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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	171-72(9)	Press
B.P. No.		Mis.
Dated	22-1-	1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

Read the following papers:—

No. 333.	From District Engineer, Ganjam,	dated 22nd Sept. 1875, No. 10.	
No 334	From do,	Vizagapatam, " 30th " "	1,048.
No 335.	From do,	do, " 28th " "	—
No. 336	From do,	do, " 24th Nov. "	1,395.
No 337	From do,	Godavery, " 13th Oct. "	2,106.
No 338	From do,	do, " 18th Dec. "	2,838
No 339.	From do,	do, " 20th " "	2,853
No 340	Tel from do,	do, " 8th " "	—
No 341.	From do,	Kistna, " 7th Oct. "	79.
No. 342	From do,	do, " 7th " "	78.
No. 343.	From do,	do, " 11th Dec "	102.
No 344.	From do,	Nellore, " 23rd Sept. "	55.
No 345.	From do,	do, " 23rd " "	54.
No 346	From do,	Cuddapah, " 5th Oct "	—
No 347.	From do,	do, " 8th " "	—
No 348	From do,	Kurnool, " 30th Sept "	32.
No 349.	From do,	do, " 6th Oct. "	—
No 350.	From do,	Bellary, " 15th Nov. "	2,006.
No. 351	From do,	Chingleput, " 11th Dec. "	—
No 352.	From do,	North Arcot, " 6th Oct. "	2,565.
No 353	From do,	do, " 20th Nov. "	—
No. 354	From do,	South Arcot, " 23rd Sept "	139.
No 355.	From do,	Salem, " 24th " "	—
No. 356.	From do,	Tanjore, " 16th Nov. "	2,148.
No 357.	From do,	Trichinopoly, " 23rd Sept "	—
No. 358	From do,	do, " 19th Nov. "	701.
No. 359	From do,	do, " 29th " "	—
No 360.	From do,	do, " 14th Oct. "	599
No 361	From do,	Coimbatore, " 6th " "	—
No 362.	From do,	do, " 6th " "	76.
No. 363.	From do,	do, " 12th Sept. "	—
No 364.	From do,	Malabar, " 15th Nov. "	126.

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*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

No. 365	From District Engineer, Madura,	dated 29th Nov. 1875, No 3,500.
No. 366.	From do, do, „ 16th „ „ „ 2,330.	
No. 367.	From do, Tinnevely, „ 16th Oct. „ „ „	
No 368.	From do, do, „ 29th Nov. „ „ „ 106	

No 369. Proceedings of the Government of India in the Public Works Department, (Account—Irrigation,) dated Fort William, 13th November 1875, Nos 370—8 A.—I

Distribution of the Grant for Irrigation Works for 1876-77.

Read the following papers —

Letter from Secretary to Government, Madras, No 2,736, dated 21st September 1875.
 „ „ „ Bombay, „ 197 A—I, „ 22nd „ „
 „ „ „ Bengal, „ 630 I—A, „ 15th „ „
 „ „ „ N-W Provinces, No 486 A, 23rd „ „
 „ „ „ Punjab, No 087 A—I, dated 1st October 1875
 „ Secy to Chief Commr, British Burmah, Nos 3,782—8 A, 15th Sept 1873
 „ Governor-General's Agent, Rajpootana, No 24,376, dated 16th Sept. 1875

The sums required from Ordinary Imperial Funds for Irrigation Works for 1876-77 are as follow as compared with the grant for 1875-76, and the outlay of the three preceding years —

	Demand, 1876 77	Grant, 1875 76	Outlay, 1871-73	On lay, 1873 74	Outlay, 1872-78
Madras	Rs. 30,35,000	Rs. 27,86,000	Rs. (a) 25,79,183	Rs. 23,30,340	Rs. 20,33,220
Bombay	25,25,000	18,00,000	19,92,676	14,21,800	15,21,190
Bengal	20,00,000	18,50,000	14,85,517	10,16,310	10,10,300
North-western Provinces	21,50,000*	16,75,000	16,59,907	14,61,820	14,85,150
Punjab	10,02,000	13,34,400	11,52,833	11,72,520	10,00,100
Central Provinces			12,765	5,310	18,550
British Burmah	4,00,000	2,03,000	2,21,494	2,89,150	2,99,190
Oudh			30	—13,660	1,13,610
Rajpootana	2,01,500	1,70,000	1,83,393	1,80,970	1,07,990
Coorg	1,000	1,000	361	610	740
	1,19,14,500	92,50,000	92,91,104	78,71,070	76,00,360
Refunds to Extraordinary grant—					
Madras	1,50,000	1,50,000	1,09,000	2,72,590	5,70,900
Bombay			85,627	92,880	49,190
North western Provinces					3,190
Punjab					3,36,660
Oudh			1,86,981		
Rajpootana					
Total	1,50,000	1,50,000	3,72,608	3,65,470	6,59,370
Grand Total	1,20,64,500	94,00,000	96,63,712	82,36,540	81,59,730
Add value of stores transferred from Upper Godavery Irrigation Works to Madras					1,60,000
					83,19,630

(a) Includes Rupees 12,192 for Survey Establishments debited in Madras Accounts to Extraordinary, but transferred in Accountant-General's office to debit of Ordinary

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876*

MADRAS

2 Compared with the grant of 1875-76, and the outlay of the three preceding years, the demand for the next official year is as follows —

	Demand, 1876 77	Grant, 1875 76	Outlay, 1874 75	Outlay, 1873 74	Outlay, 1872 73
Original works	Rs. 8,16,000	Rs. 5,13,500	Rs. 2,00,274	Rs. 3,12,890	Rs. 2,81,660
Repairs	10,00,000	14,00,000	15,43,707	14,00,190	12,61,300
Establishment	6,00,000	6,10,200	6,79,491	5,31,190	4,51,100
Tools and Plant	1,00,000	90,000	61,784	87,540	87,520
State outlay on Guaranteed Irrigation Works.		11,000	5,237	7,150	9,640
Profit and Loss			191		
Suspense			16,715	41,380	—5,060
Total	30,35,000	27,05,600	25,78,469	23,80,340	20,88,220
Less receipts on Capital Account			286		
Net	30,35,000	27,05,600	25,78,183	23,80,340	20,88,220
Refunds to Extraordinary grant	1,50,000	1,50,000	1,09,000		5,70,900
Tools and plant transferred from Godavery Irrigation Works					1,60,000
	31,85,000	28,55,600	26,78,183	23,80,340	27,69,220

3 The increase in the demand for 1876-77, as compared with 1875-76, falls chiefly under the head Original Works. Analysing the demands for New Works, they are found to fall under the following heads —

	Rs
For works in progress	2,22,000
„ new works	3,84,000
„ minor works	2,00,000
	8,06,000

4. For works in progress, four works absorb Rupees 1,68,000 out of the Rupees 2,22,000 asked for. These four are—

	Estimate	Computed outlay to end of 1875 76	Required, 1876 77
	Rs	Rs	Rs
Lengthening the Pennar Aicut	1,59,000	60,000	37,000
Madras Water-supply Project	12,83,000	12,83,000	50,000
Chemburambaukum Tank Project	4,14,000	4,82,213	50,000
Restoration of Palar Aicut	1,35,000	95,000	31,000
			1,68,000

5 The revised estimates for the Madras Water-supply and Chemburambaukum Tank Projects have been so often called for, that the Government of India have been forced to adopt the alternative of prohibiting any expenditure being incurred on these works, until the revised estimates have come to hand and been sanctioned. Until this is done the Government of India are compelled to ask that the grants for next year for the works may be limited to provide for such expenditure as may be urgently required to prevent any loss arising from operations being suspended

6 The estimated cost of lengthening the Pennar Aicut, for which Rs. 37,000 is applied for, has considerably increased. The amount at first required was

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

Rupees 75,000, then Rupees 1,00,467, and now Rupees 1,59,000 is set down as the total probable cost of the work. In Public Works Department letters, No 108 A.—I, dated 22nd March 1875, and No 253 A.—I, dated 23rd August 1875, an inquiry was made of the Government of Madras, whether the estimate for the work was within the competency of that Government to sanction, to which inquiry no reply has been received as yet. The figures of probable cost now given lead to the conclusion that the estimate for the work is not within the competency of the Government of Madras to sanction, as the work forms portion of a project the aggregate cost of which is in excess of two lakhs. The Government of India must beg the Government of Madras to lose no time in sending up the estimate for sanction. It should be stated when this is likely to be done.

7 Under New Works, the chief demands are—

	Estimate RS.	Required. RS.
Navigation Canal, Nagam Island	27,000	15,000
Raising river banks in Godavery District	..	90,000
Protective works round Polaveram Island	62,000	15,000
River embankment on right bank of Pennair	1,10,000	40,000
Construction of masonry works for flood banks of Narrain- averam, Chingleput	90,000	30,000
Restoration of Poincy Anicut	60,000	9,000
Alterations to Head-sluice of Palar Anicut	16,000	16,000
Extension of the Poonniar Anicut	50,000	22,000
Poonniar river embankments	..	50,000
Canal Ferry boats, Kistna	20,000	8,000

8 As regards the Canal Ferry boats, the provision for them for 1875-76 was disallowed, pending a report from the Government of Madras on the point raised by the Chief Engineer regarding the liability of Local Funds to bear the charge. That report has not come to hand, and in its absence the provision must be disallowed. The inquiry made by the Government of India in Public Works Department letter, No 212 A.—I, dated 20th July 1875, as to why Inam-holders should be exempted from paying their share of the cost of protective works round Polaveram Island, for which Rupees 15,000 is wanted, has still to be received, and the Government of Madras is requested to direct that no time may be lost in submitting the necessary information. The item of Rupees 90,000 for river embankments, Godavery, is a new item. There seems to be no estimate, and the "work is said to be urgently required as shown by fresh of July 1875." But the probable cost must be known before the propriety of passing a grant for the purpose can be considered.

9 The river embankment on the right bank of the Pennair for which Rupees 40,000 is required, is estimated to cost 1,10,000
The work of lengthening the Pennair anicut which in progress is estimated to cost 1,59,000

The total of the two is 2,69,000
so that the estimates for the works will require to be submitted for the sanction of the Government of India, and this should be done at an early date.
10. The sum provided for "refund to the extraordinary grant" is in order to recoup to that grant the amount formerly spent on it on works which it has now

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

been finally decided, are not to be classed as Extraordinary, this sum is made up of two items, viz—

	Rs
Madras Water-supply Project	1,00,000
Chembumbankum Tank Project	50,000
Total	1,50,000

Including the provision of one lakh for the current official year, the total sum that will have been recouped to the Extraordinary grant, from the Ordinary on account of the Madras Water-supply Project, is Rupees 7,70,000, leaving Rupees 2,47,748 still to be recouped.

11. In Public Works Department letter, No 854 I, dated 9th December 1873, the Government of India, following out a suggestion made by the Government of Madras desued that, as the Madras Water-supply Project was one of Miscellaneous Public Improvement, it would seem appropriate to require that two lakhs of the sum spent on the work should be made good from Provincial Funds. No reply having been received to that letter, the Government of India assume that the Government of Madras have acquiesced in the arrangement proposed, in which view the provision for refund to the Extraordinary grant from Ordinary Imperial Funds for the Madras Water-supply Project should be reduced to Rupees 50,000. A corresponding sum should be provided in the Provincial Budget Estimate of next year to be made good from Provincial Funds.

12. On the whole, the total grant that will be allowed for the Madras Presidency for next year from Ordinary Imperial Funds is Rupees 28,72,000, of which Rupees 1,00,000 will be for refund to the Extraordinary grant. Subject to the orders contained in this Resolution, it is left to the Government of Madras to distribute the amount allowed as the circumstances of the case may require.

SUMMARY OF ORDINARY GRANTS.

44. The following is a summary of the grant passed provisionally under Ordinary for next year compared with the grant for the current official year—

	1876 77	1875 76	Increase
	RS	RS	RS
Madras	28,72,000	28,56,600	15,400

EXTRAORDINARY.

45 Compared with the forecast the demands under the head Extraordinary for the next official year are as follow—

	Demand	Forecast
	RS	RS.
Madras	5,70,000	6,45,200
Less from Ordinary	1,50,000	1,40,000

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

46 The decrease in the demand for Madras as compared with the forecast is due to sanction not having been accorded by the Government of India for certain sub-sections of the Kistna Delta Works until certain information regarding remunerative returns, both past and present, had been furnished. The total grant under Extraordinary for next year is passed for Rupees 5,70,000, of which Rupees 1,00,000 will be met by the refund from the Ordinary grant, Rupees 50,000 from Provincial Funds on account of the Madras Water-supply Project, and the balance, Rupees 4,20,000, by a specific allotment under Extraordinary

56 On the whole, the grants provisionally allowed for Extraordinary Irrigation Works, compared with the grants for 1875-76, will be as follows —

	1876-77	1875-76
Madras	RS	RS
Bombay	4,20,000	5,40,000
Bengal	6,00,000	7,50,000
North-western Provinces	39,00,000	42,60,000
Punjab	36,00,000	45,00,000
Less from contribution Rs 37,50,000		
Reserve in the hands of the Government of India „ 10,00,000	27,50,000	29,50,000
	17,30,000	
	<u>1,30,00,000</u>	<u>1,30,00,000</u>

GENERAL SUMMARY.

57 The following is an abstract of the total Provisional grants Ordinary and Extraordinary allowed in these orders for 1876-77, as compared with the grants for 1875-76 —

	Ordinary		Extraordinary.		Total	
	1876 77	1875 76	1876 77	1875-76	1876 77	1875 76
Madras	RS	RS	RS	RS	RS	RS
Bombay	(a) 28,73,000	28,56,600	(b) 4,20,000	5,40,000	32,93,000	33,96,600
Bengal	19,00,000	18,00,000	6,00,000	7,50,000	25,00,000	25,50,000
North western Provinces	13,50,000	13,50,000	39,00,000	42,60,000	52,50,000	56,10,000
Punjab	19,50,000	16,75,000	38,00,000	45,00,000	55,50,000	61,75,000
Central Provinces	14,57,000	13,34,400	(c) 27,50,000	(d) 29,50,000	42,07,000	42,84,400
British Burmah	3,00,000	2,08,000			3,00,000	2,08,000
Rajpootana	1,70,000	1,75,000			1,70,000	1,75,000
Coorg	1,000	1,000			1,000	1,000
Reserve						
	<u>1,00,00,000</u>	<u>94,00,000</u>	<u>1,30,00,000</u>	<u>1,30,00,000</u>	<u>2,30,00,000</u>	<u>2,24,00,000</u>

(a) Includes provision Rupees 1,00,000 for refund to Extraordinary grant.

(b) After deduction of „ 1,50,000 to be refunded from Ordinary grant, and from Provincial Funds

(c) After deduction of „ 10,00,000 to be met from Contributions by Native States.

(d) After deduction of „ 8,00,000

58. The sums allowed include provision for expenditure in England for stores for Irrigation Works, Ordinary as well as Extraordinary, and the Budget Estimates should be prepared accordingly.

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

ORDER — Ordered that this Resolution be communicated to the Governments and Administrations noted in the margin for information and guidance, and to the Financial Department for information

Governments of Madras, Bombay, Bengal, North-western Provinces and Punjab
Chief Commissioner, British Burmah, Governor General's Agent, Rajpootana, and Chief Commissioner, Coorg

(Signed) C. H. DICKENS, Colonel, R A,
Secretary to the Govt. of India

No. 39.

Note by the Chief Engineer for Irrigation

No 370-A

The Government of India in their Resolution, No 370 A I, of the 13th November last, paragraph 12, allow Rupees 27,72,000 under Agricultural Ordinary for 1876-77

The Budget as prepared provides under Capital, Ordinary, for—

	Works	Establishment	Tools and Plant	Total
	RS	RS	RS	RS
	4,99,122	1,24,680	85,022	7,08,824
under Revenue—	13,76,175	4,87,370	97,738	19,61,283
under Miscellaneous—				
New Works	1,28,630	68,100	...	3,40,555
Repairs	1,48,825			
				<u>Total .. 30,10,662</u>

The total being much in excess of the grant made by the Government of India, but about the amount entered in the rough estimate Under Capital, all the works are enumerated in abstract in Part II, and on the one hand there are no items for which a sufficient reason has not been given for the entries, and a very large number is made up of works of a kind which would have had to be carried out on emergency had they not been duly provided for and commenced some time since. There may be differences in the amounts required in some cases in 1876-77, as the expenditure up to the end of the year cannot be accurately calculated several months before hand, and the season has been such that more work will probably be accomplished up to the 31st March than was anticipated when the district statements were prepared The provision under Minor New Works is Rupees 2,30,000; that for the current year was originally Rupees 2,51,000, which was reduced to Rupees 1,93,000, and by several transfers the total has been made up to Rupees 2,03,943

For a long time past this office has been obliged to refuse allotments for Minor New Works, and yet district officers have been pressed to understand the importance of making irrigation works safe and to act upon that recognition. Only a few out of many District Engineers have really set to work in earnest and at once the supply of funds comes to an end The Government of India have been told that for some years the outlay on Minor New Works should be 5 lakhs

Proceedings of Madras Government, No 482, dated 18th February 1875, paragraph 19 of note by Chief Engineer for Irrigation

PART IV — Repairs — The demands made by District Engineers amounted to Rupees 17,12,400, and it has been necessary to make arbitrary reductions in this office,

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

some of them of very large amount. The details of reduction will, in many cases, have to be determined by the District Engineers, but where practicable individual allotments have been altered. It has nevertheless been found impracticable to reduce the total to the 15 lakhs entered in the rough estimate submitted to the Government of India, and this total amounts to Rupees 15½ lakhs. The undersigned entertains grave doubts of the propriety of some of the reductions which have been of necessity made. Rupees 13,400 have been struck out of the Godavery with much reluctance, and Rupees 21,000 from Tanjore, the proposed grant of Rupees 1,71,000 for which is very low considering the extent of the delta and its irrigation. District Engineers who find that the grants hitherto made under Repairs Agricultural are insufficient should as early as practicable submit such information as will enable this office to report to Government at what amount the grant for the Presidency for 1877-78 should be fixed, and this information to be of use must be received some little time before the date*

* 15th September

fixed for the transmission to the Government of India of the rough estimate for the year. District Officers should be careful to distinguish between what may be termed special repairs and ordinary upkeep, so that it may be as clearly as possible understood for what time abnormal expenditure may be necessary, and to what causes its necessity is attributable, and what the normal cost of maintaining works in an efficient state will be. In the Godavery, and perhaps in some few other districts, the construction of additional canals, channels, &c, renders an increased expenditure on maintenance requisite, and this and all other reasons for applying for addition to allotments should be duly noticed.

PART VI—*Ordinary—Capital*—The provision is Rupees 55,022 in excess of that for the current year. The causes are—

1st—Rupees 40,000 have, with reference to the order as per margin, been entered for increase of Capital, Dowlaiswaram Workshop.

2ndly—The floating plant of the Kistna is inadequate to the execution of any considerable amount of work in the delta, and it will take some years to effect even a moderate increase. In 1875-76 some money was allotted under Extraordinary, but the estimates submitted for several sections of the delta not having been sanctioned by the Government of India, nothing could be entered under Loan Funds for 1876-77. On the other hand, unless the floating plant be steadily increased when those estimates are sanctioned for execution, it will be impracticable to carry them out.

Revenue—The increase of Rupees 31,738 here is due entirely to special repairs needed by the floating plant, which like that in the Godavery has been allowed to fall much out of repair. Estimates were reviewed and sanctioned in the order as per margin.

G.O., No. 3,036, dated 28th October 1875.

In reference to the Order of Government of the 3rd November 1875, No. 3,107, directing that the estimated expenditure should be shown in the Budget by executive ranges or divisions, it is to be noted that the charge was proposed too late to be

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

carried into effect in the Budgets of every district, and that reference cannot now be made to the officers concerned without causing unreasonable delay. Full effect will be given to the order in the next year's estimates.

(By order,)

(Signed)

A. DEC. SCOTT, Major, R.E.,
Asst Chief Engineer, Irrigation Dept

FORT ST GEORGE,
11th January 1876

No 371. ORDER THEREON, 22nd January 1876, No 171.

IRRIGATION, No. 25
Account.

The Government observe that the total of the estimates under Capital, Extraordinary in the Regular Budget Estimate is Rs. 5,16,033 of which „ 1,50,000

are to be found by refunds from Imperial Ordinary and Provincial Funds, leaving the net grant at Rs 3,66,033

The amount passed by the Government of India in the orders on the rough estimate was Rupees 4,20,000, so that Rupees 53,967 are not availed of.

2 ORDINARY—PARAGRAPH 5 OF RESOLUTION—All that is practicable is being done to complete the revised estimates for the Madras Water Works Project and the Chembrumbaukum Tank. The latest information available is contained in the

Proceedings of Madras Government, 2nd June 1875, No 1,548

Proceedings as per margin. For a long time past nothing but work deemed to be emergent has been in progress on these

projects. It has been clearly shown that certain improvements, alterations, and additions were necessary, not as matters of convenience, but for the security of the works. The non-completion of revised estimates, the requirements in connection with which have been constantly changing, is a matter of regret, but it does not relieve the Government of the responsibility of deciding in each case what work may properly be deemed emergent, and of directing its execution. The lengthening of the Contingent Account of the Madras Water Works, the alteration of the drainage arrangements of the Cholavaram Tank supply channel, the insertion of sluices in the escape of the Red Hills reservoir are instances in point as regards the Madras Water Works, and as regards the Chembrumbaukum Tank there have similarly been the adoption after due discussion of certain increased means of disposing of surplus, and the proposals for lengthening the Koratur Anicut. Final estimates in the case of works of this kind are very difficult of compilation. Complete information up to date will, in due course, be laid before the Government of India, but whether it will or will not be subjected to modification hereafter is a point which can be settled only in the future.

3 PARAGRAPH 11—The question of the refund by Provincial to Ordinary Agricultural on account of the outlay made on the Madras Water Works Project for the benefit of the town of Madras, has been the subject of careful inquiry, and papers containing much additional information are now under consideration. On the letter No 854 I. from the Government of India orders were passed in Proceedings, Madras Government, No 162 B, of the 24th January 1874.

Proceedings of Madras Government, No 21, dated 5th January 1876

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

some of them of very large amount. The details of reduction will, in many cases, have to be determined by the District Engineers, but where practicable individual allotments have been altered. It has nevertheless been found impracticable to reduce the total to the 15 lakhs entered in the rough estimate submitted to the Government of India, and this total amounts to Rupees 15½ lakhs. The undersigned entertains grave doubts of the propriety of some of the reductions which have been of necessity made: Rupees 13,400 have been struck out of the Godavery with much reluctance, and Rupees 21,000 from Tanjore, the proposed grant of Rupees 1,71,000 for which is very low considering the extent of the delta and its irrigation. District Engineers who find that the grants hitherto made under Repairs Agricultural are insufficient should as early as practicable submit such information as will enable this office to report to Government at what amount the grant for the Presidency for 1877-78 should be fixed, and this information to be of use must be received some little time before the date*

* 15th September fixed for the transmission to the Government of India of the rough estimate for the year. District Officers should be careful to distinguish between what may be termed special repairs and ordinary upkeep, so that it may be as clearly as possible understood for what time abnormal expenditure may be necessary, and to what causes its necessity is attributable, and what the normal cost of maintaining works in an efficient state will be. In the Godavery, and perhaps in some few other districts, the construction of additional canals, channels, &c, renders an increased expenditure on maintenance requisite, and this and all other reasons for applying for addition to allotments should be duly noticed.

PART VI—Ordinary—Capital—The provision is Rupees 55,022 in excess of that for the current year. The causes are—

1st—Rupees 40,000 have, with reference to the order as per margin, been entered for increase of Capital, Dowlaishweram Workshop

2nd—The floating plant of the Kistna is inadequate to the execution of any considerable amount of work in the delta, and it will take some years to effect even a moderate increase. In 1875-76 some money was allotted under Extraordinary, but the estimates submitted for several sections of the delta not having been sanctioned by the Government of India, nothing could be entered under Loan Funds for 1876-77. On the other hand, unless the floating plant be steadily increased when those estimates are sanctioned for execution, it will be impracticable to carry them out.

Revenue—The increase of Rupees 31,738 here is due entirely to special repairs needed by the floating plant, which like that in the Godavery has been allowed to fall much out of repair. Estimates were reviewed and sanctioned in the order as per margin.

In reference to the Order of Government of the 3rd November 1875, No 3,107, directing that the estimated expenditure should be shown in the Budget by executive ranges or divisions, it is to be noted that the change was proposed too late to be

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

carried into effect in the Budgets of every district, and that reference cannot now be made to the officers concerned without causing unreasonable delay. Full effect will be given to the order in the next year's estimates.

(By order,)

FORT ST GEORGE,
11th January 1876

(Signed) A DEC SCOTT, Major, R E,
Asst. Chief Engineer, Irrigation Dept.

No 371. ORDER THEREON, 22nd January 1876, No 171.

IRRIGATION, No 25
Account

THE Government observe that the total of the estimates under Capital, Extraordinary in the Regular Budget Estimate is Rs. 5,16,033 of which „ 1,50,000

are to be found by refunds from Imperial Ordinary and Provincial Funds, leaving the net grant at Rs. 3,66,033. The amount passed by the Government of India in the orders on the rough estimate was Rupees 4,20,000, so that Rupees 53,967 are not availed of.

2 ORDINARY—PARAGRAPH 5 OF RESOLUTION.—All that is practicable is being done to complete the revised estimates for the Madras Water Works Project and the Chembrumbaukum Tank. The latest information available is contained in the

Proceedings of Madras Government, 2nd June 1875, No 1,548

Proceedings as per margin. For a long time past nothing but work deemed to be emergent has been in progress on these

projects. It has been clearly shown that certain improvements, alterations, and additions were necessary, not as matters of convenience, but for the security of the works. The non-completion of revised estimates, the requirements in connection with which have been constantly changing, is a matter of regret, but it does not relieve the Government of the responsibility of deciding in each case what work may properly be deemed emergent, and of directing its execution. The lengthening of the Corbular Anicut of the Madras Water Works, the alteration of the drainage arrangements of the Cholaveram Tank supply channel, the insertion of sluices in the escape of the Red Hills reservoir are instances in point as regards the Madras Water Works, and as regards the Chembrumbaukum Tank there have similarly been the adoption after due discussion of certain increased means of disposing of surplus, and the proposals for lengthening the Koriatur Anicut. Final estimates in the case of works of this kind are very difficult of compilation. Complete information up to date will, in due course, be laid before the Government of India, but whether it will or will not be subjected to modification hereafter is a point which can be settled only in the future.

3 PARAGRAPH 11—The question of the refund by Provincial to Ordinary Agricultural on account of the outlay made on the Madras Water Works Project for the benefit of the town of Madras, has been the subject of careful inquiry, and papers containing much additional information are now under consideration. On the latter

Proceedings of Madras Government, No 21, dated 5th January 1876

No 854 I. from the Government of India orders were passed in Proceedings, Madras Government, No 162 B, of the 24th January 1874.

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876.*

3 PARAGRAPH 6 —It is to be noticed that complete information regarding the Pennair Amicut has been furnished to the Government of India in Proceedings, Madras Government, 16th October 1875, No 2,962, and in the papers therewith transmitted.

4 PARAGRAPH 9 —The river embankment on the right bank of the river above and below Nellore is not a part of the amicut system and has been sanctioned as unconnected with it, as will be found on referring to the Government Order approving of the estimates in which the sanction was given under Miscellaneous, or in other words under "Ordinary Agricultural works for which no Capital or Revenue accounts are kept," the latter being the corresponding description in use by the Government of India

21st September 1875, No 2,741.

5 PARAGRAPHS 7 AND 8.—The canal ferry boats have been struck out pending a settlement of the question whether ferry funds, and, if so, to what amount, are available. A copy of the Proceedings, Madras Government, containing the latest information on the subject of the lands to be protected by the Polaveram Island embankments will be transmitted to the Government of India. The position of Inam holders is under consideration in the Revenue Department. The proposed allotment for this work for 1876-77 stands at Rupees 15,000. The Government of India appear to be unaware of the circumstances of the Godavery embankments. The Godavery is a river already embanked, and attention having been called to the insufficiency of flood banks generally by the numerous accidents of 1872 and 1874, a warning was sent to the Godavery and some dangerous places were at once attended to on estimates regularly prepared. The fresh of July 1873 was more than a warning, and whether the proposals of the local officers be accepted or not, it will be necessary to incur some expenditure at once, Rupees 30,000 have therefore been allotted for these flood banks under Miscellaneous, and, as many miles of embankment in the several ranges have to be attended to, it is not improbable that a supplemental grant will have to be applied for.

G O, No 2,840, dated 2nd October 1875

6 The Chief Engineer for Irrigation has, in his note on the Budget as compiled, shown that it is not practicable to keep the total under Ordinary within the limit of Rupees 27,72,000, the grant assigned by the Government of India. The views of this Government, as to the amount which should be assigned annually to this Presidency for Agricultural Works, have been fully and clearly laid before the Government of India. Notwithstanding this, the grant for 1876-77 appears to have been determined upon the amount of the confessedly inadequate allotments of former years, and the data available for a correct determination of the sum needed for the more pressing requirements of Madras have not been accepted.

No 475, dated 17th February 1875
" 2,931, " 14th October "

7. However desirous this Government may be of carrying out the wishes of the Government of India, it must be apparent that, without a reserve and without a work of any magnitude in the Budget, the carrying out of which is open to postponement, it is absolutely impracticable to provide for the many contingencies which must occur to some out of thirty-eight to forty thousand irrigation works. Such contingencies have happened rather frequently and on a large scale since the early part of 1872, and

*Proceedings of the Madras Government, Public Works Department,
22nd January 1876*

the provision of funds, without reference to the Budget, has been unavoidable. An effort has been made to reduce the recurrence of preventable accidents to a minimum, an arrangement after due consideration believed to be preferable to allowing the accidents to occur, and spending money on repairing damage rather than in rendering the works safe beforehand.

8 It is observed that the order* directing that the estimated expenditure should be shown in the Budget by Executive Ranges was received too late to be carried into effect this year, but that full effect will be given to the order in the preparation of the Budget of the next year.

9 The Government of India have desired the Budget Estimates to be transmitted to them in manuscript, and they will be forwarded as compiled by the Chief Engineer for Irrigation, leaving it to the Government of India to make such reductions as the exigencies of the public service generally may render necessary.

(True Extract)

Major-General, R E,
Secretary to Government

To District Engineers
To the Chief Engineer for Irrigation
" Financial Department
" Revenue
" Board of Revenue.
" Accountant-General
" Controller of Public Works Accounts.

Exd E C Shunker.
Spare Copies

Proceedings of the Madras Government Read the following -

Letters of the Dist. Eng.
relating to the Suez Canal

- From the D. Engineer - (Angama - (R.E. No. 10 of 22nd Sept/75)
- do - (Vengapattam - (No. 1048 - 30 - do -)
- do - (do - (No. 28 - do -)
- do - (do - (No. 1395 - 24 - Nov/75)
- do - (Sodavery - (No. 2203 - 13 - Oct/75)
- do - (do - (No. 2833 - 18 - Dec -)
- do - (do - (No. 2823 - 20 - do -)
- Telegrams - (do - (No. 8 - Dec/75)
- do - (Rustna - (No. 79 - 4 - do/75)
- do - (do - (No. 70 - do -)
- do - (do - (No. 102 - 11 - Dec/75)
- do - (Kellor - (No. 55 - 23 - Sept/75)
- do - (do - (No. 54 - 23 - do -)
- do - (Gudatapat - (No. 45 - Oct/75)
- do - (do - (No. 8 - do -)
- do - (Tharmool - (No. 32 - 30 - Sept/75)
- do - (do - (No. 6 - Oct/75)
- do - (Bellary - (No. 2008 - 15 - Nov/75)
- do - (Chingleput - (No. 11 - Dec/75)
- do - (North Arcot - (No. 2565 - 6 - Oct/75)
- do - (do - (No. 20 - Nov/75)
- do - (S Arcot - (No. 139 - 23 - Sept/75)
- do - (Selam - (No. 24 - do -)
- do - (Dargoch - (No. 2148 - 16 - Nov/75)
- do - (Trichinopoly - (No. 23 - Sept/75)
- do - (do - (No. 701 - 19 - Nov/75)
- do - (do - (No. 29 - do -)

From the R.E. Irwin, Esq. (R.E. No. 500 d/14-24-75)
 do Comptroller (R.E. No. 16-24-75)
 do do (R.E. No. 76 d/6-24-75)
 do do (R.E. No. 12-24-75)
 do Malabar (R.E. No. 126 d/18-24-75)
 do Madras (R.E. No. 3500 d/29-24-75)
 do do (R.E. No. 2330 d/16-24-75)
 do Tanjore (R.E. No. 16-24-75)
 do do (R.E. No. 108 d/29-24-75)

Nos 370-8 A-I
 GOVERNMENT OF INDIA
 PUBLIC WORKS DEPARTMENT.
 ACCOUNT
 Irrigation

Fort William, November 13, 1875

Distribution of the grant for Irrigation Works for 1876-77

Read the following papers —

- Letter from Secretary to Government, Madras, No 2736, dated 21st September 1875
- " " " " " Bombay, No 197 A-I, dated 22nd "
- " " " " " Bengal, No 630 I-A, dated 15th "
- " " " " " North Western Provinces, No 486A, dated 23rd September 1875
- " " " " " Punjab, No 087 A-I, dated 1st October 1875
- " " Secretary to Chief Commissioner, British Burmah, Nos. 3782-8 A, dated 15th September 1875
- " " Governor General's Agent, Rajpootana, No 24376, dated 16th September 1875

The sums required from Ordinary Imperial funds for Irrigation Works for 1876-77 are as follows as compared with the Grant for 1875-76 and the outlay of the three preceding years —

	1876 77	1875 76	1874 75	1873 74	Outlay 1872 73
	Rs	Rs	Rs	Rs	Ps
Madras	30 35 000	27,06 600	(a) 25 78 183	23 30 340	20 38 220
Bombay	25 25 000	18 00,000	19 92 676	14 25 800	15 21,190
Bengal	20 00 000	13,50 000	14,88 517	10,16,310	10 10 300
North Western Provinces	21,50 000	16 75 000	16 59 907	14 61 820	14,85,150
Punjab	19 02,000	13,34,400	11,52 839	11,72 520	10,05,420
Central Provinces			12 765	5,310	18 550
British Burmah	4 00,000	2,08,000	2 21 494	2,89 150	2 99 190
Oudh			30	13 660	1 13 610
Rajpootana	2 01,500	1,75 000	1,84,333	1,86,870	1,07,990
Coorg	1,000	1 000	361	610	740
	1,19,14,500	92 50,000	92,91,104	73,74,970	76 00,360
Refunds to Extraordinary grant—					
Madras	1 50,000	1,50 000	1 00 000		5,70 000
Bombay				2,72,590	49 190
North Western Provinces			85,627		
Punjab				92 830	3 420
Oudh					3,36 600
Rajpootana			1 86 981		
Total	1,50,000	1 50,000	3 72,608	3,65,420	9 59,270
Grand Total	1 20,64,500	94 00 000	96 63 712	82,40,390	85,59 630
Add value of stores transferred from Upper Godavery Navigation Works to Madras					1,60,000
					87,19 630

(a) — Includes Rs 12,192 for Survey Establishments debited in Madras accounts to Extraordinary, but transferred in Accountant General's Office to debit of Ordinary

MADRAS

2 Compared with the grant of 1875-76, and the outlay of the three preceding years, the demand for the next official year is as follows —

	Demand, 1876 77	Grant 1875 76	Outlay, 1874 75	Outlay, 1873 74	Outlay, 1872 73
	Rs.	Rs.	Rs	Rs	Rs.
Original Works	8 06 000	5 13 600	2 69 274	3 12 890	2 91 660
Repairs	15 00 000	14 66 800	15 43 707	14 00 190	12 61 300
Establishment	6 29 000	6 19 200	6 79 481	5 31 190	4 36 160
Tools and Plant	1 00 000	96 000	61 744	37 540	37 520
State outlay on guaranteed Irrigation Works		11,000	5 47	7 150	9 610
Profit and Loss			191		
Suspense			18,745	41 380	— 8 060
Total	30,35 000	27,06 600	25,78 169	23 30,340	20,38,220
Less receipts on Capital account			246		
Net	30 35 000	27 06 600	25 78 143	23,30,340	20 38 220
Refunds to Extraordinary grant	1 50 000	1 50,000	1,00,000		5 70 000
Tools and Plant transferred from Godavery Irrigation Works					1,60,000
	31 85,000	28,56 600	26 78 183	23 30 340	27 68,220

3 The increase in the demand for 1876-77, as compared with 1875-76, falls chiefly under the head Original Works. Analysing the demands for new works, they are found to fall under the following heads —

	Rs.
For works in progress	2,22,000
„ new works	3,84,000
„ minor works	2,00,000
	8,06,000

4 For works in progress, four works absorb Rs 1,68,000 out of the Rs 2,22,000 asked for. These four are—

	Estimate	Computed outlay to end of 1875 76	Required, 1876 77
	Rs	Rs	Rs
Lengthening the Pennair Anicut	1,59,000	60,000	37,000
Madras Water-supply project	12,83,000	12,83,000	50,000
Chembrumbaukum Tank Project	4,14,000	4,82,243	50,000
Restoration of Palar Anicut	1,35,000	95,000	31,000
			1,68,000

5 The revised estimates for the Madras Water-supply and Chembrumbaukum Tank Projects have been so often called for, that the Government of India have been forced to adopt the alternative of prohibiting any expenditure being incurred on these works, until the revised estimates have come to hand, and been sanctioned. Until this is done the Government of India are compelled to ask that the grants for next year for the works may be limited to provide for such expenditure as may be urgently required to prevent any loss arising from operations being suspended.

6. The estimated cost of lengthening the Pennair Anicut, for which Rs 37,000 is applied for, has considerably increased. The

amount at first required was Rs 75,000, then Rs 1,00,467, and now Rs 1,59,000 is set down as the total probable cost of the work. In Public Works Department letters No 108 A—I, dated 22nd March 1875, and No 253 A—I, dated 23rd August 1875, an enquiry was made of the Government of Madras, whether the estimate for the work was within the competency of that Government to sanction, to which enquiry no reply has been received as yet. The figures of probable cost now given lead to the conclusion that the estimate for the work is not within the competency of the Government of Madras to sanction, as the work forms a portion of a project the aggregate cost of which is in excess of 2 lakhs. The Government of India must beg the Government of Madras to lose no time in sending up the estimate for sanction. It should be stated when this is likely to be done.

7. Under new works, the chief demands are—

	Estimate,	Required.
	Rs	Rs
Navigation Canal, Nagram Island	27,000	15,000
Raising river banks in Godavery District	...	90,000
Protective works round Polavaram Island	62,000	15 000
River embankment on right bank of Pennair	1,10,000	40,000
Construction of masonry works for flood banks of Narranavaram, Chingleput	90,000	30,000
Restoration of Poiney anicut	60,000	9,000
Alterations to head-sluice of Palar anicut	16,000	16,000
Extension of the Poonniar anicut	50,000	22,000
Poonniar River embankments		50,000
Canal Ferry boats Kistna	20,000	8,000

8 As regards the Canal Ferry boats, the provision for them for 1875-76 was disallowed, pending a report from the Government of Madras on the point raised by the Chief Engineer regarding the liability of Local Funds to bear the charge. That report has not come to hand, and in its absence the provision must be disallowed. The enquiry made by the Government of India in Public Works Department letter No 212 A—I, dated 20th July 1875, as to why Inam-holders should be exempted from paying their share of the cost of protective works round Polavaram Island, for which Rs 15,000 is wanted, has still to be received, and the Government of Madras is requested to direct that no time may be lost in submitting the necessary information. The item of Rs 90,000 for river embankments, Godavery, is a new item. There seems to be no estimate, and the "work is said to be urgently required as shown by the fresh of July 1875". But the probable cost must be known before the propriety of passing a grant for the purpose can be considered.

	Rs
9 The river embankment on the right bank of the Pennair for which Rs 10,000 is required, is estimated to cost	1,10,000
The work of lengthening the Pennair anicut which in progress is estimated to cost	1,59,000
	2,69,000
The total of the two is	

so that the estimates for the works will require to be submitted for the sanction of the Government of India, and this should be done at an early date.

10 The sum provided for "refund to the Extraordinary grant" is in order to recoup to that grant the amount formerly spent from it on works, which, it has now been finally decided, are not to be classed as Extraordinary. This sum is made up of two items, viz —

Madras Water-supply Project	Rs 1,00,000
Chembrumbaukum Tank Project	50,000
	<u>1,50,000</u>

Including the provision of one lakh for the current official year, the total sum that will have been recouped to the Extraordinary grant, from the Ordinary on account of the Madras Water-supply Project, is Rs 7,70,000, leaving Rs 2,47,748 still to be recouped

11 In Public Works Department letter No 8541, dated 9th December 1873, the Government of India, following out a suggestion made by the Government of Madras desired that, as the Madras Water-supply Project was one of Miscellaneous Public Improvement, it would seem appropriate to require that two lakhs of the sum spent on the work should be made good from Provincial funds. No reply having been received to that letter, the Government of India assume that the Government of Madras have acquiesced in the arrangement proposed, in which view the provision for refund to the Extraordinary grant from Ordinary Imperial funds for the Madras Water-supply Project should be reduced to Rs 50,000. A corresponding sum should be provided in the Provincial Budget Estimate of next year to be made good from Provincial funds.

12 On the whole, the total grant that will be allowed for the Madras Presidency for next year from Ordinary Imperial funds is Rs 28,72,000, of which Rs 1,00,000 will be for refund to the Extraordinary grant. Subject to the orders contained in this Resolution, it is left to the Government of Madras to distribute the amount allowed as the circumstances of the case may require.

BOMBAY

13 The figures are as follows. —

	Demand, 1876-77	Grant, 1875-76	Outlay, 1874-75	Outlay, 1873-74	Outlay, 1872-73
	Rs	Rs	Rs	Rs	Rs
Original Works	12,75,000	5,89,570	7,04,427	3,42,930	3,86,860
Repairs	7,25,000	7,15,000	7,26,951	6,58,800	5,84,520
Establishment	4,75,000	4,59,936	5,11,418	4,08,680	5,24,700
Tools and Plant	50,000	25,000	48,542	21,700	31,410
Profit and Loss			124		
Suspense			1,315	—5,860	—5,350
Total	25,25,000	18,00,000	19,92,777	14,26,250	15,22,140
Less receipts on Capital Account			101	450	950
Add refunds to Extraordinary grant	25,25,000	18,00,000	19,92,676	14,25,800	15,21,190
				2,72,590	49,190
				<u>16,98,390</u>	<u>15,70,380</u>

14 The increase in the demand for 1876-77, as compared with the grant for 1875-76, falls chiefly under the head Original Works. Analysing the demand under this head, it is found that the money is required for the following purposes —

	Rs
For works in progress	5,75,000
For new works	5,83,750
For minor works and surveys	(a) 1,06,250
	<u>12,75,000</u>

15 Of the provision for works in progress, the amounts required for the principal works are as follows —

	Amount of Estimate	Probable out- lay to end of 1875-76	Required for 1876-77
	Rs	Rs	Rs
Desert Canal in Sindh	8,54,811	2,77,541	1,00,000
Kashmor and Bigari Bund	6,53,655	5,80,624	75,000
Thar Canal	4,14,463	3,21,982	75,000
Great Maruck Canal	1,62,215	1,46,724	25,000
Madak Tank	1,72,836	1,45,153	25,000
Utilising surplus water of Western Narra	56,796	15,127	37,500
Mhuswa Tank	1,00,836	39,437	50,000
			<u>3,87,500</u>
Other works			<u>1,87,500</u>
			<u>5,75,000</u>

16 As regards the Desert Canal, the actual outlay on the work to end of 1874-75 has been, exclusive of Establishment, &c . . . 2,53,232
The grant for 1875-76 is . . . 1,00,000

Total 3,53,232

But according to the demand statement, the probable outlay to end of 1875-76 is expected to be only 2,77,541

Explanation should be furnished as to whether it is really the case that the outlay of 1875-76 will be only Rs 2,77,541—2,53,232=24,309, against a grant of 1 lakh

17. On the second work, Kashmor and Bigari Bund, the grant for 1875-76 is 2 lakhs, and as only Rs 75,000 is required for its completion next official year, the result is that 1½ lakhs will be available for other works

(a) The actual demand is Rs 53,750 but there is a mistake in the totals of the Bombay statement of Rs 12,500 and in order to prevent any correction in the grand total of the demand, the amount of the error has been included under Minor Works

18 For new works the demand is as follows—

	Probable cost.	Required for 1876-77
	Rs	Rs
Excavating and training Eastern Nara Channel	A 3,41,382	1,00,000
Pingli Tank on the Maun River	1,40,507	50,000
Nehr Tank on Yerla	A 2,21,803	50,000
Chunkapur Tank	A 3,03,100	50,000
Bokh Reservoir	96,150	50,000
Khari Cut	63,850	50,000
Tulwara Tank	23,973	25,000
Chowpala "	22,674	25,000
Kudali Project	21,350	25,000
Doni Tank	89,080	50,000
Other works		4,75,000
		1,18,750
		5,93,750

19 The estimates for the three works marked A, and for which grants aggregating 2 lakhs are required, have still to come to the Government of India for sanction, and until they are received, it is premature to assign any grants for them. The provision proposed is therefore disallowed.

20. For minor works and surveys the grant for the current year is only Rs 67,364 against Rs 1,06,250 required for next year. The difference is disallowed.

21 On the whole, the total grant that the Government of India find it possible to allow for expenditure during 1876-77 from Ordinary Imperial funds on Irrigation Works in Bombay, to Bombay, is Rs 19 lakhs, being rupees one lakh in excess of the grant for the current year. It is left to the Local Government to distribute, subject to the remarks contained in these orders, the amount allowed, but it is to be understood that out of the sum of 19 lakhs provision should be made for the following works which the Government of India cannot permit to be charged otherwise than to "Ordinary" until the revised estimates for them have been received and sanctioned as debitable to Extraordinary—

Improvements to Bigari Canal.

Sukkur and Shadadpore Canal

BENGAL

22 The figures are as follows —

	Demand, 1876-77	Grant, 1875-76	Outlay, 1874-75	Outlay, 1873-74	Outlay, 1872-73
	Rs	Rs	Rs	Rs	Rs
Works	7,80,000	1,61,445	4,38,126	2,73,110	3,60,480
Repairs	7,20,000	7,00,000	4,64,649	5,03,580	5,75,130
Establishment	4,75,000	4,57,608	5,10,498	2,58,310	2,53,240
Tools and Plant	25,000	30,917	53,344	12,380	5,410
Suspense			22,255	—31,070	—2,13,920
Less receipts on Capital Account	20,00,000	13,50,000	14,58,872	10,16,310	10,10,300
	20,00,000	13,50,000	14,88,517	10,16,310	10,10,300

23 The increase in the demand for 1876-77 as compared with the grant for 1875-76 falls chiefly under Works. The principal demands under Works are—

	Rs
1—Hooghly and Burdwan Irrigation scheme	2,85,000
2—Remodelling Cuttack revetment wall	1,00,000
3—Works for the improvement of False Point Harbour	1,00,000
4—Survey and demarcation of lands belonging to Government embankments	50,000
5—Sluices in the Damoodah and 24-Pergunnahs embankments	1,00,000
6—Inspection bungalows on Gunduck embankments	50,000
	6,85,000

24. As regards the first work, the estimates have been submitted to the Government of India, but correspondence is in progress regarding the amount to be paid for land which may take time to settle. Until this is done, it would seem premature to allow a grant for the work, and the provision is therefore disallowed. The second work, remodelling Cuttack revetment wall, is a work said to be necessary for putting the work into a proper condition, but unless the anicut has raised the flood level, or otherwise added to the danger from floods to the city, it would seem that the funds for the purpose should be provided from Provincial or Local funds. The third work, improvement of False Point Harbour, Rs 1,00,000, cannot, it is said, be provided from Provincial funds. But the work is not one of Irrigation or Agricultural, and if Imperial assistance is necessary, it should be applied for separately. The need for the other three works is not explained. The estimates for them will have to come up to Government of India for sanction, and until this is done, it is premature to provide an allotment for them.

25 Under Works and Establishment the provision for the Gunduck Survey amounts to Rs 1,15,000*. It is understood that the survey will be brought to a termination during the current official year, and unless the Establishment is to be kept on, pending decision of Government as to whether the works should be undertaken, it would seem unnecessary to provide such a large sum for the Establishment.

26 On the whole the items may be reduced as follows—

	Rs.
Hooghly and Burdwan Irrigation Scheme	2,85,000
Remodelling Cuttack Revetment wall	1,00,000
Works for improvement of False Point Harbour	1,00,000
Survey and demarcation of lands on Government embankments	50,000
Sluices in Damoodah	1,00,000
Establishment	1,00,000
	7,35,000

27 The Government of India have been pleased to assign a grant of Rs 13,50,000 corresponding to the allotment of the current official year. Subject to the orders herein issued, it is left to the Government of Bengal to distribute the amount as circumstances may require.

28 NORTH WESTERN PROVINCES
The figures are as follows —

	Demand, 1876-77	Grant, 1875-76	Outlay, 1874-75	Outlay, 1873-74	Outlay, 1872-73
	Rs	Rs	Rs	Rs	Rs
Works	6,92,200	3,21,500	2,71,511	2,49,580	3,07,360
Repairs,	5,30,650	5,69,000	5,25,993	4,68,320	4,94,240
Establishment ..	8,88,300	7,66,500	8,03,505	8,30,030	9,48,550
Plant	38,850	50,050	1,01,772	32,630	—2,700
Profit and Loss					
Suspense		—32,050	—7,857	—1,04,680	—2,60,680
Less receipts on Capital Account	21,50,000	16,75,000	16,94,929	14,75,880	14,86,770
			35,022	14,060	1,620
Refunds to loan grant	21,50,000	16,75,000	16,59,907	14,61,820	14,85,150
			85,627		
	21,50,000	16,75,000	17,45,534	14,61,820	14,85,150

29 The cause of the increase in the demand for 1876-77, over the grant for 1875-76, lies chiefly in the application for a special grant of *4 lakhs for drainage works. Regarding these works it is said that, "as it will be necessary to repay money advanced from Provincial funds for works chargeable to canals when the estimates are submitted, as well as to provide funds for next year's operations, the Lieutenant Governor trusts that the full sum now applied for may be allowed from Imperial funds."

30 The Government of India consider that it would be more in accordance with sound financial principles to require that such portion of the outlay of 1875-76 as may be chargeable to Imperial funds should be so charged in the accounts of that year, and that the necessary funds should be reserved for the purpose out of the grant of 1875-76. The accounts are generally kept open from 6 to 8 months after the close of the year, so that there is ample time to ascertain for inclusion in the accounts of 1875-76 what portion of the outlay of that year is debitable to Imperial funds. The Government of the North Western Provinces is requested to cause an estimate to be prepared and submitted for approval as soon as possible of the amount chargeable to Imperial funds in 1875-76, so as to admit of a grant being assigned accordingly during the current official year. Assuming that 2 lakhs will have to be so assigned, it will suffice to provide 2 lakhs only for expenditure in 1876-77, so that the total demand for next year can be reduced to Rs 19,50,000 for which sum a grant is hereby assigned.

PUNJAB

31. The figures are as follows —

	Demand, 1876-77	Grant, 1875-76	Outlay, 1874-75	Outlay, 1873-74	Outlay, 1872-73
	Rs	Rs	Rs	Rs	Rs
Original Works	2,57,600	89,564	97,411	60,040	1,06,160
Repairs	4,69,000	4,01,600	4,20,161	4,20,570	4,16,050
Establishment	8,42,400	8,22,636	6,53,946	6,49,710	6,22,870
Tools and Plant	29,000	20,600	28,548	35,040	19,640
Profit and Loss			3,301		
Suspense			—36,034	7,160	—1,59,300
Receipts on Capital Account			—16,495		
Refunds to loan grant	16,02,000	13,34,400	11,52,833	11,72,520	10,05,420
				92,830	3,420
	16,02,000	13,34,400	11,52,833	12,65,350	10,80,840

32. The increase in the demand for 1876-77, as compared with 1875-76, falls chiefly under Works and Repairs. The increase under Repairs is Rs 64,400, and is said to be mainly owing to the necessity for repairing the damage done by the recent floods and for providing embankments in place of those which have been destroyed.

33 The same reason is assigned for the increase under Works, but the explanation is apparently not applicable to the following demands —

	Rs
Canal Office at Delhi, Western Jumna Canal	18,000
Inspection Bungalows, Lower Sutlej and Chenab Division	25,000
Purchase of Abdul Rahim Khan's Canal	50,000
This is to be paid for in the current official year, so that no grant is necessary for next year	
Total	93,000

These three items deducted, the demand can be reduced in even sums by one lakh.

34 For the Derajat Circle there are the following works —

	Rs
River embankments	60,000
Regulators	15,000
Inspection Bungalows	10,000
	85,000

Explanation is necessary as to whether this demand relates to the Mozuffergurh embankments the cost of which was to have been and is being met from Provincial funds.

35 Judged by the circumstance that the demand for establishment is Rs 26,764 in excess of the grant for the current official year, the demand would appear to include provision for the following Survey Establishment charges which it is desired to bring to a conclusion during the current official year—

	Rs.
Derajat Survey	70,450
Lower Baree Doab	52,886
	1,23,336

If the surveys are to be brought to a conclusion, then 1½ lakhs can be taken off the demand for establishment. The establishment thus released can be employed on the Swat River Canal if it is to be undertaken next year.

36 Under Extraordinary there is the following demand for repairs and defence works of the Madhopur Weir, the debit of which to Extraordinary has not been sanctioned as yet—

	Rs
Repairs to Madhopur Weir	40,000
Defence works for ditto	40,000
	80,000

Some portion of this amount may, perhaps, be debitable to Capital,

but until this is settled, it would seem injudicious to allow the provision to stand under Extraordinary It should therefore be transferred to Ordinary.

37. Making this transfer then, the demand statement would stand as follows—

	Rs
Total	16,02,000
Add for works above mentioned	80,000
	16,82,000
Less for Establishment	1,25,000
„ for works	1,00,000
	2,25,000
Net amount	14,57,000

for which sum a grant is hereby assigned It is left to the Government of the Punjab to distribute the amount as circumstances may require

BRITISH BURMAH

38 The figures are as follows —

	Demand, 1876-77	Grant, 1875-76	Outlay, 1874-75	Outlay, 1873-74	Outlay, 1872-73
	Rs	Rs	Rs	Rs	Rs
Original Works	2,95,000	1,22,200	1,54,305	2,02,110	2,27,040
Repairs	38,500	31,800	27,447	31,650	20,880
Establishment	63,500	52,000	42,015	52,680	49,020
Tools and Plant	3,000	2,000	1,610	580	3,130
Profit and Loss	...	...	..	50	..
Suspense	...	...	—3,292	2,300	120
	4,00,000	2,08,000	2,22,035	2,89,370	3,00,190
Less receipts on Capital Account			591	220	1,000
	4,00,000	2,08,000	2,21,494	2,89,150	2,99,190

39 The increase in the demand for 1876-77 over the grant for 1875-76 is due to provision having been made for the following works —

	Rs
1—Raising Western Irrawaddy embankments	1,15,000
2—Reclamation of Thatone plain	40,000
3— „ of Pegu	60,000
	2,15,000

40 The estimates for the first two works have still to come to the Government of India The estimate for the third work is now under consideration On the whole, total grant of 3 lakhs would appear to be sufficient, and this sum is hereby allowed

RAJPOOTANA.

41. The figures are as follows —

	Demand, 1876-77	Grant, 1875-76	Outlay, 1874-75	Outlay, 1873-74	Outlay, 1872-73
	Rs	Rs	Rs	Rs	Rs
Works	1,16,000	91,000	1,14,174	65,130	18,870
Repairs	34,400	31,000	22,529	36,750	24,900
Establishment	44,350	42,800	47,966	59,620	71,090
Tools and Plant	6,750	10,200	2,908	12,590	850
Suspense			8 516 —11,743	12,780	—7,720
Receipts on Capital Account			—17		
	2,01,500	1,75,000	1,84,333	1,86,870	1,07,990
Refunds to loan grant			1,86,981		
	2,01,500	1,75,000	3,71,314	1,86,870	1,07,990

42 The increase in the provision for 1876-77, as compared with the grant for 1875-76, is due to a demand of Rs 30,000 for a new work, the "Mohamee Reservoir," for which it is said that an estimate will be submitted in time for the Budget But as the Government of India are not prepared to allow a larger grant for Irrigation Works than was allowed for the current official year, the provision for the Reservoir is disallowed, and the total grant for next year fixed at an even sum of Rs 1,70,000

43 One portion of the demand for new works relates to the Jalea Reservoir The probable outlay on this work to end of 1875-76 is set down at Rs. 1,70,000

	Rs
But the actual outlay to end of 1874-75 has been	1,20,847
The grant for 1875-76	60,000
	1,80,847

so that it is probable that there will be a lapse of Rs 10,847 in the current year's grant

But the provision in the estimate for the Jalea Reservoir for Works is only Rs 1,76,667. In the demand statement it is set down at Rs. 2,41,211. Explanation of the cause of difference is requested.

SUMMARY OF ORDINARY GRANTS

44. The following is a summary of the grant passed provisionally under Ordinary for next year compared with the grant for the current official year —

	1876-77	1875-76	Increase
	Rs.	Rs.	Rs.
Madras ..	28,72,000	28,56,600	15,400
Bombay ..	19,00,000	18,00,000	1,00,000
Bengal ..	13,50,000	13,50,000	
North Western Provinces ..	19,50,000	16,75,000	2,75,000
Punjab ..	14,57,000	13,34,400	1,22,600
British Burmah ..	3,00,000	2,05,000	92,000
Rajpootana ..	1,70,000	1,75,000	-5,000
Coorg ..	1,000	1,000	
	1,00,00,000	91,00,000	6,00,000

EXTRAORDINARY

45 Compared with the Forecast the demands under the head Extraordinary for the next official year are as follows —

	Demand.	Forecast
	Rs.	Rs.
Madras ..	5,70,000	6,45,200
Less from Ordinary ..	1,50,000	1,40,000
Bombay ..	4,20,000	5,05,200
Bengal ..	7,62,500	2,20,000
North Western Provinces ..	46,00,000	39,00,000
Punjab ..	45,00,000	36,00,000
	39,30,000	37,50,000
Less from contribution for Sirhind Canal ..	1,42,12,500	1,19,75,200
	10,00,000	10,00,000
Undistributed ..	1,32,12,500	1,09,75,200
	-2,12,500	20,24,710
	1,30,00,000	1,30,00,000

46 The decrease in the demand for Madras as compared with the forecast is due to sanction not having been accorded by the Government of India for certain sub-sections of the Kistna Delta Works until certain information regarding remunerative returns, both past and present, had been furnished. The total grant under Extraordinary for next year is passed for Rs 5,70,000, of which Rs 1,00,000 will be met by the refund from the Ordinary grant, Rs 50,000 from Provincial Funds on account of the Madras Water-supply Project, and the balance Rs 4,20,000 by a specific allotment under Extraordinary.

47. In the case of Bombay the increase in the demand as compared with the forecast is accounted for as follows —

	Rs
I—Improvements to Bigari Canal—The work was entered in the Forecast as likely to have been completed by the end of 1875-76, but it now seems that a revised estimate has to be sent up, thereby involving a provision for next year of	75,000
II—Sukkur Canal as above	50,000
III—Palkheir Canal, Lakh Canal, Ekrook Tank and Krishna Canal. Small sums required to admit of their completion	50,000
IV—Mutha Canal. Sum required for next year is Rs 4,00,000 exclusive of establishment, the provision in the forecast inclusive of establishment having been only Rs 2,20,000. The increase is due to the revised estimate for the work submitted to the Government of India on the 15th July 1875 (the forecast was published on the 11th June 1875) involving an outlay of £ 543,000, whereas in the forecast the cost was set down at £ 493,000 ..	1,80,000
V—Provision for Hathmati Canal—The sum required for the completion of the work is ½ lakh. But it seems that ½ lakh is wanted because the grant for the current year is not likely to be spent	50,000
Establishment and Tools and Plant for above works	1,37,500
	5,42,500

48 The revised estimates for the Bigari Canal and the Sukkur Canal have been often called for, and until they are sanctioned the Government of India has no alternative but to require that no expenditure should be incurred on the works next year from Extraordinary funds, and that the necessary grant for the purpose should be provided from the Ordinary grant. By this arrangement a grant of 6 lakhs under Extraordinary will be sufficient for 1876-77, and this amount is accordingly allowed.

49 In Bengal the demand statement provides for an increase of 7 lakhs over the forecast. In explanation of the increased provision, the Government of Bengal say as follows —

“Six lakhs have been provided for the several canals connected with the Mahanuddy Series, and five lakhs for the Brahamnee and Byturnee Series. The works are approaching completion, and funds should not be curtailed now. For the Midnapoor Series three lakhs have been provided, of which two lakhs are for distributaries, and the remaining one lakh for the extension and lockage of Canal Range II. The estimates for the latter work were received from the Superintending Engineer, but have been returned for revision. It is hoped that they will be submitted to the Government of India at an early date. The provision for the Sone Canals is all for sanctioned works, and the amount (20 lakhs) has been obtained after considerably reducing the sums put down by the Superintending Engineer. The whole amount will no doubt be spent with advantage. The amount for Tools and Plant (3 lakhs) includes provision for mud barges lately sanctioned for the Soane and Midnapoor Canals.”

50 Compared with the Forecast the demand for each Canal is as follows —

	Forecast	Demand
	Rs.	Rs.
Soane Project ..	24,00,000	* 26,00,000
Orissa ..	15,00,000	20,00,000
	39,00,000	46,00,000

* The charges for Establishment and Tools and Plant have had to be apportioned off in arriving at these amounts.

50 It is absolutely necessary to adhere to the limit on outlay imposed by the Forecast, and the grant to Bengal for next year is therefore fixed at Rs 39,00,000

51 For the North Western Provinces the figures are—

	Forecast Rs	Demand Rs
Re-modelling and extensions of Ganges Canal	8,00,000	8,10,000
Agra Canal	2,00,000	3,65,800
Lower Ganges Canal	26,00,000	33,24,200
	<u>36,00,000</u>	<u>45,00,000</u>

52 The demand statement has, it is said, been prepared for the limit assigned in Public Works Department Resolution Nos 370—79 A—I, dated 21st December 1874, viz, Rs 45 lakhs. But that Rs 45 lakhs was for 1875-76, not for 1876-77, and special orders were subsequently issued that the demand was to be limited by the sums set down in the published Forecast

53 The grants now allowed are—

	Rs
Agra Canal	3,65,800
Ganges Canal	8,00,000
Lower Ganges Canal	<u>24,34,200</u>
	<u>36,00,000</u>

54 For the Punjab the demand statement is Rs 1,80,000 in excess of the amount provided in the Forecast. This excess is made up of two items, viz—

	Rs
Repairs to Mithapur Weir, and defence works for ditto	80,000
Works in the Lower Baree Doab Circle	<u>1,00,000</u>
	<u>1,80,000</u>

Neither of these works can be allowed otherwise than from Ordinary until the estimates have been specially passed as Extraordinary.

55 Disallowing these items, the demand for next year will be reduced to Rs 37,50,000, of which Rs 10,00,000 may be set down as to be provided for from contributions by Native States. It is requested that in future demand statements the amount to be met from contributions for the Sirhind Canal may be specifically mentioned.

56 On the whole, the grants provisionally allowed for Extraordinary Irrigation Works, compared with the grants for 1875-76, will be as follows—

	1876-77 Rs	1875-76 Rs
Madras	4,20,000	5,40,000
Bombay	6,00,000	7,50,000
Bengal	39,00,000	42,60,000
North Western Provinces	36,00,000	45,00,000
Punjab	37,50,000	
Less from contributions Rs 10,00,000	<u>27,50,000</u>	(a) 29,50,000
Reserve in the hands of the Government of India	<u>17,30,000</u>	
	<u>1,30,00,000</u>	<u>1,30,00,000</u>

(a) —After deduction of Rs. 8,00,000 to be met from Contributions of Sirhind Canal.

GENERAL SUMMARY.

57 The following is an abstract of the total provisional grants Ordinary and Extraordinary allowed in these orders for 1876-77, as compared with the grants for 1875-76

	Ordinary		Extraordinary		Total	
	1876-77	1875-76	1876-77	1875-76	1876-77	1875-76
	Rs	Rs	Rs	Rs	Rs	Rs
Madras	(a) 28,72,000	28,56,600	(b) 4,20,000	5,40,000	32,92,000	33,96,600
Bombay	19,00,000	18,00,000	6,00,000	7,50,000	25,00,000	25,50,000
Bengal	13,50,000	13,50,000	39,00,000	42,60,000	52,50,000	56,10,000
North-Western Provinces	19,50,000	16,75,000	36,00,000	45,00,000	55,50,000	61,75,000
Punjab	14,57,000	13,34,400	(c) 27,50,000	(d) 29,50,000	42,07,000	42,84,400
Central Provinces					3,00,000	2,08,000
British Burmah	3,00,000	2,08,000			1,70,000	1,75,000
Rajpootana	1,70,000	1,75,000			1,000	1,000
Coorg	1,000	1,000			17,30,000	
Reserve			17,30,000			
	<u>1,00,00,000</u>	<u>94,00,000</u>	<u>1,30,00,000</u>	<u>1,30,00,000</u>	<u>2,30,00,000</u>	<u>2,24,00,000</u>

(a) —Includes provision Rs 1,00,000 for refund to Extraordinary grant.

(b) —After deduction of Rs 1,50,000 to be refunded from Ordinary grant, and from Provincial funds

(c) —After deduction of Rs 10,00,000 to be met from Contributions by Native States.

(d) —After deduction of Rs 8,00,000

58 The sums allowed include provision for expenditure in England for stores for Irrigation Works, Ordinary as well as Extraordinary, and the Budget-Estimates should be prepared accordingly.

ORDER —Ordered, that this Resolution be communicated to the Government of Madras, Bombay, Bengal, North Western Provinces and Punjab, Chief Commissioner, British Burmah, Governor General's Agent, Rajpootana, and Chief Commissioner, Coorg, for their information and guidance, and to the Financial Department for information.

C. H. DICKENS, Colonel, R. A.,
Secy to the Govt of India.

GOVERNMENT OF INDIA
PUBLIC WORKS DEPARTMENT

ACCOUNT
Irrigation

To

Nos. 370—8 A—I.

Dated November 13, 1875

Received

Distribution of the grant for Irrigation Works
for 1876-77

No 204, P W D., Press—13-11-75-100

N^o 369-

M. WORKS FORM No

Current No

From

No. 29

Dated

11th June 3 1876.
Recd 20th in 3 1876.

Subject — Note on the
Irrigation Budget
for 1876-77.

ENCLOSURES

From

to

"

"

"

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"

"

Orders and Proceedings in file

Depart- ment	No	Date	ENDORSEMENTS		
			Depart- ment	No	Dated
P. W. D.			P. W. D.		
454-489	18-	2-75.	513-514	21-	9-75.
260-261	9-	7-75.	35-36	2-	10-75.
440-442	28-	10-75.	215-217	14-	10-75.
42-43	3-	11-75.	440-442	7-	2-75.
41-44	5-	1-76	21-23	15-	5-75
58-60	2-	6-75.	583-584	21-	9-75
41-42	5-	1-76.			
293-294	16-	10-75.			

FORMER CASES

Current No	of 187
"	"
"	"
"	"
"	"

LATER CASES

Current No	of 187
"	"
"	"
"	"

N^o 39

33

Note by the Chief Engineer for Irrigation.

The Government of India in their Resolution N^o 370 A. I. of the 13th November last, para 12, allow 27,72,000 Rupees under Agricultural Ordinary for 1876-77. The budget as prepared provides under Capital Ordinary, for

Works	Establishment	Tools & Plant	Total
4,99,122	124,680	85,022	7,08,824

under Revenue			
13,76,175	48,7370	97,738	19,61,283

under Miscellaneous

New Works 123,630	68,100	34,055
Repairs 14,8825		
		30,10,662

The total being much in excess of the grant made by the Government of India, but about the amount putted in the rough estimate. Under Capital, all the works are enumerated in abstract in part II, and on the one hand

N^o 369-

hand there are no items for which a sufficient reason has not been given for the entries, and a very large number is made up of works of a kind which would have had to be carried out in emergency had they not been duly provided for and commenced some time since. There may be differences in the amounts required in some cases in 1876-77 as the expenditure up to the end of the year cannot be accurately calculated several months before hand and the season has been such that more work will probably be accomplished up to the 31st March, than was anticipated when the District statements were prepared.

The provision under Minor New Works is Rupees 2,30,000 - that for the current year was originally Rupees 251000 which was reduced to Rupees 193000 and by several transfers the total has been made up to Rupees 203943

For a long time past this office has been obliged to refuse allotments for Minor New Works, and yet District officers

Pro Madras Govt.
No 482 dated 18-2-75
Para 19 of Note
by C.E. for I

Repairs. Part IV

2511
Officers have been pressed to understand the importance of making irrigation works safe and to act upon that recognition. Only a few out of many District Engineers have really set to work in earnest and at once the supply of funds comes to an end. The Government of India have been told that for some years the outlay on Minor New Works should be 5 lakhs.

The demands made by District Engineers amounted to Rupees 17,12,400 and it has been necessary to make arbitrary reductions in this office, some of them of very large amount. The details of reduction will, in many cases, have to be determined by the District Engineers, but where practicable individual allotments have been altered. It has nevertheless been found impracticable to reduce the total to the 15 lakhs entered in the rough estimate submitted to the Government of India and this total amounts to Rupees 15 1/4 lakhs. The undersigned

undersigned entertains grave doubts
of the propriety of some of the reductions
which have been of necessity made.

Rupies 13,400 have been struck out of
the Kodavery with much reluctance
and Rupies 21,000 from Tanjore, the
proposed grant of Rupies 1,71,000 for which
is very low considering the extent of the
Delta and its irrigation. District Engineers
who find that the grants hitherto
made under Repairs Agricultural
are inefficient should as early as
practicable submit such information
as will enable this office to report to
Government at what amount the
grant for the Presidency for 1877-78
should be fixed and this information
to be of use must be received some
little time before the date fixed for
the transmission to the Government of
the rough estimate for the year.
District officers should be careful
to distinguish between what may be
termed special repairs and ordinary
upkeep so that it may be as clearly as
possible understood for what time

15th Sept^r

37.12
substantial expenditure may be necessary
and to what causes its necessity is attrib-
utable, and what the normal cost of
maintaining works in an efficient
state will be. In the Kodavery and
perhaps in some few other Districts the
construction of additional canals, channels
&c. provides an increased expenditure
on maintenance requisite and this and
all other reasons for applying for addition
to allotments, should be duly noticed.

Part VI: Ordinary Capital. The provision is
Rupies 55,022 in excess of that for the
current year. The causes are -

CO. 1743
of 9th July/75.

1st Rupies 40,000 have, with reference
to the order as per margin, been entered
for increase of Capital Dowlaiswaram
workshop

2nd The Floating Plant of the Krishna
is inadequate to the execution of any
considerable amount of work in the
Delta and it will take some years to
effect even a moderate increase. In

In 1875-76 some money was allotted under
Extraordinary, but the estimates submitted
for several sections of the Delta not having
been sanctioned by the Government of
India, nothing could be entered under
Loan Funds for 1876-77. On the other hand,
unless the Floating Plant be steadily in-
creased when those estimates are
sanctioned for execution, it will be im-
practicable to carry them out.

Review - The increase of Rs 31,738
here is due entirely to special repairs needed
by the Floating Plant which like that in
the Godavery has been allowed to fall
much out of repair. Estimates were reviewed
and sanctioned in the order as per margin 20.11.1875

In reference to the order of Govt. of
the 3rd November 1875, No. 3107 directing that
the estimated expenditure should be
shown in the Budget by Executive Ranges
or divisions, it is to be noted that the
change was proposed too late to be carried
into effect in the Budgets of every
District and that reference cannot now

be made to the officers concerned without
causing unreasonable delay. Full effect
will be given to the order in the next
year's estimates.

(By Order)

Lokanath George
11 January 1876

J. M. Scott

Major R. E.

Assistant Chief Engineer
Irrigation Department

To The Secretary to Government
P. W. D.

Proceedings of the Madras Court
Under date the 22nd Jan'y 76
Read the following:-

From the Chief Justice for H.E. No 39 of 11th Jan'y 76
Bengal - 3

The Government
observe that the total of the
estimates under Capital &
Extraordinary in the regular
Budget estimate is
Rupees ————— 5,16,033
of which Rupees — 1,50,000
are to be found by
refunds from Imperial
Ordinary and Provincial
Funds leaving the net
grant at Rupees — 3,66,033

The amount passed by
the Government of India
in the orders in the Rough
estimate was Rs. 4,20,000

so that 53,964 are not available
of. —

2. All that is
practicable is being done
to complete the revised
estimate for the Madras
Water Works project and
the Chemburam tank and
Tank. The latest informa-
tion available is contained
in the Proceedings as per
margin. For a long time
past nothing but work
demanded so urgent has
been

Ordinary. Para 5 of
Resolution. —

P. M. G. D. June 1875 N.
1548. —

been in progress on these
projects. It has been clearly
shown that certain improve-
ments, alterations, and

additions were necessary.

not as matters of convenience
but for the security of the
works. The non-completion
of these estimates, the
requirements in connection
with which have been
constantly changing, is
a matter of regret, but
it does not relieve the
Government of the respon-
sibility of deciding in each
case what work may
properly

properly be deemed emergent,
and of directing its execution.
The lengthening of the
Artificial Inlets of the
Madras Water Works;
the alterations of the drainage
arrangements of the Chelavaram
Tank supply channel; the
insertion of sluices in the
escape of the Red Hills
reservoir are instances in
point as regards the
Madras Water Works and
as regards the Chembraumbakkam
Tank there have similarly
been the adoption after
due discussions of certain
increases.

450
increased means of disposing
of surplus, and the proposals
for lengthening the Perambur
Aricut. These estimates
in the case of works of
this kind are very difficult
of compilation. Complete
information up to date will
in due course be laid before
the Government of India.
but whether it will or will
not be anticipated & modified
hereafter is a point
which can be settled only
in the future -
The question of the
separation of Provincial to
Ordinary

Para II. -

Ordinary Agricultural on
account of the outlay made
on the Madras Water Works
project, for the benefit of
the Town of Madras, has
been the subject of careful
enquiry, and papers containing
much additional information
are now under consideration.

On the letter N^o 854 I from
the Government of India
orders were passed in P.M.
N^o 162 B of the 24th of
January 1874.

3 It is to be
noted that complete
information regarding the

Pennair

P.M. N^o 21 dated 5th
January 1876

Para b. -

Para 9.

21st Feb 1875.
N^o 2941

477
Pennair, ancient has been
furnished to the Government
of India in P.M. N^o 16th
October 1875, N^o 2962,
and in the papers therewith
transmitted.

4. The river embank-
ment on the right bank
of the river above and below
Nellor is not a part of
the ancient system and
has been sanctioned as
unconnected with it, as is
well be found on referring
to the C.P.D. approving
of the estimates in which
the sanction was given.
under

under Miscellaneous or
in other words under
"Ordinary Agricultural
works for which no Capital
or Revenue accounts are
kept," the latter being the
corresponding description
in use by the Government
of India.

5. The Canal Ferry
boats have been struck out
pending a settlement of
the question whether ferry
funds and if so to what
amount are available.
A copy of the Proceedings
Madras Government
Containing
the

Paras 7 & 8 -

Print
1 Resolution by
Govt of India

2 Note by C.E. for
irrigation

3 Nos & Dates from
S.E.

24/1/76 -

C. Q. V. 2840
2nd Decr 1875.

41 10
The latest information on the
subject of the lands to be
protected by the Polavaram
island embankments will
be transmitted to the Govern-
ment of India. The
position of Inam holders
is under consideration in
the Revenue Department.
The proposed allotment
for the work for 1876-77
stands at Rs 15,000.
The Government of India
appear to be unaware of
the circumstances of the
Godavari embankments.
The Godavari is a river
already embanked and
attention

attention having been called
to the insufficiency of
flood banks generally by
the numerous accidents of
1872 and 1874 a warning
was sent to the Godavari
and some dangerous places
were at once attended to
to see estimates regularly
prepared. The fresh of
July 1873 was more than
a warning and whether the
proposals of the local
Officers be accepted or not
it will be necessary to
incur some expenditure
at once, Rupees 30,000

...

...

51
have therefore been allotted
for the flood banks under
the estimate, and, according
to the order of embankment in the
Guzarat Ranges have to be
attended to. It is not unlikely
probably that a supplementary
grant will have
to be applied for.
The Chief Engineer
for Irrigation has, in his
note on the Budget, as
compiled, shown that it is
not practicable to keep the
total under Ordinary within
the limit of Rs 24,20,000
the grant artificially assigned
for

by the Government of
India. The views of the
Government, as to the amount
which should be assigned
annually to this Presidency
for agricultural works,
have been fully and clearly
laid before the Government
of India. Notwithstanding
that the grant for 1876-77
appears to have been determined
upon the amount of the
confessedly inadequate
allotments of former years,
and the data available
for a correct determination
of the sum needed for the
more

N. 475 dated 17th Feb. 1876
" 2981 dated 14th Feb. 1876

5222
most pressing requirements
of Madras have been
overlooked or ignored.
I am however desirous
that the Government may be
of carrying out the wishes
of the Government of
India, it must be apparent
that, without a reserve,
and without a work of
any magnitude in the
Budget, the carrying
out of which is open to
postponement, it is absolutely
impracticable to provide
for the many contingencies
which

of India have decided
 the Budget estimates
 to be transmitted to
 them in manuscript and
 they will be forwarded
 as compiled by the
 Chief Engineer for Irrigation
 leaving it to the Govern-
 ment of India to make
 such reductions as the
 exigencies of the Public
 Service generally may
 render necessary.

Ans

Wm

22.2.76

St Engrs — 130.
 Ch Engr for Engrs — 5.
 Finl Dept — 7.
 Res - Engrs — 8.
 Asst of Res — 90
 Asst Engr — 4
 Engrs — 13

Office

By Order 20

22.2.76

Irrigation Budget sent
 to Government of India
 in one Book. Parts I-II-III-IV
 V & VI. an Index for Stores
 and Appendix Part VII each
 separately.

22nd January 1876-

172 Public Notice
22 Jan 78 59

The Secretary to the
Government of India
P. W. Dept

Sir

I am directed to forward herewith the Migration Budget Estimates for the year 1876-77 in manuscript together with the Proceedings of Government thereon; and with reference to the Circular of the Govt. of India, under date the 24th November 1875 No 62 A.G. to request that 50 printed copies of the preliminary issue and 350 copies of the final issue may be supplied for the use of the Government of Madras.

Ans. S. M. M.

List of Papers sent.

The Book - Parts I II III IV
V & VI - Indent for
stores & appendant to
Part & each separately -

Go - 483 - 18 Feb/75
1943 - 9 July/75
3036 - 28 Oct/75
3107 - 3^d Nov/75
1548 - 2^d June/75
21 - 5 Jan/76
22 - 5 --- 76
2962 16 Oct/75
2741 - 21 Sept/75
2840 - 2^d Oct/75
2931 14 Oct/75
475 - 17 Feb/75

Drop in M-22-1-76

30 se of Order & 6
se of Letter Drop
2-2-76

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Off. of Public Works

PUBLIC WORKS

Dist. Eng^r

To

For

By

22 Jan 1877

17 1/2

333 - 371

372

Forwarding the Budget
Estimates of the Local
Branch of the Madras
Presidency for 1876-77

Immigration Budget for

1876-77 ———

Presented on the note ~~to~~
The Ch. Eng^r for Immigration
submitting the

5-11-8

2-2-70

which must occur to come
out of 38 to 40 thousands
irrigation works. Such
contingencies have happened
rather frequently and on a
large scale since the early
part of 1872 and the provision
of funds, without reference
to the Budget, has been
unavoidable. An effort
has been made to reduce the
recurrence of preventable
accidents to a minimum,
an arrangement after
due consideration believed
to be preferable to allowing
the accidents to occur and
spending.

N. 3107 dated 3. Nov.
1876.

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spending money on repairing
damage rather than in
rendering the works safe
beforehand.
S. It is observed
that the order directed
that the estimated expenditure
should be shown
in the Budget by
Executive Ranges was
received too late to be
carried into effect this
year but that full effect
will be given to this
order in the preparation
of the Budget of the
next year.
G. The Government
of