

- (1) பக்கங்களின் எண்ணிக்கை 26
 (2) புதிர்க்குத் திருப்பிய நாள்
 (3) ஆதாரங் குறிப்பவர் கருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப்பணித் துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	3148	அச்சகம் பலவகை
நாள்: 29 - 11 - 1886		

ச. பண்ணி
28/6
மடிக்கவோ தண்டியடி கையாளவோ கூடாது.

14TH OCTOBER 1886, No. 690 I., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper :—

No. 139 I.

Note by the Chief Engineer for Irrigation.

The accompanying schedule of demands on Imperial funds for expenditure on irrigation, navigation, and agricultural works during 1887-88 is submitted to Government for approval.

2. The amounts proposed for 1887-88 compare as follow with the budget grants for the current year and the outlay of the past year :—

	Amount proposed for 1887-88.	Budget grant for 1886-87.	Outlay in 1885-86.
	RS.	RS.	RS.
35. Protective Works, Irrigation	5,00,000	4,30,000	3,39,782
42. Major Works (Working Expenses)	10,75,000	10,00,000	11,26,622
43. Minor Works and Navigation	34,09,000	25,28,300	24,19,685
48. Capital Expenditure on Public Works (not charged against Revenue)	15,22,000	15,05,000	14,98,188
Total	65,06,000	54,63,300	53,84,177

35. PROTECTIVE WORKS, IRRIGATION.

3. The increase under this head is due to additional funds being provided for the Rushikulya project. The Superintending Engineer, I Circle, should expedite the submission of the revised estimates for the project now under preparation to admit of the works being pushed on more vigorously.

42. MAJOR WORKS (WORKING EXPENSES).

4. An increase of Rs. 80,000 has been provided for the Godavari delta to meet the cost of repairing the heavy damages caused during the recent extraordinary flood, which was 1.65 feet higher than the highest previously recorded flood. For the Kistna delta a reduced amount has been provided, as it is anticipated that the improvements now being carried out will reduce the cost of maintenance. The Superintending Engineer, II Circle, has applied for an increase of Rs. 1,500 under Extensions and Improvements, which is not considered to be necessary. The amount applied for on account of working expenses of the Sangam anicut project, including establishment charges, is Rs. 51,525; but this sum has been reduced to Rs. 30,000, as the estimated maximum amount of working expenses entered in the forecast statements of the project is only Rs. 34,200. For the Cauvery delta, funds have been provided under Extensions and Improvements for the following works, viz. :—Improving regulator, and for constructing the Kuranoor. The Superintending Engineer, VI Circle, should expedite the above works. As the Barur project is expected to be completed, Rs. 1,500 has been provided for its working expenses.

42. MINOR WORKS.

5. The Government of India, in their 1883, printed with G.O., No. 143 I., date

செப்பனிலுபவர் பெயர் அ. மாணிய
செப்பனிலு வதற்காக எடுத்த
கொள்ளப்பட்ட நாள் 26.6.02
செப்பனிலு முடிந்த நாள் 28.6.02
சரிபார்க்கும் வி
மு. நி. பா. ஏ. 28/6/02
கையொப்பம் 20-2

under this head only up to the current year, and deferred the consideration of the amount of grant to be allowed for future years pending the renewal of the present Provincial Contract, which, it is believed, is now under the consideration of the Finance Committee appointed by the Government of India. The following amounts, which are considered necessary, have been provided:—

Works for which Capital and Revenue Accounts are		RS.	RS.
Revenue Account ...	...	60,000	1,25,000
Works for which neither Capital	Revenue Accounts		
are kept—			
Ordinary works ...	...	16,50,000	
Tank maintenance works ...	...	8,40,000	
Old maintenance charges ...	...	3,44,000	
Agricultural works ...	...	28,34,000	
		4,50,000	
Total ...		34,09,000	

6. The amount applied for for the ... anicut system, under Capital Account, has been reduced from Rs. 1,03,760 to Rs. 60,000, and that under Extensions and Improvements increased to Rs. 11,500.

7. The amount provided for ordinary works is arrived at as follows:—

		RS.
Maintenance at 5 annas per acre of 2 1/2 millions of acres (in round figures) irrigated under all works of this class.	...	12,50,000
Establishment at 23 per cent.	...	2,87,500
Tools and plant at 1 per cent.	...	12,500
Improvements for extension of irrigation	Total ...	15,50,000
	...	1,00,000
	Total ...	16,50,000

Of this amount, five lakhs may be placed at the disposal of the Revenue Department for expenditure on "Minor" irrigation works, leaving Rs. 11 1/2 lakhs for expenditure by the Public Works Department. In anticipation of sanction to estimates, funds have been provided for restoring the Ayavari cheruvu, in the Cuddapah division, and for improving the Peruvilai channel, in the Trichinopoly division. The Superintending Engineers concerned should expedite the submission of the estimates for these works. The amount applied for for minor original works in the Chingleput division has been reduced from Rs. 20,000 to Rs. 5,000, as the execution of tank maintenance works should take precedence over ordinary irrigation works. A sum of Rs. 2 1/2 lakhs has been provided for repairs in the South Arcot division against the current year's grant of Rs. 1,15,000; the increase is necessary to allow of the extensive flood damages being repaired, the grants for several years having been insufficient.

8. The amount of ten lakhs originally proposed to be spent next year on tank maintenance works has been reduced to Rs. 8,40,000, as it is improbable that a larger grant will be utilised. A new Tank division will be formed next year to commence operations in the ... perintendent of Works should submit, on or ... the total establishment required for the Tank ...

... by the Government of India, did not ... s for which Capital and Revenue Accounts establishment calculated at 6 per cent. on ... under "Major" works (formerly termed Productive) as it was only in a subsequent order laid down that these charges were to be provided under this head. Owing, ... of India were unable to increase the grant

originally fixed for 1886-87, and the grants for ordinary works had consequently to be reduced to meet the charges referred to; for 1887, however, necessary provision for the charges has been made.

10. Under Agricultural Works a sum of Rs. 000 has been provided for raising and widening the banks of the Cauvery river, for which the Superintending Engineer, VI Circle, should submit, at an early date, an estimate for sanction.

48. CAPITAL EXPENDITURE ON PUBLIC WORKS NOT CHARGED AGAINST REVENUE).

11. For the Sangam anicut, the Barur tank, and the Cauvery delta systems, the balances of the sanctioned estimates have been provided.

12. Under paragraph 1,783 of the Public Works Department Code, the sanction accorded by the Secretary of State to the Sangam anicut project in February 1881 having expired in February last, the Superintending Engineer, II Circle, submitted a statement showing the actual expenditure incurred and the sum required for completing the project. This statement indicated a probable excess over the sanctioned estimate, this excess of Rs. 3,01,689 being due chiefly to the inclusion in the statement of items not contemplated when the original project was estimated for. The statement was therefore returned to the Superintending Engineer with instructions to revise it so as to reduce the excess as much as possible by omitting the provision proposed to be made for all works not allowed in the sanctioned estimate which are not absolutely necessary for the purposes of irrigation. The Superintending Engineer should expedite the submission of the revised statement.

13. A sum of Rs. 4,55,000 has been provided for the Periyar project, the commencement of which has been suggested in this office note, No. 81 E.W., dated 24th September 1886.

14. The total amount proposed for expenditure under this head is Rs. 16,65,000. Deducting Rs. 1,43,000, the estimated amount of sale-proceeds of tank beds in the Sangam and Pennér (Nellore) anicut systems, the sum required to be provided for from Imperial funds will be Rs. 15,22,000. The Superintending Engineer, II Circle, should, in communication with the Collector of Nellore, arrange for an early and advantageous disposal of the tank beds, as the demands available for expenditure on the projects will be seriously affected by the non-realisation of the sale-proceeds.

(Signed) J. PENNYCUICK, Lieut.-Col., R.E.
11th October 1886. Offg. Chief Engineer for Irrigation.

ENCLOSURES.

ROUGH estimate of outlay from Imperial funds on Irrigation, Navigation and Agricultural Works during 1887-88, compared with the grants for 1886-87 and actuals for 1885-86, arranged by budget and departmental heads.

		Proposed Grant for 1887-88.	Budget Grant for 1886-87.	Outlay during 1885-86.
		RS.	RS.	RS.
35. Protective Works—				
Irrigation—				
Works ...	...	4,36,000	3,70,000	3,03,168
Establishment ...	...	54,280	46,460	22,600
Tools and Plant ...	...	9,720	13,540	14,014
Total ...		5,00,000	4,30,000	3,39,782
42. Major Works (Working Expenses)—				
Extensions and Improvements ...	...	1,30,584	1,11,584	1,08,776
Maintenance and Repairs ...	...	4,88,498	4,60,398	5,12,080
Establishment ...	...	3,69,248	3,47,716	3,76,359
Tools and Plant ...	...	86,670	80,302	1,27,947
Refund of Revenue ...	...	...	...	1,460
Total ...		10,75,000	10,00,000	11,26,622

Rough estimate of outlay from Inrial funds on Irrigation, Navigation, &c.—cont.

	Proposed Grant for 1887-88.	Budget Grant for 1886-87.	Outlay during 1885-86.
	RS.	RS.	RS.
43. Minor Works and Navigation— Capital Account—			
Tools and Plant	80	885	720
Total ...	65,000	63,000	1,30,014
Revenue Account—			
Extensions and Improvements	10,790	10,251	9,003
Maintenance and Repairs	37,903	34,981	78,045
Establishment	11,307	10,504	19,958
Tools and Plant	...	264	86
Total ...	60,000	56,000	1,06,920
Works for which neither Capital nor Revenue Accounts are kept—			
Original Works	4,38,113	3,23,254	2,68,236
Repairs	16,65,972	11,30,972	9,84,605
Establishment	7,03,774	5,85,202	5,23,534
Tools and Plant	26,141	19,872	15,040
Refund of Revenue	...	...	30
Total ...	28,34,000	20,59,300	17,91,445
Agricultural Works—			
Original Works	1,70,000	1,16,774	1,32,496
Repairs	1,92,500	1,65,000	1,84,253
Establishment	83,875	65,408	71,447
Tools and Plant	3,625	2,818	3,082
Refund of Revenue	...	...	28
Total ...	4,50,000	3,50,000	3,91,306
Total for 43. Minor Works and Navigation ...	34,09,000	25,28,300	24,19,685
48. Capital Expenditure on Public Works (not charged against Revenue)—			
Works	13,53,250	12,23,006	12,13,385
Establishment	2,60,247	2,64,144	2,40,807
Tools and Plant	42,503	17,850	49,908
Total ...	16,65,000	15,05,000	15,04,100
Deduct Receipt on Capital Account ...	1,43,000	...	5,985
Suspense Account ...	...	...	27
Net Total ...	15,22,000	15,05,000	14,98,088
Grand Total ...	65,06,000	54,63,300	53,84,177

A.—Rough estimate of probable requirements of the Irrigation Branch of the Public Works Department for 1887-88.

Projects, &c.	PROPOSED GRANT FOR 1887-88.										REVENUE
	Amount of Expenditure to end of 1886-87.	Works.	Repairs.	Establish- ment.	Tools and Plant.	Total.	Deduct Receipt on Capital Account.	Net Total.	Rs.	P.M.	
15. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.											
Capital Account.											
Rushikulya project	26,01,386	2,85,000	...	54,280	9,720	3,50,000	...	3,50,000	3,50,000	...	
Buckingham canal	86,12,000	1,50,000	...	...	...	1,50,000	...	1,50,000	1,50,000	...	
Total ...	...	4,35,000	...	54,280	9,720	5,00,000	...	5,00,000	5,00,000	...	
42. MAJOR WORKS (WORKING EXPENSES).											
Godavari delta	...	35,000	2,42,000	1,78,910	44,000	5,00,000	...	5,00,000	5,00,000	...	
Kistna do.	...	13,000	1,96,000	97,200	84,800	3,00,000	...	3,00,000	3,00,000	...	
Paner ancient	...	1,436	1,140	7,217	207	10,000	...	10,000	10,000	...	
Sungam do.	...	35,000	20,000	8,200	1,800	30,000	...	30,000	30,000	...	
Kurnool canal	...	1,00,000	1,00,000	33,550	5,050	1,74,000	...	1,74,000	1,74,000	...	
Barr project	...	41,500	1,200	276	24	1,500	...	1,500	1,500	...	
Canary delta	...	1,948	40,634	84,738	395	39,000	...	39,000	39,000	...	
Total ...	...	1,30,584	4,88,493	3,09,248	89,670	10,75,000	...	10,75,000	10,75,000	...	
REVENUE											
...	18,94,915	48,750	...	11,220	80	60,000	...	60,000	60,000	...	
...	4,05,000	4,000	...	920	...	5,000	...	5,000	5,000	...	
Total ...	...	62,750	...	12,140	80	65,000	...	65,000	65,000	...	
...	...	...	...	...	...	...	...	...	...	...	
Total ...	...	...	...	...	...	...	...	...	...	...	

Rs. 9,500, the esti-
mate of the establish-
ment actually employed in the
fisheriem workshops.Rs. 9,500, the esti-
mate of the establish-
ment actually employed in the
fisheriem workshops.

C.—DETAIL of the proposed grants for 1887-88 for Major Original Works under Irrigation and Navigation and Agricultural Works for which neither Capital nor Revenue Accounts are kept.

Division.	Works.	Amount of Estimate.	Probable Expenditure to end of 1886-87.	Proposed Grant for 1887-88.	Remarks and References.
	IRRIGATION AND NAVIGATION. <i>Works for which neither Capital nor Revenue Accounts are kept.</i>	RS.	RS.	RS.	
Ganjam	Purushottapatam channel improvements.	3,830	2,500	1,330	P.M.G., No. 673 I., dated 22nd July 1884.
Cuddapah	Restoring Ayavari cheruvu tank	7,700	..	5,000	Estimate returned for certain information.
South Arcot	Mutrampet tank	3,660	..	3,660	P.M.G., No. 177 I., 19th February 1886.
Trichinopoly	Branch channel from Mahimathur anicut main channel to the Mukundanallur tank.	2,410	..	2,610	P.M.G., No. 646 I., dated 18th September 1886.
	Nanja and punja Sangendy tank, improving the.	2,938	..	2,000	P.M.G., No. 771 I., dated 11th September 1885.
	Wyacandan channel, enlarging the surplus sluice in the left bank of, at Pulivalem.	5,000	..	4,000	P.M.G., No. 621 I., dated 10th September 1886.
Tinnevely	Peruvai channel tank, raising and strengthening the.	34,670	..	3,000	Estimate under preparation.
	Veerasingam Periakolam tank, raising revetment in.	2,585	..	2,500	P.M.G., No. 888 I., dated 2nd October 1884.
	Vijayanarayana tank and channel, improving.	23,850	..	10,000	P.M.G., No. 188 I., dated 20th February 1885.
	Lower channels and tanks, improving	17,205	..	7,000	P.M.G., No. 134 I., dated 10th February 1885.
	Kakanallur channel, improving the	17,205	..	7,000	P.M.G., No. 465 I., dated 19th May 1885.
	Anicut across the Kaganadi river, extending the, and providing a head sluice with flood banks to the supply channel of the Perumboothur Periakolam tank.	3,200	..	3,200	P.M.G., No. 788 I., dated 15th September 1885.
	Total ..	1,67,523	2,500	51,300	
	AGRICULTURAL WORKS. <i>Works for which neither Capital nor Revenue Accounts are kept.</i>				
Godavari Eastern	Gowtami Godavari L.B., Rajahmundry to Yanam.	57,990	53,588	10,000	P.M.G., No. 2575 dated 27th September 1879.
Do. Central	Godavari, L.B., Purushottapatam to Rajahmundry.	1,25,110	1,14,884	10,000	P.M.G., No. 708 I., dated 18th March 1876.
	Vynatnam Godavari, R.B., do. L.B., ..	9,925	9,200	800	P.M.G., No. 518 I., dated 22nd November 1877.
	Vasista Godavari, L.B., to Gunnaram aqueduct.	9,695	4,649	5,000	P.M.G., No. 3373 I., dated 12th December 1876.
	Fixing boundary stones on the land acquired along the Vasista river embankment.	34,400	30,483	4,000	P.M.G., No. 393 I., dated 23rd April 1886.
Do. Western	Gowtami Godavari and Vridha Gowtami Godavari, R.B., to Mokaltippa.	2,630	..	1,000	P.M.G., No. 346 I., dated 25th September 1877.
Sangam	Godavari, R.B., Vijeshwaram to Polavarum.	1,82,755	1,50,815	2,000	P.M.G., No. 232 I., dated 6th March 1885.
South Arcot	Pennér river, L.B., Sangam to Moldevi ..	1,99,360	80,079	25,000	P.M.G., No. 448 I., dated 13th May 1885.
Trichinopoly	Constructing an embankment across the Malabar.	15,490	11,519	2,500	P.M.G., No. 679 I., dated 5th August 1885.
	Coleroon, L.F.B., raising and strengthening the, from Upperanicut to Coleroon bridge.	27,790	19,608	8,000	P.M.G., No. 356 I., dated 31st March 1884.
Tanjore	Agunda Cauvery, R.B., do. do. ..	6,940	..	1,700	P.M.G., No. 889 I., dated 2nd October 1884.
	Coleroon, R.B., from road No. 4 to Lower Coleroon, anicut railway and wharfing.	1,14,000	9,000	50,000	P.M.G., No. 881 I., dated 16th October 1885.
	Cauvery, R.B., from Vennar head to Kodamurthy head, L.B., from Grand arcot to Trinair bridge, raising and widening, &c.	29,500	..	7,000	Estimate under preparation.
Tinnevely	Benchmark and furrow stones fixing permanently.	7,600	4,148	2,000	P.M.G., No. 688 I., dated 12th October 1881.
	Tambapurni river, R.B., below Srivaikuntham anicut, raising.	83,698	53,363	15,000	P.M.G., No. 351 I., dated 26th April 1883.
	Tambapurni left flood bank below Srivaikuntham anicut from 7½ miles to the sea.	35,712	18,559	6,000	Do. do.
	Total ..	9,80,045	6,19,634	1,65,000	

D.—DETAIL of the proposed grants for 1887-88, compared with the budget grants for 1886-87, for Minor Original Works and Repairs under Irrigation and Navigation and Agricultural Works for which neither Capital nor Revenue Accounts are kept.

	MINOR ORIGINAL WORKS.		REPAIRS.	
	1886-87.	1887-88.	1886-87.	1887-88.
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>				
Ganjam division	RS.	RS.	RS.	RS.
Vizagapatam division	5,000	5,000	10,000	10,000
Godavari, Eastern division	1,500	1,500	7,000	7,000
Do. Western	8,000	5,000	10,000	8,000
Rushikulya	2,000	1,000	10,000	2,000
Kistna, Eastern	5,000	..	10,000	..
Nellore	1,500	1,500	5,000	..
Bellary	15,000	10,000	60,000	45,000
Cuddapah	2,000	2,000	25,000	20,000
Kurnool	3,000	3,000	25,000	20,000
Salem	2,000	..	5,000	5,000
Coimbatore	3,000	3,000	15,000	10,000
West Coast	2,000	2,000	30,000	20,000
Chingleput	2,000	..	2,000	12,000
North Arcot	5,000	5,000	6,000	45,000
South do.	15,000	8,000	65,000	55,000
Trichinopoly	15,000	15,000	2,50,000	1,15,000
Tanjore	16,000	5,000	40,000	40,000
Negapatam	1,500	1,500	4,000	3,485
Madura	5,000	3,500	5,000	5,000
Tinnevely	3,000	5,000	14,650	6,000
	8,000	8,000	70,000	60,000
Total ..	1,14,500	85,000	7,22,650	4,92,485
Reserve ..	10,500	15,000	27,350	30,000
Total ..	1,25,000	1,00,000	7,50,000	5,22,485
TANK MAINTENANCE WORKS.				
No. I Tank division	..	..	..	..
" II do.	18,000	18,000	..	..
" III do.	18,000	18,000	..	..
" IV do.	18,000	18,000	..	..
" V do.	18,000	18,000	..	..
Total ..	90,000	..	..	..
Madura division	..	..	..	..
Coimbatore division	..	..	..	..
Chingleput do.	46,000	30,000	70,000	70,000
Kurnool do.	32,000	30,000	60,000	50,000
Tanjore do.	42,000	20,000	90,000	80,000
Nellore do.	32,000	30,000	50,000	60,000
	9,774	..	15,000	..
Total ..	1,61,774	1,10,000	2,85,000	2,60,000
OLD MAINTENANCE CHARGES OF WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.				
Pennér anicut	3,564	3,564	13,860	13,860
Cauvery delta	..	..	1,05,634	1,05,634
Srivaikuntham anicut	..	352	5,208	5,208
Chembrambankum tank	..	2,283	3,097	3,097
Pálár anicut	2,183	178	2,909	2,909
Pelandorai anicut	78	59	58	58
Madras water-supply and irrigation extension project	59	..	..	..
	3,602	3,603	206	206
Total ..	10,009	10,039	1,30,972	1,30,972

Detail of the proposed grants for 1887-88, compared with the budget grants, &c.—*cont.*

	MINOR ORIGINAL WORKS.		REPAIRS.	
	1887-88.	1886-87.	1887-88.	1886-87.
AGRICULTURAL WORKS.				
River Conservancy—	RS.	RS.	RS.	RS.
Vizagapatam				
Godavari, Eastern	...	...	500	500
Do. Central	...	...	8,900	8,000
Do. Western	...	...	4,000	4,000
Kistna, Eastern	...	1,000	6,000	6,000
Do. Western	...	...	3,000	3,000
Nellore	...	...	2,500	1,500
Cuddapah	500	1,000	1,000	1,000
Coimbatore	...	...	3,500	3,500
South Arcot	1,000	1,000	6,000	6,000
Chingleput	...	...	3,000	2,000
Trichinopoly	...	1,000	...	...
Tanjore	...	...	7,000	6,500
Negapatam	...	...	16,000	15,000
	...	...	10,000	10,000
Total ...	1,500	4,000	70,500	67,000
River Embankment—				
Ganjam division	...	1,000	2,000	3,000
Rushikulya division	...	...	3,000	...
Vizagapatam do.	1,000	...	1,000	1,000
Godavari, Eastern division	...	...	10,000	5,000
Do. Central do.	...	...	7,000	5,000
Do. Western do.	1,000	...	4,000	2,000
Kistna, Eastern do.	2,000	...	10,000	10,000
Do. Western do.	...	...	3,000	2,000
Nellore do.	...	...	10,000	12,000
Sangam do.	500	1,000	2,500	...
Cuddapah do.	...	...	1,500	1,000
Coimbatore do.	...	...	4,000	2,000
South Arcot do.	1,000	1,000	2,000	1,000
Chingleput do.	...	...	4,000	2,000
Trichinopoly do.	1,000	...	10,000	9,000
Tanjore do.	500	1,000	25,000	23,000
Negapatam do.	500	500	20,000	18,000
Tinnevely do.	1,000	1,000	1,000	1,000
Total ...	9,500	6,500	1,20,000	97,000
Drainages—				
Godavari, Eastern	...	...	500	...
Trichinopoly	...	...	500	500
Tanjore	...	...	500	500
Total ...	...	...	1,500	1,000
Miscellaneous—				
Godavari, Eastern	...	...	500	...
Do. Western	...	...	...	...
Coimbatore	200	200	...	...
	1,500	1,500	...	...
Total ...	1,700	1,700	500	...
Reserve ...	2,300	4,588	...	...
Total ...	15,000	6,288	1,92,500	1,65,000

ORDER—dated 14th October 1886, No. 689 I., Public Works.

The rough estimate of the probable requirements of the Irrigation Branch of the Public Works Department from Imperial funds, as drawn up by the Chief Engineer for Irrigation, is approved, and will be forwarded to the Government of India in manuscript to save delay.

2. The Superintending Engineer, II Circle, is drawn to the necessity for expediting the submission of the revised statement showing the amount required to complete the Sangam anicut project, and for arranging, in communication with the Collector of Nellore, for an early disposal of the tank beds referred to by the Chief Engineer for Irrigation.

(Here enter No. 690 I., dated 14th October 1886.)

(True Extract.)

(Signed) JOHN PENNYCUICK, Lieut.-Col., R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To Superintending Engineers.
To the Superintendent of Works, Tank Maintenance Scheme.
" Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.
" Revenue Department.

ENDORSEMENT—dated 14th October 1886, No. 690 I., Public Works.

Forwarded.

(Signed) JOHN PENNYCUICK, Lieut.-Col., R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

Exd. E. Fernandez.
Spare Copies

IRRIGATION.
ACCOUNT.

Govt. of 1886 Madras.

PUBLIC WORKS

Dated October, 14th.

Recd.

G.O., 14th Oct. 1886, No. 690 I.

OCTOBER.

Rough Estimate

The — of the probable requirements of the Irrigation Branch of the Public Works Department from Imperial funds for 1887-88, forwarded to the Government of India.

12TH OCTOBER 1886, Nos. 2671, 2672 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

No. 81 E.W.

Note by the Chief Engineer for Irrigation.

From the accompanying statement showing the grants from 1882-83 to 1886-87 and the probable demands from 1887-88 to 1889-90 under 48. Capital Expenditure on Public Works (not charged against Revenue), Irrigation, it will be observed that the Sangam anicut, the Barur tank, and the Cauvery delta works are expected to be completed in 1887-88, the Srivaikuntham anicut system in 1888-89, and the Godavari delta and the Pennér (Nellore) anicut systems in 1889-90, so that there will remain in progress in 1890-91 only the Kistna delta works. It is desirable that the question of providing funds for commencing next year the Periyár project, which has been duly sanctioned by the Secretary of State and is awaiting provision of funds, should be taken into consideration. Several works now in progress will be far advanced towards completion by the end of the current year. The highest total demand for expenditure from loan funds in the next three years, including the Periyár project, will be, respectively, Rs. 3,07,510, 1,42,510, and 1,93,510 less than the grant for 1884-85. It is therefore suggested that the Government of India may, with reference to paragraph 2 of their letter, No. 35 A.I., dated 26th March 1886, be requested to accord permission for acquiring the land required for the Periyár project and for making other preliminary arrangements for commencing work next year.

CHEPÂK,
24th September 1886.

(Signed) J. PENNYCUICK, Lieut.-Col., R.E.,
Offg. Chief Engineer for Irrigation.

To the Chief Engineer, Public Works Department.

ENCLOSURE.

STATEMENT showing the grants from 1882-83 to 1886-87 and the probable demands for 1887-88, 1888-89, and 1889-90 for Capital Expenditure on Irrigation Works (not charged against Revenue).

	Estimates.	Outlay to end of 1886-86.	FINAL GRANTS FOR				Budget grant for 1886-87.	Probable amount for 1887-88.	Probable amount for 1888-89.	Probable amount for 1889-90.
			1882-83.	1883-84.	1884-85.	1885-86.				
Godavari delta	Rs. 1,10,88,695	Rs. 1,03,14,976	Rs. 2,67,770	Rs. 3,91,951	Rs. 4,18,684	Rs. 2,90,175	Rs. 3,36,000	Rs. 3,00,000	Rs. 75,300	Rs. 82,410
Kistna delta	1,38,99,784	70,37,698	2,68,397	4,48,131	5,15,643	3,82,263	4,80,000	5,84,590	5,72,901	5,73,166
Pennér (Nellore) anicut	16,12,789	14						45,000	30,000	14,415
Sangam anicut	28,96,437	24,00,000	4,00,000	11,003	68,391					
Barur tank project	4,00,000	2,33,123		1,33,558	1,90,510	2,36,510	1,01,000	15,000		
Cauvery delta	16,59,305	15,43,238	28,185	54,240	13,381	9,849	22,000	10,000	16,799	
Srivaikuntham anicut.	13,61,520	13,12,721	21,352							
Total	3,29,18,630	2,43,44,101	10,82,461	16,27,353	18,29,510	15,32,000	15,05,000	10,67,000	7,01,000	6,50,000
Periyár project	61,85,000							4,55,000	9,86,000	9,86,000
Grand Total	3,91,03,630	2,43,44,101	10,82,461	16,27,353	18,29,510	15,32,000	15,05,000	15,22,000	16,87,000	16,36,000

(Signed) J. PENNYCUICK, Lieut.-Col., R.E.,
Offg. Chief Engineer for Irrigation.

ORDER—dated 12th October 1886, No. 2671 W., Public Works.

Ordered that the Government of India be addressed.

(Here enter No. 2672 W., dated 12th October 1886.)

(True Extract.)

To the Chief Engineer for Irrigation.
 „ Superintending Engineer, VI Circle.
 „ Examiner, Public Works Accounts.
 „ Revenue Department.
 „ Political

J. O. HASTED, Colonel, R.E.,
 Secretary to Govt., P.W.D.

LETTER—to the Secretary to the Government of India, Public Works Department,
 dated Fort St. George, 12th October 1886, No. 2672 W.

With reference to your letter, No. 35 A.I., dated 26th March 1886, I am directed to forward a note by the Chief Engineer for Irrigation, together with a statement showing the probable demands for Capital Expenditure on Irrigation Works (not charged against Revenue) for the years 1887-88, 1888-89, and 1889-90, from which it will be observed that, in consequence of several of the projects approaching completion, the demand on account of works in progress will decrease from Rs. 10,67,000 in 1887-88, to Rs. 6,50,000 in 1889-90, the budget grant for the current year being Rs. 15,05,000.

2. I am to say that His Excellency the Governor in Council quite understood from your letter under reply that the existing financial pressure prevented the immediate commencement of any work of magnitude, but he believes when that letter was written the probability of several of the works in progress being shortly completed was not contemplated, and that the Government of India were looking forward to having to provide a sum of about fifteen lakhs yearly for expenditure on these works. Under these circumstances he desires to urge on the Government of India the desirability of commencing the Periyár project, a work which is expected, as the Government of India are aware, to prove very remunerative, as well as of great value to the country as a Famine Protective Work.

3. It will be seen from the statement that the prosecution of this work will entail the grant of only Rs. 15,22,000 next year, Rs. 16,87,000 the following year, and a little over sixteen lakhs in subsequent years; and, looking to the small amount of the grants to this presidency for years previous to those mentioned in the statement, I am to say that His Excellency in Council trusts that the Government of India will consider the demand, even under existing circumstances, is moderate.

(Signed) J. O. HASTED, Colonel, R.E.,
 Secretary to Govt., P.W.D.

Exd. E. Fernandez.
 Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1886) Madras.
PUBLIC WORKS.

Dated October, 12th.

Recd.

Encl.

G.O., 12th Oct. 1886, No. 2671,
2672 W.

OCTOBER.

Periyar Project

Forwarding, with remarks, note by the
Officiating Chief Engineer for Irrigation
urging the desirability of commencing the
— next year.

29TH NOVEMBER 1886, No. 3148 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from Colonel W. S. TREVOR, R.E., Secretary to the
Government of India, Public Works Department (Account—Irrigation),
to the Secretary to the Government of Madras, Public Works Department,
dated Fort William, 19th November 1886, No. 83 A.I.

I am directed to acknowledge receipt of your letter, No. 2672 W., dated 12th
October 1886, applying for a grant for and for permission to commence the Periyar
project in 1887-88.

2. In reply I am to express the regret of the Government of India at its inability,
on account of financial considerations, to comply with the request, all funds that are
likely to be available being urgently required for works in progress.

ORDER—dated 29th November 1886, No. 3148 W., Public Works.

Communicated to the Chief Engineer for Irrigation, with advertence to G.O.,
No. 2671 W., dated 12th October 1886.

(True Extract.)

McBain
Captain, R.E.,
Under Secy. to Govt., P.W.D.

To the Chief Engineer for Irrigation. ✓
" Superintending Engineer, VI Circle.
" Examiner, Public Works Accounts.
" Revenue Department.
" Political "

Exd. P. L. Pereira.
10 Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1886) Madras.

PUBLIC WORKS.

Dated November, 29th.

Recd.

G.O., 29th Nov. 1886, No. 3148 W.

NOVEMBER.

Periyar Project

Letter from the Government of India
expressing inability to provide a grant for,
and to permit the commencement of, the —
in 1887-88, communicated to the Chief
Engineer for Irrigation.

PUBLIC WORKS

8. Nov.

MENT OF INDIA.

WORKS DEPARTMENT.

ACCOUNT.

Irrigation

For the Secy

By

to the

Government of Madras

at William 19 November

Sir

I am directed to acknowledge
of your letter No. 2642 dated 12th October
applying for a grant for, and for permission
to commence the Periyar project in 1887-

In reply I am to express the regret of
Government of India at its inability, on account
of financial considerations, to comply with
request, all funds that are likely to be
being urgently required for works in progress

I have the honor to

S.

Yours

Secy.

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Mr. W. S. 28
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Govt. of Madras.
PUBLIC WORKS.

307/11/11

Dated

Recd.

Encl.

G.O. 29th Nov 1880 No. 3/42

Periyar project

Letter from the Govt.
in the ^{expressing} ~~expressing~~ ^{interest} ~~interest~~
It will not be for the
to provide a grant
for, & to permit the
commencement of the
in 1887-88
Committee Chief
Engg & or Dyg.

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