5-1-07

Instruments

of

B.

No. 2507 Wash 25-9-86

vgl: File with Cle. 77028

STATEMENT showing outlay compared with grant under all heads of service for six years commencing from 1880-81.

—	Irrigation.				Imperial, Military.		Imperial, Civil Works.		Provincial Civil Buildings, Roads and Services.		Local, Incorporated.		Local, Excluded.		Railways.				Grand Total.	
	Imperial.		Provincial.												Imperial.		Provincial.			
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81 ..	27,12,000	24,91,584	..	*b*3,06,979	5,69,451	5,26,203	1,76,250	1,53,846	15,93,335	15,13,463	5,15,820	3,04,735	56,066	32,860	..	..	..	..	56,22,922	53,29,670
1881-82 ..	29,22,250	27,31,325	3,28,000	2,51,644	4,87,000	4,90,435	2,70,165	2,69,192	14,48,951	12,49,211	3,79,761	2,46,633	72,209	42,392	23,000	23,763	..	..	59,31,336	53,04,595
1882-83 ..	43,95,576	*a*2,15,63,949	4,08,378	3,53,102	6,90,000	6,60,308	2,28,100	2,54,711	15,29,000	17,16,767	86,900	97,836	63,771	54,924	79,000	67,708	2,741	7,941	74,83,466	2,47,77,326
1883-84 ..	51,25,354	49,07,407	3,60,893	3,33,244	5,97,400	5,90,180	2,62,300	2,54,558	22,67,190	21,95,794	61,034	78,866	73,100	71,302	..	..	..	..	87,47,271	84,31,351
1884-85 ..	55,82,996	52,55,019	4,53,669	4,44,978	6,12,800	6,11,757	1,58,400	1,41,448	25,20,000	25,29,891	76,300	79,876	30,117	26,778	59,000	62,242	14,000	13,753	95,07,282	91,65,742
1885-86 ..	53,41,252	53,84,178	6,23,131	6,22,020	4,67,000	4,45,009	88,000	65,862	19,34,000	18,64,533	1,61,000	*c*38,015	1,67,371	1,36,547	58,24,000	54,21,343	12,000	7,010	1,46,17,754	1,39,84,517

a The excess outlay over the grant is due principally to the debit of Rs. 1,76,25,050 being the purchase value of the Madras Irrigation Canal Company.

b The grant appeared under Provincial, Buildings and Roads, in which provision was made in the year, before the order (G.O., No. 837 W., dated 28th March 1881), transferring the work to Irrigation was issued.

c The short outlay is due to the non-acceptance by the Government of India of a sum of Rs. 59,540 proposed to be surrendered by the Local Government and to the reduction of Rs. 60,000 in the outlay on the Kovur-Munjair Junction Canal by the transfer of that amount to 43. Minor Works and Navigation, under the orders of the Government of India.

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	Imperial.		Provincial.												Imperial.		Provincial.			
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81 ..	27,12,000	24,91,584	..	*b*3,06,979	5,69,451	5,26,203	1,76,250	1,53,846	15,93,335	15,13,463	5,15,820	3,04,735	56,066	32,860	..	..	..	..	56,22,922	53,29,670
1881-82 ..	29,22,250	27,31,325	*3,28,000*	*2,51,644*	*4,87,000*	*4,90,435*	*2,70,165*	2,69,192	14,48,951	12,49,211	3,79,761	2,46,633	72,209	42,392	23,000	23,763	..	..	59,31,336	53,04,595
1882-83 ..	43,95,576	*a*2,15,63,949	4,08,378	3,53,102	6,90,000	6,60,308	2,28,100	2,54,711	*15,29,000*	*17,16,767*	*86,900*	*97,836*	*63,771*	*54,921*	*79,000*	67,788	2,741	7,941	74,83,466	2,47,77,326
1883-84 ..	51,25,354	49,07,407	3,60,893	3,33,244	5,97,400	5,90,180	2,62,300	2,54,558	22,67,190	21,95,794	61,034	78,866	73,100	71,302	..	..	..	..	*87,47,271*	*84,31,351*
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1885-86 ..	53,41,252	53,84,178	6,23,131	6,22,020	4,67,000	4,45,009	88,000	65,862	19,34,000	18,64,533	1,61,000	*c*38,015	1,67,371	1,36,547	58,24,000	54,21,343	12,000	7,010	1,46,17,754	1,39,84,517

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	Imperial.		Provincial.												Imperial.		Provincial.			
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
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——	Irrigation.				Imperial, Military.		Imperial, Civil Works.		Provincial Civil Buildings, Roads and Services.		Local, Incorporated.		Local, Excluded.		Railways.				Grand Total.	
	Imperial.		Provincial.												Imperial.		Provincial.			
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81 ..	27,12,000	24,91,584	..	*b*3,06,979	5,69,451	5,26,203	1,76,250	1,53,846	15,93,335	15,13,463	5,15,820	3,04,735	56,066	32,860	..	..	..	..	56,22,922	53,29,670
1881-82 ..	29,22,250	27,31,325	*3,28,000*	*2,51,644*	*4,87,000*	*4,90,435*	2,70,165	2,69,192	14,48,951	12,49,211	3,79,761	2,46,633	72,209	42,392	23,000	23,763	..	..	59,31,336	53,04,595
1882-83 ..	43,95,576	*a*2,15,63,949	4,08,378	3,53,102	6,90,000	6,60,308	2,28,100	*2,54,711*	*15,29,000*	*17,16,767*	*86,900*	*97,836*	*63,771*	*54,924*	*79,000*	67,788	2,741	7,941	74,83,466	2,47,77,326
1883-84 ..	51,25,354	49,07,407	3,60,893	3,33,244	5,97,400	5,90,180	2,62,300	2,54,558	22,67,190	21,95,794	61,034	78,866	73,100	71,302	..	..	..	..	*87,47,271*	*84,31,351*
1884-85 ..	55,82,996	52,55,019	4,53,669	4,44,978	6,12,800	6,11,757	1,58,400	1,41,448	25,20,000	25,29,891	76,300	79,876	30,117	26,778	59,000	62,242	14,000	13,753	95,07,282	91,65,742
1885-86 ..	53,41,252	53,84,178	6,23,131	6,22,020	4,67,000	4,45,009	88,000	65,862	19,34,000	18,64,533	1,61,000	*c*38,015	1,67,371	1,36,547	58,24,000	54,21,343	12,000	7,010	1,46,17,754	1,39,84,517

a The excess outlay over the grant is due principally to the debit of Rs. 1,76,25,050 being the purchase value of the Madras Irrigation Canal Company.

b The grant appeared under Provincial, Buildings and Roads, in which provision was made in the year, before the order (G.O., No. 837 W., dated 28th March 1881), transferring the work to Irrigation was issued.

c The short outlay is due to the non-acceptance by the Government of India of a sum of Rs. 59,540 proposed to be surrendered by the Local Government and to the reduction of Rs. 60,000 in the outlay on the Kovur-Munjair Junction Canal by the transfer of that amount to 43. Minor Works and Navigation, under the orders of the Government of India.

N.B.—The expenditure under Irrigation, Imperial, represents the gross outlay exclusive of expenditure in England. It includes expenditure under Productive Public Works, Capital Account.

STATEMENT showing outlay compared with grant under all heads of service for six years commencing from 1880-81.

——	Irrigation.				Imperial, Military.		Imperial, Civil Works.		Provincial Civil Buildings, Roads and Services.		Local, Incorporated.		Local, Excluded.		Railways.				Grand Total.	
	Imperial.		Provincial.												Imperial.		Provincial.			
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81 ..	27,12,000	24,91,584	..	*b*3,06,979	5,69,451	5,26,203	1,76,250	1,53,846	15,93,335	15,13,463	5,15,820	3,04,735	56,066	32,860	..	..	..	..	56,22,922	53,29,670
1881-82 ..	29,22,250	27,31,325	*3,28,000*	*2,51,644*	*4,87,000*	*4,90,435*	2,70,165	2,69,192	14,48,951	12,49,211	3,79,761	2,46,633	72,209	42,392	23,000	23,763	..	..	59,31,336	53,04,595
1882-83 ..	43,95,576	*a*2,15,63,949	4,08,378	3,53,102	6,90,000	6,60,308	2,28,100	*2,54,711*	*15,29,000*	*17,16,767*	*86,900*	*97,836*	*63,771*	*54,924*	*79,000*	67,788	2,741	7,941	74,83,466	2,47,77,326
1883-84 ..	51,25,354	49,07,407	3,60,893	3,33,244	5,97,400	5,90,180	2,62,300	2,54,558	22,67,190	21,95,794	61,034	78,866	73,100	71,302	..	..	..	..	*87,47,271*	*84,31,351*
1884-85 ..	55,82,996	52,55,019	4,53,669	4,44,978	6,12,800	6,11,757	1,58,400	1,41,448	25,20,000	25,29,891	76,300	79,876	30,117	26,778	59,000	62,242	14,000	13,753	95,07,282	91,65,742
1885-86 ..	53,41,252	53,84,178	6,23,131	6,22,020	4,67,000	4,45,009	88,000	65,862	19,34,000	18,64,533	1,61,000	*c*38,015	1,67,371	1,36,547	58,24,000	54,21,343	12,000	7,010	1,46,17,754	1,39,84,517

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N.B.—The expenditure under Irrigation, Imperial, represents the gross outlay exclusive of expenditure in England. It includes expenditure under Productive Public Works, Capital Account.

STATEMENT showing outlay compared with grant under all heads of service for six years commencing from 1880-81.

—	Irrigation.				Imperial, Military.		Imperial, Civil Works.		Provincial Civil Buildings, Roads and Services.		Local, Incorporated.		Local, Excluded.		Railways.				Grand Total.	
	Imperial.		Provincial.												Imperial.		Provincial.			
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81 ..	27,12,000	24,91,584	..	*b*3,06,979	5,69,451	5,26,203	1,76,250	1,53,846	15,93,335	15,13,463	5,15,820	3,04,735	56,066	32,860	..	..	..	..	56,22,922	53,29,670
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1882-83 ..	43,95,576	*a*2,15,63,949	4,08,378	3,53,102	6,90,000	6,60,308	2,28,100	2,54,711	15,29,000	17,16,767	86,900	97,836	63,771	54,924	79,000	67,788	2,741	7,941	74,83,466	2,47,77,326
1883-84 ..	51,25,354	49,07,407	3,60,893	3,33,244	5,97,400	5,90,180	2,62,300	2,54,558	22,67,190	21,95,794	61,034	78,866	73,100	71,302	..	..	..	..	87,47,271	84,31,351
1884-85 ..	55,82,996	52,55,019	4,53,669	4,44,978	6,12,800	6,11,757	1,58,400	1,41,448	25,20,000	25,29,891	76,300	79,876	30,117	26,778	59,000	62,242	14,000	13,753	95,07,282	91,65,742
1885-86 ..	53,41,252	53,84,178	6,23,131	6,22,020	4,67,000	4,45,009	88,000	65,862	19,34,000	18,64,533	1,61,000	*c*38,015	1,67,371	1,36,547	58,24,000	54,21,343	12,000	7,010	1,46,17,754	1,39,84,517

a The excess outlay over the grant is due principally to the debit of Rs. 1,76,25,050 being the purchase value of the Madras Irrigation Canal Company.

b The grant appeared under Provincial, Buildings and Roads, in which provision was made in the year, before the order (G.O., No. 837 W., dated 28th March 1881), transferring the work to Irrigation was issued.

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STATEMENT showing outlay compared with grant under all heads of service for six years commencing from 1880-81.

——	Irrigation.				Imperial, Military.		Imperial, Civil Works.		Provincial Civil Buildings, Roads and Services.		Local, Incorporated.		Local, Excluded.		Railways.				Grand Total.	
	Imperial.		Provincial.												Imperial.		Provincial.			
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81 ..	27,12,000	24,91,584	..	*b*3,06,979	5,69,451	5,26,203	1,76,250	1,53,846	15,93,335	15,13,463	5,15,820	3,04,735	56,066	32,860	..	..	..	..	56,22,922	53,29,670
1881-82 ..	29,22,250	27,31,325	*3,28,000*	*2,51,644*	*4,87,000*	*4,90,435*	2,70,165	2,69,192	14,48,951	12,49,211	3,79,761	2,46,633	72,209	42,392	23,000	23,763	..	..	59,31,336	53,04,595
1882-83 ..	43,95,576	*a*2,15,63,949	4,08,378	3,53,102	6,90,000	6,60,308	2,28,100	*2,54,711*	*15,29,000*	*17,16,767*	*86,900*	*97,836*	*63,771*	*54,924*	*79,000*	*67,788*	2,741	7,941	74,83,466	2,47,77,326
1883-84 ..	51,25,354	49,07,407	3,60,893	3,33,244	5,97,400	5,90,180	2,62,300	2,54,558	22,67,190	21,95,794	61,034	78,866	73,100	71,302	..	..	..	..	*87,47,271*	*84,31,351*
1884-85 ..	55,82,996	52,55,019	4,53,669	4,44,978	6,12,800	6,11,757	1,58,400	1,41,448	25,20,000	25,29,891	76,300	79,876	30,117	26,778	59,000	62,242	14,000	13,753	95,07,282	91,65,742
1885-86 ..	53,41,252	53,84,178	6,23,131	6,22,020	4,67,000	4,45,009	88,000	65,862	19,34,000	18,64,533	1,61,000	*c*38,015	1,67,371	1,36,547	58,24,000	54,21,343	12,000	7,010	1,46,17,754	1,39,84,517

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STATEMENT showing outlay compared with grant under all heads of service for six years commencing from 1880-81.

——	Irrigation.				Imperial, Military.		Imperial, Civil Works.		Provincial Civil Buildings, Roads and Services.		Local, Incorporated.		Local, Excluded.		Railways.				Grand Total.	
	Imperial.		Provincial.												Imperial.		Provincial.			
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81 ..	27,12,000	24,91,584	..	*b*3,06,979	5,69,451	5,26,203	1,76,250	1,53,846	15,93,335	15,13,463	5,15,820	3,04,735	56,066	32,860	..	..	..	..	56,22,922	53,29,670
1881-82 ..	29,22,250	27,31,325	*3,28,000*	*2,51,644*	*4,87,000*	*4,90,435*	*2,70,165*	*2,69,192*	14,48,951	12,49,211	3,79,761	2,46,633	72,209	42,392	23,000	23,763	..	..	59,31,336	53,04,595
1882-83 ..	43,95,576	*a*2,15,63,949	4,08,378	3,53,102	6,90,000	6,60,308	*2,28,100*	*2,54,711*	*15,29,000*	17,16,767	*86,900*	*97,836*	*63,771*	*54,924*	*79,000*	67,788	2,741	7,941	74,83,466	2,47,77,326
1883-84 ..	51,25,354	49,07,407	3,60,893	3,33,244	5,97,400	5,90,180	2,62,300	2,54,558	22,67,190	21,95,794	61,034	78,866	73,100	71,302	..	..	..	..	87,47,271	84,31,351
1884-85 ..	55,82,996	52,55,019	4,53,669	4,44,978	6,12,800	6,11,757	1,58,400	1,41,448	25,20,000	25,29,891	76,300	79,876	30,117	26,778	59,000	62,242	14,000	13,753	95,07,282	91,65,742
1885-86 ..	53,41,252	53,84,178	6,23,131	6,22,020	4,67,000	4,45,009	88,000	65,862	19,34,000	18,64,533	1,61,000	*c*38,015	1,67,371	1,36,547	58,24,000	54,21,343	12,000	7,010	1,46,17,754	1,39,84,517

a The excess outlay over the grant is due principally to the debit of Rs. 1,76,25,050 being the purchase value of the Madras Irrigation Canal Company.
b The grant appeared under Provincial, Buildings and Roads, in which provision was made in the year, before the order (G.O., No. 837 W., dated 28th March 1881), transferring the work to Irrigation was issued.
c The short outlay is due to the non-acceptance by the Government of India of a sum of Rs. 59,540 proposed to be surrendered by the Local Government and to the reduction of Rs. 60,000 in the outlay on the Kovur-Munjair Junction Canal by the transfer of that amount to 43. Minor Works and Navigation, under the orders of the Government of India.

N.B.—The expenditure under Irrigation, Imperial, represents the gross outlay exclusive of expenditure in England. It includes expenditure under Productive Public Works, Capital Account.

B.

—	Establishment in 1879-80.		Establishment in 1880-81.		Probable cost of establishment during 1886-87.		Probable cost of establishment during 1887-88.		—
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
Direction.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Engineer establishment	2,25,449	..	1,94,217	..	2,20,596	..	2,20,596	..	
Office do. including petty establishment.	83,733	2,841	69,214	3,280	1,14,348	* 2,313	1,14,348	* 2,313	* Represents cost of temporary establishment under direction in 1885-86.
Total ..	3,09,182	2,841	2,63,431	3,280	3,34,944	2,313	3,34,944	2,313	
Construction.									
Engineer establishment	4,34,373	..	3,18,439	..	† 5,89,888	*90,000*	† *5,89,888*	*90,000*	† *Inclusive of the pay of Messrs. Target and Lobb.*
Upper subordinate do.	3,21,698	2,823	2,24,019	1,487	3,57,564	97,500	3,57,564	97,500	
Lower do. do.	83,481	69	6,391	2,552	13,380	2,500	13,380	2,500	
Petty do. do.	5,936	84,783	112	35,559	1,97,760	30,000	1,97,760	30,000	
Office do. do.	1,88,504	820	96,929	14,374	1,71,132	69,660	1,64,640	69,660	
Total ..	10,33,992	88,495	6,45,890	53,972	13,29,724	2,89,660	13,23,232	2,89,660	
Accounts.									
Examiner's establishment	38,326	..	34,370	..	28,800	..	28,800	..	
Accountants' do.	38,120	..	63,865	..	77,088	5,500	77,088	5,500	
Office do.	1,04,460	9,936	23,586	10,237	28,764	2,560	28,764	2,560	
Total ..	1,80,906	9,936	1,21,821	10,237	1,34,652	8,060	1,34,652	8,060	
Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

(*a*) Figures for 1886-87 and 1887-88 have been arrived at with reference to entries in establishment budget estimate for 1886-87.
(*b*) Establishment of the tank maintenance scheme is employed exclusively on estimating.

MADRAS,
21st August 1886.

(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

B.

—	Establishment in				Probable cost of establishment during				—
	1879-80.		1880-81.		1886-87.		1887-88.		
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
Direction.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Engineer establishment	2,25,449	..	1,94,217	..	2,20,596	..	2,20,596	..	
Office do. including petty establishment.	83,733	2,841	69,214	3,280	1,14,348	* 2,313	1,14,348	* 2,313	* Represents cost of temporary establishment under direction in 1885-86.
Total ..	3,09,182	2,841	2,63,431	3,280	3,34,944	2,313	3,34,944	2,313	
Construction.									
Engineer establishment	*4,34,373*	..	*3,18,439*	..	† *5,89,888*	*90,000*	† *5,89,888*	*90,000*	† *Inclusive of the pay of Messrs. Target and Lobb.*
Upper subordinate do.	3,21,698	2,823	2,24,019	1,487	3,57,564	*97,500*	*3,57,564*	*97,500*	
Lower do. do.	83,481	69	6,391	2,552	13,380	2,500	13,380	2,500	
Petty do. do.	5,936	84,783	112	35,559	1,97,760	30,000	1,97,760	30,000	
Office do. do.	1,88,504	820	96,929	14,374	1,71,132	69,660	1,64,640	69,660	
Total ..	10,33,992	88,495	6,45,890	53,972	13,29,724	2,89,660	13,23,232	2,89,660	
Accounts.									
Examiner's establishment	38,326	..	34,370	..	28,800	..	28,800	..	
Accountants' do.	38,120	..	63,865	..	77,088	5,500	77,088	5,500	
Office do.	1,04,460	9,936	23,586	10,237	28,764	2,560	28,764	2,560	
Total ..	1,80,906	9,936	1,21,821	10,237	1,34,652	8,060	1,34,652	8,060	
Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

(*a*) Figures for 1886-87 and 1887-88 have been arrived at with reference to entries in establishment budget estimate for 1886-87.
(*b*) Establishment of the tank maintenance scheme is employed exclusively on estimating.

MADRAS,
21st August 1886.

(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

B.

—	Establishment in				Probable cost of establishment during				—
	1879-80.		1880-81.		1886-87.		1887-88.		
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
Direction.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Engineer establishment	2,25,449	..	1,94,217	..	2,20,596	..	2,20,596	..	
Office do. including petty establishment.	83,733	2,841	69,214	3,280	1,14,348	* 2,313	1,14,348	* 2,313	* Represents cost of temporary establishment under direction in 1885-86.
Total ..	3,09,182	2,841	2,63,431	3,280	3,34,944	2,313	3,34,944	2,313	
Construction.									
Engineer establishment	4,34,373	..	3,18,439	..	† 5,89,888	*90,000*	† 5,89,888	*90,000*	† Inclusive of the pay of Messrs. Target and Lobb.
Upper subordinate do.	3,21,698	2,823	2,24,019	1,487	3,57,564	97,500	3,57,564	97,500	
Lower do. do.	83,481	69	6,391	2,552	13,380	2,500	13,380	2,500	
Petty do. do.	5,936	84,783	112	35,559	1,97,760	30,000	1,97,760	30,000	
Office do. do.	1,88,504	820	96,929	14,374	1,71,132	69,660	1,64,640	69,660	
Total ..	10,33,992	88,495	6,45,890	53,972	13,29,724	2,89,660	13,23,232	2,89,660	
Accounts.									
Examiner's establishment	38,326	..	34,370	..	28,800	..	28,800	..	
Accountants' do.	38,120	..	63,865	..	77,088	5,500	77,088	5,500	
Office do.	1,04,460	9,936	23,586	10,237	28,764	2,560	28,764	2,560	
Total ..	1,80,906	9,936	1,21,821	10,237	1,34,652	8,060	1,34,652	8,060	
Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

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Madras,
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Examiner, Public Works Accounts.

B.

—	Establishment in				Probable cost of establishment during				—
	1879-80.		1880-81.		1886-87.		1887-88.		
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
Direction.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Engineer establishment	2,25,449	..	1,94,217	..	2,20,596	..	2,20,596	..	
Office do. including petty establishment.	83,733	2,841	69,214	3,280	1,14,348	* 2,313	1,14,348	* 2,313	* Represents cost of temporary establishment under direction in 1885-86.
Total ..	3,09,182	2,841	2,63,431	3,280	3,34,944	2,313	3,34,944	2,313	
Construction.									
Engineer establishment	4,34,373	..	3,18,439	..	† 5,89,888	90,000	† 5,89,888	90,000	† Inclusive of the pay of Messrs. Target and Lobb.
Upper subordinate do.	3,21,698	2,823	2,24,019	1,487	3,57,564	97,500	3,57,564	97,500	
Lower do. do.	83,481	69	6,391	2,552	13,380	2,500	13,380	2,500	
Petty do. do.	5,936	84,783	112	35,559	1,97,760	30,000	1,97,760	30,000	
Office do. do.	1,88,504	820	96,929	14,374	1,71,132	69,660	1,64,640	69,660	
Total ..	10,33,992	88,495	6,45,890	53,972	13,29,724	2,89,660	13,23,232	2,89,660	
Accounts.									
Examiner's establishment	38,326	..	34,370	..	28,800	..	28,800	..	
Accountants' do.	38,120	..	63,865	..	77,088	5,500	77,088	5,500	
Office do.	1,04,460	9,936	23,586	10,237	28,764	2,560	28,764	2,560	
Total ..	1,80,906	9,936	1,21,821	10,237	1,34,652	8,060	1,34,652	8,060	
Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

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—	Establishment in				Probable cost of establishment during				—
	1879-80.		1880-81.		1886-87.		1887-88.		
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
Direction.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Engineer establishment	2,25,449	..	1,94,217	..	2,20,596	..	2,20,596	..	
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Engineer establishment	4,34,373	..	3,18,439	..	† 5,89,888	90,000	† 5,89,888	90,000	† Inclusive of the pay of Messrs. Target and Lobb.
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Total ..	10,33,992	88,495	6,45,890	53,972	13,29,724	2,89,660	13,23,232	2,89,660	
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Examiner's establishment	38,326	..	34,370	..	28,800	..	28,800	..	
Accountants' do.	38,120	..	63,865	..	77,088	5,500	77,088	5,500	
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Total ..	1,80,906	9,936	1,21,821	10,237	1,34,652	8,060	1,34,652	8,060	
Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

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—	Establishment in 1879-80.		Establishment in 1880-81.		Probable cost of establishment during 1886-87.		Probable cost of establishment during 1887-88.		—
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
Direction.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Engineer establishment	2,25,449	..	1,94,217	..	2,20,596	..	2,20,596	..	
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Examiner's establishment	38,326	..	34,370	..	28,800	..	28,800	..	
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Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

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—	Establishment in				Probable cost of establishment during				—
	1879-80.		1880-81.		1886-87.		1887-88.		
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
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Examiner's establishment	38,326	..	34,370	..	28,800	..	28,800	..	
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—	Establishment in 1879-80.		Establishment in 1880-81.		Probable cost of establishment during 1886-87.		Probable cost of establishment during 1887-88.		—
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
Direction.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
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Office do.	1,04,460	9,936	23,586	10,237	28,764	2,560	28,764	2,560	
Total ..	1,80,906	9,936	1,21,821	10,237	1,34,652	8,060	1,34,652	8,060	
Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

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—	Establishment in 1879-80.		Establishment in 1880-81.		Probable cost of establishment during 1886-87.		Probable cost of establishment during 1887-88.		—
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
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Office do.	1,04,460	9,936	23,586	10,237	28,764	2,560	28,764	2,560	
Total ..	1,80,906	9,936	1,21,821	10,237	1,34,652	8,060	1,34,652	8,060	
Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

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—	Establishment in 1879-80.		Establishment in 1880-81.		Probable cost of establishment during 1886-87.		Probable cost of establishment during 1887-88.		—
	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	Permanent salaries.	Temporary salaries.	
Direction.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Engineer establishment	2,25,449	..	1,94,217	..	2,20,596	..	2,20,596	..	
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Examiner's establishment	38,326	..	34,370	..	28,800	..	28,800	..	
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Office do.	1,04,460	9,936	23,586	10,237	28,764	2,560	28,764	2,560	
Total ..	1,80,906	9,936	1,21,821	10,237	1,34,652	8,060	1,34,652	8,060	
Grand Total ..	15,24,080	1,01,272	10,31,142	67,489	17,99,320	3,00,033	17,92,828	3,00,033	

(*a*) Figures for 1886-87 and 1887-88 have been arrived at with reference to entries in establishment budget estimate for 1886-87.
(*b*) Establishment of the tank maintenance scheme is employed exclusively on estimating.

MADRAS,
21st August 1886.

(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

A.—Statement of percentage charge of establishment to works and repairs in Madras Public Works Department based on actuals from 1878-79 to 1885-86 and budget estimates for 1886-87.

Items.	Description.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	Budget estimate, 1886-87.	Remarks.
1	Total outlay on works under all heads of service, Imperial, Provincial, and Local.	Rs. 61,89,606	Rs. 47,40,407	Rs. 37,43,891	Rs. 35,83,572	Rs. 2,28,25,199	Rs. 62,60,384	Rs. 67,22,084	Rs. 59,35,772	Rs. 61,81,538	Note—
2	Total establishment under all heads of services.	28,74,373	23,09,770	14,43,218	16,14,357	18,21,957	19,66,942	21,43,674	22,37,413	25,00,568	(1) The percentage charges for establishment during the years 1882-83 to 1885-86 have been calculated on outlay exclusive of payment made in England on account of Kurnool canal—
3	Percentage charge for establishment without deduction of any kind.	46·4	48·7	38·5	45 0	35·0	32·0	31·9	37·8	40·4	Rs. 1882-83 .. 176,25,050 1883-84 .. 1,27,860 1884-85 .. 7,020 1885-86 .. 21,440
	Deductions.										(2) The bulk of Local Fund expenditure began to be transferred to the District Boards from January 1880.
4	Direct revenue under Imperial, Provincial, and Local.	8,91,890	4,12,153	5,06,283	6,29,147	4,56,212	3,60,396	3,41,288	3,70,660	3,39,750	(3) Minor irrigation repairs were transferred to Civil Department in 1880-81.
5	Ten per cent. on the above ..	89,189	41,215	50,628	62,914	45,621	36,039	34,129	37,066	33,975	(4) Special establishments for the investigation of irrigation projects were entertained from 1881-82.
6	Indirect revenue, Major works, Irrigation.	*30,84,696*	*33,83,811*	*31,99,746*	*31,71,984*	*29,86,091*	*32,58,379*	28,61,121	(a) 36,29,067	33,91,000	(5) Special establishments for the investigation and restoration of tank works were entertained from 1883-84.
7	Six per cent. on the above ..	1,85,082	2,03,028	1,91,984	1,90,319	1,79,165	1,95,502	1,71,666	2,17,743	2,03,460	(a) Includes the revised estimate for Sangam project for which actuals are not yet available.
8	Old irrigation revenue from Major works, Irrigation.	(b) 27,38,094	(b) 27,38,944	(b) 27,40,074	27,35,265	27,41,492	27,43,467	27,50,337	27,54,777	28,14,000	(b) Actuals for these years not being available the averages of succeeding three years have been taken for the purposes of this statement.
9	Six per cent. on the above ..	1,64,286	1,64,337	1,64,404	1,64,116	1,64,489	1,64,608	1,65,020	1,65,286	1,68,840	
10	Special establishment for tank maintenance scheme.						42,720	93,920	1,27,246	1,60,400	
11	Special establishment for Project divisions.				11,248	57,943	40,183	51,477	49,617	21,400	
12	Contribution on account, of the scrutiny of Local Fund works in the Chief Engineer's and Superintending Engineers' offices.					21,250	21,250	21,250	21,250	21,250	
13	Total deductions, Items (5) + (7) + (9) + (10) + (11) + (12).	4,38,557	4,08,580	4,07,016	4,28,597	4,68,468	5,06,302	5,37,462	6,18,208	6,09,325	
14	Correct establishment charges, Items (2) — (13).	24,35,816	19,01,190	10,36,202	11,85,760	13,53,489	14,66,640	16,06,212	16,19,205	18,91,243	
15	Correct percentage charges of (14) on (1).	39·3	40·1	27·6	33·0	26·0	23·9	23·9	27·4	30·5	

Madras,
4th September 1886.

(Signed) D. C. Gordon,
Examiner, Public Works Accounts.

A.—STATEMENT of percentage charge of establishment to works and repairs in Madras Public Works Department based on actuals from 1878-79 to 1885-86 and budget estimates for 1886-87.

Items.	Description.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	Budget estimate, 1886-87.	Remarks.
		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
1	Total outlay on works under all heads of service, Imperial, Provincial, and Local.	61,89,606	47,40,407	37,43,891	35,83,572	2,28,25,199	62,60,384	67,22,084	59,35,772	61,81,538	NOTE—
2	Total establishment under all heads of services.	28,74,373	23,09,770	14,43,218	16,14,357	18,21,957	19,66,942	21,43,674	22,37,413	25,00,568	
3	Percentage charge for establishment without deduction of any kind.	46·4	48·7	38·5	45 0	35·0	32·0	31·9	37·8	40·4	
	DEDUCTIONS.										
4	Direct revenue under Imperial, Provincial, and Local.	8,91,890	4,12,153	5,06,283	6,29,147	4,56,212	3,60,396	3,41,288	3,70,660	3,39,750	
5	Ten per cent. on the above ..	89,189	41,215	50,628	62,914	45,621	36,039	34,129	37,066	33,975	
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8	Old irrigation revenue from Major works, Irrigation.	(b) 27,38,094	(b) 27,38,944	(b) 27,40,074	27,35,265	27,41,492	27,43,467	27,50,337	27,54,777	28,14,000	
9	Six per cent. on the above ..	1,64,286	1,64,337	1,64,404	1,64,116	1,64,489	1,64,608	1,65,020	1,65,286	1,68,840	
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11	Special establishment for Project divisions.				11,248	57,943	40,183	51,477	49,617	21,400	
12	Contribution on account, of the scrutiny of Local Fund works in the Chief Engineer's and Superintending Engineers' offices.					21,250	21,250	21,250	21,250	21,250	
13	Total deductions, Items (5) + (7) + (9) + (10) + (11) + (12).	4,38,557	4,08,580	4,07,016	4,28,597	4,68,468	5,06,302	5,37,462	6,18,208	6,09,325	
14	Correct establishment charges, Items (2) — (13).	24,35,816	19,01,190	10,36,202	11,85,760	13,53,489	14,66,640	16,06,212	16,19,205	18,91,243	
15	Correct percentage charges of (14) on (1).	39·3	40·1	27·6	33·0	26·0	23 9	23·9	27·4	30·5	

NOTE—

(1) The percentage charges for establishment during the years 1882-83 to 1885-86 have been calculated on outlay exclusive of payment made in England on account of Kurnool canal—

	RS.
1882-83 ..	176,25,050
1883-84 ..	1,27,860
1884-85 ..	7,020
1885-86 ..	21,440

(2) The bulk of Local Fund expenditure began to be transferred to the District Boards from January 1880.

(3) Minor irrigation repairs were transferred to Civil Department in 1880-81.

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(a) Includes the revised estimate for Sangam project for which actuals are not yet available.

(b) Actuals for these years not being available the averages of succeeding three years have been taken for the purposes of this statement.

MADRAS,
4th September 1886.

(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

A.—STATEMENT of percentage charge of establishment to works and repairs in Madras Public Works Department based on actuals from 1878-79 to 1885-86 and budget estimates for 1886-87.

Items.	Description.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	Budget estimate, 1886-87.	Remarks.
		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	NOTE—
1	Total outlay on works under all heads of service, Imperial, Provincial, and Local.	61,89,606	47,40,407	37,43,891	35,83,572	2,28,25,199	62,60,384	67,22,084	59,35,772	61,81,538	(1) The percentage charges for establishment during the years 1882-83 to 1885-86 have been calculated on outlay exclusive of payment made in England on account of Kurnool canal—
2	Total establishment under all heads of services.	28,74,373	23,09,770	14,43,218	16,14,357	18,21,957	19,66,942	21,43,674	22,37,413	25,00,568	
3	Percentage charge for establishment without deduction of any kind.	46·4	48·7	38·5	45 0	35·0	32·0	31·9	37·8	40·4	
	DEDUCTIONS.										
4	Direct revenue uuder Imperial, Provincial, and Local.	8,91,890	4,12,153	5,06,283	6,29,147	4,56,212	3,60,396	3,41,288	3,70,660	3,39,750	
5	Ten per cent. on the above ..	89,189	41,215	50,628	62,914	45,621	36,039	34,129	37,066	33,975	
6	Indirect revenue, Major works, Irrigation.	30,84,696	33,83,811	31,99,745	31,71,984	29,86,091	32,58,379	28,61,121	(a) 36,29,067	33,91,000	
7	Six per cent. on the above ..	1,85,082	2,03,028	1,91,984	1,90,319	1,79,165	1,95,502	1,71,666	2,17,743	2,03,460	
8	Old irrigation revenue from Major works, Irrigation.	(b) 27,38,094	(b) 27,38,944	(b) 27,40,074	27,35,265	27,41,492	27,43,467	27,50,337	27,54,777	28,14,000	
9	Six per cent. on the above ..	1,64,286	1,64,337	1,64,404	1,64,116	1,64,489	1,64,608	1,65,020	1,65,286	1,68,840	
10	Special establishment for tank maintenance scheme.						42,720	93,920	1,27,246	1,60,400	
11	Special establishment for Project divisions.				11,248	57,943	40,183	51,477	49,617	21,400	
12	Contribution on account, of the scrutiny of Local Fund works in the Chief Engineer's and Superintending Engineers' offices.					21,250	21,250	21,250	21,250	21,250	
13	Total deductions, Items (5) + (7)+ (9) + (10) + (11) + (12).	4,38,557	4,08,580	4,07,016	4,28,597	4,68,468	5,06,302	5,37,462	6,18,208	6,09,325	
14	Correct establishment charges, Items (2) — (13).	24,35,816	19,01,190	10,36,202	11,85,760	13,53,489	14,66,640	16,06,212	16,19,205	18,91,243	
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(*a*) Includes the revised estimate for Sangam project for which actuals are not yet available.

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MADRAS,
4th September 1886.

(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

A.—STATEMENT of percentage charge of establishment to works and repairs in Madras Public Works Department based on actuals from 1878-79 to 1885-86 and budget estimates for 1886-87.

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		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
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	DEDUCTIONS.									
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11	Special establishment for Project divisions.				11,248	57,943	40,183	51,477	49,617	21,400
12	Contribution on account, of the scrutiny of Local Fund works in the Chief Engineer's and Superintending Engineers' offices.					21,250	21,250	21,250	21,250	21,250
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NOTE—

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MADRAS,
4th September 1886.

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Examiner, Public Works Accounts.

A.—STATEMENT of percentage charge of establishment to works and repairs in Madras Public Works Department based on actuals from 1878-79 to 1885-86 and budget estimates for 1886-87.

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7	Six per cent. on the above ..	*1,85,082*	*2,03,028*	*1,91,984*	*1,90,319*	*1,79,165*	*1,95,502*	*1,71,666*	*2,17,743*	*2,03,460*
8	Old irrigation revenue from Major works, Irrigation.	(*b*) 27,38,094	(*b*) 27,38,944	(*b*) 27,40,074	27,35,265	27,41,492	27,43,467	27,50,337	27,54,777	28,14,000
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1884-85 ..	7,020
1885-86 ..	21,440

(2) The bulk of Local Fund expenditure began to be transferred to the District Boards from January 1880.

(3) Minor irrigation repairs were transferred to Civil Department in 1880-81.

(4) Special establishments for the investigation of irrigation projects were entertained from 1881-82.

(5) Special establishments for the investigation and restoration of tank works were entertained from 1883-84.

(*a*) Includes the revised estimate for Sangam project for which actuals are not yet available.

(*b*) Actuals for these years not being available the averages of succeeding three years have been taken for the purposes of this statement.

MADRAS,
4th September 1886.

(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

A.—STATEMENT of percentage charge of establishment to works and repairs in Madras Public Works Department based on actuals from 1878-79 to 1885-86 and budget estimates for 1886-87.

Items.	Description.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	Budget estimate, 1886-87.	Remarks.
		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	NOTE—
1	Total outlay on works under all heads of service, Imperial, Provincial, and Local.	61,89,606	47,40,407	37,43,891	35,83,572	2,28,25,199	62,60,384	67,22,084	59,35,772	61,81,538	(1) The percentage charges for establishment during the years 1882-83 to 1885-86 have been calculated on outlay exclusive of payment made in England on account of Kurnool canal—
2	Total establishment under all heads of services.	28,74,373	23,09,770	14,43,218	16,14,357	18,21,957	19,66,942	21,43,674	22,37,413	25,00,568	
3	Percentage charge for establishment without deduction of any kind.	46·4	48·7	38·5	45 0	35·0	32·0	31·9	37·8	40·4	
	DEDUCTIONS.										
4	Direct revenue under Imperial, Provincial, and Local.	8,91,890	4,12,153	5,06,283	6,29,147	4,56,212	3,60,396	3,41,288	3,70,660	3,39,750	
5	Ten per cent. on the above ..	89,189	41,215	50,628	62,914	45,621	36,039	34,129	37,066	33,975	
6	Indirect revenue, Major works, Irrigation.	30,84,696	33,83,811	31,99,746	31,71,984	29,86,091	32,58,379	28,61,121	(a) 36,29,067	33,91,000	
7	Six per cent. on the above ..	*1,85,082*	*2,03,028*	*1,91,984*	*1,90,319*	*1,79,165*	*1,95,502*	*1,71,666*	*2,17,743*	*2,03,460*	
8	Old irrigation revenue from Major works, Irrigation.	(b) 27,38,094	(b) 27,38,944	(b) 27,40,074	27,35,265	27,41,492	27,43,467	27,50,337	27,54,777	28,14,000	
9	Six per cent. on the above ..	1,64,286	1,64,337	1,64,404	1,64,116	1,64,489	1,64,608	1,65,020	1,65,286	1,68,840	
10	Special establishment for tank maintenance scheme.						42,720	93,920	1,27,246	1,60,400	
11	Special establishment for Project divisions.				11,248	57,943	40,183	51,477	49,617	21,400	
12	Contribution on account of the scrutiny of Local Fund works in the Chief Engineer's and Superintending Engineers' offices.					21,250	21,250	21,250	21,250	21,250	
13	Total deductions, Items (5) + (7) + (9) + (10) + (11) + (12).	4,38,557	4,08,580	4,07,016	4,28,597	4,68,468	5,06,302	5,37,462	6,18,208	6,09,325	
14	Correct establishment charges, Items (2) — (13).	24,35,816	19,01,190	10,36,202	11,85,760	13,53,489	14,66,640	16,06,212	16,19,205	18,91,243	
15	Correct percentage charges of (14) on (1).	39·3	40·1	27·6	33·0	26·0	23 9	23·9	27·4	30·5	

1882-83 ..	RS. 176,25,050
1883-84 ..	1,27,860
1884-85 ..	7,020
1885-86 ..	21,440

(2) The bulk of Local Fund expenditure began to be transferred to the District Boards from January 1880.

(3) Minor irrigation repairs were transferred to Civil Department in 1880-81.

(4) Special establishments for the investigation of irrigation projects were entertained from 1881-82.

(5) Special establishments for the investigation and restoration of tank works were entertained from 1883-84.

(*a*) Includes the revised estimate for Sangam project for which actuals are not yet available.

(*b*) Actuals for these years not being available the averages of succeeding three years have been taken for the purposes of this statement.

MADRAS,
4th September 1886.

(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

A.—Statement of percentage charge of establishment to works and repairs in Madras Public Works Department based on actuals from 1878-79 to 1885-86 and budget estimates for 1886-87.

Items.	Description.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	Budget estimate, 1886-87.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1	Total outlay on works under all heads of service, Imperial, Provincial, and Local.	61,89,606	47,40,407	37,43,891	35,83,572	2,28,25,199	62,60,384	67,22,084	59,35,772	61,81,538
2	Total establishment under all heads of services.	28,74,373	23,09,770	14,43,218	16,14,357	18,21,957	19,66,942	21,43,674	22,37,413	25,00,568
3	Percentage charge for establishment without deduction of any kind.	46·4	48·7	38·5	45 0	35·0	32·0	31·9	37·8	40·4
	Deductions.									
4	Direct revenue under Imperial, Provincial, and Local.	8,91,890	4,12,153	5,06,283	6,29,147	4,56,212	3,60,396	3,41,288	3,70,660	3,39,750
5	Ten per cent. on the above ..	89,189	41,215	50,628	62,914	45,621	36,039	34,129	37,066	33,975
6	Indirect revenue, Major works, Irrigation.	30,84,696	33,83,811	31,99,745	31,71,984	29,86,091	32,58,379	28,61,121	(a) 36,29,067	33,91,000
7	Six per cent. on the above ..	*1,85,082*	*2,03,028*	*1,91,984*	*1,90,319*	*1,79,165*	*1,95,502*	*1,71,666*	*2,17,743*	*2,03,460*
8	Old irrigation revenue from Major works, Irrigation.	(b) 27,38,094	(b) 27,38,944	(b) 27,40,074	27,35,265	27,41,492	27,43,467	27,50,337	27,54,777	28,14,000
9	Six per cent. on the above ..	1,64,286	1,64,337	1,64,404	1,64,116	1,64,489	1,64,608	1,65,020	1,65,286	1,68,840
10	Special establishment for tank maintenance scheme.						42,720	93,920	1,27,246	1,60,400
11	Special establishment for Project divisions.				11,248	57,943	40,183	51,477	49,617	21,400
12	Contribution on account, of the scrutiny of Local Fund works in the Chief Engineer's and Superintending Engineers' offices.					21,250	21,250	21,250	21,250	21,250
13	Total deductions, Items (5) + (7) + (9) + (10) + (11) + (12).	4,38,557	4,08,580	4,07,016	4,28,597	4,68,468	5,06,302	5,37,462	6,18,208	6,09,325
14	Correct establishment charges, Items (2) — (13).	24,35,816	19,01,190	10,36,202	11,85,760	13,53,489	14,66,640	16,06,212	16,19,205	18,91,243
15	Correct percentage charges of (14) on (1).	39·3	40·1	27·6	33·0	26·0	23·9	23·9	27·4	30·5

Note—

(1) The percentage charges for establishment during the years 1882-83 to 1885-86 have been calculated on outlay exclusive of payment made in England on account of Kurnool canal—

	Rs.
1882-83 ..	176,25,050
1883-84 ..	1,27,860
1884-85 ..	7,020
1885-86 ..	21,440

(2) The bulk of Local Fund expenditure began to be transferred to the District Boards from January 1880.

(3) Minor irrigation repairs were transferred to Civil Department in 1880-81.

(4) Special establishments for the investigation of irrigation projects were entertained from 1881-82.

(5) Special establishments for the investigation and restoration of tank works were entertained from 1883-84.

(a) Includes the revised estimate for Sangam project for which actuals are not yet available.

(b) Actuals for these years not being available the averages of succeeding three years have been taken for the purposes of this statement.

Madras,
4th September 1886.

(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

A.—Statement of percentage charge of establishment to works and repairs in Madras Public Works Department based on actuals from 1878-79 to 1885-86 and budget estimates for 1886-87.

Items.	Description.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	Budget estimate, 1886-87.	Remarks.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1	Total outlay on works under all heads of service, Imperial, Provincial, and Local.	61,89,606	47,40,407	37,43,891	35,83,572	2,28,25,199	62,60,384	67,22,084	59,35,772	61,81,538	
2	Total establishment under all heads of services.	28,74,373	23,09,770	14,43,218	16,14,357	18,21,957	19,66,942	21,43,674	22,37,413	25,00,568	
3	Percentage charge for establishment without deduction of any kind.	46·4	48·7	38·5	45·0	35·0	32·0	31·9	37·8	40·4	
	Deductions.										
4	Direct revenue under Imperial, Provincial, and Local.	8,91,890	4,12,153	5,06,283	6,29,147	4,56,212	3,60,396	3,41,288	3,70,660	3,39,750	
5	Ten per cent. on the above ..	89,189	41,215	50,628	62,914	45,621	36,039	34,129	37,066	33,975	
6	Indirect revenue, Major works, Irrigation.	30,84,696	33,83,811	31,99,746	31,71,984	29,86,091	32,58,379	28,61,121	(a) 36,29,067	33,91,000	
7	Six per cent. on the above ..	*1,85,082*	*2,03,028*	*1,91,984*	*1,90,319*	*1,79,165*	*1,95,502*	*1,71,666*	*2,17,743*	*2,03,460*	
8	Old irrigation revenue from Major works, Irrigation.	(b) 27,38,094	(b) 27,38,944	(b) 27,40,074	27,35,265	27,41,492	27,43,467	27,50,337	27,54,777	28,14,000	
9	Six per cent. on the above ..	1,64,286	1,64,337	1,64,404	1,64,116	1,64,489	1,64,608	1,65,020	1,65,286	1,68,840	
10	Special establishment for tank maintenance scheme.						42,720	93,920	1,27,246	1,60,400	
11	Special establishment for Project divisions.				11,248	57,943	40,183	51,477	49,617	21,400	
12	Contribution on account of the scrutiny of Local Fund works in the Chief Engineer's and Superintending Engineers' offices.					21,250	21,250	21,250	21,250	21,250	
13	Total deductions, Items (5) + (7) + (9) + (10) + (11) + (12).	4,38,557	4,08,580	4,07,016	4,28,597	4,68,468	5,06,302	5,37,462	6,18,208	6,09,325	
14	Correct establishment charges, Items (2) — (13).	24,35,816	19,01,190	10,36,202	11,85,760	13,53,489	14,66,640	16,06,212	16,19,205	18,91,243	
15	Correct percentage charges of (14) on (1).	39·3	40·1	27·6	33·0	26·0	23 9	23·9	27·4	30·5	

Note—

(1) The percentage charges for establishment during the years 1882-83 to 1885-86 have been calculated on outlay exclusive of payment made in England on account of Kurnool canal—

	Rs.
1882-83 ..	176,25,050
1883-84 ..	1,27,860
1884-85 ..	7,020
1885-86 ..	21,440

(2) The bulk of Local Fund expenditure began to be transferred to the District Boards from January 1880.

(3) Minor irrigation repairs were transferred to Civil Department in 1880-81.

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(a) Includes the revised estimate for Sangam project for which actuals are not yet available.

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(Signed) D. C. GORDON,
Examiner, Public Works Accounts.

Madras,
4th September 1886.

STATEMENT showing the grants for and outlay on Productive, Protective, Irrigation, Navigation and Agricultural Works from Imperial funds from 1880-81 to 1885-86.

Years.	PRODUCTIVE PUBLIC WORKS, CAPITAL ACCOUNT.			PRODUCTIVE PUBLIC WORKS, REVENUE ACCOUNT.			PRODUCTIVE WORKS.			IRRIGATION, NAVIGATION AND AGRICULTURAL WORKS.			Remarks.
	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	Grant		Outlay.	
	Budget.	Final.		Budget.	Final.		Budget.	Final.		Budget.	Final.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
1880-81 ..	1,55,000	2,05,000	1,10,893	6,57,000	8,05,109	8,69,798	..	..	..	17,50,000	16,46,891	14,92,726	The amounts entered in columns 11 to 13 include the following amounts for Tank Maintenance Works:—
1881-82 ..	50,000	3,59,250	3,95,135	6,93,000	7,61,000	7,29,767	..	60,000	59,832	17,00,000	17,42,000	15,46,808	
1882-83 ..	10,00,000	*1,87,17,461	*1,86,15,996	10,97,111	11,60,834	7,84,110	..	63,670	64,253	22,16,000	20,88,611	20,99,590	
1883-84 ..	16,60,000	17,55,353	16,17,994	12,09,600	9,02,409	9,03,651	2,00,000	1,79,191	1,78,600	19,78,300	22,88,401	22,07,234	
1884-85 ..	19,84,000	17,67,510	16,10,444	9,20,590	9,79,868	9,98,996	3,99,000	3,26,618	2,20,623	23,77,000	25,09,000	24,24,956	
1885-86 ..	18,20,000	15,53,000	† 14,91,980	10,00,000	10,45,510	†10,34,138	4,30,000	3,47,742	† 3,35,004	25,95,000	23,95,000	† 23,24,266	

	Budget.	Final Grant.	Outlay.
	RS.	RS.	RS.
1883-84 ..	1,50,000	67,400	53,481
1884-85 ..	3,00,000	2,10,022	1,87,069
1885-86 ..	4,50,000	3,34,200	† 3,34,321

* Including Rs. 1,76,25,050 purchase money of the Kurnool canal. † Oulay for 1885-86 is not final, the Examiner's accounts have not yet been closed.

Principal causes of short outlay.

1880-81.—Short outlay under Productive Public Works, Capital Account, was due to the refusal of the Government of India to sanction the estimate for widening the main canal in the Kistna Western division and to the transfer of the outlay on certain works to Revenue Account and that under Irrigation and Navigation and Agricultural works due partly to the want of adequate establishment and partly to want of proper arrangements for repairing minor Irrigation works transferred to Collectors.

1881-82.—Short outlay under Productive Public Works, Revenue Account, was due to changes in the executive staff in the Godávari Central division and that under Irrigation, Navigation and Agricultural works was due partly to the transfer of the expenditure on Commamur canal to Productive Public Works, Capital Account, and partly to the re-organization of the department.

1882-83.—Short outlay under Productive Public Works, Capital Account, was due to the necessity for revising estimates in the Kistna delta, that under Productive Public Works, Revenue Account, due to old maintenance charges and a portion of the percentage charge on Indirect Revenue on account of establishment having been debited to Irrigation, Navigation and Agricultural works

1883-84.—Rs. 1,23,573 of short outlay under Productive Public Works, Capital Account, were due to receipts on Capital Account of the Kurnool canal which were not estimated when the revised estimate was prepared. Short outlay under Irrigation, Navigation and Agricultural works was due to tanks being full in the working season and scarcity of labor.

1884-85.—(1) Prevalence of cholera in Kistna and Nellore districts; (2) competition for labor with railway works; (3) heavy rainfall and unusual floods in the Southern districts; and (4) insufficiency of the rates provided in the Barur and Rushikulya Project estimates.

1885-86.—Short outlay due to scarcity of labor, prevalence of cholera in some parts, unseasonable rains and presence of water in channels and tanks during working season.

STATEMENT showing the grants for and outlay on Productive, Protective, Irrigation, Navigation and Agricultural Works from Imperial funds from 1880-81 to 1885-86.

Years.	Productive Public Works, Capital Account.			Productive Public Works, Revenue Account.			Productive Works.			Irrigation, Navigation and Agricultural Works.			Remarks.
	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	
	Budget.	Final.		Budget.	Final.		Budget.	Final.		Budget.	Final.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1880-81 ..	1,55,000	2,05,000	1,10,893	6,57,000	8,05,109	8,69,798	..	..	..	17,50,000	16,46,891	14,92,726	The amounts entered in columns 11 to 13 include the following amounts for Tank Maintenance Works:—
1881-82 ..	50,000	3,59,250	3,95,135	6,93,000	7,61,000	7,29,767	..	60,000	59,832	17,00,000	17,42,000	15,46,808	
1882-83 ..	10,00,000	*1,87,17,461	*1,86,15,996	10,97,111	11,60,834	7,84,110	..	63,670	64,253	22,16,000	20,88,611	20,99,590	
1883-84 ..	16,60,000	17,55,353	16,17,994	12,09,600	9,02,409	9,03,651	2,00,000	1,79,191	1,78,600	19,78,300	22,88,401	22,07,234	
1884-85 ..	19,84,000	17,67,510	16,10,444	9,20,590	9,79,868	9,98,996	3,99,000	3,26,618	2,20,623	23,77,000	25,09,000	24,24,956	
1885-86 ..	18,20,000	15,53,000	† 14,91,980	10,00,000	10,45,510	†10,34,138	4,30,000	3,47,742	† 3,35,004	25,95,000	23,95,000	† 23,24,266	

	Budget.	Final Grant.	Outlay.
	Rs.	Rs.	Rs.
1883-84 ..	1,50,000	67,400	53,481
1884-85 ..	3,00,000	2,10,022	1,87,069
1885-86 ..	4,50,000	3,34,200	† 3,34,321

* Including Rs. 1,76,25,050 purchase money of the Kurnool canal. † Oulay for 1885-86 is not final, the Examiner's accounts have not yet been closed.

Principal causes of short outlay.

1880-81.—Short outlay under Productive Public Works, Capital Account, was due to the refusal of the Government of India to sanction the estimate for widening the main canal in the Kistna Western division and to the transfer of the outlay on certain works to Revenue Account and that under Irrigation and Navigation and Agricultural works due partly to the want of adequate establishment and partly to want of proper arrangements for repairing minor Irrigation works transferred to Collectors.

1881-82.—Short outlay under Productive Public Works, Revenue Account, was due to changes in the executive staff in the Godávari Central division and that under Irrigation, Navigation and Agricultural works was due partly to the transfer of the expenditure on Commamur canal to Productive Public Works, Capital Account, and partly to the re-organization of the department.

1882-83.—Short outlay under Productive Public Works, Capital Account, was due to the necessity for revising estimates in the Kistna delta, that under Productive Public Works, Revenue Account, due to old maintenance charges and a portion of the percentage charge on Indirect Revenue on account of establishment having been debited to Irrigation, Navigation and Agricultural works.

1883-84.—Rs. 1,23,573 of short outlay under Productive Public Works, Capital Account, were due to receipts on Capital Account of the Kurnool canal which were not estimated when the revised estimate was prepared. Short outlay under Irrigation, Navigation and Agricultural works was due to tanks being full in the working season and scarcity of labor.

1884-85.—(1) Prevalence of cholera in Kistna and Nellore districts; (2) competition for labor with railway works; (3) heavy rainfall and unusual floods in the Southern districts; and (4) insufficiency of the rates provided in the Barur and Rushikulya Project estimates.

1885-86.—Short outlay due to scarcity of labor, prevalence of cholera in some parts, unseasonable rains and presence of water in channels and tanks during working season.

STATEMENT showing the grants for and outlay on Productive, Protective, Irrigation, Navigation and Agricultural Works from Imperial funds from 1880-81 to 1885-86.

Years.	PRODUCTIVE PUBLIC WORKS, CAPITAL ACCOUNT.			PRODUCTIVE PUBLIC WORKS, REVENUE ACCOUNT.			PRODUCTIVE WORKS.			IRRIGATION, NAVIGATION AND AGRICULTURAL WORKS.			Remarks.
	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	
	Budget.	Final.		Budget.	Final.		Budget.	Final.		Budget.	Final.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
1880-81 ..	1,55,000	2,05,000	1,10,893	6,57,000	8,05,109	8,69,798	..	..	..	17,50,000	16,46,891	14,92,726	
1881-82 ..	50,000	3,59,250	3,95,135	6,93,000	7,61,000	7,29,767	..	60,000	59,832	17,00,000	17,42,000	15,46,808	
1882-83 ..	10,00,000	*1,87,17,461	*1,86,15,996	10,97,111	11,60,834	7,84,110	..	63,670	64,253	22,16,000	20,88,611	20,99,590	
1883-84 ..	16,60,000	17,55,353	16,17,994	12,09,600	9,02,409	9,03,651	2,00,000	1,79,191	1,78,600	19,78,300	22,88,401	22,07,234	
1884-85 ..	19,84,000	17,67,510	16,10,444	9,20,590	9,79,868	9,98,996	3,99,000	3,26,618	2,20,623	23,77,000	25,09,000	24,24,956	
1885-86 ..	18,20,000	15,53,000	† 14,91,980	10,00,000	10,45,510	†10,34,138	4,30,000	3,47,742	† 3,35,004	25,95,000	23,95,000	† 23,24,266	

The amounts entered in columns 11 to 13 include the following amounts for Tank Maintenance Works:—

	Budget.	Final Grant.	Outlay.
	RS.	RS.	RS.
1883-84 ..	1,50,000	67,400	53,481
1884-85 ..	3,00,000	2,10,022	1,87,069
1885-86 ..	4,50,000	3,34,200	† 3,34,321

* Including Rs. 1,76,25,050 purchase money of the Kurnool canal. † Oulay for 1885-86 is not final, the Examiner's accounts have not yet been closed.

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1881-82.—Short outlay under Productive Public Works, Revenue Account, was due to changes in the executive staff in the Godávari Central division and that under Irrigation, Navigation and Agricultural works was due partly to the transfer of the expenditure on Commamur canal to Productive Public Works, Capital Account, and partly to the re-organization of the department.

1882-83.—Short outlay under Productive Public Works, Capital Account, was due to the necessity for revising estimates in the Kistna delta, that under Productive Public Works, Revenue Account, due to old maintenance charges and a portion of the percentage charge on Indirect Revenue on account of establishment having been debited to Irrigation, Navigation and Agricultural works.

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Years.	PRODUCTIVE PUBLIC WORKS, CAPITAL ACCOUNT.			PRODUCTIVE PUBLIC WORKS, REVENUE ACCOUNT.			PRODUCTIVE WORKS.			IRRIGATION, NAVIGATION AND AGRICULTURAL WORKS.			Remarks.
	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	
	Budget.	Final.		Budget.	Final.		Budget.	Final.		Budget.	Final.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
1880-81 ..	1,55,000	2,05,000	1,10,893	6,57,000	8,05,109	8,69,798	..	..	..	17,50,000	16,46,891	14,92,726	The amounts entered in columns 11 to 13 include the following amounts for Tank Maintenance Works:—
1881-82 ..	50,000	3,59,250	3,95,135	6,93,000	7,61,000	7,29,767	..	60,000	59,832	17,00,000	17,42,000	15,46,808	
1882-83 ..	10,00,000	*1,87,17,461	*1,86,15,996	10,97,111	11,60,834	7,84,110	..	63,670	64,253	22,16,000	20,88,611	20,99,590	
1883-84 ..	16,60,000	17,55,353	16,17,994	12,09,600	9,02,409	9,03,651	2,00,000	1,79,191	1,78,600	19,78,300	22,88,401	22,07,234	
1884-85 ..	19,84,000	17,67,510	16,10,444	9,20,590	9,79,868	9,98,996	3,99,000	3,26,618	2,20,623	23,77,000	25,09,000	24,24,956	
1885-86 ..	18,20,000	15,53,000	† 14,91,980	10,00,000	10,45,510	†10,34,138	4,30,000	3,47,742	† 3,35,004	25,95,000	23,95,000	† 23,24,266	

	Budget.	Final Grant.	Outlay.
	RS.	RS.	RS.
1883-84 ..	1,50,000	67,400	53,481
1884-85 ..	3,00,000	2,10,022	1,87,069
1885-86 ..	4,50,000	3,34,200	† 3,34,321

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	Budget.	Final.		Budget.	Final.		Budget.	Final.		Budget.	Final.		
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STATEMENT showing the grants for and outlay on Productive, Protective, Irrigation, Navigation and Agricultural Works from Imperial funds from 1880-81 to 1885-86.

Years.	PRODUCTIVE PUBLIC WORKS, CAPITAL ACCOUNT.			PRODUCTIVE PUBLIC WORKS, REVENUE ACCOUNT.			PRODUCTIVE WORKS.			IRRIGATION, NAVIGATION AND AGRICULTURAL WORKS.			Remarks.
	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	Grant.		Outlay.	
	Budget.	Final.		Budget.	Final.		Budget.	Final.		Budget.	Final.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
1880-81 ..	1,55,000	2,05,000	1,10,893	6,57,000	8,05,109	8,69,798	..	..	..	17,50,000	16,46,891	14,92,726	The amounts entered in columns 11 to 13 include the following amounts for Tank Maintenance Works:—
1881-82 ..	50,000	3,59,250	3,95,135	6,93,000	7,61,000	7,29,767	..	60,000	59,832	17,00,000	17,42,000	15,46,808	
1882-83 ..	10,00,000	*1,87,17,461	*1,86,15,996	10,97,111	11,60,834	7,84,110	..	63,670	64,253	22,16,000	20,88,611	20,99,590	
1883-84 ..	16,60,000	17,55,353	16,17,994	12,09,600	9,02,409	9,03,651	2,00,000	1,79,191	1,78,600	19,78,300	22,88,401	22,07,234	
1884-85 ..	19,84,000	17,67,510	16,10,444	9,20,590	9,79,868	9,98,996	3,99,000	3,26,618	2,20,623	23,77,000	25,09,000	24,24,956	
1885-86 ..	18,20,000	15,53,000	† 14,91,980	10,00,000	10,45,510	†10,34,138	4,30,000	3,47,742	† 3,35,004	25,95,000	23,95,000	† 23,24,266	

	Budget.	Final Grant.	Outlay.
	RS.	RS.	RS.
1883-84 ..	1,50,000	67,400	53,481
1884-85 ..	3,00,000	2,10,022	1,87,069
1885-86 ..	4,50,000	3,34,200	† 3,34,321

* Including Rs. 1,76,25,050 purchase money of the Kurnool canal. † Oulay for 1885-86 is not final, the Examiner's accounts have not yet been closed.

Principal causes of short outlay.

1880-81.—Short outlay under Productive Public Works, Capital Account, was due to the refusal of the Government of India to sanction the estimate for widening the main canal in the Kistna Western division and to the transfer of the outlay on certain works to Revenue Account and that under Irrigation and Navigation and Agricultural works due partly to the want of adequate establishment and partly to want of proper arrangements for repairing minor Irrigation works transferred to Collectors.

1881-82.—Short outlay under Productive Public Works, Revenue Account, was due to changes in the executive staff in the Godávari Central division and that under Irrigation, Navigation and Agricultural works was due partly to the transfer of the expenditure on Commamur canal to Productive Public Works, Capital Account, and partly to the re-organization of the department.

1882-83.—Short outlay under Productive Public Works, Capital Account, was due to the necessity for revising estimates in the Kistna delta, that under Productive Public Works, Revenue Account, due to old maintenance charges and a portion of the percentage charge on Indirect Revenue on account of establishment having been debited to Irrigation, Navigation and Agricultural works

1883-84.—Rs. 1,23,573 of short outlay under Productive Public Works, Capital Account, were due to receipts on Capital Account of the Kurnool canal which were not estimated when the revised estimate was prepared. Short outlay under Irrigation, Navigation and Agricultural works was due to tanks being full in the working season and scarcity of labor.

1884-85.—(1) Prevalence of cholera in Kistna and Nellore districts; (2) competition for labor with railway works; (3) heavy rainfall and unusual floods in the Southern districts; and (4) insufficiency of the rates provided in the Barur and Rushikulya Project estimates.

1885-86.—Short outlay due to scarcity of labor, prevalence of cholera in some parts, unseasonable rains and presence of water in channels and tanks during working season.