. ... 789, dated 15th March 1870, and Controller's Memorandum ... dated 12th May and 1st July 1870. No attempt having been yet made to cut the various subsidiary channels required to convey water to the tanks of the villages exposed to ... hereafter influenced by the project, the increase of revenue resulting to Government is not what it should be.

† *Vide* income entered against Cauveram and ... Anicuts and Bungaroo Channel Projects.

Statement of Remunerative Works for the year 1870-71.—(Continued.)

Names of Works.	CAPITAL. Outlay on Construction (Dead Stock Valuation). Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Description.	REVENUE. Charges. Amount up to the end of the past year.	Amount of the current year.	Total.	Description.	Income. Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.	North Arcot.-(Contd.)	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
Poiney Anicut ...	Outlay on original works and re-construction.	1,54,205	.....	1,54,205	Interest on the Capital, Rupees 1,54,205, at 4 per cent.	52,563	6,168	58,731	Gross proceeds from all sources.	55,823	15,157	70,980	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	10,408	858	11,266					
					Total...	62,971	7,026	69,997					
	Balance of Capital...	1,54,205	.....	1,54,205	Balance of Charges...	7,148	.....	.....	Balance of Income	.....	8,131	983	
Aliabad Dam and Channel.	Outlay on original works and re-construction.	30,437	2,680	33,117	Interest on the Capital, Rupees 30,437, at 4 per cent.	2,434	1,217	3,651	Gross proceeds from all sources.	6,162	822	6,984	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	1,066	480	1,546					
					Total...	3,500	1,697	5,197					
	Balance of Capital...	30,437	2,680	33,117	Balance of Charges...	.....	875	.....	Balance of Income	2,662	.....	1,787	
Extending the Cheyaur Anicut Project to Tantry and for widening main channel as far as Pooresay.	Outlay on original works and re-construction.	77,619	.....	77,619	Interest on the Capital, Rupees 77,619, at 4 per cent.	14,327	3,104	17,431	Gross proceeds from all sources for the Cheyaur Project and its subsidiary works.	1,04,425	3,289	1,07,714	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	15,236	924	16,160					
					Total...	29,563	4,028	33,591					
	Balance of Capital...	77,619	.....	77,619		20,624	1,319	21,943					
Constructing the Cheyaur Anicut and cutting Channel to Pooresay.	Outlay on original works and re-construction.	32,976	.....	32,976	Interest on the Capital, Rupees 32,976, at 4 per cent.	.....	.....	.....					
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	20,624	1,319	21,943					
					Total...	1,429	98	1,527					
	Balance of Capital ..	32,976	.....	32,976		.....	.....	.....					
Constructing thirteen Moaries in the Cheyaur Anicut Channels.	Outlay on original works and re-construction.	2,454	.....	2,454	Interest on the Capital, Rupees 2,454, at 4 per cent.	1,429	98	1,527					
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.								
					Total...								
	Balance of Capital...	2,454	.....	2,454									

Statement of Remunerative Works for the year 1870-71.—(Continued.)

Names of Works.	CAPITAL. Outlay on Construction (Dead Stock Valuation). Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Description.	REVENUE. Charges. Amount up to the end of the past year.	Amount of the current year.	Total.	Description.	Income. Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.	North Arcot.-(Concld.)	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
Channel from Nullalem to Tatry and subsidiary works.	Outlay on original works and re-construction.	36,840	16,391	53,231	Interest on the Capital, Rupees 36,840, at 4 per cent.	800	1,473	2,273					
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....					
	Balance of Capital...	36,840	16,391	53,231	Total...	800	1,473	2,273					
					Grand Total of Charges	52,416	6,918	59,334	Balance of Income	52,009	.....	48,380	
	Total Balance of Capital for Cheyaur project and subsidiary works.	1,49,889	16,391	1,66,280	Balances of Charges...	.....	3,629	.....					
Thoorinjeecoopum Tank and Kalasamoodrum Tank	Outlay on original works and re-construction.	13,597	.....	13,597	Interest on the Capital, Rupees 13,597, at 4 per cent.	1,088	544	1,632	Gross proceeds from all sources.	123	152	275	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....					
	Balance of Capital...	13,597	.....	13,597	Total...	1,088	544	1,632					
					Balance of Charges...	965	392	1,357	Balance of Income	.....	.....	.....	
					South Arcot.								
Lower Coleroon Anicut.	Outlay on original works and re-construction.	1,29,050	.....	1,29,050	Interest on the Capital, Rupees 1,29,050, at 4 per cent.	1,65,184	5,162	1,70,346	Gross proceeds from all sources.	98,45,361	4,01,913	102,47,274	
	Deduct deterioration by wear and tear at 1 per cent.	12,581	.....	12,581	Maintenance and repairs.	4,06,749	8,040	4,14,789					
	Balance of Capital...	1,16,469	.....	1,16,469	Total Charges...	5,71,933	13,202	5,85,135	Balance of Income	92,73,428	3,88,711	96,62,139	
Vellaur Anicut ...	Outlay on original works and re-construction.	94,037	.....	94,037	Interest on the Capital, Rupees 94,037, at 4 per cent.	78,985	3,761	82,746	Gross proceeds from all sources.	18,00,549	1,08,832	19,09,381	
	Deduct deterioration by wear and tear.	11,881	.....	11,881	Maintenance and repairs.	1,25,293	8,343	1,33,636					
	Balance of Capital...	82,156	.....	82,156	Total Charges...	2,04,278	12,104	2,16,382	Balance of Income	15,96,271	96,728	16,92,999	
Ragavien Channel, Pooniar Anicut and the Pombay Channel.	Outlay on original works and re-construction.	1,10,046	6,069	1,16,115	Interest on the Capital, Rupees 1,16,115, at 4 per cent.	31,585	4,644	36,229	Gross proceeds from all sources.	6,73,200	64,384	7,37,584	
	Deduct deterioration by wear and tear.	6,160	.....	6,160	Maintenance and repairs.	31,970	1,386	33,356					
	Balance of Capital...	1,03,886	6,069	1,09,955	Total Charges ...	63,555	6,030	69,585	Balance of Income	6,09,645	58,354	6,6,4999	

Statement of Remunerative Works for the year 1870-71.—(Continued.)

Names of Works.	CAPITAL. Outlay on Construction (Dead Stock Valuation). Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	REVENUE. Charges. Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.	South Arcot.—(Concluded.)				
Trivady Anicut ...	Outlay on original works and re-construction.	13,729	.....	13,729	Interest on the Capital, Rupees 13,729, at 4 per cent.	11,530	549	12,079	
	Deduct deterioration by wear and tear.	2,274	.....	2,274	Maintenance and repairs.	16,760	2,981	19,741	
	Balance of Capital.	11,455	.....	11,455	Total Charges...	28,290	3,530	31,820	
Vicravandy Anicut and channel.	Outlay on original works and re-construction.	15,016	.....	15,016	Interest on the Capital, Rupees 15,016, at 4 per cent.	8,805	601	9,406	
	Deduct deterioration by wear and tear.	1,300	.....	1,300	Maintenance and repairs.	10,778	.....	10,778	
	Balance of Capital...	13,716	.....	13,716	Total Charges...	19,583	601	20,184	
Vanamadavy Anicut.	Outlay on original works and re-construction.	20,993	.....	20,993	Interest on the Capital, Rupees 20,993, at 4 per cent.	4,921	839	5,760	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	4,467	469	4,936	
	Balance of Capital...	20,993	.....	20,993	Total Charges...	9,388	1,308	10,696	
Anicut across the Manimoothanuddy river near Virdachellam.	Outlay on original works and re-construction.	34,846	.....	34,846	Interest on the Capital, Rupees 34,846, at 4 per cent.	2,474	1,394	3,868	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	942	942	
	Balance of Capital...	34,846	.....	34,846	Total Charges...	2,474	2,336	4,810	
Anicut across the Manimoothanuddy river near Maimathoor.	Outlay on original works and re-construction.	.....	*48,914	48,914	Interest on the Capital, Rupees 48,994, at 4 per cent.	.....	1,956	1,956	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....	
	Balance of Capital...	.....	48,914	48,914	Total Charges...	.....	1,956	1,956	
					Salem. None. Bangalore. None.				

Income. Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
	Rs.	Rs.	Rs.	
Gross proceeds from all sources.	5,97,087	29,878	6,26,965	
Balance of Income	5,68,797	26,348	5,95,145	
Gross proceeds from all sources.	66,705	6,858	73,563	
Balance of Income	47,122	6,257	53,379	
Gross proceeds from all sources.	32,070	6,751	38,821	
Balance of Income	22,682	5,443	28,125	
Gross proceeds from all sources.	10,205	5,343	15,548	
Balance of Income	7,731	3,007	10,738	
Gross proceeds from all sources.	.....	2,543	2,543	
Balance of Income	.....	587	587	

* Includes outlay in 1869-70.

Statement of Remunerative Works for the year 1870-71.—(Continued.)

Names of Works.	CAPITAL. Outlay on Construction (Dead Stock Valuation). Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Description.	REVENUE. Charges. Amount up to the end of the past year.	Amount of the current year.	Total.	Description.	Income. Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.	Tanjore.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
Upper Anicut in Coleroon.	Outlay on original works and re-construction.	2,39,865	800	2,40,665	Interest on the Capital, Rupees 2,40,665, at 4 per cent.	2,78,265	9,626	2,87,891	Gross proceeds from all sources.	1,[illegible]78,728	6,65,478	162,44,206	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	1,75,979	2,702	1,78,681					
	Balance of Capital...	2,39,865	800	2,40,665	Total Charges...	4,54,244	12,328	4,66,572	Balance of Income	1,5[illegible]24,484	6,53,150	157,77,634	
Lower Anicut in Coleroon.	Outlay on original works and re-construction.	2,94,421	3,324	2,97,745	Interest on the Capital, Rupees 2,97,744, at 4 per cent.	1,71,354	11,910	1,83,264	Gross proceeds from all sources.	5,86,086	33,534	6,19,620	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	3,09,464	5,465	3,14,929					
	Balance of Capital...	2,94,421	3,324	2,97,745	Total Charges...	4,80,818	17,375	4,98,193	Balance of Income	1,[illegible]05,268	16,159	1,21,427	
					Trichinopoly.								
Nundayaur Anicut in the District of Trichinopoly.	Outlay on original works and re-construction.	78,554	.....	78,554	Interest on the Capital, Rupees 78,554, at 4 per cent.	25,488	3,142	28,630	Gross proceeds from all sources.	70,152	7,518	77,670	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	6,021	125	6,146					
	Balance of Capital...	78,554	.....	78,554	Total Charges...	31,509	3,267	34,776	Balance of Income	38,643	4,251	42,894	
					Coimbatore.								
Thadapully Channel.	Improving the channel and building new sluices, etc.	69,146	.....	69,146	Interest on the Capital, Rupees 69,146, at 4 per cent.	31,155	2,766	33,921	Gross proceeds from all sources	12,371	180	12,551	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	45,461	12,236	57,697					
					Total...	76,616	15,002	91,618					
	Balance of Capital...	69,146	.....	69,146	Balance of Charges...	64,245	14,822	79,067	Balance of Income	.....	.....	.....	
Calingaroyen Channel.	Improving and extending the channel.	39,251	.....	39,251	Interest on the Capital, Rupees 39,251, at 4 per cent.	26,684	1,570	28,254	Gross proceeds from all sources.	792	60	852	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	71,371	3,489	74,860					
					Total...	98,055	5,059	1,03,114					
	Balance of Capital...	39,251	.....	39,251	Balance of Charges...	97,263	4,999	1,02,262	Balance of Income	.....	.....	.....	

Proceeding of the Madras Government,

Public Works Department, 19*th January* 1872.

Statement of Remunerative Works for the year 1870-71.—(Concluded.)

Names of Works.	CAPITAL.				REVENUE.						Remarks.
	Outlay on Construction (Dead Stock Valuation).				Charges.			Income.			
	Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Amount up to the end of the past year.	Amount of the current year.	Total.	
		Rs.	Rs.	Rs.	Coimbatore.—(Concld.)	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Cuniempolliem Channel.	Outlay on original works and re-construction.	42,970	.....	42,970	Interest on the Capital, Rupees 42,970, at 4 per cent.	72,192	1,719	73,911	Gross proceeds from all sources.	38,868	.....	38,868
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	15,619	.....	15,619				
					Total...	87,811	1,719	89,530				
	Balance of Capital...	42,970	.....	42,970	Balance of Charges...	48,943	1,719	50,662	Balance of Income	.....	.....	.....
Arkencottah Channel.	Improving and extending the channel.	77,415	4,530	81,945	Interest on the Capital, Rupees 77,415, at 4 per cent.	14,462	3,097	17,559	Gross proceeds from all sources.	11,947	27	11,974
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	17,763	6,585	24,348				
					Total...	32,225	9,682	41,907				
	Balance of Capital...	77,415	4,530	81,945	Balance of Charges...	20,278	9,655	29,933	Balance of Income	.....	.....	.....
					Malabar.							
Yennamakal Dam.	Outlay on original works and re-construction.	41,084	1,416	42,500	Interest on the Capital, Rupees 41,084, at 4 per cent.	37,838	1,643	39,481	Gross proceeds from all sources.	49,764	1,984	51,748
	Deduct deterioration by wear and tear.	18,918	822	19,740	Maintenance and repairs.	25,387	671	26,058				
					Total...	63,225	2,314	65,539				
	Balance of Capital...	22,166	594	22,760	Balance of Charges...	13,461	330	13,791	Balance of Income	.....	.....	.....
					South Canara.							
					None.							
					Madura.							
					None.							
					Tinnevelly.							
					None.							

Madras,
14*th November* 1871.

(Signed) J. MILLS,
Deputy Controller of Public Works Accounts.

No. 201.

No. 343. *Note by the Acting Chief Engineer for Irrigation.*

With his letter No. 2,099-A., of the 14th instant, the Controller submits the remunerative statement for 1870-71, and with reference to certain inquiries by the Accountant-General of Public Works relative to the check exercised in the Controller's office over the entries in that statement, explains that he is unable to exercise any check whatever over the figures entered in the statements by the Superintending Engineers. As regards expenditure both under Capital and Revenue, it has been pointed out to the Controller that these items might be checked if the Superintending Engineers were required to submit statements of expenditure in the form adopted by the late Colonel Anderson in tracing the expenditure *ab initio* on the Godavery and Kistna Anicut and Delta works.

No. 1,903, 21st October.

2. The returns of income derived from the works are prepared by Collectors, and it is not possible to check these returns; that errors may easily creep into them is clear from the fact pointed out in letter, No. 1,013 of 24th December 1866, from the Superintending Engineer of the 6th Division, that for four years the Nundiyaur anicut was credited with the return from lands supplied in one talook only, while lands in two talooks were under the influence of the anicut. In comparing the returns for several years on particular works it is observed that there is considerable fluctuation in the amounts derived from the works; in such cases it would be well that the Collectors should be required to submit a brief memorandum relative to the cause of the falling off of the return from any particular work.

G. O., No. 93 of 13th January 1869.
" " 193 of 21st " "

Forwarded to the Government of India with No. 885 of 22nd March 1867.

3. Returns of the expenditure on the works noted in the margin were prepared by the late Colonel Anderson* and Major Ryves; † but the remunerative statements do not appear to have been corrected by these returns. The differences are not great, and the corrections may be made in next year's statement if these statements are to be submitted hereafter in the form now adopted.

* Godavery Works.
* Kistna do.
† Pennair do.

Vide G. O. No. 2,860 of 10th November.

4. The expenditure on the upper and lower anicuts in the Coleroon is correctly given in the remunerative statements, but the cost of improvements in the delta has not been debited to Capital, and the results arrived at relative to these works are altogether fallacious as explained in letter No. 1,013, adverted to above. The other large works which find a place in the remunerative statements are noted in the margin; it is probable that the expenditure under the last four may be checked by a reference to old progress reports, etc., but that under the Palar anicut cannot be checked owing to the old records having been destroyed.

		Rs.
1.	Palar anicut	9,65,787
2.	East Coast Canal	6,46,517
3.	Madras Water Works	9,28,678
4.	Chembrumbaukum tank ...	2,54,549
5.	Poiney anicut	1,54,295

Proceedings of the Madras Government, Public Works Department,
19th January 1872.

5. With regard to the minor works in the remunerative statement it is probable that the expenditure on those commenced within the last ten years may be checked, but owing to the destruction of old records the expenditure on the works commenced previously as given in the remunerative statement must be accepted; but it appears to me that many of these petty works should be excluded from the remunerative statements, namely, such as those noted in the margin, as no correct conclusions can be derived from the information given relative to them as explained in the reports which accompanied the remunerative statement of 1865-66, submitted to the Government of India with letter No. 885 of 22nd March 1871.

Thadapully channel.
Arkencotta do.
Calingaroyen do.
Carriempolliem do.
Yanamakul dam.

6. It appears to me that a far more correct idea could be formed of the value of the large works executed both to Government and to the people, if instead of preparing the remunerative statements as now compiled information were afforded on the following points relative to the area or district influenced by each of the large works:—

1*st.* The number of acres cultivated.

2*nd.* The revenue derived.

3*rd.* The average value of land.

4*th.* The total revenue of the district influenced by the work;

and by comparing the results of each year with those of the previous year or of the period antecedent to the construction of the works.

7. It can hardly be expected that much care or attention should be devoted to the preparation of statements the results derived from which are known to be fallacious, and these results are rendered even more untrustworthy than they need be by the computation of returns in different districts separately, when a single work provides the means of irrigation to both districts; thus the lower Coleroon anicut appears both in the South Arcot and Tanjore statement, and the Palar anicut in that for Chingleput and North Arcot.

Fort St. George,
28*th November* 1871.

(Signed) R. F. OAKES, Captain, R.E.,
Acting Chief Engineer for Irrigation.

No. 344. Order thereon, 19th January 1872, No. 174.

IRRIGATION, No. 27.

Ordered that the Statement of Remunerative Works for the year 1870-71, submitted by the Controller of Public Works Accounts with his letter No. 2,099-A., dated 14th November 1871, be forwarded to the Government of India.

2. Collectors will be requested through the Revenue Department to explain, as far as possible, in future returns any fluctuations in the receipts derived from remunerative projects, and the Controller will adopt as the expenditure against the works entered in the margin the figures deduced by Colonel Anderson and Major Ryves.

Godavery Works.
Kistna do.
Pennair do.

3. Referring to paragraphs 4 and 5 of the Acting Chief Engineer's Note the Government fear that it will not be practicable, under present circumstances, to obtain any reliable results in regard to the older works of irrigation.

4. The modifications proposed by Captain Oakes in the form of statement in which the results of remunerative works are now exhibited will be referred for the consideration of the Government of India.

(Here enter No. 175, dated 19th January 1872.)

(True extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting Chief Engineer for Irrigation.
To Superintending Engineers.
,, Major R. B. Kennedy.
To the Controller of Public Works Accounts, with a copy of G. O., No. 2,860, dated 10th November 1871.
,, Revenue Department.

Esd. E. C. Shanker.

Revenue Dpt.

W. 253.

Govt of 1871 Madras.

PUBLIC WORKS.

To

THE ACTING CHIEF ENGINEER for

IRRIGATION.

&c., &c., &c.

Dated January, 19th.

Read. a 22d Encl.

G. O., 19th January 1872. No 174.

JANUARY.

Nos. 342-344

W. 132

Comm[d] the 18th Inst.

Govt will issue instrs

& the Ftr is accord[g]

to the Jud[t] of the

S.C.

23d day 1872.

To Fd Bd Dy Ch Engr

No 132 - 23d January 1872

Remunerative Works.—Passing orders on the Statement of Remunerative Works in the Madras Presidency for 1870-71 submitted by the Controller of Public Works Accounts.