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Public-ation DEPARTMENT.

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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.
Poiney 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 Anderson "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.	Income. Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.		Rs.	Rs.	Rs.		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	50,14,700	Interest on the Capital, Rupees 49,19,481, at 4 per cent.	25,47,791	1,96,779	27,44,570	Gross proceeds from all sources.	2,74,91,126	21,30,095	29,621,221	
	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	Balance of Income	2,14,49,856	17,98,893	2,32,48,749	
					Kistna.								
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.	12,46,104	1,30,935	13,77,039	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	35,72,682	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	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 Capital...	6,98,506	62,913	7,61,419	Total Charges...	5,49,405	53,836	6,03,241	Balance of Income	56,633	46,418 being 6·23 per cent. on balance of Capital.	1,03,051	

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.	Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.		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	Nellore.—(Concld.) 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.								
Palar Anicut Project.—Excavating Kambankal channel and constructing masonry works.	Outlay on original works and re-construction.	2,14,925	.....	2,14,925	Chingleput. 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	

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.	Income. Description.	Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.		Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
Coratoor Anicut...	Outlay on original works and re-construction.	16,730	.....	16,730	Chingleput.—(Contd.) 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 Chembrumbankum 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	

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.	Amount up to the end of the past year.	Amount of the current year.	Total.	Remarks.
		Rs.	Rs.	Rs.	Chingleput.—(Concld)								
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.	.....	743	743	This work being still incomplete, the increase of revenue is small.
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....					
	Balance of Capital...	18,366	.....	18,366	Total...	1,190	735	1,925					
					Balance of Charges...	1,190	.....	1,182	.....	.....	8	.....	
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.	.....	2,221	2,221	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	7,954	7,954					
	Balance of Capital...	8,43,872	84,806	9,28,678	Total...	41,422	41,709	83,131					
					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.	.....	.....	.....					
	Balance of Capital...	2,14,964	39,585	2,54,549	Total...	5,787	8,598	14,385					
					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.	.....	1,099	1,099	The work being still incomplete the increase of revenue is rather small.
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....					
	Balance of Capital...	20,691	1,793	22,484	Total...	952	828	1,780					
					Balance of Charges...	952	.....	681	Balance of Income	.....	271	.....	
Palar Anicut ...	Outlay on original works and re-construction.	7,50,282	580	7,50,862	North Arcot. 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.	93,736	8,609	1,02,345	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	13,917	1,700	15,617					
	Balance of Capital...	7,50,282	580	7,50,862	Total...	3,58,648	31,711	3,90,359					
					Balance of Charges...	2,64,912	23,102	2,88,014	Balance of Income	.....	.....	.....	

* Rupees 1,451 have been recovered under G. O., No. 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 expected to be hereafter influenced by the project, the increase of revenue resulting to Government is not what it should be.

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

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

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.	North Arcot.-(Contd.)	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Poincy 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				
	Balance of Capital...	1,54,205	.....	1,54,205	Total...	62,971	7,026	69,997				
					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				
	Balance of Capital...	30,437	2,680	33,117	Total...	3,500	1,697	5,197				
					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				
	Balance of Capital...	77,619	.....	77,619	Total...	29,563	4,028	33,591				
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.	20,624	1,319	21,943				
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....				
	Balance of Capital...	32,976	.....	32,976	Total...	20,624	1,319	21,943				
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.	.....	.....	.....				
	Balance of Capital...	2,454	.....	2,454	Total...	1,429	98	1,527				

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.	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					
	Total Balance of Capital for Cheyaur project and subsidiary works.	1,49,889	16,391	1,66,280	Grand Total of Charges	52,416	6,918	59,334	Balance of Income	52,009	.....	48,380	
					Balances of Charges...	.....	3,629	.....					
Thoorinjeccoopum 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.	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.	South Arcot.—(Concluded.)	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
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	Gross proceeds from all sources.	5,97,087	29,878	6,26,965	
	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	Balance of Income	5,68,797	26,348	5,95,145	
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	Gross proceeds from all sources.	66,705	6,858	73,563	
	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	Balance of Income	47,122	6,257	53,379	
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	Gross proceeds from all sources.	32,070	6,751	38,821	
	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	Balance of Income	22,682	5,443	28,125	
Anicut across the Manimoothanuddy river near Virdachellum.	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	Gross proceeds from all sources.	10,205	5,343	15,548	
	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	Balance of Income	7,731	3,007	10,738	
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	Gross proceeds from all sources.	.....	2,543	2,543	
	Deduct deterioration by wear and tear.	.....	.....	.....	Maintenance and repairs.	.....	.....	.....					
	Balance of Capital...	.....	48,914	48,914	Total Charges...	.....	1,956	1,956	Balance of Income	.....	587	587	
					Salem.								
					None.								
					Bangalore.								
					None.								

* 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.	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.	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.	1,55,78,728	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	1,51,24,484	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	1,05,268	16,159	1,21,427	
Nundayaur Anicut in the District of Trichinopoly.	Outlay on original works and re-construction.	78,554	.....	78,554	Trichinopoly. 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	
Thadapully Channel.	Improving the channel and building new sluices, etc.	69,146	.....	69,146	Coimbatore. 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					
	Balance of Capital...	69,146	.....	69,146	Total...	76,616	15,002	91,618					
					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					
	Balance of Capital...	39,251	.....	39,251	Total...	98,055	5,059	1,03,114					
					Balance of Charges...	97,263	4,999	1,02,262	Balance of Income	.....	.....	.....	

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

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.		Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
Cuniemp o l l i e m Channel.	Outlay on original works and re-construction.	42,970	.....	42,970	Coimbatore.—(Concld.) 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					
	Balance of Capital...	42,970	.....	42,970	Total...	87,811	1,719	89,530					
					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					
	Balance of Capital...	77,415	4,530	81,945	Total...	32,225	9,682	41,907					
					Balance of Charges...	20,278	9,655	29,933	Balance of Income	.....	.....	.....	
Yennamakal Dam.	Outlay on original works and re-construction.	41,084	1,416	42,500	Malabar. 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					
	Balance of Capital...	22,166	594	22,760	Total...	63,225	2,314	65,539					
					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

No. 1,903, 21st October.

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.

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 statements 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	... 1,54,205

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.)

(Signed) J. CARPENDALE, 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.

Ed. E. C. Shunker.

Govt. of {1872} Madras.

PUBLIC WORKS.

To

THE SECRETARY to the GOVERNMENT

of INDIA.

Dated January 15th.

Read.

Encl.

G. O., 19th January 1872, No. 175.

JANUARY

No. 345

FORWARDING for information the Statement of Remunerative Works in the Madras Presidency for 1870-71.

K.R.

29

No. 2094 Office of the Controller of Public Works Accounts.

Madras, 14th November 1871.

From

The Controller of Public Works Accts, Madras.

To

The Secretary to Government, Public Works Department, Fort St George.

Sir,

Adverting to the Proceedings of Government noted in the margin, I have the honor to forward the general Statement of Remunerative Works in this Presidency for the year 1870-71.

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

No. 18 dated 21st September and 8th November 1871, respectively.

Superintending Engineer of the 6th Division, who reports that they were detained in order to prepare 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 6 by comparison with the previous year's Returns.

The figures against the columns provided for current year's charges of 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 Superintending Engineers with those which, from Range Officers' Progress Reports, seem to appertain

to the paine[illegible] works. In the present statement taking the works as per margin as examples. I have been unable to check the entries under charges as 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. I will

Godavery Ancient and its subsidiary works.
Kistna Ancient Project.
Pennair Ancient Project.
Palaur Ancient Project.
Poiney Ancient Project.
Cheyaur Ancient Project.
Poonar Ancient.
Trivady Ancient.
Vellaur Ancient.
Lower Coleroon Ancient.
Upper Ancient in Coleroon.
Lower Ancient in Coleroon.
Krishnygaur Ancient.
Pondicherry Canal.
Colerongaroyan Channel.
Thondaimuthy Channel.
Attanoor Tank Channel.

will be sometime 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.

4. With respect to the outlay on Capital record-ed against each Project up to the end of the past year, the Government have brought forward annually the figures as they appeared in column 5 of the Returns, immediately preceding, but whether

the accuracy of these 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. 1904, dated 21st October 1871, and its enclosure, and in now submitting copy of a letter from the Secretary to General of the Public Works Department in reply to mine of the 21st October 1871, No. 1903, 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 Anderson "shewing the outlay from Irish to Lands on the Godavery and Kistnah schemes", and have at the same time, requested Captain Oakes to favor me with similar details, if forthcoming, in respect to the other old works.

I have the honor to be
Sir,
Your most obedt. servant.

S. Hoch
Controller Public Works Accounts.

No 1089

From

The Accountant General Madras

Public Works Department

To

The Controller of Public Works Accounts

Madras

Dated Ootacamund 2nd November 1871

Sir I have the honor to acknowledge receipt of your letter No 1703 dated 21st October 1871 and in reply to state that the annual programme of Public Works for the year 1872 will be submitted to Government by the 15th instant

I have also the honor to state that the Government Order No 1089 dated 2nd November 1871 will be complied with

I have the honor to be Sir Your most obedient Servant

Accountant General

Madras 2nd November 1871

Pw 21 Sept 71 & 1187 Pwo
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" 9 — 163-164

Public Works 1871 Department
No 3525 of 71
The Controller of P.W.
Accounts
Inspection
& C. No 754
The Secretary to
Government P.W.D.
Forest Branch

Dated 6th
Dispd — 17th November 1871
Rec — 20th "

No 2099A
Submitting a general
statement of Communica-
tive works in this
Presidency for the
year 1870-71, and
explaining the
cause of delay.
P.W. 5692/71.
No 174-175-19 Secy/72

No 342

69 Draft Q-12

were obtained, and why if you had reason to suppose that they were inaccurate a remark to that effect was not entered in the Statement.

2. It is understood that the late Colonel Anderson, when Chief Engineer of Irrigation Works in Madras had statements compiled shewing the outlay from first to last on the Godavery and Kistnah schemes. Reference should be made to the office of the Chief Engineer for information as to whether this is the case, and if so the returns should be made use of by you in ascertaining the total out-lay in the projects referred to.

3. I need hardly observe that in making out Statements of the total Capital outlay on any Project no deduction should be made for deterioration by wear and tear as is done in the Statement of remunerative works referred to.

I have &c.
Signed/ Alex J. Pilgate Capt. R.E.
for Secretary to Govt.

(True Copy)
Illegible
By Controller J.W. Acquinto.

J.

No 201.

Note by the Acting Chief Engineer for Irrigation.

With his Letter No 2099 A of the 14th Instant, the Controller submits the Remunerative

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Enclosure in a letter from the Controller of the Accounts, Madras, to the Secretary to Government P.W.D. Fort Saint George No 2099 dated 14th November 1871

No 1903 - 29-2 October

5692
P.W. 55-26/71

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1754/71

Ex 174
= 19 [illegible]

Dy. Comptroller & Auditor

Asst. Accountant General.

(True Copy)

Asstt.

By Controller of W. Accounts.

No 201.

Note by the Acting Chief Engineer for Irrigation.

With his Letter No 2099 A of the 14th Instant, the Controller submits the Remunerative Statement for 1870-71 and with reference to certain enquiries by the Accountant General of Public Works relative to the checks exercised in the Controller's office over the entries in that statement, explains that he is unable to exercise any checks what ever 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.

Dissal paragraphs
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2. The returns of income derived from G.O. ct 93-95 dt 193-210
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 1093 forwarded to the Govt of India with No 885 of 22nd Dec 1866
of 24th December 1866 from the Supt Engineer
of the 6th Division, that for four years the
Nundiyaur anicut was credited with the
return from lands supplied in one taluq
only while lands in two taluqs 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
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should be required to submit a brief mem-
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ticular works.

3. Returns of the expenditure on
the works noted in the margin were pre-
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1 Godavery works
2 Kistna —"—
3 Penner —"—

Remunerative

Remunerative statements do not appear
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differences are not great and the corrections
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Lower anicuts in the Colleroon is cor-
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1 Palar anicut Rs 965,781
2 East Coast Canals 646,517
3 Madras water works 928,678
4 Chembrumbaukum Tank 254,549
5 Periary anicut 154,205

are noted in the margin.
It is probable that the ex-
penditure under the last
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anicut

anicut cannot be checked owing to the old records having been destroyed.

5 With regard to the minor works in the Remunerative statement it is probable that the expenditure on those commenced within the last 10 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 adopted, but, it appears to me that many of these petty works should be excluded from the Remunerative statements viz 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.

× Shadapully channel
Periacottah do
Calingarayan do
Carrilliputtiah do
Yanamanal 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

1st The number of acres cultivated
2. The Revenue derived
3. The average value of land
4 The total Revenue of the District influenced by the works

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

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 & the Palar anicut in that for Chingleput and North Arcot.

Fort St George
28th November 1871

I have &c
(Sd) A. Pollock Capt RE.
Acting Chief Engr. for Irrigation.

To
The Secretary to Government P.W.D. with 3 enclos.

Compd by

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30152	257344				
23684	351897	Gross proceeds from all sources	606038	100254	706292
53836	609241	Balance of Income	56633	46418 (only 1.22 on balance)	103051

The figures of expenditure and Revenue have been modified as checked by the G.O. No 1467 of 30th May 1871 and the Statement therefore does not agree with the previous ones.

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Fort St George
28th November

To The Secretary to Govt
of N. D.

Dated 28th Nov. 1871.
Despd 2 Dec.
Recd 30 "

No 201.
Enclos 3.

Note on the Remunerative Statement for the year 1870-71.

No 174-175-19 Dec/72

No 343
Dec 2 Dec/71 Rec 12

Compd

To The Govt of N. D. No 5692.

From The Actg Chief Engr for Irrigation.

Dated 19th Dec. 1871.
Despd 20 "
Recd 23 "

No 1571 Despatch
to Govt for January

2547,791	196,779	2744670	Gross proceeds from all sources	27,49,126	2,30,095	296,2221	
3,49,379	1,34,423	3,27,902					
6041,270	331,202	6372,472	Balance Income	2149856	179893	2324749	
1246,104	130,935	1377,039	Gross proceeds from all sources	59,58,058	7,35,161	6693219	
1139,272	79,773	1219,045					
2385,376	210,708	2596,084	Balance of Income	3572,682	524,453	4097,135	
221,192	30,152	251,344	Gross proceeds from all sources	6,66,038	100254	706292	The figures of expenditure and Revenue have been modified as directed in Govt. No 1167 of 30th March 1871 and this Statement therefore does not agree with the previous ones.
338,218	23,684	361,897					
519,405	53,836	603241	Balance of Income	56633	46418	103051	

Compd

Channel from Venkatagherry River to Chennur Tank	Outlay on Original Works and Reconstruction	21706	275	21981	Interest on Capital Rs 21706 at 4 per Cent	1286	868	2154	Gross proceeds from allowances	5906	Information not Received from the Collector
	Deduct deterioration by Wear & tear at 1 per cent	321	217	538	Maintenance and Repairs	"	"	"			
	Balance of Capital	21385	58	21443	Total Charges	1286	868	2154	Balance Income	4620	

None

None

None

Palar Anicut Project Excavating Lambanchal Channel and Constructing Masonry Works	Outlay on Original Works and Reconstruction	214925	"	214925	Interest on the Capital Rs 214925 at 4 per Cent.	67051	8597	75648	Gross proceeds from all sources	117401	25012	142413
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	5668	888	6546				
	Balance of Capital	214925	"	214925	Total Charges	72709	9485	82194	Balance of Income	44192	15527	60219
Coovatoor Anicut	Outlay on Original Works and Reconstruction	16730	"	16730	Interest on the Capital Rs 16730 @ 4 per Cent	9845	769	10514				
	Deduct deterioration by wear and tear	"	"	"	Maintenance and Repairs	1684	121	1810				
	Balance of Capital Carried over Rs	16730	"	16730	Total	11529	795	12324				
		16730	"	16730		11529	795	12324				

Carried over

	Brought over	16,730	"	16,730		11629	795	12,324		
Casaveram Anicut	Outlay on Original Works and Reconstructions	32,363	"	32,363	Interest on the Capital Rs 32,363 @ 4 per cent	10,320	1294	11,614		
	Deduct deterioration by wear and tear	"	"	"	Maintenance and Repairs	3287	125	5412		
	Balance of Capital	32,363	"	32,363	Total	15607	1419	17,026		
Stone Revetment to portions of Bungaroo Channel and Widening the head of Channel	Outlay on Original Works and Reconstruction	14,691	"	14,691	Interest on the Capital Rs 14,691 @ 4 per cent.	1326	588	1914	Gross proceeds from all sources for Coratoor and Casaveram Anicuts and Bungaroo Channel	187,286	23018	210,304	This increase is the result of the outlay on the Casaveram and Coratoor Anicuts on the Cheyyar-Arumbakkam Tank Project
	Deduct deterioration by wear and tear	"	"	"	Maintenance and Repairs	"	"	"						
	Balance of Capital	14,691	"	14,691	Total	1326	588	1914						
	Total Balance of Capital for Coratoor and Casaveram Anicuts and Bungaroo Channel	63,784	"	63,784	Total Charges	28462	2802	31264	Balance of Income	158824	20216	179040		
East Coast Canal	Outlay on Original Works and Reconstruction	616690	29827	646517	Interest on the Capital Rs 616690 @ 4 per cent.	265090	24618	289708	Gross proceeds from all sources	1045581	37019	1082600		
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	349212	19920	369132						
					Total	614302	44588	658890						
	Balance of Capital	616690	29827	646517	Balance of charges			7569		431279	"	423710		
	Carried over													

Continued

Amicut across the Neeyal Madoogoo in the limits of Gella coom and Excavating a channel	Outlay on Original Works and Reconstruction	18366	"	18366	Interest on the Capital Rs 18366 @ 4 per Cent	1190	735	1925	Gross proceeds from all sources	743	743	This work being still incomplete the increase of revenue is small
	Deduct deterioration by Wear and Tear	"	"	"	Maintenance and Repairs Total							
	Balance of Capital	18366	"	18366	Balance of Charge	1190	735	1925		"	"	
						1190	"	1182		"	8	
Madras Water Works	Outlay on Original Works and Reconstruction	843872	84806	928678	Interest on the Capital Rs 843872 @ 4 per Cent	7422	33735	95177	Gross proceeds from all sources	"	2221	2221
	Deduct deterioration by Wear and Tear	"	"	"	Maintenance and Repairs Total			7954			7954	
	Balance of Capital	843872	84806	928678	Balance of Charge	1422	41709	83131				
						1422	39488	80910	Balance of Income	"	"	
Chembrum Lank Rum Tank Project	Outlay on Original Works and Reconstruction	214964	39585	254549	Interest on the Capital Rs 214964 @ 4 per Cent	5787	8598	14385	Gross proceeds from all sources	"	"	
	Deduct deterioration by Wear and Tear	"	"	"	Maintenance and Repairs Total							
	Balance of Capital	214964	39585	254549	Balance of Charge	5787	8598	14385				
						5787	8598	14385	Balance of Income	"	"	

* Rs 1451 have been received under G.O. 22 939, 2/15th March 1870 and Comptroller's Memo 712 1st May and 16th July 1870. No attempt having been yet made to cut the various subsidiary channels required to convey water to the Tanks & the Villages expected to be hereafter influenced by the project the increase of Revenue resulting to Government is not what it should be.

† Vide income entered against Reservoir and Excavation Amicuts and Bungaroo Channels Projects.

Madrantikum Tank	Outlay on original Works and Reconstruction	20,691	1793	22,484	Interest on the Capital Rs 20,691 @ 4 per Cent	952	828	1,780	Gross proceeds from all sources	1099	1099
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs						
					Total						
	Balance of Capital	20,691	1793	22,484	Balance of charge	952	828	1,780			
						952	"	681	Balance of Income	"	271
Palar Ancient	Outlay on original Works and Reconstruction	7,50,282	580	7,50,862	Interest on the Capital Rs 7,50,282 @ 4 per Cent	3,44,731	30,911	3,74,742	Gross proceeds from all sources	9,37,36	8,69	1,02,345
	Deduct deterioration by wear and tear	"	"	"	Maintenance and Repairs	13,917	1,700	15,617			
					Total	3,58,648	31,711	390,359			
	Balance of Capital	7,50,282	580	7,50,862	Balance of charge	264,912	23,102	288,014	Balance of Income	"	"
Perrery Ancient	Outlay on original Works and Reconstruction	154,205	"	154,205	Interest on the Capital Rs 154,205 at 4 per cent	52,563	6,168	58731	Gross proceeds from all sources	55823	15,157	70,980
	Deduct deterioration by wear and tear	"	"	"	Maintenance and Repairs	10,408	858	11,266			
					Total	62,971	7026	69,997			
	Balance of Capital	154,205	"	154,205	Balance of charge	7,148	"		Balance of Income	"	8131	98

The work being still incomplete the increase of Revenue is not taken into account.

Madrantikum Tank	Outlay on original Works and Reconstruction	20,691	1,793	22,484	Interest on the Capital Rs 20,691 @ 4 per cent	952	828	1,780	Gross proceeds from all Sources	1099	1099	The work being still incomplete the increase of Revenue is rather small.
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs							
	Balance of Capital	20,691	1,793	22,484	Total Balance of charge	952	828	1,780				
						952	"	681	Balance of Income	"	271	"
Palar Ancient	Outlay on original Works and Reconstruction	750,282	580	750,862	Interest on the Capital Rs 750,282 @ 4 per cent	3,41,731	30,111	3,74,742	Gross proceeds from all sources	9,936	8609	1,02,345
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	13,917	1,700	15,617				
	Balance of Capital	750,282	580	750,862	Total Balance of charge	3,58,648	31,711	390,359				
						264,912	23,102	288,014	Balance of Income	"	"	"
Porayar Ancient	Outlay on original Works and Reconstruction	154,205	"	154,205	Interest on the Capital Rs 154,205 at 4 per cent	52,563	6,168	58731	Gross proceeds from all sources	55823	15157	71980
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	10,408	858	11,266				
	Balance of Capital	154,205	"	154,205	Total Balances of charges	62,971	7,026	69,997				
						7,148	"	"	Balance of Income	"	8131	982

Allahabad Dam and Channel	Outlay on original Works and Reconstruction	30,437	2,680	33,117	Interest on the Capital Rs 30,437 @ 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	Balances of charges	"	875	"	Balance of Income	2,662	"	1,787
Extending the Cheyaur Branch Project to Sautry and for Widening main Channel as far as Poresay	Outlay on original Works and Reconstruction	77,619	"	77,619	Interest on the Capital Rs 77,619 @ 4 per cent	14,327	3,104	17,431				
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	15,236	924	16,160				
	Balance of Capital	77,619	"	77,619	Total	29,563	4,028	33,591				
Constructing the Cheyaur Branch and Cutting Channel to Poresay	Outlay on original Works and Reconstruction	32,976	"	32,976	Interest on the Capital Rs 32,976 @ 4 per cent	20,624	1,319	21,943				
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	"	"	"				
	Balance of Capital	32,976	"	32,976	Total	20,624	1,319	21,943				
Constructing thirteen Minors in the Cheyaur Works and re-constructing Channels	Outlay on original Works and Reconstruction	2,454	"	2,454	Capital Rs 2,454 @ 4 per cent	1,429	98	1,527				
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	"	"	"				
	Balance of Capital	2,454	"	2,454	Total	1,429	98	1,527				
Channel from Allalem to Sautry and subsidiary Works	Outlay on original Works and Reconstruction	36,840	16,391	53,231	Interest on the Capital Rs 36,840 @ 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				
	Total Balance of Capital for the year Project and subsidiary Works	149,889	16,391	166,280	Grand Total of Charges	52,416	6,918	59,334	Balance of Income	52,009	"	49,380
					Balances of charges	"	3,629	"				

Gross proceeds from all sources for the Cheyaur Project and its subsidiary Works 104,425 3,289 107,714

Allahabad Dam and Channel	Outlay on original Works and Reconstruction	30,437	2,680	33,117	Interest on the Capital Rs. 30,437 @ 4 per cent	24,34	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				
	Balance of Capital	30,437	2,680	33,117	Total	3,500	1,697	5,197				
					Balances of charges	"	875	"	Balance of Income	2,662	"	1,787
Extending the Cheyaur Ancient Project to Sautry and for widening main Channel as far as Pooresay	Outlay on original Works and Reconstruction	77,619	"	77,619	Interest on the Capital Rs. 77,619 @ 4 per cent	14,327	3,104	17,431				
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	15,236	924	16,160				
	Balance of Capital	77,619	"	77,619	Total	29,563	4,028	33,591				
Constructing the Cheyaur Ancient and Cutting Channel to Pooresay	Outlay on original Works and Reconstruction	32,976	"	32,976	Interest on the Capital Rs. 32,976 @ 4 per cent	20,624	1,319	21,943				
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	"	"	"				
	Balance of Capital	32,976	"	32,976	Total	20,624	1,319	21,943				
Constructing thirteen Anicuts in the Cheyaur Ancient Channels	Outlay on original Works and Reconstruction	2,454	"	2,454	Interest on the Capital Rs. 2,454 @ 4 per cent	1,429	98	1,527	Gross proceeds from all sources for the Cheyaur Project and its subordinary Works	104,425	3,289	107,714
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs	"	"	"				
	Balance of Capital	2,454	"	2,454	Total	1,429	98	1,527				
Channel from Nullalem to Sautry and subsidiary Works	Outlay on original Works and Reconstruction	36,840	16,391	53,231	Interest on the Capital Rs. 36,840 @ 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				
Total Balance of Capital for the Cheyaur Project and subordinary Works		149,289	16,391	165,280	Grand Total of Charges	52,416	6,918	59,334	Balance	52,009	"	48,380
					Balances of Charges	"	3,629	"				

Shoorinjee coopum Sank and Lala Works and Samoodrum Sank	Outlay on original Works and Reconstruction	13597			Interest on the Capital Rs 13597 @ 4 per cent	13597	1088	544	1632	Gross proceeds from all sources	123	152	275
	Deduct deterioration by Wear and tear	"			Maintenance and Repairs	"	"	"	"				
	Balance of Capital	13597	"	13597	Balance of Capital		1088	544	1632				
							965	392	1357	Balance of Income	"	"	"
Lower Coleroon Anicut	Outlay on original Works and Reconstruction	129050			Interest on the Capital Rs 129050 @ 4 per Cent	129050	165184	5162	170346	Gross proceeds from all sources	9845361	401913	10247274
	Deduct deterioration by Wear and tear @ 1 per Cent	12581			Maintenance and Repairs	12581	406749	8070	414789				
	Balance of Capital	116469	"	116469	Total Charges		571933	13202	585135	Balance of Income	9273428	388711	9662139

Thorney Island and Lamood Pan

Pollam Aqueduct

Outlay on Original Works and Reconstruction 94,037 " 94,037

Deduct deterioration by wear and tear 11,881 " 11,881

Balance of Capital 82,156 " 82,156

Interest on the Capital at 4 per cent 3,761

Maintenance and Repairs 82,746

Total Charge 78,985

Gross proceeds from all Sources 1,811,549 108,832 1,909,381

1,125,293 83,43 1,33,636

Balance Income 204,278 12,104 216,382

Gross proceeds from all Sources 159,271 96,728 1,92,999

Lower Pagaview Channel, Roman Ancient and the Bombay Channel

Outlay on original Works and Reconstruction 4,9,046 6669 5,16,115

Deduct deterioration by wear and tear 6,166 " 6,166

Balance of Capital 10,388 6669 109,955

Interest on the Capital at 4 per cent 4,644

Maintenance and Repairs 31,585

Total Charge 36,229

Gross proceeds from all Sources 67,201 64,384 7,27,584

31,970 1,386 33,356

Balance of Income 63,555 6,030 69,585 69,645 58354 67,999

Trivady Anicut	Outlay on original Works and Reconstruction	13729	"	13729	Interest on the Capital Rs. 13729 at 4 per Cent									
	Deduct deterioration by wear and tear	2274	"	2274	Maintenance and Repairs									
	Balance of Capital	11455	"	11455	Total Charges									
Vicravandy Anicut and Channel	Outlay on original Works and Reconstruction	15016	"	15016	Interest on the Capital Rs. 15016 at 4 per Cent									
	Deduct deterioration by wear and tear	1300	"	1300	Maintenance and Repairs									
	Balance of Capital	13716	"	13716	Total Charges									
Vanamadavy Anicut	Outlay on original Works and Reconstruction	20993	"	20993	Interest on the Capital Rs. 20993 at 4 per Cent									
	Deduct deterioration by Wear and tear	"	"	"	Maintenance and Repairs									
	Balance of Capital	20993	"	20993	Total of Charges									

						11630	549	12179	Gross proceeds from all sources	697087	29878	626965		
						16760	2981	19741						
						28290	3530	31820	Balance Income	568797	26348	595145		
						8805	601	9406	Gross proceeds from all sources	66705	6858	73563		
						10778	"	10778						
						19583	601	20184	Balance Income	47122	6257	53379		
						4921	839	5760	Gross proceeds from all sources	32070	6751	38821		
						4467	469	4936						
						9388	1308	10696	Balance Income	22682	5443	28125		

Trivadey Anicut	Outlay on original Works and Reconstruction	13729	"	13729	Interest on the Capital A/c 13729 at 4 per Cent	11530	549	12079	Gross pro. ceeds from all sources	197187	29978	62965	
	Deduct deteriora-tion by wear and tear	2274	"	2274	Maintenance and Repairs	16760	2981	19741					
	Balance of Capital	11455	"	11455	Total Charges	28290	3530	31820	Balance Income	165797	26348	595145	
Vicravandy Anicut and Channel	Outlay on original Works and Reconstruction	15016	"	15016	Interest on the Capital A/c 15016 at 4 per Cent	8805	601	9406	Gross pro. ceeds from all sources	66706	6058	73563	
	Deduct deteriora-tion by wear and tear	1300	"	1300	Maintenance and Repairs	10778	"	10778					
	Balance of Capital	13716	"	13716	Total Charges	19583	601	20184	Balance Income	47122	6257	53379	
Vanaimadavy Anicut	Outlay on original Works and Reconstruction	20993	"	20993	Interest on the Capital A/c 20993 at 4 per Cent	4921	839	5760	Gross pro. ceeds from all sources	32070	6951	39021	
	Deduct deteriora-tion by Wear and tear	"	"	"	Maintenance and Repairs	4467	469	4936					
	Balance of Capital	20993	"	20993	Total of Charges	9388	1308	10696	Balance Income	22682	5443	28125	

Ancient across the Manimoo and Channaday River near Kodachellum	Outlay on original Reconstruction	"	34846	34846	Interest on the Capital Rs 34846 at 4 per Cent	2474	1394	3868	Gross proceeds from all sources	10205	5343	15548		
	(Deduct deterioration by Wear and Tear	"	"	"	Maintenance and Repairs	"	942	942						
	Balance of Capital	"	34846	34846	Total Charges	2474	2336	4810	Balance of Income	7731	3007	10738		
Ancient across the Manimoo and Channaday River near Marima Anicut	Outlay on original Reconstruction	"	48914	48914	Interest on the Capital Rs 48914 at 4 per Cent	"	1956	1956	Gross proceeds from all sources		2543	2543		
	(Deduct deterioration by Wear and Tear	"	"	"	Maintenance and Repairs									
	Balance of Capital	"	48914	48914	Total Charges	1956	1956		Balance of Income	"	587	587		

* Includes outlay in 1869-70.

None

None

Upper Anicut in Coleroon	Outlay on original Works and Reconstruction	239,865	800	240,665	Interest on the Capital Rs. 240,665 at 4 per cent	278,265	9,626	287,891			
	Deduct deterioration by wear and tear	"	"	"	Maintenance and Repairs	175,979	2,702	178,681	Gross proceeds from all Sources	1557,728	665,478	1624,206
	Balance of Capital	239,865	800	240,665	Total Charges	454,244	12,328	466,572	Balance Income	1524,484	653,150	1577,634
Lower Anicut in Coleroon	Outlay on original Works and Reconstruction	294,421	3324	297,745	Interest on the Capital Rs. 297,745 at 4 per cent	171,354	11,910	183,264	Gross proceeds from all sources	686,086	33,534	619,620
	Deduct deterioration by wear and tear	"	"	"	Maintenance and Repairs	309,464	5465	314,929				
	Balance of Capital	294,421	3324	297,745	Total Charges	480,818	17,375	498,193	Balance Income	106268	16159	121,427
Nundayanallah in the District of Trichinopoly	Outlay on original Works and Reconstruction	78,554	"	78,554	Interest on the Capital Rs. 78,554 at 4 per cent	25,488	3142	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	3267	34,776	Balance Income	38143	4251	42,894

Shadapully Channel	Improving the Channel and building new Sluices &c.a	69,146	"	69,146	Interest on the Capital £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	"	"	"
Palinçaroyen Channel	Improving and extending the Channel	39,251	"	39,251	Interest on the Capital £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	103,114				
	Balance of Capital	39,251	"	39,251	Balance of Charges	97,263	4,999	102,262	Balance of Income	"	"	"
Cumienpollium Channel	Outlay on original Works and Reconstruction	42,970	"	42,970	Interest on the Capital £42,970 at 4 per Cent	72,192	1,719	73,911				
	Deduct deterioration by Wear and Tear	"	"	"	Maintenance and Repairs	15,619	"	15,619	Gross proceeds from all sources	38,868	"	38,868
					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	4530	81,945	Interest on the Capital Rs. 77,415 at 4 per cent	14,462	3,097	17,559				
	Deduct deterioration by wear and tear	"	"	"	Maintenance and Repairs	17,763	6,585	24,348	Gross proceeds from all sources	11,947	27	11,974
	Balance of Capital	77,415	4530	81,945	Total Balance of Charges	32,225 20,278	9,682 9,655	41,907 29,933	Balance of Income	"	"	"

Yennamakal Channel	Outlay on Original Works and Reconstruction	41,084	1,416	42,500	Interest on the Capital Rs. 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				
	Balance of Capital	22,166	594	22,760	Total Balance of Charges	63,225 13,461	2,314 330	65,539 13,791	Balance of Income	"	"	"

None

None

None

Office of the Controller of
Public Works Accounts
Madras, 14th November 1871.

Subordinary and Recon. Establishm.	49,19,481	95219	50,14,700	49,19,481	at 4 per Cent
Deduct deterioration by Wear and tear at 1 ½ Per Cent	590,614	49194	639,808		Maintenance and Repairs
Balance of Capital	4328867	46,025	4374,892		Total Charges

Original Cost of Buildings	327,374	97,593	3370,967		Interest on Capital at 4 per Cent
Deduct deterioration by Wear & tear	55,170	22,734	533,904		Maintenance and Repairs
Balance of Capital	272,204	64,859	2782,063		Total Charges

Original Cost of Buildings	753,803	76,461	824,254		Interest on Capital at 4 per Cent
Deduct deterioration by Wear & tear	66,237	7538	62,835		Maintenance and Repairs
Total Capital	687,566	68,923	761,419		Total Charges

Dup

Dup Controller of Public Works Accounts

To

The Secretary to Government
Public Works Department
Port Saint George.

Enclosure in a letter from the Controller P.W. Accounts Madras to the Secretary to Government P.W. Department, dated 14th November 1871.

No. 2099A

Sdg:

P.W. 5529/11

Transg. Sang 1124 L 363.

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2/754/71

Public Works Dept.

No. 174 of the Madras proceedings.

Read the following:

From

The Controller of P.W. Accounts (Ltr. No. 2099A dated 14th Novr/71)

The Actg. Chief Engr. for Irrigation (MC. Ltr. No. 204 of 28th Novr/71)

Ordered that the Statement of Remunerative Works for the year 1870/71 submitted by the Controller of Public Works Accounts with his letter No. 2099A dated 14th November 1871 be forwarded to the Government of India.

Collectors will be requested through the Revenue Department to explain,

The modifications proposed by Captain Oakley for 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.

No. 1175 / 19th Sept/92

To

The Secretary to the Government of India

Sir,

Adverting to the correspondence marginally noted, I am directed by the Right Honorable the

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 Pyes.

Referring to paragraphs 1 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.

The

Godavery Works
Kistna —"—
Pennair —"—

250

To The Secy Chief Engr for Irrigation
" Secy Engr R. B. Kennedy
" Major Pilla. with a copy of
Controller Rent. G.O. No 23 dated 19th Sept 92

Dated 22—1—92

Telegram from Govt of India
No 21 Sept 1891
Letter No — dt No 245 dt
25 Sept 1891

the Governor in Council to forward, for the information of the Government of India the Statement of Remunerative Works for the year 1870/71.

It will be observed from the letter of the Controller of Public Works Accounts submitting the Statement that the entries of past expenditure are not for the most part so trustworthy as could be desired, and that the current years' outlay against Capital remains in many cases to be verified with the Progress Reports of Executive Officers,

Officers, there not having been sufficient time after the receipt of the returns in the Controllers' office for exercising this scrutiny.

The Government of India are aware of the difficulties attending the compilation of a return of this character in the Madras Presidency, and His Excellency the Governor in Council fears that under present circumstances, it will not be practicable to make any material improvement, at least with

with regard to the results exhibited against the older projects which appear in the Statements.

In conclusion I am to invite attention to the modifications in the form of statements proposed by the Acting Chief Engineer for Irrigation in paragraph 6 of his note printed herewith.

6 Encl.

Sept 22-1-72

Dis 55 of 54

Govt of 1871 Madras.

PUBLIC WORKS.

To the Chief Engr for Irrigation
and
To the Secretary to the Govt
of India

Dft

Fwd.

Recd.

G. O/ 9th Jany 1872 No/54-17

Nos. 342-343 & 344

Enumerative Works. Issue
of Rs. on the Statement
in the margin showing
Enumerative Works for
72/71 submitted by the
Collector of
Forwarding for sanction
the Statement of
Works for

Rc. 13th Jan/72
69 Dec/71 Rs. 12