(1) Number of pages 176
(2) Date of repair 1/88
(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D. DEPARTMENT

G.O. No. / B.P. No. 1595-96 Press. / Mis.

Dated 23-6-1886 ~~198~~ .

Not to be folded or roughly handled

1595-6
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Appendix to G.O., No. 1595 W., dated 23rd June 1886.

A.—Statement showing amounts applied for and those granted under Imperial—Military and Civil Works.

	Amounts applied for.								Amounts granted.							
	Minor Works.				Repairs.				Minor Works.				Repairs.			
	Military.	Civil Works.			Military.	Civil Works.			Military.	Civil Works.			Military.	Civil Works.		
		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam	..	..	..	..	..	150	..	..	..	..	..	..	..	150	..	..
Rushikulya ..	500	..	..	..	1,000	350	..	..	..	..	..	..	1,000	350	..	..
Vizagapatam ..	700	100	..	..	2,000	500	500	..	..	..	..	..	2,000	300	500	..
Eastern Godávari ..	..	..	..	..	400	300	300	..	..	..	..	..	400	200	300	..
Central do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Western do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eastern Kistna ..	..	..	..	..	..	150	250	..	..	..	..	..	..	150	250	..
Western do. ..	..	..	..	..	..	..	200	..	..	..	..	..	..	..	300	..
Gudivada	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	388	..	..	..	..	..	..	..	300	..	..
Sangam Project ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Buckingham Canal ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary	1,000	..	100	..	25,000	200	200	..	..	..	..	..	25,000	200	200	..
Cuddapah	..	..	..	..	..	200	..	..	..	..	..	..	..	200	..	..
Kurnool	..	..	..	..	..	200	..	..	..	..	..	..	..	200	..	..
Nilgiri	..	..	..	..	25,000	1,000	..	..	..	..	..	..	25,000	800	..	..
Coimbatore ..	..	..	..	..	4,000	500	..	..	..	..	..	..	4,000	500	..	..
West Coast ..	1,000	200	..	..	37,000	500	..	..	..	..	..	..	37,000	500	..	..
North Arcot ..	3,500	500	..	..	3,000	500	42	..	..	..	..	..	3,000	350	42	..
South Arcot ..	..	..	..	..	200	200	..	..	..	..	..	..	200	200	..	..
Chingleput ..	5,000	..	..	..	30,000	..	..	..	..	..	..	..	30,000	..	..	..
Presidency ..	7,000	..	..	..	1,75,000	..	..	..	..	..	..	..	1,75,000	..	..	..
Tanjore	..	..	..	..	600	200	..	..	..	..	..	..	600	200	..	..
Trichinopoly ..	200	..	..	..	5,000	..	..	..	..	..	..	..	5,000	..	..	..
Negapatam ..	..	..	..	..	640	..	..	..	..	..	..	..	640	..	..	..
Madura	..	..	..	..	180	100	..	..	..	..	..	..	180	100	..	..
Ramnad	..	..	..	..	240	..	..	..	..	..	..	..	240	..	..	..
Tinnevelly	..	..	..	..	720	300	100	..	..	..	..	..	720	300	100	..
Consulting Architect.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Officers Commanding Divisions and Districts	..	..	..	..	..	..	..	..	7,037	..	..	..	..	..	..	..
Director-General of Post Office ..	..	..	..	..	..	..	..	..	..	7,065	..	..	..	..	..	..
Director-General of Telegraphs ..	..	..	..	..	..	..	..	..	..	..	698	..	..	..	..	..
Reserve with the Government	..	..	..	..	..	..	..	..	..	..	..	..	485	..	3,308	..
Total ..	18,900	800	100	..	3,09,980	5,838	1,592	..	7,037	7,065	698	..	3,10,465	5,050	5,000	..

B.—Statement of requirements on account of Imperial Incomplete Works for 1885-86 and of New Works sanctioned but not yet commenced.

Division.	Item No.	Name of work.	Amount of estimate.	Number and date of sanction.	Past expenditure.	Balance of estimate.	Amount applied for 1886-87		Amount allotted		Item No.	Remarks.
							For incomplete works.	For new works.	For incomplete works.	For new works.		
1	2	3	4	5	6	7	8	9	10	11	12	13
			RS.		RS.	RS.	RS.	RS.	RS.	RS.		
		IMPERIAL.										
		CIVIL WORKS.										
		Minor Works										
Kistna Western.	1	Post-office at Duggirala ..	900	G.O., No. 1915 W. of 9th July 1883.	143	757	757	..	757	..	1	From minor works grant.
Nellore ..	2	Quarters for a postmaster at Gúdúr.	1,260	G.O., No. 665 W. of 12th March 1886.	28	1,232	1,232	..	1,232	..	2	Do. do.
Tanjore ..	3	Extending post office at Kumbakónam for the accommodation of telegraph office.	..	....	..	..	..	1,000	..	..	3	Estimate is awaited.
Madura ..	4	Constructing a sixth-class post office at Batlagundu.	1,340	G.O., No. 665 W. of 12th March 1886.	144	1,196	1,195	..	1,195	..	4	From minor works grant.
Ramnad ..	5	Additions to post office building, Ramnad.	780	Do. do. ..	..	780	..	780	..	..	5	Application for funds should be made to the Director-General.
		Total ..	..		..	..	3,184	1,780	3,184	..		
		Major Works.										
Godávari Eastern	1	Constructing quarters for telegraph signallers at Cocanada.	34,135	G.O., No. 2099 W. of 25th Aug. 1884.	32,311	1,824	1,824	..	1,824	..	1	From minor works grant.
Do. ..	2	Improvements to the telegraph office at Cocanada.	4,000	G.O., No. 1324 W. of 8th May 1885.	2,889	1,111	1,111	..	1,111	..	2	Do. do.
West Coast ..	3	Constructing a post office at Kalpathi.	2,910	G.O., No. 573 W. of 16th Feb. 1883.	..	2,910	..	2,910	..	..	3	No funds available.
Architect ..	4	Constructing a telegraph office at Madras.	3,19,969	G.O., No. 2789 W. of 21st Nov. 1885.	3,17,602	2,367	2,367	..	2,367	..	4	From minor works grant.
Do. ..	5	Constructing a post office at Madras.	3,72,125	Do. do. ..	3,63,248	8,877	8,877	..	..	..	5	Rs 9,000 were provided in G.O., No. 931 W., dated 5th April 1886.
		Total ..	..		..	..	14,179	2,910	5,302	..		
		MILITARY.										
		Minor Works.										
Rushikulya ..	1	School-room for a regiment of Madras Infantry at Berhampore.	1,390	G.O., No. 3536 W. of 10th Dec. 1885.	..	1,390	..	1,390	..	1,390	1	From minor works grant.
Vizagapatam ..	2	Additions to regimental hospital of the 16th Madras Native Infantry at Vizianagram.	515	G.O., No. 179 W. of 21st Jan. 1884.	..	515	..	515	..	..	2	No funds available.
Do. ..	3	Improvements to the regimental hospital of the 16th Madras Native Infantry at Vizianagram.	545	G.O., No. 1746 W. of 18th July 1884.	..	545	..	545	..	..	3	Do. do.
Do. ..	4	Constructing a magazine for the 16th Madras Native Infantry at Vizianagram.	1,530	G.O., No. 276 W. of 5th Feb. 1885.	..	1,530	..	1,530	..	..	4	Do. do.
Bellary ..	5	Compound wall for the quarters of the Army Hospital corps at Bellary.	1,346	G.O., No. 730 W. of 31st Mar. 1886.	..	1,346	..	1,346	..	..	5	Do. do.
Do. ..	6	Compound wall with 2 gates to enclose the female hospital attached to the station hospital at Bellary.	1,300	G.O., No. 2662 W. of 25th Dec. 1883.	..	1,300	..	1,300	..	..	6	Do. do.
Do. ..	7	Compound wall for the medical subordinates' quarters at the station hospital at Bellary.	535	G.O., No. 611 W. of 6th March 1884.	..	535	..	535	..	..	7	Do. do.
Do. ..	8	Enlarging a well in the cantonment at Bellary.	854	G.O., No. 2849 W. of 9th Dec. 1885.	..	854	..	854	..	..	8	Do. do.
Do. ..	9	Dismantling and re-roofing with Mangalore tiles the coffee shop of the Royal Artillery at Bellary.	1,063	G.O., No. 167 W. of 20th Jan. 1886.	..	1,063	..	1,063	..	1,063	9	From minor works grant.
Nilgiri ..	10	Laying a pipe from the drinking-water cistern to the station hospital at Wellington.	2,226	G.O., No. 893 W. of 2nd April 1886.	..	2,226	..	2,226	..	..	10	No funds available.
Do. ..	11	Improving and altering the hospital nursery dormitories of male and female branches, Lawrence Asylum, Ootacamund.	1,700	G.O., No. 2370 W. of 25th Sept. 1884.	134	1,566	1,566	..	1,566	..	11	From minor works grant.
Do. ..	12	Constructing five bath-rooms to Paymaster Serjeant's quarters at Wellington.	595	G.O., No. 2327 W. of 21st Aug. 1883.	[illegible]	565	565	..	565	..	12	Do. do. do.
West Coast ..	13	Fixing iron dampers to the ovens of the Government bakery at Cannanore.	..	....	91	658	658	..	658	..	13	Do. do. do.
Do. ..	14	Converting the beer godown at Malapuram into a gymnasium shed.	790	G.O., No. 248 W. of 13th Feb. 1885.	..	790	..	790	..	..	14	No funds available.
Do. ..	15	Constructing a platform and pump for a well at the Malapuram barracks.	1,110	G.O., No. 1034 W. of 2nd May 1885.	..	1,110	..	1,110	..	..	15	Do. do.
Do. ..	16	Forming a soldiers' garden at Malapuram.	220	Superintending Engineer's Register No. 9 of 1885-86.	..	220	..	220	..	..	16	Do. do.
Do. ..	17	Converting into a cook-room the godowns attached to the married quarters at the West Hill barracks, Calicut.	40	Do. No. 29 of 1885-86.	..	40	..	40	..	..	17	Do. do.
Do. ..	18	Deepening a well in the cholera camping ground at Malapuram.	410	G.O., No. 1403 W. of 16th June 1885.	..	410	..	410	..	..	18	Do. do.
Do. ..	19	Constructing a slaughter-house and hanging shed at the West Hill barracks, Calicut.	1,954	G.O., No. 2548 W. of 2nd Nov. 1885.	..	1,954	..	1,954	..	..	19	Do. do.
Do. ..	20	Converting into a bakery the cook-room at the West Hill barracks, Calicut.	1,010	G.O., No. 2740 W. of 16th Nov. 1885.	..	1,010	..	1,010	..	..	20	Do. do.
Do. ..	21	Improving the well below the married quarters at the West Hill barracks, Calicut.	150	Superintending Engineer's Register No. 60 of 1885-86.	..	150	..	150	..	..	21	Do. do.

B.—Statement of requirements on account of Imperial Incomplete Works for 1885-86, &c.—*cont.*

Division.	Item No.	Name of work.	Amount of estimate.	Number and date of sanction.	Past expenditure.	Balance of estimate.	Amount applied for 1886-87.		Amount Allotted		Item No.	Remarks.
							For incomplete works.	For new works.	For incomplete works.	For new works.		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Minor Works—cont.	RS.		RS.	RS.	RS.	RS.	RS.	RS.		
West Coast ..	22	Building an urinary for the station hospital at Cannanore.	68	Superintending Engineer's Register No. 20 of 1883-84.	..	68	..	68	..	..	22	No funds available.
Do. ..	23	Sinking a well in the compound of the station hospital at Cannanore.	700	G.O., No. 1778 W. of 21st July 1884.	..	700	..	700	..	..	23	Do. do.
Do. ..	24	Building an urinary for the plunge bath of the Royal Artillery barracks at Cannanore.	30	Superintending Engineer's Register No. 21 of 1883-84.	..	30	..	30	..	..	24	Do. do.
Do. ..	25	Alterations to the floor of the ovens of the Government bakery at Cannanore.	440	Superintending Engineer's Register No. 22 of 1884-85.	..	440	..	440	..	..	25	Do. do.
Do. ..	26	Constructing laterite drains to the Government bakery at Cannanore.	209	Superintending Engineer's Register No. 23 of 1884-85.	..	209	..	209	..	..	26	Do. do.
Do. ..	27	Providing a compound wall and wooden ceiling for the European Infantry cells at Cannanore.	756	G.O., No. 345 W. of 4th February 1885.	..	756	..	756	..	..	27	Do. do.
Do. ..	28	Constructing a permanent verandah for the Quartermaster stores Native Infantry Regiment at Mangalore.	630	G.O., No. 1648 W. of 1st July 1884.	..	630	..	630	..	..	28	Do. do.
Do. ..	29	Substituting asphalte for chunam in the flooring of the wards and surgery of the hospital attached to the Native Infantry Regiment at Mangalore.	695	G.O., No. 1647 W. of 1st July 1884.	..	695	..	695	..	..	29	Do. do.
Do. ..	30	Flooring with tar composite the Native Infantry place-of-arms at Mangalore.	685	G.O., No. 285 W. of 6th February 1885.	..	685	..	685	..	..	30	Do. do.
Do. ..	31	Deepening well on cholera hill at Malapuram.	..	....	..	..	..	600	..	..	31	Do. do. Estimate is awaited.
Do. ..	32	Do. do. ..	..	....	..	..	..	450	..	..	32	Do. do. do.
Do. ..	33	Constructing a compound wall and supplying furniture to the church at Malapuram.	..	....	..	..	..	1,270	..	..	33	Do. do. do.
Do. ..	34	Converting the five family quarters of No. 2 block at the West Hill barracks, Calicut, into a Commissariat Staff Serjeant's quarters and store rooms.	650	G.O., No. 841 W. of 6th April 1885.	..	650	..	650	..	..	34	No funds available.
Coimbatore ..	35	Improvements to the rest house at Pódanúr.	1,190	G.O., No. 1457 W. of 9th June 1885.	73	1,117	177	..	177	..	35	From minor works grant.
Do. ..	36	Constructing two cisterns to hold water for fire engines at the Remount Depôt, Matagiri.	1,330	G.O., No. 951 W. of 23rd April 1885.	200	1,130	1,130	..	1,130	..	36	Do. do.
North Arcot ..	37	Supplying materials for the sanitary improvements to the courtyards of sepoy lines at Vellore.	2,110	G.O., No. 146 W. of 18th January 1886.	503	1,607	1,607	..	1,607	..	37	Do. do.
		Total ..	..		..	..	6,303	24,596	6,303	2,453		
		Major Works.										
Vizagapatam ..	1	Constructing a store shed for the 16th Regiment, Madras Native Infantry, at Vizianagram.	3,480	G.O., No. 2628 W. of 27th Oct. 1884.	..	3,480	..	3,480	..	..	1	No funds available.
Nilgiri ..	2	Bakery at Wellington	32,000	G.O., No. 1838 W. of 29th July 1884.	24,074	7,926	6,100	..	6,100	..	2	From minor works grant.
Do. ..	3	Alterations to the school hospital attached to the Lawrence Asylum, Ootacamund.	31,538	G.O., No. 3281 W. of 12th Dec. 1882.	..	31,538	..	31,538	..	..	3	No funds available.
Do. ..	4	Adding two lying-in wards to the station hospital at Wellington.	3,036	G.O., No. 1373 W. of 6th July 1885.	..	3,036	..	3,036	..	..	4	The amount applied for has been provided in the Military budget for 1886-87, item No. 2, class B works.
West Coast ..	5	Improving and fixing lightning conductors to the Madras Infantry magazine at Quilon.	3,880	G.O., No. 552 W. of 3rd March 1885.	..	3,880	..	3,880	..	3,880	5	From minor works grant.
Do. ..	6	Providing shelves and racks for the storage of ammunition in the double magazine and treasure room in the Cannanore Fort.	3,590	G.O., No. 2368 W. of 24th Sept. 1884, and No. 1253 W. of 19th May 1886.	2,419	1,171	1,170	..	1,170	..	6	Do. do.
Presidency ..	7	Alterations to the Coast batteries at Madras.	14,265	G.O., No. 2126 W. of 11th Sept. 1885.	8,219	6,046	2,021	..	2,021	..	7	From minor works grant, in addition to Rs. 6,025 provided in the budget.
		Total ..	..		..	..	9,291	41,934	9,291	3,880		

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23RD JUNE 1886, No. 1596 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From the Superintending Engineer,	I Circle, dated	3rd June 1886,	No. 490 G.D.	
" " "	II " "	19th May "	(one statement)	
" " "	III " "	8th " "	(three statements).	
" " "	IV " "	11th " "	No. 142 E.W.	
" " "	V " "	11th " "	" 571.	
" " "	V " "	11th " "	" 572.	
" " "	V " "	11th " "	" 573.	
" " "	V " "	11th " "	" 574.	
" " "	V " "	7th June "	" 952.	
" " "	V " "	7th " "	" 964.	
" " "	VI " "	12th May "	" 237 M.D.	
" Consulting Architect to Government,	"	12th " "	" 196.	

ORDER—dated 23rd June 1886, No. 1595 W., Public Works.

With the papers read above, the Superintending Engineers and the Consulting Architect submit statements of the estimated requirements, under Imperial "Military" and "Civil" Works, in lump sums, against each division, for minor works, and repairs, and, in detail, for incomplete works of 1885-86, and for new works proposed to be undertaken in the current official year.

2. Under Imperial "Military," the demands against Original Works amount to—

	RS.
For minor works, lump sums	18,000
" incomplete minor works	6,303
" " major "	9,291
" new minor works	24,595
" " major "	41,934
	1,00,823

and the budget grant for minor works amounts to only Rs. 27,000. The Superintending Engineer, V Circle, having surrendered a sum of Rs. 2,864 from the current year's grant for armament in Fort St. George, it will be resumed, in anticipation of sanction by the Government of India, and added to the grant for minor works, which will then be Rs. 29,864. Of that amount, Rs. 15,594 for incomplete works, and Rs. 6,333 for three new works* considered emergent, have been allotted; and the balance, Rs. 7,937, has been placed, in lump sums, at the disposal of Officers Commanding Divisions and Districts, to whom Superintending Engineers will apply for funds required to meet outlay on such works as are indispensably necessary to be carried out during the year.

3. The demands under Repairs amount to Rs. 3,09,980, against the budget grant of Rs. 3,10,465. The necessary allotment has been made, as will be found in statement A. The allotment to the Presidency division includes provision for re-roofing the mess-house in Fort St. George, and for the Commissariat granary buildings on the beach at Madras.

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* *Vide* G.Os., No. 1320 W., dated 26th May 1886, No. 1355 W., dated 25th May 1886, and No. 1148 W., dated 7th May 1886.

4. A sum of Rs. 844 was applied for by the Superintending Engineer, V Circle, for improving the roof of family quarters, Poonamallee; but as the sanction to the work was ordered to be cancelled (*vide* G.O., No. 585 W., dated 12th March 1886) no appropriation is necessary.

5. Under Imperial "Civil" Works, the demands against Original Works, Postal, amount to—

	RS.
For minor works, lump sum	800
" incomplete minor works	3,184
" " major "	8,877
" new minor works	780
" " major "	2,910
Total ...	16,551

of which, only Rs. 3,184 have been allotted for incomplete minor works. The balance of the budget grant for minor works, after the above allotment, is Rs. 6,816, to which must be added a sum of Rs. 249 transferred from the grant for a new post office at Anantapur. The total, Rs. 7,065, is placed at the disposal of the Director-General of Post Offices, who will allot the requisite funds for works to be undertaken during the year.

6. The demands against Original Works, Telegraph, amount to—

	RS.
For minor works, lump sum	100
" incomplete major works	5,302
" new minor works	1,000
Total ...	6,402

7. Funds have been allotted for all the incomplete works to the extent of Rs. 5,302; and the balance, Rs. 698, of the budget provision for minor works, has been placed at the disposal of the Director-General of Telegraphs, as shown in statement A.

8. The allotment under Repairs (Postal and Telegraph) will be found in statement A. The demands of Superintending Engineers under Postal amount to Rs. 5,838, but have been reduced to Rs. 5,000 to bring the sum within the provision in the budget.

9. Ordered that copies of these proceedings be forwarded to the Government of India in the Military and Public Works departments.

(Here enter No. 1596 W., dated 23rd June 1886.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Examiner, Public Works Accounts.
" Director-General of Post Offices.
" Director-General of Telegraphs.
" Military Department.

ENDORSEMENT—dated 23rd June 1886, No. 1596 W., Public Works.

Forwarded.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of (1886) Madras.

PUBLIC WORKS.

Dated June, 23rd.

Recd. *Encl.*

G.O., 23rd June 1886, No. 1596 W.

JUNE.

Imperial Military and Civil Works

Copies of orders on statements of estimated requirements in 1886-87 under — for incomplete and minor works and repairs, forwarded to the Government of India in the Military and Public Works departments.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

Resolution of the Government of India, Military Department (Accounts—Budget), dated Fort William, 24th March 1886, No. 445 M.W.

MADRAS.

Orders on the Military Works Budget Estimate for 1886-87 and Revised Estimate for 1885-86.

Read—

Military Department Resolution, No. 1208 M.W., dated 27th October 1885.
Letter, No. 3093 W., dated 30th December 1885, from the Government of Madras.
Military Department telegram, No. 218 M.W., dated 18th February 1886.
Telegram, dated 19th February 1886, from Government of Madras.

Resolution—

The estimates of revenue are accepted for the sums entered in the following table :—

REVENUE.

—	Budget estimate, 1886-87.	Revised estimate, 1885-86.	Budget estimate, 1885-86.	Actuals, 1884-85.
	RS.	RS.	RS.	RS.
Ik Public Works Department	30,000	29,500	29,500	33,086

EXPENDITURE.

2. *Budget estimate*, 1886-87.—The estimate has been framed for the total provisional grant of Rs. 6,50,000 sanctioned in Military Department resolution, No. 1208 M.W., of the 27th October last. It is represented that the grant for minor works and repairs is insufficient to meet the requirements under these heads, and that a further grant of Rs. 1,94,000 * is necessary for this purpose. The Government of India are, however, not prepared to increase the grant already assigned, and desire that the distribution of the allotments for original works may be reconsidered with regard to the number of troops likely to be retained in Upper Burma. The amount of such reductions as may be decided upon may be applied to minor works and repairs subject to a total limit of Rs. 27,000 for minor works and Rs. 5,25,000 for repairs.

	RS.
* Repairs	78,432
Minor works	78,000
	1,56,432
Establishment and tools and plant at 24 per cent.	37,544
	1,93,976
Or in round figures ...	1,94,000

3. The details of the estimate for original works are provisionally accepted subject to the following remarks:—

i.—Class A Works.—The allotments for items 1 to 7 are passed subject to the reconsideration referred to in paragraph 2. The grant for item 9, fortified post at Agram, is also passed provisionally, pending receipt of a report as to the nature of the further work to be carried out. It was understood that the work had been completed last year.

ii.—Class B Works.—None of the works in this list appear to the Government of India to be of much urgency; they might be postponed to the extent necessary to provide for increased allotments under the head minor works and repairs.

iii.—It is noticed that provision to the extent of Rs. 40,000 is proposed for alterations to the offices of the Accountant-General and Controller of Military Accounts to make the building suitable for the accommodation of troops. This expenditure would have been necessary had another building for the accommodation of the Military Account offices been acquired. But the scheme for the location of these offices in the building known as "The Mansion" has fallen through, and with it the need for the alterations. The proposed allotment of Rs. 42,000* for alterations to the offices in the list is accordingly withdrawn.

iv.—Item 9 (B), Constructing a new magazine in the Wallajah lines, Rs. 20,000.—The grant is passed provisionally, pending sanction of the Government of India to the commencement of the work; but the necessity of the work must first be fully explained and the estimate duly sanctioned.

v.—Accommodation for additional troops.—A special grant of Rs. 14,000 (including establishment and tools and plant charges) is hereby sanctioned to provide for additional accommodation owing to increased strength of British troops.

4. The modifications ordered in clauses iii and v of the foregoing paragraph result in a net reduction of the provisional grant of Rs. 6,50,000 by Rs. 5,600. The final issue of the budget estimate for 1886-87 should therefore be prepared for a total expenditure of Rs. 6,44,400.

5. *Revised Estimate for* 1885-86.—The estimate is passed for the full amount of the existing grant, Rs. 4,67,000.

6. The details of the estimates of expenditure passed by the Government of India are shown in the following table:—

—		Budget estimate, 1886-87.	Revised estimate, 1885-86.	Budget estimate, 1885-86.	Actuals, 1884-85.
		Rs.	Rs.	Rs.	Rs.
Original Works	In progress	91,800	2,04,600		
	Not commenced	1,01,000		2,29,646	2,02,351
Repairs		3,25,000	1,71,300	2,94,549	2,83,356
Total, Works and Repairs		5,18,500	3,75,900	5,24,195	4,92,727
Establishment		1,20,700	87,400	1,20,563	1,14,345
Tools and Plant		5,200	3,700	5,242	4,935
Grand Total		6,44,400	4,67,000	6,50,000	6,12,007
Deduct—Expenditure in England		...	...	...	250
Net Indian outlay		6,44,400	4,67,000	6,50,000	6,11,757

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* Including establishment and tools and plant charges.

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7. It is observed that the estimates for the four class A works named in the margin have been revised without reference to the Government of India. It is of course within the competence of the Government of Madras to revise estimates within authorised limits, but in the case of military works it appears desirable that the Government of India should be informed of the causes which have led to the sanction of enhanced estimates.

	Amount of Estimate.	
	Budget 1885-86.	Budget 1886-87.
	Rs.	Rs.
Item 1.—Barrack for British Infantry, Malapuram	1,21,[illegible]	1,33,[illegible]
" 3.—Royal Artillery barracks, St. Thomas' Mount	1,25,[illegible]	1,48,[illegible]
" 4.— Do. stables do.	20,[illegible]	21,[illegible]
" 9.—Fortified post, Agram	24,[illegible]	38,[illegible]

8. The authority herewith given to incur expenditure within the limits of the grants shown in the table in paragraph 6 is subject to the condition of a strict observance of the rules in force with regard to the financial regularity of departmental work.

Order—

Ordered that the foregoing be communicated to the Government of Madras, for information and guidance, with the request that 45 printed copies of the budget estimate as now passed may be submitted so as to reach the Government of India not later than the 1st May 1886.

Ordered, also, that a copy be forwarded to the Accountant-General, Public Works Department, for information.

From Colonel E. FAUNCE, Officiating Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 10th April 1886, No. 1540 A.—Through the Secretary to Government, Military Department.

In reply to your letter, No. 1335C, of 6th instant, forwarding copy of resolution (a) of the Government of India on the military works budget of this presidency for the current year, I am desired to state as follows as regards the several points on which you request information.

(a) No. 445 M.W., of 24th March 1886.

I. The Commander-in-Chief regrets that he finds himself unable to recommend any modification of allotments for items 1 to 7, class A works, with reference to the number of troops likely to be retained in Upper Burma, the whole of them being works of special urgency; but, if Government consider it absolutely necessary to make a reduction in the allotment for original works, His Excellency, in deference to such opinion, would, though most reluctant to do so, suggest that expenditure be deferred on items * 2 and 5 only of that list. It may be observed here that, as under present conditions there is no probability of a third regiment of Madras Infantry being located at Trichinopoly, His Excellency has recently submitted† to the Government, in the Military Department, a proposal to appropriate from the grant of Rs. 15,000 made for buildings for two regiments, Madras Infantry, at that station (item No. 6) a sum of

	Grant.
	RS.
* 2. Fort St. George: Converting a racquet court into a covered gymnasium ...	6,800
5. Bangalore: Public buildings for a regiment of Madras Cavalry ...	14,000

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† Quartermaster-General's letter, No. 1420 A., of 7th April 1886.

Rs. 9,000 towards the execution of certain repairs necessary to the Commissariat granary buildings on the beach at Madras to render them suitable as store-rooms for the accommodation of stores to be removed from the casemates in Fort St. George, which it is contemplated‡ to hand over to the Ordnance Department. The remainder of the grant (viz., Rs. 9,000), His Excellency proposes should be spent on the erection of a magazine at Trichinopoly for the one regiment, Madras Infantry, now placed on the new site, the only outlay actually requisite in the current year for buildings for that regiment, and on the construction of stone drains urgently required for the new lines there, regarding which Government will be addressed separately. Estimates for these works have not as yet been received, but, roughly, they may be expected to cost, the former about Rs. 2,000, and the latter about Rs. 7,000.

‡ Paragraph 8 of Quartermaster-General's letter, No. 345 A., of 28th January 1886, to Secretary to Government, Military Department.

II. The further works requisite on the Agram fortified post are those below noted as already sanctioned:—

(a) A guard-room and fire-engine shed at Rs. 1,490, sanctioned in proceedings of Government, No. 3009 W., of 18th December 1885 (Military Department No. 48 of 5th January 1886).

(b) A latrine at Rs. 390, sanctioned in proceedings of Government, No. 250 W., of 28th January 1886 (Military Department No. 827 of 8th February 1886).

These works represent an aggregate cost of Rs. 1,880, so that the grant for this year would be reduced from Rs. 5,000 (the amount fixed when the probable maintenance of an Ordnance depot was contemplated) to Rs. 1,880, the saving of Rs. 3,120 passing to the grant for minor works. It may be here noted that the decision not to maintain an Ordnance depot in the fortified post does not do away with the necessity for the works above mentioned, which will still be requisite for the guard, &c., to be kept in the post for the magazines and armament.

III. His Excellency is of opinion that all the works entered in class B of the preliminary issue of the budget are of real urgency, and cannot, therefore, well be postponed, but in view of the present financial pressure, His Excellency will be prepared to relinquish this year the grant (item No. 12) for constructing a drawbridge and gate for the Vellore fort (Rs. 6,450) in order to provide for increased allotments under minor works and repairs.

IV. The necessity for a new magazine in the Wallajah berm, in Fort St. George, is as follows and has already been explained to Government, in the Military Department, in letter, No. 345 A., of 28th January 1886, from this office.

(a) The existing magazines in Fort St. George are not considered safe and serviceable for the accommodation of the powder, &c., required for the fort armament.

(b) The Ordnance Department requires more accommodation than the magazine at the Mount alone provides for powder, &c., which of necessity is maintained at Madras and near it.

V. The only new additional buildings required in connection with the augmented strength of British troops in this presidency are stables* for 60 extra horses, British Cavalry, at Bangalore, estimated to cost Rs. 6,000, at Rs. 87 (say 90) per horse. Besides these new buildings, alterations to the British Cavalry Barracks* at Bangalore to provide for the extra men to cost approximately Rs. 1,000 and alterations and additions to blocks of married quarters and to the building late in occupation by the Adjutant-General, and now occupied by the offices of the Surgeon-General, Her Majesty's Forces, &c., in Fort St. George, rendered necessary by the withdrawal of the scheme for locating the Account offices outside the fort, are imperative to provide accommodation for troops. The cost of these latter alterations, &c., cannot here be stated as estimates for them have not yet been received, nor of the improvements

* Proceedings of Government, Military Department, No. 183, of 8th January 1886.

8

emergently required to the old barracks at St. Thomas' Mount which are now occupied by the 1/4th Brigade, Royal Artillery, and detachment, 2nd Battalion, South Wales Borderers. His Excellency would therefore suggest that, in the final issue of the budget, the grant† of Rs. 44,000 for providing additional accommodation for British troops be distributed somewhat in the following manner:—

† Paragraph 3, clause 5, Government of India resolution above quoted.

	RS.
Bangalore.	
British Cavalry Barracks and Stables	8,000
Fort St. George and St. Thomas' Mount.	
Sundry alterations and improvements as above noted	36,000
Total ...	44,000

No. 2427, Military.

Forwarded.

Ootacamund,
19th April 1886.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Secretary to Government.

Order—dated 29th April 1886, No. 1084 W., Public Works.

The allotments for original works under classes A and B have, in communication with His Excellency the Commander-in-Chief, been revised as desired by the Government of India; and the final issue of the Imperial military works budget estimate for 1886-87 has been prepared, as shown below, for the reduced grant of Rs. 6,44,400 sanctioned by the Government of India in their resolution read at the head of these proceedings:—

		RS.
Original works ...	In progress	58,996
	Not commenced	1,49,039
		2,08,035
Repairs		3,10,465
Establishment		1,20,700
Tools and plant		5,200
	Total ...	6,44,400

2. The provision for minor works has been increased to Rs. 27,000, the limit fixed by the Government of India; and that for repairs to the extent* of the available grant after distribution to Original Works, Establishment, and Tools and Plant.

* Rs. 3,10,465.

3. The further works to be carried out in connection with the fortified post at Agram are detailed in paragraph 2 of the Quartermaster-General's letter, No. 1540 A., dated 16th April 1886, recorded above; and in the opinion of His Excellency the Commander-in-Chief they are necessary. As the cost of these works amounts to Rs. 1,880 only, the provision made for the project in the preliminary budget has been reduced to the extent actually required.

4. The necessity for constructing a new magazine in the Wallajah berm, Fort St. George, has already been fully explained in Military Department letter, No. 1078, dated 18th February 1886; and the Government of India will now be requested to authorise the commencement of the work so soon as plans and estimates have been sanctioned. Steps should be taken for the early submission of the plans and estimates, which the Superintending Engineer, V Circle, reported would be ready in April 1886.

5. Provision to the extent fixed by the Government of India has been made for the additional buildings required in connection with the increased strength of British troops detailed in paragraph 5 of the Quartermaster-General's letter† recorded above. Estimates for the works should be submitted with the least possible delay.

† No. 1540 A., dated 15th April 1886.

6. The Government of India will be addressed with respect to the remarks in paragraph 7 of their resolution.

7. The sum of Rs. 9,000, required for the Commissariat granary buildings on the beach at Madras, will be allotted as an addition to the repair grant to the Presidency division for 1886-87 in the orders on the statement of demands on account of incomplete and minor works and repairs.

8. Provision has been made in the budget for the marginally-noted works which His Excellency the Commander-in-Chief considers urgent. The necessary estimates should be submitted without delay.

Erection of a magazine at Trichinopoly of one regiment of Madras Infantry.
Construction of stone drains required for the new lines at Trichinopoly.

9. The revised estimates for 1885-86 against "Original Works and Repairs," as shown in the preliminary issue, have been altered to Rs. 1,89,294 and Rs. 1,72,995 respectively, with reference to the transfers of funds since approved* by the Government of India, and to the transfer of Rs. 1,700 from repairs to original works, sanctioned in proceedings of the Madras Government, No. 152 W., dated 18th January 1886. In the absence of information requested in the telegrams noted in the margin, as to the cause of increase in the revised estimate as fixed by the Government of India, the amount shown in the preliminary issue has been retained.

* No. 99 W., dated 11th Jan. 1886.
„ 679 W., „ 13th Mar. „
„ 764 W., „ 22nd Mar. „

Telegram, dated 2nd April 1886.
„ „ 22nd „ „

10. With these remarks, the final issue of the Imperial military works budget estimate for 1886-87 will be printed and circulated for the information and guidance of the officers of the department; copies, as noted in the margin, being forwarded to the Government of India.

To Simla	20
„ Calcutta	25
	45

(Here enter No. 1085 W., dated 29th April 1886.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Examiner, Public Works Accounts
„ Military Department,
„ Financial „

Exd. E. Fernandez.
Spare Copies.

GENERAL.
ACCOUNT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated April, 21st.

Recd. *Encl.*

G.O., 29th April 1886, No. 1084 W.

APRIL.

Budget Estimate

Imperial military works — *for* 1886-87.—
Orders circulating the final issue of the —.

24th April 1886, No. 1054 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from Colonel E. FAUNCE, Officiating Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 7th April 1886, No. 1420 A. :—

With reference to paragraph 8 of this office letter, No. 345 A., of 28th January 1886, I have the honor, by order, to state, for the information of Government, that the Commissary-General proposes to utilise part of the Commissariat granary buildings on the beach as store-rooms for the accommodation of the stores to be removed from the casemates in Fort St. George.

2. These buildings, however, from continual inability of the Public Works Department to repair them from want of funds, have fallen into a most dilapidated condition, and it is now estimated that about Rs. 9,000 will be required to place them in suitable repair.

3. As under present conditions there is no probability of a third regiment, Madras Infantry, being located at Trichinopoly, His Excellency the Commander-in-Chief proposes to find the required funds for the execution of these repairs by the appropriation to this purpose of a portion of the unexpended balance which will be available from the grant of Rs. 18,000 made in the preliminary budget estimate of the Public Works Department for—item No. 6—Buildings for two Native Infantry regiments at Trichinopoly, out of which the only outlay actually requisite in the current year will be that representing the cost of a magazine for the one regiment of Madras Infantry now placed on the new site.

4. Should this proposal be approved, His Excellency the Commander-in-Chief would ask that the Public Works Department be moved to make the requisite re-appropriation of funds, and to authorise the very early execution of the necessary repairs to the old granary buildings.

No. 2308, Military.

Approved and transferred to the Public Works Department for further necessary action.

(By Order.)
(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Secretary to Government.

13th April 1886.

Order—dated 24th April 1886, No. 1054 W., Public Works.

The Superintending Engineer, V Circle, is authorised to commence at once the repairs to the Commissariat granary buildings on the beach.

2. The cost of the work will be included by the Superintending Engineer in his statement of demands for the Presidency division under Imperial Military Repairs, under which head the grant to the division will be increased in the manner suggested by His Excellency the Commander-in-Chief.

(True Extract.)
(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle.
„ Examiner, Public Works Accounts.
„ Military Department.

Exd. A. F. Aaron.

Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1886) Madras.

PUBLIC WORKS.

Dated April, 24th.

Recd. *Encl.*

G.O., 24th April 1886, No. 1054 W.

APRIL.

Commissariat Granary Buildings

The Superintending Engineer authorised to commence at once repairs to the — on the Madras beach.

Appendix to G.O., No. 1563 W., dated 6th July 1885

A.—Statement showing amounts applied for and those granted under Imperial Military and Civil Buildings, Roads and Services.

—	Amounts applied for.								Amounts granted.							
	Minor Works.				Repairs.				Minor Works.				Repairs.			
	Military.	Civil Buildings.			Military.	Civil Buildings.			Military.	Civil Buildings.			Military.	Civil Buildings.		
		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam	1,290	59	..	..	2,000	500	..	..	..	..	..	..	2,000	500	..	..
Vizagapatam	143	100	..	..	2,500	300	300	..	..	..	..	..	2,270	300	300	..
Eastern Godávari	..	..	..	..	700	..	..	..	..	..	..	..	700	..	..	..
Central do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Western do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rushikulya	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eastern Kistna	..	..	..	..	..	73	450	..	..	..	..	..	..	73	300	..
Gudiváda	..	..	..	..	..	..	300	..	..	..	..	..	..	..	200	..
Western Kistna	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sangam Project	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary	500	..	..	..	20,000	200	200	..	..	..	..	..	20,000	200	200	..
Cuddapah	..	100	..	..	..	200	..	..	..	..	..	..	..	200	..	..
Kurnool	..	..	..	..	..	200	..	..	..	..	..	..	..	200	..	..
Nilgiri	..	..	..	..	15,000	500	..	..	..	..	..	..	13,000	500	..	..
West Coast	..	..	..	..	25,000	500	..	..	..	..	..	..	25,000	500	..	..
Coimbatore	..	590	..	..	5,000	200	..	..	..	..	..	..	5,000	200	..	..
North Arcot	..	..	..	..	2,000	100	..	..	..	..	..	..	2,000	100	..	..
South Arcot	..	..	..	..	..	100	..	..	..	..	..	..	..	100	..	..
Chingleput	..	..	..	..	20,200	..	..	..	..	..	..	..	10,000	..	..	..
Buckingham Canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Presidency	..	..	..	..	66,000	500	500	..	..	..	..	..	65,000	500	500	..
Trichinopoly	200	..	..	..	3,000	..	..	..	..	..	..	..	3,000	..	..	..
Tanjore	..	..	..	..	..	300	..	..	..	..	..	..	..	300	..	..
Negapatam	..	..	..	..	396	..	1,530	..	..	..	..	..	389	..	1,060	..
Madura	..	..	..	..	..	30	..	..	..	..	..	..	..	30	..	..
Tinnevelly	..	..	..	..	..	..	440	..	..	..	..	..	..	..	440	..
Director-General of Post Offices	..	..	..	..	..	..	..	..	..	1,991	..	..	..	..	..	..
Reserve with Government	..	..	..	..	..	..	..	..	..	..	..	..	..	1,297	..	..
Total	2,133	849	..	..	1,61,796	3,703	3,720	..	..	1,991	..	..	1,48,359	5,000	3,000	..

B.—STATEMENT of requirements on account of Imperial Incomplete Works for 1884-85 and of New Works sanctioned but not yet commenced.

Division.	Item No.	Name of Work.	Amount of Estimate.	Number and Date of Sanction.	Past Expenditure.	Balance of Estimate.	Amount applied for 1885-86 For Incomplete Works.	Amount applied for 1885-86 For New Works.	Amount allotted For Incomplete Works.	Amount allotted For New Works.	Item No.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13
		IMPERIAL.	RS.		RS.	RS.	RS.	RS.	RS.	RS.		
		CIVIL BUILDINGS, ROADS AND SERVICES.										
		Minor Works.										
Ganjam ..	1	Purchase of a postal building at Russellkonda for post-office.	641	G.O., No. 2363 W., dated 24th September 1884.	..	641	..	641	..	..	1	No funds available.
Godávari, Eastern	2	Post-office at Bhadráchalam	820	G.O., No. 2625 W., dated 27th October 1884.	...	820	..	820	..	..	2	Do. do.
Kistna, Western.	3	Post-office at Duggirala	900	G.O., No. 1918 W., dated 9th July 1883, and G.O., No. 2415 W., dated 1st October 1884.	..	900	..	900	..	..	3	Do. do.
Cuddapah ..	4	Improvements to the post-office at Cuddapah.	1,440	G.O., No. 1995 W., dated 14th August 1884.	300	1,140	1,140	..	1,140	..	4	From minor works grant.
North Arcot ..	5	Constructing a parapet-wall to the post-office at Renigunta.	133	Superintending Engineer's Register No. 25 of 1883-84.	90	43	43	..	..	..	5	Appropriation not necessary under code paragraph 2293, III.
Do. ..	6	Constructing a kitchen and a wall in the post-office at Venkatagirikota.	355	G.O., No. 71 W., dated 9th January 1885.	90	265	265	..	..	..	6	Do. do. do.
Presidency ..	7	Dismantling and rebuilding the stable and latrine of the Government telegraph office, Bangalore.	447	....	281	166	166	..	..	..	7	Do. do. do.
Do. ..	8	Adapting the old telegraph office at Bangalore as signallers' quarters.	280	....	59	221	221	..	..	..	8	Do. do. do.
Do. ..	9	Providing new teak fittings to the new telegraph office, Bangalore.	397	....	296	101	198	..	..	..	9	Do. do. do.
Trichinopoly ..	10	Constructing a post-office at Musiri ..	2,495	G.O., No. 2083 W., dated 23rd August 1884.	1,473	1,022	1,022	..	1,022	..	10	From minor works grant.
		Total ..	..		..	..	3,055	2,361	2,162	..		
		Major Works.										
Vizagapatam ..	1	Constructing a post-office with out-houses and quarters for the post-master at Korapet.	2,560	G.O., No. 80 W., dated 11th January 1884.	813	1,747	1,747	..	1,747	..	1	From minor works grant.
Godávari, Eastern	2	Improvements to the telegraph office at Cocanada.	4,000	G.O., No. 1054 W., dated 8th May 1885.	210	3,790	3,790	..	3,500	..	2	Do. do.
		Total ..	..		..	..	5,537	..	5,247	..		

Division.	Item No.	Name of Work.	Amount of Estimate.	Number and Date of Sanction.	Past Expenditure.	Balance of Estimate.	Amount applied for 1885-86 For Incomplete Works.	Amount applied for 1885-86 For New Works.	Amount allotted For Incomplete Works.	Amount allotted For New Works.	Item No.	Remarks.
		MILITARY.										
		Major Works.										
Ganjam ..	1	Constructing a school-house for the native infantry regiment at Berhampore.	1,330	G.O., No. 2536 W., dated 10th December 1883.	..	1,330	..	1,330	..	..	1	Funds allotted in separate orders.
Vizagapatam ..	2	Additions to the regimental hospital of the 16th Regiment, Madras Native Infantry, at Vizianagram.	615	G.O., No. 170 W., dated 21st January 1884.	..	615	..	615	..	..	2	No funds available.
Do. ..	3	Improvements to the hospital of the 16th Regiment, Madras Native Infantry, at Vizianagram.	545	G.O., No. 1740 W., dated 16th July 1884.	..	545	..	545	..	..	3	Do. do.
Do. ..	4	Constructing a magazine for the 16th Regiment, Madras Native Infantry, at Vizianagram.	1,530	G.O., No. 278 W., dated 5th February 1885.	..	1,530	..	1,530	..	..	4	Do. do.
Do. ..	5	Constructing three latrines for the 16th Regiment, Madras Native Infantry, at Vizianagram.	2,040	G.O., No. 1235 W., dated 28th May 1885.	..	2,040	..	2,040	..	..	5	Do. do.
Do. ..	6	Latrines for the Madras native infantry at Vizianagram.	..	....	..	..	..	747	..	..	6	Estimate awaited.
Nilgiri ..	7	Converting a portion of No. 5 barracks at Wellington into a canteen, and the present canteen into a store-room.	1,130	G.O., No. 1052 W., dated 8th May 1885.	..	1,130	..	1,130	..	1,130	7	From minor works grant.
Do. ..	8	Constructing arm racks for the detachment of native infantry at Ootacamund.	660	G.O., No. 2823 W., dated 11th November 1884.	..	660	..	660	..	[illegible]	8	Do. do.
West Coast ..	9	Constructing a rifle range at Calicut ..	200	Superintending Engineer's Register No. 3 of 1884-85.	107	93	93	..	..	..	9	Appropriation not necessary under code para. 2293 III.
Do. ..	10	Fixing lightning conductor to the old station magazine at Cannanore.	500	Do. No. 68 of 1883-84.	82	418	418	..	..	..	10	Do. do. do.
Do. ..	11	Fixing lightning conductors to the new station magazine at Cannanore.	500	Do. No. 67 of 1883-84.	92	408	408	..	..	..	11	Do. do. do.
Do. ..	12	Fixing iron dampers to the ovens of the Government bakery, and alterations to the buildings at Cannanore.	..	....	92	658	658	..	658	..	12	From minor works grant.
Do. ..	13	Wire fence round the European infantry barracks at Cannanore.	1,130	....	150	980	980	..	980	..	13	Do. do.
Do. ..	14	Cart-shed at Malapuram	950	G.O., No. 287 W., dated 17th November 1884.	..	950	..	950	..	950	14	Do. do.
Do. ..	15	Converting the old cells in the Cannanore fort into a double magazine and treasure-room.	2,420	G.O., No. 2368 W., dated 24th September 1884.	..	2,420	..	2,420	..	2,000	15	Do. do.
Do. ..	16	Reroofing the regimental store-room at Quilon.	372	Superintending Engineer's Register No. 15 of 1884-85.	..	372	..	372	..	..	16	No funds available.
Do. ..	17	Alterations to the recreation and reading room of the British infantry regiment at Cannanore.	710	G.O., No. 271 W., dated 4th February 1885.	..	710	..	710	..	710	17	From minor works grant.
Coimbatore ..	18	Constructing two cisterns to hold water for fire-engine at the Remount depôt, Hosúr.	1,330	G.O., No. 861 W., dated 23rd April 1885.	..	1,330	..	1,330	..	..	18	No funds available.
Do. ..	19	Fixing up a weigh-bridge and constructing a shed over it in shed lines at the Remount depôt, Hosúr.	172	Superintending Engineer's Register No. 6 of 1884-85.	..	172	..	172	..	..	19	Do. do.
North Arcot ..	20	Materials for the sanitary improvements in the court-yards of sepoy lines of the 10th Regiment, Native Infantry, at Vellore.	1,810	G.O., No. 2877 W., dated 18th November 1884.	10	1,800	1,800	..	1,800	..	20	From minor works grant.

12

B.—Statement of requirements on account of Imperial Incomplete Works for 1884-85 and of New Works sanctioned but not yet commenced—*cont.*

Division.	Item No.	Name of Work.	Amount of Estimate.	Number and Date of Sanction.	Past Expenditure.	Balance of Estimate.	Amount applied for 1885-86		Amount allotted.		Item No.	Remarks.
							For Incomplete Works.	For New Works.	For Incomplete Works.	For New Works.		
1	2	3	4	5	6	7	8	9	10	11	12	13
		IMPERIAL—*cont.* MILITARY—*cont.* *Minor Works*—cont.	RS.		RS.	RS.	RS.	RS.	RS.	RS.		
Presidency ..	21	Parade barracks, provost cells	1,198	G.O., No. 595 W., dated 13th March 1885.	..	1,198	..	1,127	..	1,127	21	From minor works grant.
Do. ..	22	Constructing surface drains of wash-houses, parade barracks.	780	G.O., No. 1646 W., dated 1st July 1884.	..	780	..	780	..	780	22	Do. do.
Do. ..	23	Constructing a rifle range for the British infantry near Fort St. George.	1,830	G.O., No. 1588 W., dated 15th June 1885.	..	1,830	..	1,830	..	1,830	23	Do. do.
Chingleput ..	24	Providing drains from bath-rooms as far as main drains of 24 family quarters of troop lines at Saint Thomas' Mount.	1,050	G.O., No. 2116 W., dated 27th August 1884.	232	818	818	..	818	..	24	Do. do.
Do. ..	25	Rebuilding five latrines attached to the family quarters of the Q-1st, Royal Artillery at St. Thomas' Mount.	625	G.O., No. 1417 W., dated 17th June 1885.	..	625	..	625	..	625	25	Do. do.
		Total ..	..		..	..	5,175	18,873	4,256	9,812		
		Major Works.										
Vizagapatam ..	1	Constructing a store-shed for the 16th Regiment, Madras Native Infantry, at Vizianagram.	3,480	G.O., No. 2628 W., dated 27th October 1884.	..	3,480	..	3,480	..	..	1	No funds available.
Bellary ..	2	Slaughter-house and hanging-shed for meat at Bellary.	10,066	G.O., No. 813 W., dated 6th April 1883.	7,449	2,617	2,617	..	2,617	..	2	From minor works grant.
Nilgiri ..	3	Additional hospital accommodation for women and children at Wellington.	3,036	G.O., No. 369 W., dated 4th February 1885, and No. 1573 W., dated 8th July 1885.	..	3,036	..	3,036	..	..	3	No funds available.
West Coast ..	4	Putting the Cannanore fort into a state of defence.	2,958	G.O., No. 2571 W., dated 20th October 1881.	..	2,958	..	2,958	..	2,498	4	From minor works grant.
North Arcot ..	5	Constructing a draw-bridge and gate for the fort at Vellore.	6,450	G.O., No. 528 W., dated 7th March 1885.	..	6,450	..	6,450	..	..	5	Funds allotted in separate orders.
Do. ..	6	Armourer's shop for the native infantry regiment at Vellore.	2,800	G.O., No. 1547 W., dated 20th June 1881.	2,682	118	118	..	..	..	6	Appropriation not necessary under code paragraph 2293 III.
Presidency ..	7	Fortified post at Agaram, Bangalore ..	37,300	G.O., No. 1250 W., dated 28th May 1883.	34,467	2,833	3,020	..	3,020	..	7	From minor works grant.
		Total ..	..		..	..	5,755	15,888	5,637	2,498		

13

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers:—

From the Superintending Engineer, I Circle, dated 27th May 1885, No. C-56.
" " " II " " 16th " " " 56 G.L.
" " " III " " 4th " " (3 statements).
" " " " " " 16th " " " 343.
" " " IV " " 14th " " " 194 E.W.
" " " " " " 16th " " " 200 E.W.
" " " " " " 15th " " " 197 E.W.
" " " " " " 16th " " " 203 E.W.
" " " " " " 18th " " " 205 E.W.
" " " " " " 28th " " " 221 E.W.
" " " " " " 6th June " " 232 E.W.
" " " " " " 26th " " " 264 E.W.
" " " V " " 13th May " " 630.
" " " " " " 15th " " " 652.
" " " " " " 23rd " " " 731.
" " " VI " " 7th " " " 209 T.J.
" " " " " " 21st " " " 32 C.T.J.
" " " " " " 6th June " " 139 T.N.
" " " " " " 12th " " " 430 T.J.
" Director-General of Telegraphs, " 30th April " " 320.

ORDER—dated 6th July 1885, No. 1563 W., Public Works.

In the papers read above, the Superintending Engineers apply for funds, under Imperial Military and Civil Buildings, Roads and Services, on account of—

(*a*) anticipated outlay on minor works, in lump sums;
(*b*) incomplete works of 1884-85;
(*c*) new works recommended to be taken up in the current official year, and
(*d*) repairs.

2. Under Imperial Military, the budget grant for minor works amounts to Rs. 20,000; and the Superintending Engineer, V Circle, having surrendered a sum of Rs. 2,203 from the grant for new barracks for Royal Artillery at St. Thomas' Mount, the same will be resumed and added to the grant for minor works, in anticipation of sanction by the Government of India. Against the total of Rs. 22,203 so arrived at, the demands of Superintending Engineers amount to Rs. 47,824, as shown below:—

	RS.
For minor works anticipated, lump sums	2,133
" incomplete minor works	5,175
" " major works	5,755
" new minor works specified	18,873
" " major works	15,888
Total ...	47,824

3. The minor works grant has been distributed as follows:—

	RS.
For incomplete minor works, *vide* statement B	4,256
" " major works, "	5,637
" new minor works, "	9,812
" " major works, "	2,498
Total ...	22,203

4. There is thus no balance left in hand, and it is found impossible to provide any lump sums for anticipated outlay on minor works.

5. The allotment under Repairs will be found in statement A. The demands under that head amount to Rs. 1,61,796, but have been reduced to Rs. 1,48,359 in order to bring the allotments within the available grant.

6. Under Imperial Civil Buildings, Roads and Services, the demands against original works amount to—

	RS.
Postal incomplete works	4,217
" new works	3,220
Telegraph incomplete works	4,375

of which Rs. 3,909 under Postal have been allotted for incomplete works. The balance of the minor works grant, after the above allotment, is Rs. 1,991; and it is placed at the disposal of the Director-General of Post Offices as shown in statement A.

7. A sum of Rs. 2,500, being the available minor works grant under Telegraph, has been allotted to complete the improvements to the telegraph office at Cocanada.

8. The allotments under Repairs will be found in statement A. The demands under Telegraphs have been reduced to Rs. 3,000, in order to bring the allotments within the provision in the budget.

9. Ordered that copies of these proceedings be forwarded to the Government of India in the Military and Public Works departments.

(Here enter No. 1564 W., dated 6th July 1885.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Examiner, Public Works Accounts.
" Director-General of Post Offices.
" " of Telegraphs.
" Military Department.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of 1885 Madras.

PUBLIC WORKS.

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3 186
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Dated July, 6th.

Recd. *Encl.*

G.O., 6th July 1885, No. 1563 W.

JULY.

1659 W
15th July 1885

Funds

Orders distributing — under Imperial Military and Civil Buildings, Roads and Services, for incomplete and minor new works.

12th March 1885, No. 585 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following letter from Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 10th March 1885, No. 4570:—

I have the honor to request that the sanction accorded in G.O., No. 1377 W., dated the 3rd June 1884, to an estimate of Rs. 1,157 for improving the roof of the family quarters and extending the drains at Poonamallee may be cancelled. It has subsequently been found that the roof work should properly be treated as repairs, and the portion of the estimate relating to the drains falls within the sanction of the Brigadier-General Commanding the district.

Order—dated 12th March 1885, No. 585 W., Public Works.

Imperial sanction No. 9 W. of 1884-85 is accordingly cancelled.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle.
,, Examiner, Public Works Accounts.
,, Military Department.

Exd. A. Aubert.
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GENERAL.
ACCOUNT.

Govt. of 1885 Madras.

PUBLIC WORKS.

Dated March, 12th.

Recd. *Encl.*

G.O., 12th March 1885, No. 585 W.

MARCH.

Family Quarters at Poonamallee

Sanction accorded in G.O., No. 1377 W., of 3rd June 1884, to the estimate for improving the roof of the —, and extending the drains, cancelled.

12th May 1886, No. 1202 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following letter from M. HAMMICK, Esq., C.S., Officiating Postmaster-General, Madras, to the Secretary to Government, Public Works Department, dated 27th April 1886, No. 1122 A 3/26:—

Referring to G.O., No. 3090 W., dated 30th December 1885, in which a provision of Rs. 4,300 is made for a new post office building at Anantapur, I have the honor to forward, herewith, the plans and estimates together with copy of a letter, No. 808, dated 14th April 1886, from the Director-General of the Post Office, sanctioning the work, and to request that you will be so good as to move the Government to pass orders for the allotment of funds at their earliest convenience in view to the work being taken on hand and completed during the current year.

Order—dated 12th May 1886, No. 1202 W., Public Works.

The estimate, amounting to Rs. 4,051, for constructing a third-class post office and postmaster's residence at Anantapur, is sanctioned.

2. The allotment for the work in the current year's budget, Rs. 4,300, will be reduced to the amount of the estimate, and the difference, Rs. 249, will, with the approval of the Government of India, be added to the minor works grant for the year under "Postal."

3. This sanction has been registered as Imperial, No. 3 W. of 1886-87, and classified as Civil Buildings, Original Works.

4. Ordered that a copy of these proceedings be forwarded for the approval of the Government of India to the transfer of funds proposed in paragraph 2.

(Here enter No. 1203 W., dated 12th May 1886.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, III Circle, with six enclosures.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Director-General of Post Offices.
" Postmaster-General, Madras.
" Newspapers.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS
CIVIL WORKS.

Govt. of (1886) Madras.

PUBLIC WORKS.

Dated May, 12th.

Read. *Encl.*

G.O., 12th May 1886, No. 1202 W.

MAY.

Post Office at Anantapur

Estimate of Rs. 4,051 *for constructing a third-class* — with postmaster's residence, sanctioned.

Note
When the approval [illegible]

5th April 1886, No. 931 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following letter from Major A. G. BEGBIE, R.E., Under Secretary to the Government of India, Public Works Department (Account—General), to the Secretary to Government, Public Works Department, dated Fort William, 26th March 1886, No. 111 A.G. :—

In reply to your letter, No. 622 W., dated 8th instant, I am directed to sanction an additional grant of Rs. 11,200 (including establishment and tools and plant percentages) for expenditure, during 1886-87, on the new post office at Madras. The budget estimate for the ensuing official year having already been passed for Rs. 37,600, the final issue should be prepared for that amount only, the present addition being treated as a subsequent sanction.

	RS.
Works	9,000
Establishment and tools and plant at 24 per cent.	2,200
Total ...	11,200

Order—dated 5th April 1886, No. 931 W., Public Works.

Communicated to the Consulting Architect to Government, and the Examiner of Public Works Accounts, with advertence to paragraph 3 of G.O., No. 621 W., dated 8th March 1886.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Consulting Architect to Government.
" Examiner, Public Works Accounts.

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Exd. A. Aubert.
Spare Copies

GENERAL
ACCOUNT.

Govt. of 1886 Madras
PUBLIC WORKS.

Dated April 5th.

Recd. *Encl.*

G.O., 5th April 1886, No. 931 W.

APRIL.

New Post Office, Madras

Letter from the Government of India sanctioning an additional grant of Rs. 11,200 *for expenditure, during* 1886-87, *on the* —, communicated to the Consulting Architect, and the Examiner, Public Works Accounts.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers :—

From the Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 29th October 1885, No. 3738 A.

I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimate, plan, &c., below-mentioned, which have been approved by the Provincial Commander-in-Chief. The plan and estimate have been countersigned :—

I. Abstract and detailed estimate, amounting to Rs. 1,070, for converting the present wood godown at Malapuram into a bakery.

II. Report and plan.

2. General Rowlands considers the early provision of this bakery to the barracks at Malapuram to be a work of great importance, and suggests that, like the slaughter-house (G.O., No. 4157, of 29th July 1885), the estimate for it be considered as supplemental to the general estimate for the new barracks, and met accordingly from the grant provided for the work in the current year's budget.

No. 6061, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

Fort St. George, (Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
31st October 1885. Offg. Secretary to Government.

From Colonel ROSS THOMPSON, Officiating Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Wellington, 14th November 1885, No. 454 E.W.

Referring to your endorsement, No. 1765 C., dated 8th instant, on the Military Secretary's letter, No. 6061, of 31st ultimo, I have the honor to return, herewith, duly approved and countersigned, the plan and estimate, amounting to Rs. 880, for converting the present wood godown into a bakery at Malapuram, together with the documents therewith received.

Order—dated 27th November 1885, No. 2845 W., Public Works.

The estimate, amounting to Rs. 880, for converting the present wood godown at Malapuram into a bakery, is sanctioned as supplemental to the estimate of Rs. 1,54,214 sanctioned for the barracks at that station in G.O., No. 1652 W., dated 15th July 1885.

2. This sanction has been registered as Imperial, Ordinary, No. 50 W. of 1885-86, and classified as Military, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with three enclosures.
" Examiner, Public Works Accounts, with copy of the abstract estimate.
" Military Department.

Exd. E. Fernandes.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1885) Madras.

PUBLIC WORKS.

Dated November, 27th.

Recd. Encl.

G.O., 27th Nov. 1885, No. 2845 W.

NOVEMBER.

Bakery

Estimate for converting the present wood godown at Malapuram into a —, sanctioned.

20

19th May 1886, No. 1263 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from the Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 7th May 1886, No. 1738 A:—

I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimate, plan, &c., below-mentioned, which have been approved by the Commander-in-Chief. The plan and estimate have been countersigned:—

> Supplemental estimate, amounting to Rs. 1,170, with plan, report and specification, for converting the old cells in the Cannanore fort into a double magazine and treasure-room.

2. This estimate is supplemental to that sanctioned by Government in G.O., dated 24th September 1884, No. 2368 W., Public Works.

3. The probable removal from Cannanore before long of the head quarters of the British infantry regiment makes the necessity for a secure magazine in the fort all the greater, and as the building in its present condition cannot be taken over, owing to the want of shelves and racks for the storage of ammunition, which were not originally provided for, and also to deficient ventilation, His Excellency the Commander-in-Chief hopes that funds will be found for the work this year out of the minor works grant.

No. 2824, Military.

Approved, and transferred to the Public Works Department for disposal.

(By Order.)

Ootacamund,
8th May 1886.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Secretary to Government.

Order—dated 19th May 1886, No. 1263 W., Public Works.

The estimate, amounting to Rs. 1,170, for providing shelves and racks for the storage of ammunition in the double magazine and treasure-room in the Cannanore fort, is sanctioned as supplemental to the estimate of Rs. 2,420 sanctioned in G.O., No. 2368 W., dated 24th September 1884.

2. The question of providing funds required for completing this work will be considered in the orders distributing the minor works grant for 1886-87.

3. This sanction has been registered as Imperial, Ordinary, No. 4 W. of 1886-87, and classified as Military, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with two enclosures.
„ Examiner, Public Works Accounts, with the estimate for note and return to Superintending Engineer, IV Circle.
„ Military Department.
Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of [1886] Madras.

PUBLIC WORKS.

Dated May, 188

Recd. Encl.

G.O., 19th May 1886, No. 1263 W.

MAY.

Double Magazine and Treasure-room, Cannanore Fort

Estimate of Rs. 1,170 for providing shelves and racks for the storage of ammunition in the —, sanctioned with remarks.

Appendix to G.O., No. 2445 W., dated 20th October 1885.

BUILDINGS AND ROADS.

SCHEDULE of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87.

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	Original works.					Repairs.	Establishment.	Tools and plant.	Suspense.	Grand total.	Remarks.
						Major works.			Minor works.	Total.						
						Works in progress.	New works.	Total.								
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Accommodation for troops—Buildings for European troops in the plains—Permanent.	Chingleput.	St. Thomas' Mount.	1	New barracks for Royal Artillery.	A	27,073	..	..	..	..	..	..	..	..	..	Estimate of Rs. 1,48,910 was sanctioned in G.O., No. 1274 W., dated 2nd June 1885. Item No. 1, class A works, budget of 1885-86.
	Do. ..	Do. ..	2	Constructing six blocks of stables for two field batteries of Royal Artillery.	A	1,000	..	..	..	..	..	..	..	..	..	Estimate of Rs. 20,160 was sanctioned in G.O., No. 2747 W., dated 1st October 1883. Item No. 2, class B works, budget of 1885-86.
	West Coast.	Malapuram.	3	Constructing a barracks for a detachment of British Infantry to accommodate 100 men.	A	19,235	..	..	..	..	..	..	..	..	..	Estimate of Rs. 1,34,214 was sanctioned in G.O., No. 1652 W., dated 15th July 1885. Item No. 2, class A works, budget of 1885-86.
	Presidency.	Fort St. George.	4	Converting a racket court into a covered gymnasium.	A	9,890	..	..	..	..	..	..	..	..	..	Estimate of Rs. 11,890 sanctioned in G.O., No. 1552 W., dated 20th June 1884. Item No. 1, class B works, budget of 1885-86.
	Do. ..	Bangalore..	5	Additions to the Military Prison.	B	..	8,325	..	..	..	..	..	..	..	..	Estimate of Rs. 8,325 was sanctioned in G.O., No. 938 W., dated 5th April 1884. Item No. 3, class B works, budget of 1885-86.
	Bellary ..	Bellary ..	6	Improving the system of water-supply to British Infantry barracks.	B	..	5,360	..	..	..	..	..	..	..	..	Estimate awaited.
	Nilgiri ..	Wellington.	7	Hospital accommodation for women and children.	B	..	3,035	..	..	..	..	..	..	..	..	Estimate of Rs. 3,026 was sanctioned in G.O., No. 1578 W., dated 6th July 1885. Item No. 15, class C works, budget of 1885-86.
	Presidency.	Fort St. George.	8	Improving water-supply.	B	..	6,445	..	..	..	..	..	..	..	..	Estimate of Rs. 6,445 was sanctioned in G.O., No. 2464 W., dated 20th October 1885.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87—cont.

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	Original works. Major works. Works in progress.	Original works. Major works. New works.	Original works. Major works. Total.	Minor works.	Total.	Repairs.	[illegible]	Tools and plant.	[illegible]	Grand total.	Remarks.
European troops in the plains—Permanent—cont.						Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
	Bellary	Bellary	9	Reconstructing double Apothecaries' quarters, station hospital.	B	..	[illegible]	..	..	..	..	..	..	..	..	
	Chingleput	St. Thomas' Mount.	10	Constructing a coffee-shop with kitchen for the upper storey barracks.	B	..	[illegible]	..	..	..	..	..	..	..	..	[illegible]
	Presidency.	Fort St. George.	11	Drainage of fort and barracks.	C	..	[illegible]	..	..	..	..	..	..	..	..	[illegible]
	Do.	Do.	12	Washhouse outside the barracks.	C	..	[illegible]	..	..	..	..	..	..	..	..	
	Do.	Do.	13	[illegible]	C	..	[illegible]	..	..	..	..	..	..	..	..	Estimate is awaited.
	Chingleput.	St. Thomas' Mount.	14	A [illegible] and [illegible] makers' shop for the new Artillery barracks.	C	..	[illegible]	..	..	..	..	..	..	..	..	Do.
	Do.	Do.	15	Raising the roof of barrack rooms, Troop lines.	C	..	[illegible]	..	..	..	..	..	..	..	..	[illegible]
	Do.	Pallávaram.	16	Mortuary rooms for hospitals.	C	..	[illegible]	..	..	..	..	..	..	..	..	[illegible]
	Do.	Poonamallee.	17	[illegible] additions to the hospital.	C	..	[illegible]	..	..	..	..	..	..	..	..	Estimate is awaited.
	Presidency.	Bangalore.	18	School master and mistress' quarters, Royal Artillery.	C	..	[illegible]	..	..	..	..	..	..	..	..	Do.
	Do.	Do.	19	Quarters for the senior Apothecary, north station hospital.	C	..	[illegible]	..	..	..	..	..	..	..	..	Do.
	Do.	Do.	20	Quarters for the Assistant Apothecary, north station hospital.	C	..	[illegible]	..	..	..	..	..	..	..	..	[illegible]
	Nilgiri	Wellington.	21	Gymnasium.	C	..	[illegible]	..	..	..	..	..	..	..	..	[illegible]
	Do.	Do.	22	Drinking water to be laid on to hospital.	C	..	[illegible]	..	..	..	..	..	..	..	..	Estimate is awaited. Do.

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	Works in progress.	New works.	Total.	Minor works.	Total.	Repairs.	[illegible]	Tools and plant.	[illegible]	Grand total.	Remarks.
Accommodation for troops—Buildings for	Do.	Do.	23	Constructing quarters with out-houses for a Barrack Sergeant.	C	..	7,348	..	..	..	..	..	..	..	..	Estimate of Rs. 7,348 was sanctioned in G.O., No. 1941 W., dated 21st August 1885.
	Bellary	Bellary	24	Alterations to prisons and adjoining buildings.	C	..	11,200	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do.	Do.	25	New gun-shed with collar-makers' and wheelers' shop for the Royal Artillery.	C	..	5,663	..	..	..	..	..	..	..	..	Estimate of Rs. 5,663 was sanctioned in G.O., No. 914 W., dated 3rd April 1884. Item No. 13, class C works, budget of 1885-86.
	Do.	Do.	26	Swimming-bath, British Infantry.	C	..	7,644	..	..	..	..	..	..	..	..	Estimate of Rs. 7,644 was sanctioned in G.O., No. 2434 W, dated 19th October 1885.
	Do.	Do.	27	Infectious disease ward, station hospital.	C	..	6,140	..	..	..	..	..	..	..	..	Estimate of Rs. 6,140 sanctioned in G.O., No. 330 W., dated 7th February 1884.
	West Coast.	Cannanore.	28	Plunge-bath for British Infantry.	C	..	4,640	..	..	..	..	..	..	..	..	Estimate of Rs. 4,640 was sanctioned in G.O., No. 418, dated 16th Feb. 1876. Item No. 18, class C works, budget of 1885-86.
	Do	Do.	29	Improving latrines for the British Infantry.	C	..	2,780	..	..	..	..	..	..	..	..	Estimate of Rs. 2,780 was sanctioned in G.O., No. 1656, dated 4th April 1879. Item No. 19, class C works, budget of 1885-86.
Accommodation for troops—Buildings for Native troops.	Presidency.	Bangalore.	30	Public buildings for a regiment of Native Cavalry.	A	17,756	..	..	..	..	..	..	..	..	..	Estimate of Rs. 23,490 was sanctioned in G.O., No. 1552 W., dated 20th June 1884. Item No. 4, class B works, budget of 1885-86.
	Trichinopoly.	Trichinopoly.	31	Public buildings for two regiments of Native Infantry.	A	19,541	..	..	..	..	..	..	..	..	..	Estimate of Rs. 35,650 was sanctioned in G.O., No. 2194 W., dated 5th September 1884. Item No. 3, class A works, budget of 1885-86.
	Presidency.	Bangalore.	32	Store-rooms and workshops for the Pioneer Regiment.	B	..	3,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	West Coast.	Quilon	33	Constructing a regimental store-shed.	B	..	9,334	..	..	..	..	..	..	..	..	Estimate of Rs. 9,334 was sanctioned in G.O., No. 1556 W., dated 3rd July 1885. Item No. 32, class C works, budget of 1885-86.
	Presidency.	Bangalore.	34	Public buildings for one regiment of Native Infantry.	B	..	21,636	..	..	..	..	..	..	..	..	Estimate of Rs. 21,636 sanctioned in G.O., No. 2952 W., dated 29th November 1884.
	Chingleput.	Pallávaram.	35	Magazine for a Native Infantry Regiment.	C	..	4,500	..	..	..	..	..	..	..	..	Estimate is awaited.
	Presidency.	Madras (Ráyapuram).	36	Flushing drains for Native Infantry lines.	C	..	4,300	..	..	..	..	..	..	..	..	Estimate of Rs. 4,300 sanctioned in G.O., No. 1397 W., dated 4th June 1884.
	Vizagapatam.	Vizianagrum.	37	Regimental store-room for Native Infantry.	C	..	3,480	..	..	..	..	..	..	..	..	Estimate of Rs. 3,480 was sanctioned in G.O., No. 2628 W., dated 27th October 1884. Item No. 25, class C works, budget of 1885-86.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87—*cont.*

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	Ordinary works					Repairs.	Establishment.	Tools and plant.	Suspense.	Grand total.	Remarks.
						Major works.			Minor works.	Total.						
						Works in progress.	New works.	Total.								
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Accommodation for troops — Buildings for Native troops—*cont.*	Bellary ..	Bellary ..	38	School-house for a regiment, Native Infantry.	C	..	3,079	..	..	..	..	..	..	..	..	Estimate of Rs. 3,033 was sanctioned in G.O., No. 149 W., dated 17th January 1884. Item No. 34, class C works, budget of 1885-86.
Ordnance works.	Presidency.	Fort St. George.	39	Armament of Fort St. George.	A	3,964	..	..	..	..	..	..	..	..	..	Estimate of Rs. 42,050 sanctioned in G.O., No. 2910 W., dated 29th October 1883. Item No. 6, class A works, budget of 1885-86.
	Do. ..	Madras ..	40	Alterations in the coast batteries.	A	6,625	..	..	..	..	..	..	..	..	..	Estimate of Rs. 14,339 sanctioned in G.O., No. 2150 W., dated 11th September 1885.
	Chingleput.	St. Thomas' Mount.	41	Alterations to rocks in the Ordnance Magazine.	B	..	1,561	..	..	..	..	..	..	..	..	Estimate of Rs. 1,561 sanctioned in G.O., No. 2446 W., dated 13th October 1885.
	Presidency.	Madras ..	42	Wall round the Gunpowder Factory.	B	..	18,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	43	New wheeler shop, Gun Carriage Factory.	B	..	7,379	..	..	..	..	..	..	..	..	Estimate of Rs. 7,379 sanctioned in G.O., No. 2930 W., dated 17th November 1884. Item No. 39, class C works, budget of 1885-86.
	Do. ..	Bangalore.	44	Ordnance Depôt buildings, [illegible], Bangalore.	B	..	4,823	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Madras ..	45	Extra accommodation as store-room in the Gun Carriage Factory.	C	..	5,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	46	Improvements to the barrel-machine shop of the Gun Carriage Factory.	C	..	2,981	..	..	..	..	..	..	..	..	Estimate of Rs. 2,981 sanctioned in G.O., No. 2417 W., dated 18th September 1885.
	Nilgiri ..	Wellington.	47	Bakery	A	414	..	..	..	..	..	..	..	..	..	Estimate of Rs. 21,000 sanctioned in G.O., No. 1939 W., dated 25th July 1884.
Commissariat buildings.	Presidency.	Madras ..	48	Constructing a shed in the Camp Equipage Depôt.	C	..	5,300	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	49	Lines for transport attendants.	C	..	48,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	50	Workshops and sheds for carts, doolies, &c., Transport Department.	C	..	6,500	..	..	..	..	..	..	..	..	Do.
	Chingleput.	Guindy ..	51	Converting the late Superintending Engineer's office at Guindy into a slaughter-house.	C	..	11,800	..	..	..	..	..	..	..	..	Estimate of Rs. 11,800 sanctioned in G.O., No. 1399 W., dated 12th May 1883. Item No. 43, class C works, budget of 1885-86.
	Do. ..	Do. ..	52	Quarters for a station butcher.	C	..	4,740	..	..	..	..	..	..	..	..	Estimate is awaited.
	Presidency.	Bangalore.	53	Quarters for a Conductor, Transport Department.	C	..	4,220	..	..	..	..	..	..	..	..	Do.
Fortifications.	Presidency.	Bangalore.	54	Fortified post at Agram.	A	5,000	..	..	..	..	..	..	..	..	..	Estimate of Rs. 27,300 sanctioned in G.O., No. 1550 W., dated 29th May 1885. Further estimates are said to be under preparation.
	North Arcot.	Vellore ..	55	Drawbridge and gate for the Fort at Vellore.	B	..	6,450	..	..	..	..	..	..	..	..	Estimate of Rs. 6,450 sanctioned in G.O., No. 523 W., dated 7th March 1885.
				Total ..	..	1,08,872	3,25,250	4,34,122	1,00,000	5,34,122	3,50,000	2,05,348	5,840	..	10,95,310	

List of Military Works estimated to cost Rs. 2,500 each or under, and for which funds are required in the Public Works budget for 1886-87.

Division or district.	Station.	Description of buildings, &c., and for what corps, department is needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			RS.	
Eastern district.	Fort St. George	Storerooms, large workshops—Arsenal.	850	When funds are available.
	Do. ...	Linkage to miscellaneous workshop, &c.—Arsenal.	795	
	Do. ...	A new bridge across trench in new park—Arsenal.	810	
	Do. ...	Improving store godowns—Arsenal.	750	Very necessary. Estimates already sanctioned by Government.
	Do. ...	Improving store godowns—Arsenal.	817	
	Do. ...	Alterations to lower story barracks for armourer shop.	2,337	Very desirable.
	Do. ...	Mess-house verandah—Completion of.	1,600	
	Do. ...	1 Room alteration for theatre.	1,000	When funds are available.
	Madras	Ordnance storeroom—Bench ...	1,250	Necessary.
	Do.	Huts, infectious disease—Station hospital.	750	
	Do. ...	Dispensary—Veterinary Department, Body Guard.	1,600	When funds are available.
	Do. ...	Regimental school—Perambur lines, Madras Infantry.	1,375	
	Do. ...	Armourer shop — Perambur lines, Madras Infantry.	2,000	
		Commissariat Department.		
	Madras	Godown, wheat, &c.	1,785	When funds are available.
	Do. ...	Drainage—Bakery premises	950	
	Do. ...	Gram-boiling shed—Mule lines.	1,360	
	St. Thomas Mount.	Commissariat—Well, &c., Public Cattle Depôt.	1,280	
	Do. ...	Royal Artillery—Lightning-conductor magazine	1,500	Most important.
	Do. ...	Lane-house—Horse lines	1,542	Very necessary. Estimate before Government.
	Do. ...	Closing up archway, gun-shed—P Battery, 1st Brigade.	560	Very necessary.
	Do. ...	Reconstruction latrines, family quarters — Q Battery, 1st Brigade.	...	In progress during the current official year. Item No. 13 of Appendix B to G.O., No. 1093 W., dated 9th July 1885.
	Do. ...	Improvements to Sergeant's quarters—Reserve Powder Magazine.	530	Cir. G.O., No. 1233 W., dated 29th May 1885. Very necessary.
	Pallavaram ...	Armourer shop—Madras Infantry.	800	When funds are available.
	Do. ...	Camp Equipage store—Madras Infantry.	1,550	
	Do. ...	School—Madras Infantry ...	1,950	
	Poonamallee ...	Alteration—Barracks ...	1,000	
	Do. ...	Wall, new—Family quarters ...	1,000	
	Vellore ...	School-house—Madras Infantry.	2,150	Very necessary. Already sanctioned by Government.
	Vizianagram.	New magazine— do. ...	1,550	Very necessary.
	Do. ...	Armourers' workshops—Madras Infantry.	900	Do.

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List of Military Works estimated to cost Rs. 2,500 each or under, &c.—*cont.*

Division or district.	Station.	Description of buildings, &c., and for what corps, department is needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
Eastern district—*cont.*		*Commissariat Department*—cont.	RS.	
	Vizianagrum.	Improvements to hospital—Madras Infantry.	515	When funds are available.
	Do. ...	Improvements to ventilation—Madras Infantry.	545	
	Berhampore ...	School-house	1,390	Should not be postponed any longer; funds allotted in current year were withdrawn.
Bangalore division.	Bangalore ...	Royal Artillery—Latrine, Staff Sergeant's quarters, Royal Horse Artillery.	2,100	Very necessary on sanitary grounds.
	Do. ...	Quarters, Battery — Quartermaster Sergeant, Royal Horse Artillery.	1,100	Desirable.
	Do. ...	Cook-house—Sergeants' mess, Field Batteries.	1,470	Necessary.
	Do. ...	Latrine for men—Stables, Field Batteries.	626	
	Do. ...	Board floor recreation room—Royal Horse Artillery.	1,240	
	Do. ...	Stone floor to gun-shed, &c. ...	1,160	
		British Cavalry.		
	Bangalore ...	Stone drains—Staff Sergeant's quarters.	564	Necessary. Estimates already sanctioned by Government.
	Do. ...	Two Riding schools	1,153	
	Do. ...	Latrine—Six seats for men at stables.	600	Very desirable.
	Do. ...	Camp Equipage stores—Connecting with water-supply.	1,170	When funds are available.
		British Infantry.		
	Bangalore ...	Latrine for followers	1,600	Necessary.
	Do. ...	South station hospital—Quarters for men of Army hospital, Native corps.	924	
	Do. ...	North station hospital—Quarters for men of Army hospital, Native corps.	753	
		Native Infantry west lines.		
	Bangalore ...	Improving place of arms and hospital.	700	
		Commissariat Department.		
	Bangalore ...	Improving Staff Sergeant's quarters.	2,000	When funds are available.
	Do. ...	Improving Sergeant Butcher's quarters.	525	Very necessary.
	Do. ...	Improving road from racecourse barracks to slaughter-house.	1,400	When funds are available.
		Transport Department.		
	Bangalore ...	Additions to accommodation in Transport lines.	1,545	Urgently required.
	Do. ...	Converting Sergeant's quarters into Sub-Conductor's quarters.	1,000	Very necessary.
	Wellington ...	Renewing floors of latrines and school-block.	1,650	Necessary.

[illegible] of Military Works [illegible]

[illegible]	Station.	[illegible]	[illegible]	[illegible]
[illegible]	Wellington	Water-supply to barracks [illegible] supply.	[illegible]	Desirable. Orders of Government.
	Do.	Bath-rooms for Pay Sergeant	[illegible]	
	Do.	Flooring passages [illegible] quarters [illegible]	[illegible]	
	Do.	Enlarging paymaster's office	2,000	Very urgent.
	Do.	Cooking sheds for staff Sergeant's quarters	800	
	[illegible]	[illegible]	800	
[illegible]	Bellary	Alterations and additions to [illegible] Light Cavalry Regiment.	788	Urgently needed. [illegible] new building.
	Do.	Removal from No. II Magazine, Fort.	416	
	Do.	[illegible] Commissariat [illegible] with asphalte.	670	Very necessary.
		[illegible] Infantry.		
[illegible]	[illegible]	[illegible]	780	Strongly recommended.
	Do.	[illegible]	[illegible]	
	Do.	[illegible]	[illegible]	All very necessary.
	Do.	[illegible]	[illegible]	
	Do.	[illegible]	1,115	
	[illegible]	[illegible]	[illegible]	
	Do.	[illegible]	840	All urgent works.
	Do.	[illegible]	600	
	[illegible]	A new magazine—Madras Infantry.	2,500	Very much needed.
	Do.	[illegible]	[illegible]	
	Do.	[illegible]	1,378	Desirable.
	[illegible]	[illegible] Madras Infantry.	[illegible]	When funds are available.
	Do.	Additions to Armourers' workshop.	730	
	...	Lump sum provision for works costing below Rs. 500 each.	14,794	
		Total ...	1,00,000	

OOTACAMUND,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

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20TH OCTOBER 1885, No. 2445 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 7th October 1885, No. 3351 A.

I have the honor to forward herewith schedules of requirements in Military Works, Major and Minor, in view to provision being made to such extent as is possible for them in the Public Works Department budget for 1886-87.

2. The major works have been classified as noted below, the works in class B being entered in order of their urgency, while those in class C are grouped according to commands :—

Class A.—Works commenced, for completion of which grants are required.

Class B.—Works of special urgency not yet commenced, for which grants are required.

Class C.—Works of less urgency, but for which provision should be made as funds are available.

3. The following remarks, regarding works in class B, are submitted for the special consideration of Government :—

(1) Gymnasium, British Infantry, Fort St. George.
(2) Addition to Military Prison, Bangalore.

I. The urgency of items Nos. 1 and 2 has been passed upon Government for two years past, and it was only the special demand for retrenchment in the current year that has interfered with their execution.

(3) Drawbridge, &c., Fort, Vellore.

II. Item No. 3 is a defence work the necessity of which was urged by Sir F. Roberts, with whom the Provincial Commander-in-Chief fully concurs in opinion. It would have been carried out in current year had it not been for the restrictive orders mentioned in the previous paragraph.

(4) Improving water-supply, British Infantry Barracks, Bellary.
(5) Store-room and workshop, Pioneer, Bangalore.
(8) Accommodation one Madras Infantry Regiment, Bangalore.
(9) Accommodation for women, in hospital, Wellington.
(14) Coffee-shops, Royal Artillery, St. Thomas' Mount.

III. The urgency of items Nos. 4, 5, 8, 9 and 14 was mentioned to Government last year, and General Rowlands hopes that funds for them will be found in the next budget.

(6) New store-room, Madras Infantry, Quilon.

IV. Item No. 6 is one which must be provided for, as the existing store-room is in a very bad state.

(7) Alterations to racks in magazine, St. Thomas' Mount.

V. Item No. 7 is a new work the necessity for which has just arisen in connection with providing properly for storage of powder near Madras, the Veysurpady magazine having been condemned. By the proposed alterations in the magazine at St. Thomas' Mount, it will be possible to store 2,044 additional barrels of powder there. This work should therefore not be delayed.

(10) Improving water-supply, Fort St. George.

VI. Item No. 10 is a work connected with the use of the Fort as a place of defence, and should be provided for, as until it is carried out the garrison of the Fort cannot depend on a supply of good water being stored for its use in time of need.

VII. Item No. 11 is a work which has been sanctioned by the Government of India, and though it is not yet decided whether it shall be carried out or whether an entrenchment shall take its place, it would be as well that funds should be provided for it in the coming year.

(11) Wall round Gunpowder Factory, Madras.

VIII. Item No. 12 is a work the necessity for which has been brought forward for several years by the Ordnance Department and should not be delayed.

(12) New wheeler shop, Gun Carriage Factory.

IX. The old quarters having been dismantled as they were found to be unsafe, the work of their reconstruction, item No. 13, should be carried out as soon as possible, for it is very essential that medical subordinates should live near their work.

(13) Reconstruction Apothecaries' quarters, station hospital, Bellary.

X. It is not yet quite decided whether an Ordnance Depôt is to be maintained in the entrenchment at Bangalore or not; but as the buildings would have to be provided at once, if the depôt is to be maintained, item No. 15 is included in the list of works of special urgency.

(15) Additional buildings, Ordnance Depôt entrenchment, Bangalore.

4. The length of the schedule of minor works speaks for itself and will confirm the remarks made in this office letter, No. 2803 A., of 4th ultimo, on the subject of these works, it being noted, moreover, that in this schedule the numerous works costing under Rs. 500 are not included.

5. This fact reminds the Provincial Commander-in-Chief of the necessity for asking that in future years Government will be good enough to provide a sufficiently large grant for these minor works costing Rs. 500 and under, to enable allotments to be made not only to general officers commanding divisions and districts, but to the Commissary-General and Inspector-General of Ordnance, so that those officers may be in a position to arrange for execution of works of this nature in their respective departments without trenching on the allotments of general officers commanding.

CLASS A.

Works commenced, for completion of which grants are required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
Eastern district.	Fort St. George.	1	Armament—Mounting, &c.	RS. 42,000	Amounts of estimates are given, the amounts required in next year for completing the works not being known in this office.
		2	Beach batteries completing	14,968	
	St. Thomas' Mount.	3	Barracks, Royal Artillery, new.	1,17,750	
		4	Stabling, Royal Artillery, new.	20,160	
Bangalore division.	Bangalore.	5	Agram entrenchment works.	29,400	
		6	Accommodation—Public buildings, Native Cavalry.	22,600	
	Wellington.	7	Bakery—new	32,000	
	Trichinopoly.	8	Accommodation—Public buildings two Madras Infantry Regiments.	21,140	
Western district.	Malápuram...	9	Barracks—new ...	1,34,214	

Ootacamund,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

CLASS B.

Works of special urgency not yet commenced, for which funds are absolutely required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
Eastern district.	Fort St. George.	1	Gymnasium—British Infantry.	RS. 11,570	Estimates already sanctioned by Government.
Bangalore division.	Bangalore...	2	Additions—Military Prison.	8,325	
Eastern district.	Vellore ...	3	Drawbridge, &c.—Fort.	6,450	
Ceded districts.	Bellary ...	4	Improving system of water-supply — British Infantry barracks.	5,350	Estimate prepared.
Bangalore division.	Bangalore...	5	Store-rooms and workshops—Pioneers.	3,000	
Western district.	Quilon ...	6	New store-room—Madras Infantry.	9,334	Estimate already sanctioned by Government.
Eastern district.	St. Thomas' Mount.	7	Alterations to racks in the Ordnance Magazine.	2,505	Estimate now before Government.
Bangalore division.	Bangalore...	8	Accommodation—Public buildings one Madras Infantry Regiment.	14,610	Estimates already sanctioned by Government.
	Wellington.	9	Hospital accommodation—Women and children.	3,036	
Eastern district.	Fort St. George.	10	Improving water-supply.	6,445	Estimate now before Government.
	Madras ...	11	Wall round Gunpowder Factory.	10,000	Work sanctioned but estimate not yet *submitted*.
		12	New wheeler shop—Gun Carriage Factory.	7,350	Estimates already sanctioned by Government.
Ceded districts.	Bellary ...	13	Reconstructing double Apothecaries' quarters—Station hospital.	6,222	
Eastern district.	St. Thomas' Mount	14	Coffee-shops—Field Battery, upper story barracks Royal Artillery.	6,690	
Bangalore division.	Bangalore...	15	Ordnance Depôt buildings, entrenchment—Bangalore.	4,623	Estimate prepared but held in abeyance pending decision of Government regarding maintenance of Ordnance Depôt at Bangalore.

Ootacamund,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

CLASS C.

List of works of less urgency not yet commenced, for which also grants are required.

Command.	Station.	Work.	Cost.	Remarks.
Eastern district.	Fort St. George.	Drainage—Fort barracks ...	RS. 10,000	
		Washhouse outside barracks ...	2,500	
		Garrison bazaar to be done away with and new cook-houses built.	4,500	

List of works of less urgency not yet commenced, &c.—contd.

Command	Station	Work	Cost	Remarks
Eastern district—contd.	St. Thomas' Mount.	Wheeler and Collar makers' shop, new—Royal Artillery barracks.	RS. 3,600	Estimates already sanctioned by Government.
		Baking yard, &c., harness-room—Troop lines.	4,200	
	Pallāvaram.	Mortuary rooms—Hospitals ...	3,000	
		Magazine—Native Infantry Regiment.	4,200	
	Poonamallee.	Lightning conductors to hospital	3,000	Estimate before Government.
	Madras ...	Flushing drains — Rāyapuram, Madras Infantry lines.	4,800	
		Extra store-room in Gun Carriage Factory.	6,000	
		Improving Barrel-machine shop—Gun Carriage Factory.	4,000	Estimate already sanctioned by Government.
		Shed for tent manufacture in Camp Equipage Depôt.	5,300	
		Lines for transport attendants ...	48,000	
		Workshops and sheds for carts, doolies, &c.—Transport Department.	5,500	
		Converting Superintending Engineer's office, Guindy, into slaughter-house.	11,800	
		Quarters for station butcher ...	4,740	
	Vizianagram.	Regimental store-room—Madras Infantry.	3,180	
Bangalore division.	Bangalore.	School master and mistress' quarters—Royal Artillery.	6,200	
		Quarters—Senior Apothecary, north station hospital.	5,300	Estimates already sanctioned by Government.
		Quarters—Assistant do.	4,773	
		Do. Conductor, Transport Department.	4,220	
	Wellington	Gymnasium	22,835	
		Drinking water to be laid on to hospital.	4,690	Estimate before Government.
		Quarters for a Barrack Sergeant.	7,348	Estimate already sanctioned.
Ceded districts.	Bellary ...	Alterations to prisons and adjoining buildings.	11,260	
		New gun-shed with Collar-makers' and Wheelers' shop for Royal Artillery.	5,663	Estimate already sanctioned by Government
		Swimming-bath—British Infantry.	7,044	Estimate before Government.
		School-house for a regiment—Madras Infantry.	3,030	
		Infectious disease ward—Station hospital.	6,140	
Western district.	Cannanore	Plunge-bath—British Infantry ...	4,690	Estimates already sanctioned.
		Improvement, latrines—British Infantry.	2,780	

Ootacamund,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

Office note from the Examiner of Public Works Accounts, dated 14th October 1885, No. 565.

Order—dated 20th October 1885, No. 2445 W., Public Works.

Ordered that the schedules of military requirements on account of the Public Works Department in the Madras Presidency for 1886-87 be forwarded to the Government of India in the Military Department.

2. Ordered also that the lists of military works be printed and circulated to Superintending Engineers, in view to the necessary plans and estimates being prepared and submitted at an early date for the unsanctioned works included in the lists.

(Here enter No. 2446 W., dated 20th October 1885.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Examiner, Public Works Accounts.
,, Military Department.
,, Financial ,,

Exd. J. Henricus.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of (1885) Madras.

PUBLIC WORKS.

Dated October, 20th.

Recd. *Encl.*

G.O., 20th Oct. 1885, No. 2445 W.

OCTOBER.

Schedules of Military requirements for 1886-87

Orders on —.

12TH DECEMBER 1882, No. 3281 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

No. 84.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, Fourth Circle, to the Chief Engineer, Public Works Department, dated Camp, Gudiyâtam, 18th November 1882:—

One Site plan.
,, Plan.
,, Detailed Estimate.
,, Abstract ,,
,, Specification.

I have the honor to submit herewith the plan and estimate for a separate hospital for the boys' school at the Lawrence Asylum, Lovedale.

2. I am informed that the building now occupied as a female school at the Asylum was originally built as a hospital for the boys' school, but the construction of a female school having been abandoned at that time, the girls were lodged in the hospital, and some rooms in the boys' school fitted up as a hospital for them. This arrangement has always been found very unsuitable and inconvenient; and the preparation of a plan and estimate for a separate hospital for the boys was ordered in G.O., No. 2977 W., of 29th November 1881.

3. The estimate amounts to Rs. 31,538; and the plans, which provide accommodation for twenty boys, have been approved of by the Principal and by the Medical Officer of the Institution, also by the Sanitary Commissioner, Madras.

No. 85.

ORDER—dated 12th December 1882, No. 3281 W., Public Works.

The plan and estimate, amounting to Rs. 31,538, for constructing a separate hospital for the boys' school, Lawrence Asylum, Lovedale, are sanctioned for entry in the budget for 1883-84.

2. This sanction has been registered as Imperial Ordinary No. 28 W. of 1882-83, and classified as Military, Original Works.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fourth Circle, with four enclosures.
,, Examiner, Public Works Accounts, with duplicate Abstract Estimate.
,, Educational Department.

Exd. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1882) Madras.
PUBLIC WORKS.

G.O., 12th Dec. 1882, No. 3281 W.

DECEMBER.
Nos. 84-85.

Lawrence Asylum, Ootacamund.

The plan and estimate for constructing a separate hospital for the boys' school, —, sanctioned.

25th September 1884, No. 2370 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers:—

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 26th July 1884, No. 359 G.W.

In forwarding for sanction a plan and estimate amounting to Rs. 1,700 for improving the hospital and nursery dormitories, male and female, Lawrence Asylum at Lovedale near Ootacamund, I have the honor to observe that under paragraph 6 of the order of the Government of India printed with G.O., Nos. 1183 W., and 1964 W., of 20th April and 13th July 1883, the works in question cannot be classed under Works, Military.

2. The estimate was prepared at the request of the Principal of the Asylum who has countersigned it. The alterations were proposed by the Consulting Physician to the Asylum, in order to provide hospital accommodation.

3. Copy of a letter from the Quartermaster-General to the General Officer Commanding Bangalore Division, with endorsement of the latter officer No. 1764 of 23rd instant is herewith enclosed for information.

Enclosure.

From Brigadier-General R. C. STEWART, Quartermaster-General, to the General Officer Commanding Bangalore Division, dated Ootacamund, 21st July 1884, No. 722 A.

I have the honor, by order, to return the plan and estimate, amounting to Rs. 1,700, for improving the hospital and nursery dormitories, male and female branches at the Lawrence Asylum, Ootacamund, and to state that improvements or new buildings required for this institution do not come under the head of Works, Military.

The Government of India has, on two previous occasions, declined to sanction any further expenditure on the Lawrence Asylum, Ootacamund, *vide* paragraph 6 of its Proceedings, No. 232 M.W., dated 12th March 1883, republished in G.O., No. 1183 W., dated 20th April 1883, Public Works Department, and also paragraph 6 of its Secretary's letter, No. 542 M.W., dated 14th June 1883, republished in G.O., No. 1964 W., dated 13th July 1883, Public Works Department.

The plan and estimate now returned should be forwarded to the Superintending Engineer of the Circle, for action in the Civil Department.

No. 1764

Forwarded to the Superintending Engineer, IV Circle, with reference to his No. 218 M., dated 12th instant, for information and return.

(By Order.)

(Signed) G. SWINLEY, Lieut.-Col.,
Asst. Quartermaster-General.

23rd July 1884.

From Colonel G. CHESNEY, Secretary to the Government of India, Military Department, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 3rd September 1884, No. 895 M.W.

I am directed to acknowledge the receipt of your letter, No. 744 A.W., dated 19th March last addressed to the Public Works Department, forwarding for confirmation a copy of the Proceedings of the Government of Madras, No. 191 W., dated

22nd January 1884, sanctioning an estimate, amounting to Rs. 2,650, from Provincial funds, for converting a cattle shed at the Lawrence Asylum, Ootacamund, into a latrine, and constructing a covered passage between it and the Asylum.

2. It is stated that the cost of the work had to be met from Provincial funds, because the Government of India refused to sanction any further outlay on the Lawrence Asylum buildings from Imperial funds.

3. That refusal, I am to explain, was given with reference to the desire of the Local Government to build a new hospital for boys, and was intended to show that in the opinion of the Government of India no further extensive additions were required or would be sanctioned; but there was no intention to prohibit minor alterations and improvements being carried out. The expenditure in question may therefore be charged against the Military Works Grant and should be provided by reappropriation.

Order—dated 25th September 1884, No. 2370 W., Public Works.

His Excellency the Governor in Council observes that the restriction which the Government of India imposed on expenditure of Imperial funds in connection with the Lawrence Asylums, Ootacamund, is now explained to have had reference only to "further extensive additions," and was not intended to prohibit "minor alterations and improvements." The outlay of Rs. 2,650 sanctioned* from Provincial [illegible] for converting a cattle shed into a latrine, and for constructing a covered [illegible]ge, will now be charged to "Military, Original Works," and His Excellency [illegible]ommander-in-Chief will be requested to propose a reappropriation of funds to meet the cost.

2. The estimate, amounting to Rs. 1,790, for improving the hospital and nursery dormitories, male and female branches, submitted by the Superintending Engineer, IV Circle, with his letter, No. 259 E.W., dated 29th July 1884, is sanctioned for execution when funds are available.

3. This question has been registered as Imperial No. 57 W. of 1884-85, and classified as "Military, Original Works."

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

* G.O., No. 191 W., dated 22nd January 1884.

To the Superintending Engineer, IV Circle with two enclosures.
„ Examiner, Public Works Accounts.
„ Educational Department.
„ Military „

Exd. A. Aubert
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of [1884] Madras.

PUBLIC WORKS.

Dated September, 25th.

Recd. *Encl.*

G.O., 25th Sept. 1884, No. 2370 W.

SEPTEMBER.

Lawrence Asylums, Ootacamund

Orders on letter from the Government of India confirming the sanction accorded to the estimate for certain works at the —, and stating that its cost as well as other minor alterations and improvements may be charged to the Military Works Grant.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—the following paper:—

From H. B. GRIGG, Esq., M.A., Director of Public Instruction, Madras, to the Acting Chief Secretary to Government, dated Madras, 21st October 1885, No. 6898.

I have the honor to submit five copies of the twenty-fifth report of the Lawrence Asylum at Ootacamund.

2. On the 31st March 1884 there were 252 boys in the asylum, and as there were 71 departures, including 2 boys sent to the Civil Orphan Asylum, Madras, on account of ill-health, with 49 admissions, the number on the 31st March 1885 was 238.

3. The causes of departure were more satisfactory on this occasion, but it should have been explained to where or to what employment the 12 boys, who were over age, went. Regarding the 16 boys who were under age, no cause whatever for their removal is given, as the fact that they were under age is no reason, unless it is intended that they were admitted at an age below that contemplated by the rules. If so, explanation should, I think, have been given. Only 1 boy was dismissed, and it is a subject for regret that 2 boys died, the cause of death being typhoid fever. In connection with this subject, I would specially draw attention to the Consulting Physician's remark that separate hospital accommodation and the segregation of cases of infectious diseases is much needed. The committee, it seems to me, have ample funds in their hands without Government assistance to such a suitable hospital.

4. There were only 30 orphans, but there were 157 fatherless children. The number of children having both parents living was 58—a large proportion. Of the whole number 238, 17 were Roman Catholics.

5. The Eurasian far exceeded the European children in number. There were 58 children of 8 years and under, and only 8 above 16 years; and 7 of these, it is satisfactory to find, were awaiting orders to join the Telegraph department. The eighth boy was in the Tailor's shop. The reduction in the number of over-age lads from 17 to 8 is also satisfactory. It is presumed that the 8 lads referred to under the heading "Telegraph classes" include the 7 described as awaiting orders. The point is not clear. It was anticipated that 12 boys out of 15 would pass the Telegraph Entrance examination. Six boys, who passed in March 1884, joined their appointments in the following month. Altogether the Telegraph department seems to afford a good outlet for the boys, and other outlets would doubtless offer themselves if other special education were given, and I cannot but deplore its virtual absence from the scheme of the institution, except in so far as utilization of the Asylum Press, Madras, may be regarded as, in a small measure, fulfilling this object. It is, however, so far encouraging to find that 9 lads were sent as apprentices to Press against 2 in the preceding year.

6. In spite of drawbacks the Band class seems to have been very successful.

7. Although all the apparatus could not be set up, gymnastic instruction seems to have been conducted very satisfactorily. The number of each class increased to [illegible] and 180 lads had undergone a course of instruction. The summaries of the tables given show that there has been increase in weight and measurement without exception.

8. There is nothing new to be said on the subject of the Tailor's, Carpenter's, and Smith's shops, and the boys, as usual, perform domestic work. I do not regret the abolition of the afternoon class in the Tailor's shop, because the result was not the training of tailors, and thus the class had no just raison d'être.

9. The gifts and prizes received by the institution show that a generous interest is taken in it by many on the welfare of this important institution.

10. I note that the new latrines have been handed over by the Public Works department.

11. The results of the Middle School examination were very good, those of the Lower Fourth Comparative examination fair, and those of the Third Class Comparative examination an almost complete failure. This is put down to the difficulty of the paper in Arithmetic, but allowance was made for this in the assignment of marks. The results of the Upper and Lower Primary examinations were very good.

12. The changes in the subordinate staff amounted almost to the entertainment of a new establishment. This does not appear to be satisfactory, especially as many of the persons employed left after very short service. I would draw attention to the Inspector's remarks on the staff.

13. I observe that although extra expenses were incurred under Clothing and other heads, the total expenditure was less than in the previous year. The cost per boy, however, was greater than in the previous eight years, excepting 1877-78.

14. There was some slight gain in the Carpenter's and Smith's shops, and judging by local rates also in the Taylor's shop.

15. There was a loss under the head of Gardening, Live-stock, Plantations, &c.

Female Branch.

16. There was no change in the number (59) on the rolls, 15 pupils having left, while the same number was admitted. There were only 2 girls above 16 years of age. The number of orphans was very small, only 7, and 29 were fatherless children. Eight of the girls were Roman Catholics.

17. The expenditure was the lowest for eight years excepting 1881-82, and the average cost was the lowest without exception. The saving chiefly falls under Clothing, which is generally greater in alternate years, but there was also a saving under Education and Household.

18. The Higher examination for women was a failure. For the Middle School examination 6 passed out of 7, with 4 in the first class—a very good result. The Special Upper Primary examination yielded 50 per cent. or fair.

19. The prizes were numerous and well chosen, and, as usual, a number of ladies have contributed towards them handsomely.

20. The needlework done by the girls was of a very useful character and showed much variety.

21. The total receipts on account of the Male branch were Rs. 1,23,602-4-10 and the total expenditure Rs. 1,20,571, leaving a balance in excess of Rs. 3,031-4-10, (although no donation was received from the Madras Asylum Press) after carrying Rs. 20,000 as a saving to fixed deposits. This item appears to have been incorrectly included under Expenditure. It will be observed that in the past three years the Male Asylum has accumulated no less than Rs. 50,000 exclusive of the closing balance. The expenditure, it is noted, was raised by the grant of a personal allowance of Rs. 150 a month to the Principal. The total receipts in the Female branch were Rs. 27,727-3-10

and the total expenditure Rs. 17,730-4-1, leaving a balance of Rs. 9,996-15-9 exclusive of Rs. 20,000 in deposit, the savings of the past two or three years. In this brief space the asylum has, in the two branches taken together, accumulated about Rs. 60,000 and this sum, to all intents and purposes, comes out of the grant-in-aid of Rs. 48,000 received. I am disposed to think that the accumulations should be expended in providing the additional accommodation necessary for the girls' branch, as I understand all applications for admission cannot now be complied with, and in providing a hospital, or that the India grant should be reduced. The asylum ought not to make a profit out of grants from the Indian treasury.

22. As a matter unconnected with the report, I may mention here that in their letter printed with G.O., Educational, dated 20th April 1885, No. 251, the Government have sanctioned the admission into the institution of the orphan children of Volunteers. I may also state that under G.O., No. 186, dated the 19th March 1885, Educational, the rules for admission are to be thoroughly revised.

23. The medical history of the Female branch is very satisfactory, but there were 215 admissions (including 13 boys who remained) into hospital from the Male branch, and, as already intimated, there were 2 deaths. However, only 11 boys remained in hospital at the close of the year. Complaint is again made by the medical authorities about the want of proper hospital accommodation, and about an improved water-supply so far as the Male branch is concerned.

24. The Inspector's report will be found printed along with the committee's report on the institution. On the whole, Mr. Garthwaite says the results of his examination, as regards the Male branch, were creditable to the masters. As regards the Female branch he says the results were highly satisfactory. The remarks made regarding the employment of additional masters in lieu of the Military element on the subordinate staff are deserving of particular attention.

Order—dated 18th November 1885, No. 724, Educational.

With his letter read above the Director submits the report of the Lawrence Asylum at Ootacamund for the year 1884-85. The Director has reviewed the report very fully, and it is now only necessary to notice the following points.

2. The financial working of the institution was satisfactory, but it is noticed that the cost per head of the boys was greater than in the previous year by Rs. 28. There was a very considerable decrease, however, in the cost per head of the girls. His Excellency the Governor in Council agrees with the Director in thinking that the accumulations, referred to in paragraph 21 of his letter, should be devoted to the provision of increased accommodation and other improvements. The committee will be directed to submit proposals to this end to Government at an early date. It was certainly never intended that the State grant-in-aid should be so large as to allow of yearly savings, and either the benefits must be increased or the grant reduced.

3. The Government regret to learn of the outbreak of typhoid fever in the asylum. The delay in executing the alterations to the hospital, sanctioned in G.O., dated 25th September 1884, No. 2370 W., Public Works, will be dealt with in the Public Works department. The Government agree with the Director in thinking that some of the surplus funds in the hands of the committee might usefully be expended in the provision of a separate ward for infectious diseases.

4. The Telegraph classes seem to have been productive of good results, and the Government again strongly commend to the attention of the committee the advisability of starting similar classes for instruction in other technical subjects. The gymnasium was well attended, and the results, which are set forth in great detail, appear to be satisfactory. The improvement of the gymnasium room would form a very legitimate object for the expenditure of a portion of the accumulated funds already referred to. The remarks of the Inspector, Mr. Garthwaite, on several of the teaching staff and his suggestion to replace some of the sergeants now entertained by assistant masters are commended to the attention and consideration of the committee.

5. The Director should expedite the draft set of rules called for in paragraph 11 of G.O., dated 19th March 1885, No. 186, Educational.

6. The thanks of Government will be given to the gentlemen on the committee for their services during the year.

(True Extract.)

W. WILSON,
Acting Chief Secretary.

To the Director of Public Instruction.
" Committee of Management, Ootacamund Lawrence Asylum.
" Public Works department.
" Military department.
" Accountant-General.

Exd. T. O'Connor.

IMPERIAL.
MILITARY WORKS.

MADRAS.

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REVENUE.

ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE OF THE PUBLIC WORKS DEPARTMENT FROM MILITARY WORKS IN MADRAS FROM 1st APRIL 1886 TO 31st MARCH 1887.

——	Budget-Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget-Estimate, 1885-86.	Actuals, 1884-85.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	30,000	29,500	29,500	33,586
In Civil and Military Departments	...	...	...	...
Total ...	30,000	29,500	29,500	33,586

CHARGES.

ABSTRACT OF THE BUDGET-ESTIMATE OF EXPENDITURE OF THE PUBLIC WORKS DEPARTMENT ON MILITARY WORKS IN MADRAS FOR THE YEAR FROM 1st APRIL 1886 TO 31st MARCH 1887.

——		Reference to Detailed Estimate.	Budget-Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget-Estimate, 1885-86.	Actuals, 1884-85.
			Rs.	Rs.	Rs.	Rs.
Original Works	In progress ...	...	58,996	1,89,204	2,29,646	2,09,361
	Not commenced.	...	1,49,039			
Repairs ...	Ordinary ...	...	3,10,465	1,72,995	2,94,549	2,83,366
	Special ...	...	...			
Establishment		...	1,20,700	84,205	1,20,563	1,14,345
Tools and Plant		...	5,200	3,596	5,242	4,935
Suspense Account		...	...	...	...	...
Total ...		...	6,44,400	4,50,000	6,50,000	6,12,007

ABSTRACT OF THE CHARGES TO BE INCURRED BY THE PUBLIC WORKS DEPARTMENT FROM IMPERIAL FUNDS AND CONTRIBUTIONS IN BOTH INDIA AND ENGLAND.

——	BUDGET-ESTIMATE, 1886-87.									Revised Estimate, 1885-86.	Budget-Estimate, 1885-86.	Actuals, 1884-85.
	Original Works.											
	In progress.	Not commenced.	Total.	Repairs.	Establishment.	Tools and Plant.	Suspense Account.	Barrack Department.	Total.			
Provision from Imperial Funds.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
In India ...	58,996	1,49,039	2,08,035	3,10,465	1,20,700	5,200	...	...	6,44,400	4,50,000	6,50,000	6,12,007
In England.	...	...	...	...	...	...	...	...	...	...	...	250
Total ...	58,996	1,49,039	2,08,035	3,10,465	1,20,700	5,200	...	...	6,44,400	4,50,000	6,50,000	6,11,757
Provision from Contributions.												
In India ...	...	...	...	...	...	...	...	...	...	...	...	261
Grand Total.	58,996	1,49,039	2,08,035	3,10,465	1,20,700	5,200	...	...	6,44,400	4,50,000	6,50,000	6,12,018

STATEMENT SHOWING THE WORKS ON WHICH THE OUTLAY IN ENGLAND ABOVE PROVIDED FOR IS TO BE INCURRED.

——	BUDGET-ESTIMATE, 1886-87.						Revised Estimate, 1885-86.	Budget-Estimate, 1885-86.	Actuals, 1884-85.
	Original Works.								
	In progress.	Not commenced.	Total.	Tools and Plant.	Suspense Account.	Total.			
	...	...	...	...	...	...	...	...	250
Total ...	...	...	...	...	...	...	...	...	250

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PART I.

DETAIL OF THE BUDGET-ESTIMATE FOR ORIGINAL WORKS FOR THE YEAR 1886-87.

CLASS A WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Grant, 1886-87.			Item No.	Remarks and References.
						Actual to end of 1884-85.	Probable during 1885-86.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY.								
				Military.								
				Original Works.								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	West Coast.	Malapuram ...	1	Constructing a barracks for a detachment of British Infantry to accommodate 100 men.	1,35,09	83,531	31,448	20,115	...		1	G.O., No. 2843 W., dated 27th November 1885. Item No. 2, class A works, budget of 1885-86.
	Chingleput.	St. Thomas' Mount.	2	New barracks for Royal Artillery...	1,46,9	97,379	22,458	27,073	...		2	G.O., No. 1974 W., dated 2nd June 1885. Item No. 1, class A works, budget of 1885-86.
	Do. ...	Do. ...	3	Constructing six blocks of stables for two field batteries of Royal Artillery.	21,702	10,000	10,763	939	...	48,127	3	G.O., No. 2561 W., dated 2nd November 1885. Item No. 2, class B works, budget of 1885-86.
(2) *Ordnance Works* ...	Presidency.	Fort St. George.	4	Armament of Fort St. George ...	42,035	8,036	29,935	2,964	...	2,964	4	G.O., No. 2970 W., dated 19th October 1883. Item No. 4, class A works, budget of 1885-86.
(4) *Fortifications* ...	Do. ...	Madras ...	5	Alterations to the Coast Batteries.	14,265	...	6,266	6,025	...		5	G.O., No. 2126 W., dated 11th September 1885.
	Do. ...	Bangalore ...	6	Fortified post at Agram	39,180	34,467	3,020	1,880	...	7,905	6	G.Os., Nos. 3059 W., dated 18th December 1885 and 250 W., dated 28th January 1886.
				Total ...	...	...	...	58,996	...	58,996		

PART I—*cont.*

DETAIL OF THE BUDGET-ESTIMATE FOR ORIGINAL WORKS FOR THE YEAR 1886-87.

CLASS B WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Grant, 1886-87.			Item No.	Remarks and References.
						Actual to end of 1884-85.	Probable during 1885-86.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY.								
				MILITARY.								
				Original Works.								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Bellary ...	Bellary ...	1	Reconstructing double apothecaries' quarters, station hospital.	6,222	...	...	...	6,222		1	G.O., No. 1806 W., dated 3rd August 1885.
	Nilgiri ...	Wellington ...	2	Hospital accommodation for women and children.	3,036	...	...	...	3,036		2	G.O., No. 1573 W., dated 6th July 1885, Item No. 15, class C works, budget of 1885-86.
	Presidency ...	Fort St. George.	3	Improving water-supply	6,445	...	...	...	6,445		3	G.O., No. 2454 W., dated 20th October 1885.
	Do.	Do.	4	Alterations and additions to blocks of married quarters and to the buildings occupied by the offices of the Surgeon-General, &c.	...	...	...	...	20,160		4	Estimate is awaited.
	Do.	Bangalore ...	5	Stables for 66 extra horses, British Cavalry.	...	...	...	...	5,243		5	Do. do.
	Do. ...	Do. ...	6	Alterations to the British Cavalry Barracks.	...	...	...	...	1,210		6	Do. do.
	Do. ...	Bangalore ...	7	Additions to the Military prison ...	8,325	...	...	...	8,325		7	G.O., No. 938 W., dated 5th April 1884. Item No. 3, class B works, budget of 1885-86.
	Chingleput...	St. Thomas' Mount.	8	Constructing a coffee shop with kitchen for the upper story barracks.	6,690	...	...	...	4,320		8	G.O., No.1390 W., dated 15th June 1885.
	Do. ...	Do. ...	9	Improvements to the old barracks.	...	...	...	...	8,870	63,830	9	Estimate is awaited.
Buildings for Native troops.	West Coast.	Quilon ...	10	Constructing a regimental store-shed.	9,334	...	...	...	9,334		10	G.O., No. 1556 W., dated 3rd July 1885. Item No. 32, class C works, budget of 1885-86.
	Presidency.	Bangalore ...	11	Public buildings for one regiment of Native Infantry.	21,636	...	...	...	10,000		11	G.O., No. 2952 W., dated 26th November 1884. Item No. 27, class C works, budget of 1885-86.
	Trichinopoly.	Trichinopoly...	12	Erection of a Magazine for one regiment of Madras Infantry.	...	...	...	...	2,000		12	Estimate is awaited.
	Do. ...	Do. ...	13	Construction of stone drains required for new lines.	...	...	...	...	7,000	28,334	13	Do. do.
(4) *Ordnance Works* ...	Presidency...	Fort St. George.	14	Constructing a new magazine in the Wallajah horn.	...	...	...	...	20,000		14	Do. do.
	Do. ...	Madras ...	15	New wheelers shop, Gun Carriage Factory.	7,370	...	...	...	7,370		15	G.O., No. 2879 W., dated 17th November 1884. Item No. 36, class C works, budget of 1885-86.
	Chingleput.	St. Thomas' Mount.	16	Alterations to racks in the Ordnance Magazine.	2,505	...	...	...	2,505	29,875	16	G.O., No. 2416 W., dated 15th October 1885.
			17	Minor works	...	...	...	...	27,000	27,000	17	
				Total ...	...	...	...	..	1,49,039	1,49,039		
				Grand Total ...	...	...	...	...	...	2,08,035		

APPENDIX

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1886-87, BUT ON

CLASS B

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION.	LOCALITY.	ITEM No.	PROJECTS AND WORKS.	AMOUNT OF ESTIMATE.
					Rs.
				IMPERIAL ORDINARY.	
				MILITARY.	
				Original Works.	
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Bellary ...	Bellary ...	1	Improving the system of water-supply to British Infantry Barracks.	...
	Do. ...	Do. ...	2	Alterations to prisons and adjoined buildings.	...
	Do. ...	Do. ...	3	New gunshed with collarmakers' and wheelers' shop for the Royal Artillery.	5,663
	Do. ...	Do. ...	4	Swimming-bath, British Infantry	7,644
	Do. ...	Do. ...	5	Infectious disease ward, station hospital.	6,140
	Do. ...	Do. ...	6	Armourer's shop, 2nd Light Cavalry.	2,695
	Nilgiri ...	Wellington ...	7	Gymnasium	...
	Do. ...	Do. ...	8	Drinking-water to be laid on to hospital.	2,220
	Do. ...	Do. ...	9	Lock hospital	...
	Do. ...	Do. ...	10	Constructing quarters with out-houses for a Barrack Sergeant.	7,348
	West Coast.	Cannanore ...	11	Plunge-bath for British Infantry.	4,640
	Do. ...	Do. ...	12	Improving latrines for British Infantry.	2,780
	Presidency.	Fort St. George	13	Drainage of fort and barracks ...	...
	Do. ...	Do. ...	14	Wash-house outside the barracks ...	...
	Do. ...	Do. ...	15	Garrison bazaars to be done away with and new cook-houses built.	...
	Do. ...	Do. ...	16	Converting A, B, C, and D blocks into barracks and quarters for a regiment of British Infantry and Garrison Battery of Royal Artillery.	...
	Do. ...	Do. ...	17	Converting a racket court into a covered gymnasium.	11,890
	Do. ...	Do. ...	18	Alterations necessary towards rendering the offices of the Accountant-General and Controller of Military Accounts suitable for occupation by troops.	...
	Do. ...	Bangalore ...	19	Schoolmaster and mistress' quarters, Royal Artillery.	...
	Do. ...	Do. ...	20	Quarters for the senior apothecary, north station hospital.	5,300
				Carried over ...	...

39

B.

WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM WORKS.

OUTLAY.		AMOUNT APPLIED FOR 1886-87.			ITEM No.	REMARKS AND REFERENCES.
Actual to end of 1884-85.	Probable during 1885-86.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	5,350		1	Estimate is awaited.
...	...	...	11,260		2	Do. do.
...	...	...	5,663		3	G.O., No. 914 W., dated 3rd April 1884.
...	...	...	5,600		4	G.O., No. 2434 W., dated 19th October 1885.
...	...	...	6,000		5	G.O., No. 330 W., dated 7th February 1884.
...	...	...	2,695		6	G.O., No. 2266 W., dated 14th September 1881. Item No. 5, Class B works, budget of 1885-86.
...	...	...	10,000		7	Estimate is awaited.
...	...	...	6,000		8	G.O., No. 893 W., dated 2nd April 1886.
...	...	...	4,120		9	Estimate is awaited.
...	...	...	7,348		10	G.O., No. 1941 W., dated 21st August 1885.
...	...	...	4,640		11	G.O., No. 418, dated 16th February 1876.
...	...	...	2,780		12	G.O., No. 1056, dated 4th April 1879.
...	...	...	10,000		13	Estimate is awaited.
...	...	...	2,500		14	Do. do.
...	...	...	4,500		15	Do. do.
...	...	...	4,200		16	Do. do.
...	2,000	9,890	...		17	G.O., No. 1552 W., dated 20th June 1884. Item No. 1, class B works, budget of 1885-86.
...	...	...	40,000		18	Estimate is awaited.
...	...	...	6,200		19	Estimate is awaited.
...	...	...	5,300		20	G.O., No. 3335 W., dated 27th November 1883.
...	...	9,890	1,41,616	...		

APPENDIX B—*cont.*

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1886-87, BUT ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM CLASS B WORKS—*cont.*

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1884-85.	Outlay. Probable during 1885-86.	Amount applied for 1886-87. Works in progress.	Amount applied for 1886-87. Works not commenced.	Amount applied for 1886-87. Total.	Item No.	Remarks and References.
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				Brought forward ...		...	...	9,890	1,41,616	...		
				IMPERIAL ORDINARY—*cont.*								
				MILITARY—*cont.*								
				Original Works—cont.								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Presidency.	Bangalore ...	21	Quarters for the assistant apothecary, north station hospital.	4,773	...	...	...	4,773	2,47,725	21	G.O., No. 938 W., dated 5th April 1884.
	Do. ...	Do. ...	22	Constructing a fourth-class gymnasium.	44,600	1,788	...	42,812	...		22	G.O., No. 1560, dated 21st June 1876.
	Do. ...	Do. ...	23	Parade barracks—alterations and additions to wash-houses.	12,500	7,946	...	4,554	...		23	G.O., No. 1102 W., dated 7th May 1880.
	Chingleput.	St. Thomas' Mount.	24	A wheeler's and collarmaker's shop for the new Artillery barracks.	5,660	...	...	...	5,660		24	G.O., No. 2717 W., dated 3rd November 1884.
	Do. ...	Do. ...	25	Raising the roof of harness room, troop lines.	4,200	...	...	...	4,200		25	G.O., No. 3137 W., dated 17th December 1881.
	Do. ...	Do. ...	26	Wooden shed at the proof range ...	2,820	...	...	...	2,820		26	G.O., No. 3077 W., dated 13th December 1884.
	Do. ...	Do. ...	27	Converting the disused gunshed into a coffee shop, recreation room and library.	2,520	...	...	...	2,520		27	G.O., No. 1234 W., dated 28th May 1885.
	Do. ...	Pallávaram ...	28	Mortuary rooms for hospitals ...	...	...	...	...	3,000		28	Estimate is awaited.
	Do. ...	Do. ...	29	Constructing an armourer's shop ...	2,880	...	...	...	2,880		29	G.O., No. 3149 W., dated 22nd December 1884.
	Do. ...	Poonamallee.	30	Constructing a new double storied barracks.	1,66,885	6,854	...	20,000	...		30	G.O., No. 465 W., dated 19th February 1879.
	Do. ...	Do. ...	31	Providing lightning conductors to the hospital.	...	...	...	...	3,000		31	Estimate is awaited.
Accommodation for Native Troops.	Vizagapatam.	Vizianagrum ...	32	Regimental store-room for Native Infantry.	3,480	...	...	...	3,480		32	G.O., No. 2628 W., dated 27th October 1884.
	Bellary ...	Bellary ...	33	School-house for a Regiment, Native Infantry.	3,030	...	...	...	3,030		33	G.O., No. 149 W., dated 17th January 1884.
	Presidency.	Madras (Ráyapuram).	34	Flushing drains for Native Infantry lines.	4,300	...	...	...	4,300		34	G.O., No. 1937 W., dated 4th June 1884.
	Do. ...	Bangalore ...	35	Store-rooms and workshops for the Pioneer Regiment.	...	...	...	...	3,000		35	Estimate is awaited.
	Do. ...	Bangalore ...	36	Public buildings for a regiment of Native Cavalry.	23,490	...	...	...	14,000		36	G.O., No 1552 W., dated 20th June 1884. Item No. 4, Class B, Works, Budget of 1885-86.
	Trichinopoly	Trichinopoly.	37	Public buildings for two regiments of Native Infantry.	35,650	12,739	3,370	18,000	...		37	G.O., No. 2194 W., dated 5th September 1884. Item No. 3 Class A Works, Budget of 1885-86.
	Chingleput.	Pallávaram ...	38	Powder Magazine for a Native Infantry Regiment.	4,900	...	...	...	4,500	50,310	38	G.O., No. 334 W., dated 18th February 1886.
(2) *Ordnance Works* ...	Presidency.	Madras ...	39	Wall round the Gunpowder Factory.	...	...	...	...	10,000		39	Estimate is awaited.
				Carried over ...	...	...	...	95,256	2,12,779	...		

APPENDIX B—*concld.*

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1886-87, BUT ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM CLASS B WORKS—*concld.*

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Amount applied for 1886-87.			Item No.	Remarks and References.
						Actual to end of 1884-85.	Probable during 1885-86.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				Brought forward ...	...	...	...	95,256	2,12,779	...		
				IMPERIAL ORDINARY—*contd.*								
				MILITARY—*contd.*								
				Original Works—contd.								
(3) *Ordnance Works.*	Presidency	Madras ...	40	Extra accommodation as store-room in the Gun Carriage Factory.	...	...	...	...	6,000		40	Estimate is awaited.
	Do.	Do. ...	41	Improvements to the barrel machine shop of the Gun Carriage Factory.	4,030	1,969	...	2,061	...		41	G.O., No. 2413 W., dated 16th September 1882.
	Do. ...	Do. ...	42	Improvements to the Gunpowder Factory.	2,52,412	2,23,985	2,000	20,000	...		42	G.O., No. 2707 W., dated 3rd November 1884. Item No. 5, Class A works, budget of 1885-86.
	Do. ...	Do. ...	43	Dried deposit magazine, Gunpowder Factory.	3,975	...	...	...	3,975		43	G.O., No. 302 W., dated 21st April 1885.
	Do. ...	Do. ...	44	One drying house for store.	...	...	...	...	26,320		44	Estimate is awaited.
	Do. ...	Do. ...	45	Alterations to the roof of the final dusting-house.	...	...	...	...	4,300		45	Do. do.
	Do. ...	Tenampet ...	46	Constructing a wheat godown.	...	...	...	...	5,950		46	Do. do.
	Do. ...	Bangalore ...	47	Ordnance depôt buildings, Entrenchment.	...	...	...	...	4,823	83,429	47	Do. do.
(4) *Commissariat Buildings.*	Do. ...	Madras ...	48	Constructing a shed in the Camp Equipage Depôt.	...	...	...	...	5,300		48	Do. do.
	Do. ...	Do. ...	49	Lines for transport attendants ...	...	...	...	...	48,000		49	Do. do.
	Do. ...	Do. ...	50	Workshops and sheds for carts, doolies, &c., Transport Department.	...	...	...	...	5,560		50	Do. do.
	Do. ...	Bangalore ...	51	Quarters for a Conductor, Transport Department.	5,800	...	...	...	4,230		51	G.O., No. 502 W., dated 16th April 1885.
	Chingleput.	Guindy ...	52	Quarters for a station butcher ...	...	...	...	...	4,740	67,760	52	Estimate is awaited.
Fortifications.	Presidency.	Fort St. George	53	Demolition of Wallajah Ravelin and two tenailles.	...	...	...	...	7,434		53	Do. do.
	North Arcot.	Vellore ...	54	Draw bridge and gate for the fort.	6,450	...	...	...	6,450	13,884	54	G.O., No. 528 W., dated 7th March 1885.
Miscellaneous.	Nilgiri ...	Ootacamund, Lovedale.	55	Water-supply, Lawrence Asylum.	...	...	...	...	7,000	7,000	55	Estimate is awaited.
				Total ...	...	...	...	1,17,317	3,52,791	4,70,108		

No 1
RW

Superintending Engr
Camp. Ootacamund. 1st January 18

From,

The Superintending Engineer,
4th Circle

To,

The Chief Engineer,
P. W. Department

Sir,

With reference to G. O. No. 2,894 of 4th December 1885, I have the honor to report that I am unable to provide the amount required for alterations to the School Hospital attached to the Lawrence Asylum by reappropriation from the grants for other military works in the circle.

I have the honor to be,
Sir,
Your most obt Servt

Colonel R.E.
Superintending Engineer
4th Circle

Incl. 3

No. 60 W. January 7 1886

From
The Supdg. Engineer,
Fourth Circle.

Communicated to the Educational department, in continuation of G. O. 2894 W dated 4th December, 1885.

2. The Supdg. Engr. will include the work in his statement of demands against the provincial to be submitted early in 1886–87.

6/1/86

6.1.86

Educational Deptt.
S.E. IV Circle
Despd 7-1-86

No. 60 W. January 7 1886

Dated 1st
desp: 4th } Jany: 1886.

No. 1
E.W.

School Hospital attached to the Lawrence Asylum

States that he is unable to provide the amount required for alterations to the —.

With disposal

43

30th November 1885, No. 2848 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From Colonel J. SHAW-STEWART, R.E., Secretary to Government, Public Works Department, Madras, to the Secretary to the Government of India, Public Works Department, dated 5th September 1885, No. 2066 W.

I am directed to submit, for the orders of the Government of India, in view to such information on the subject as may be available being furnished to this Government, a controverted point in connection with the protection of buildings from lightning.

2. In February 1882, the India Office issued to the Public Works Department, for guidance, copies of the results of a "Lightning Rod Conference" then recently published; and on the rules therein contained have been based all recent specifications and estimates for the protection of magazines and public buildings in this presidency. According to the conclusions arrived at by the Conference, the space protected by a lightning rod is included within a cone having the point for its apex and a base whose radius is equal to the height from the ground. In buildings with marked prominent features and a broken sky-line, this end has been more or less easily attained; but in the frequent cases of flat buildings of extensive area, difficulties have occurred, and hence has arisen some controversy as to the space protected by a system of conductors.

3. With resolution of the Government of India, Public Works Department, of 26th October 1883, No. 427 M., a "Code of Instructions" on the subject of conductors was issued. In section VII of this code examples are given of the methods to be adopted in fixing conductors to different types of buildings; but these methods appear to be at variance, in regard of the space protected, with the rule quoted in paragraph 2 above. For a terraced building, for instance, a horizontal conductor running round the eaves and connected to earth by means of a vertical conductor at one of the corners of the building is recommended; and the upper end, or terminal, of the vertical conductor need project only a few feet above the roof. According to the "Lightning Rod Conference," the space to be protected should fall within the cone described on this terminal, and the space lying outside that cone and between the horizontal conductors along the eaves would, it is inferred, *not* be protected. Over a large area of roof this unprotected space would be considerable, and I am to inquire whether, in the opinion of experts, when a *horizontal* system or network of conductors is adopted, the height of the terminal or terminals is immaterial, and the fact of a large portion of the building lying outside the cones of protection described on these terminals may be disregarded.

From Colonel H. A. BROWNLOW, R.E., Deputy Secretary to the Government of India, Public Works Department (Civil Works—Buildings), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 12th October 1885, No. 663 B.

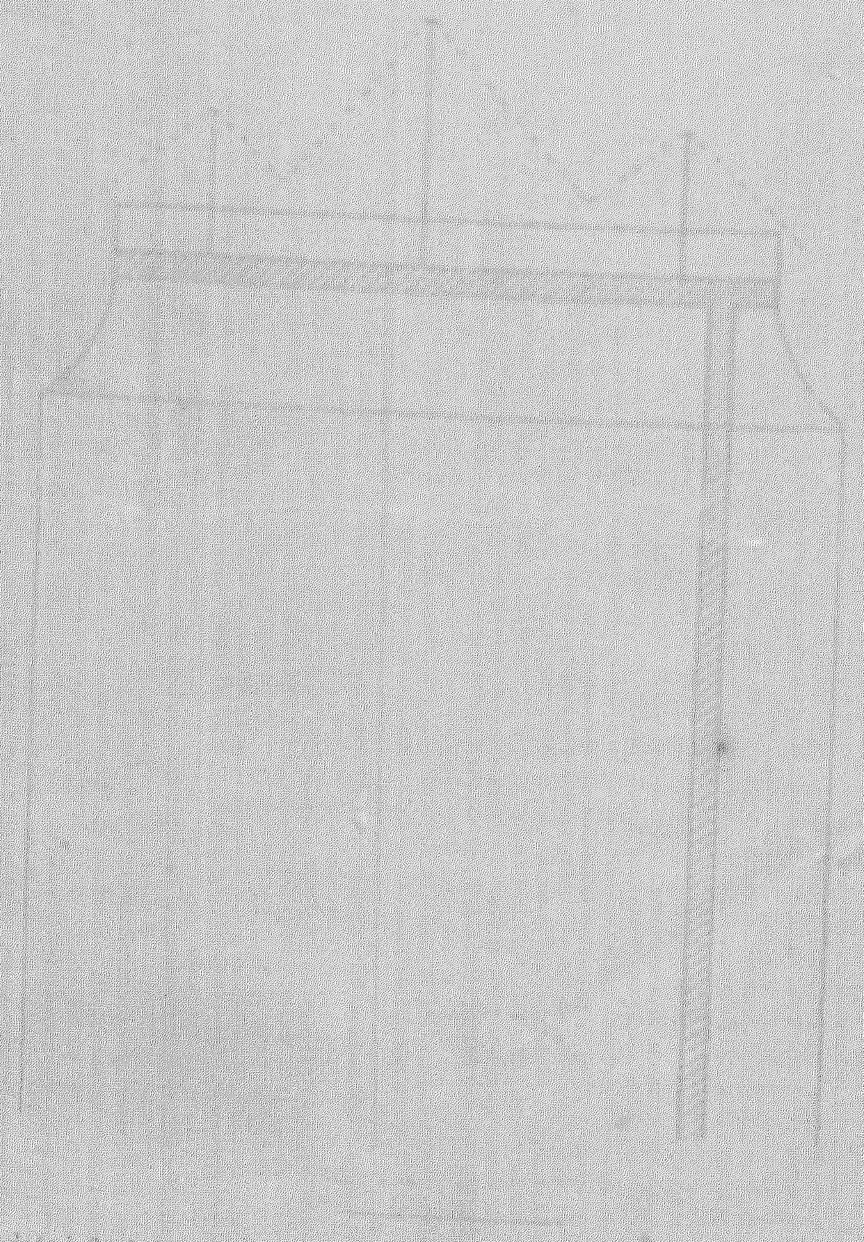
I am directed to acknowledge the receipt of your letter, No. 2066 W., dated 5th September 1885, and, in reply, to forward copy of paragraph 2 of a letter from the Officiating Electrician, Indian Telegraph Department, on the subject of the protection of buildings by lightning conductors.

Enclosure.

Extract paragraph 2 from letter, No. 246, dated 23rd September 1885, from the Officiating Electrician, to the Director-General of Telegraphs in India.

* * * *

2. According to present ideas, based on experience and statistics, the height of the terminal or terminals is not immaterial; but should be such that imaginary lines drawn at an angle of 45 degrees from the top should all fall outside the roof or else be intersected above the roof by similar lines from contiguous terminals, as per accompanying sketch.



Order—dated 30th November 1885, No. 2843 W., Public Works.

Communicated to officers of the Public Works Department, for information and guidance, in continuation of G.O., No. 3137 W., dated 12th November 1883.

2. It will be observed that the opinion now received is in accordance with the instructions in appendix A to the Standard Specifications.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Chief Superintendent of Telegraphs, Madras Division.

Exd. E. Fernandez.

Spare Copies.

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of 1885 Madras.

PUBLIC WORKS.

Dated June, 24th.

Recd. *Encl.*

G.O., 24th June 1885, No. 1468 W.

JUNE.

Madras Infantry Magazine at Quilon

Estimate for improvements to the — sanctioned.

3rd March 1886, No. 552 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Pudupadi, 6th February 1886, No. 38 E.W.:—

I have the honor to submit an estimate, amounting to Rs. 1,500, for fixing lightning conductors to the infantry magazine at Quilon, to be sanctioned as supplemental to the estimate of Rs. 2,380, for improving the magazine, sanctioned in G.O., No. 1468 W., of 24th June 1885.

2. The estimate has been prepared in accordance with the recommendations of the Lightning Rod Conference, and G.O., No. 2848 W., of 30th November 1885.

No. 689 A.

Returned, approved by the Provincial Commander-in-Chief.

(By Order.)

Ootacamund,
20th February 1886.
(Signed) D. J. S. McLEOD, Major,
Deputy Quartermaster-General.

To the Secretary to Government, Military Department.

No. 1211, Military.

Approved, and transferred to the Public Works Department for disposal.

(By Order.)

Fort St. George,
24th February 1886.
(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Secretary to Government.

Order—dated 3rd March 1886, No. 552 W., Public Works.

The estimate, amounting to Rs. 1,500, for fixing lightning conductors to the Madras infantry magazine at Quilon, is sanctioned as supplemental to the estimate of Rs. 2,380 sanctioned in G.O., No. 1468 W., dated 24th June 1885.

2. This sanction has been registered as Imperial, Ordinary, No. 67 W. of 1885-86, and classified as Military, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with three enclosures.
,, Examiner, Public Works Accounts, with the estimate for note and return to Superintending Engineer, IV Circle.
,, Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1886) Madras.
PUBLIC WORKS.

Dated March, for.

Read. Read.

G.O., 3rd March 1886, No. 532 W.

MARCH.

Madras Infantry Magazine
at Quilon

Estimate for fixing lightning conductors to the —, sanctioned.

No 121/EW.

Supg Engineer's Office, 4th Circle
Camp Madavatum, 20th April 1886

48

From
The Superintdg Engineer,
Fourth Circle.

To
The Chief Engineer,
P.W. Department.

Sir,

In G.O. No 1468 W of 24th June 1885 an estimate amounting to Rs 2300 was sanctioned for improvements to the Native Infantry Magazine at Quilon, and a supplemental estimate of Rs 1500 for Lightning Conductors to the same Magazine was sanctioned in G.O. No 552 W of 3rd March 1886. As the Military authorities represent that these improvements are urgently needed, I have the honor to request an allotment of funds to the extent of Rs 3800 to enable me to have the work put in hand.

I have the honor to be,
Sir,
your most obedt. servant,
L. Beatty Col. RE,
Supt. Engineer 4th Circle

06-11-85
26-6-85
3-3-86

P.W.D. No. 3134

(11)

From,

The Supdg. Engineer,
Fourth Circle.

No. 69 D/- May 1886

Referred to the Quarter Master General, through the Military Depte. for favr. of opinion of H.E. the Commander-in-chief. If the appropriation of funds is necessary, information is requested whether the amount required can be provided from the Grant for Minor Works under which head a Grant of Rs 27,000 has been reserved in the Military Works Budget for 1886-87.

23/4/86

Dated 20th
Recd 23rd } April 1886

No. 69 D/- May 4 1886

Enclosures: Nil.

No. 121/E.W.

Native Infantry Magazine at Quilon

Requests an allotment of Rs. 3,880 for carrying out improvements and providing Lightning Conductors to the —

2 The Military Depte.

1-5-86

[illegible] 1064. Dt. [illegible]

Written and [illegible]

Department

Memorandum.

Letter from the Superintending Engineer IV Circle, No. 121 E.W. dated 20th April 1886.

In G.O. No. 1658 W. of 24th June 1885, an estimate amounting to Rs. 2380 was sanctioned for improvements to the Native Infantry Magazine at Quilon, and a supplemental estimate of Rs. 1500 for lightning conductors to the same magazine was sanctioned in G.O. No. 552 W. of 3rd March 1886. As the Military authorities represent that these improvements are urgently needed, I have the honor to request an allotment of funds to the extent of Rs. 3880 to enable me to have the works put in hand.

No. 69 D. Obtained May 1886

Referred to the Quarter Master

General, through the Military Department, for favor of opinion of His Excellency the Commander-in-Chief. If the appropriation of funds is necessary, information is requested whether the amount required can be provided from the Grant for Minor Works, under which head a grant of Rs 27000 has been reserved in the Military Works Budget for 1886-87.

J. Mau Stewart

1-5-86

Colonel R.E.,

Secretary to Govt P.W. Depᵗ

To

The Military Depᵗ.

Former papers.

MILITARY (1886) DEPARTMENT.

No. 2989

From

The P. W. Deptt.

No. 692

Dated 26 April 86

Recd. 3 May

Pu Lct 347/86

Registered

Enclosures.

P. O., No. dated

Regarding an allotment of funds for improvements etc to the Native Infantry magazine at Quilon —

No.

No. 2669

5

GOVERNMENT OF MADRAS,

Military Department,

Ootacamund 3d May 1886.

To The Quarter Master General

Referred to His Excellency the Commander-in-Chief.

P. W. Lct 347/

(By Order.)

A Kenney Herbert Lieut.-Colonel,

Secretary to Govt., Mily. Dept.

N.B.—Reply *may* be endorsed on this docket.

Quarter Master General's Office,
Ootacamund,
5th May 1886.

No. 1717. A.

From

The QUARTER MASTER GENERAL,

To

The Secretary to Government
Military Department

Sir,

In returning as requested, the papers received under Reference Order No. 2669 of 3rd Instant, I am desired by the Commander in Chief to state that in His Excellency's opinion, the necessity for improving the Magazine of the Madras Infantry Regiment at Quilon is most urgent, and that the funds required for it, ought to be allotted from the Minor Works grant of Rs: 2,000 for this year.

I have the honor to be
Sir
Your obedt. Servant

Colonel,
JSt Offg. Quarter Master Genl.

Rcvd by D. 1.5.86
6524. 3.5.86
[illegible] 24.6.86
[illegible] 31.[illegible]

No 2753. Transferred to the Public Works Dept in reply to M. Cy to dated 1st May 1886

(By order)
[illegible] Lt Col
Secy. to Government

6 May 1886
Cert. [illegible]
G.O. 1233 W. of 14th May 86

The question of providing funds for this work will be considered in distributing the grant for Minor works.

16/5/86

The S.E. IV circle
Mily Dept.
Despd 15/5/86 12.5
17/5
[illegible] R.C. 11.5.86 [illegible]

Mily 1886. Dept

No. 257[illegible]

From S.W.C. No 3471

THE QUARTER MASTER GENERAL,

To

THE Secy. to Govt.
M.D.

No. 1717 A

Dated 5th } May
Received }

Recd. 10/5.

1233 of 14th May 86

ENCLOSURES. 2

Reg: allotment of funds for improvement to the M.I. Magazine at Quilon

---

No 158
" W.

Superintending Engrs office 4th C.
Coimbatore 16th May 1886.

From,

The Superintending Engineer,
Fourth Circle.

To,

The Chief Engineer,
P. W. Department.

Sir,

With reference to G.O. No. 1233 of 14th instant, I have the honor to request permission to make arrangements for commencing the work of improving the Madras Infantry Magazine at Quilon in anticipation of an allotment being made to it under Minor Works.

I have the honor to be,
Sir,
Your Most obdt Servt
E. Beatty Colonel R.E.
Superintending Engr 4th C.

Cannot be [illegible]
19.6.86

No 1233 W 24-5-86
do 492 1-5-86
G.O. No 1572 W 3-3-86
" 2802 W 24-6-86
" 3869 W 30-11-86

Dis. No 3542

From,

The Superintending Engr.
Fourth Circle

Dated the }
Read } May 1886.

No $\frac{153}{CW}$

Magazine at Quilon.

Requests permission to commence the work of improvements to the Madras Infantry in anticipation of an allotment of funds.

Ref. 8875 [illegible]

WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

29th May 1886

Read the following

From the Supdg. Engr. IV Circle H.E. No. 153 C.W. dd 15th May 1886.

The Supdg. Engr. IV Circle is authorised to make arrangements for commencing the improvements to the Madras Infantry Magazine at Quilon, in anticipation of an allotment of funds being made for the work in the orders on the statements of demands for incomplete and minor works.

22/5/86

Desp'd
29/5/86

To
The Supdg. Engr. IV Circle
" Examiner of P.W. Accts
" Military Department

27.5.86

1115

2nd Circle

A Statement showing amounts applied for and those granted under Imperial Military and Civil Buildings Roads and Services for the Official year 1886-87.

Divisions	Amounts applied for								Amounts granted								Remarks
	Minor works				Repairs				Minor works				Repairs				
	Military	Civil Buildings			Military	Civil Buildings			Military	Civil Buildings			Military	Civil Buildings			
		Postal	Telegraph	Salt		Postal	Telegraph	Salt		Postal	Telegraph	Salt		Postal	Telegraph	Salt	
tna Eastern	.	.	.	.	.	158	250	.									
stna Western	.	.	.	.	.	.	300										
Nellore	.	.	.			380	-	.									
Total	.	.	.	.	.	538	550	.									

Superintending Engineer's Office,
2nd Circle, Camp [illegible]
19th May 1886

A.
265.6

Major R.E.
Offg. Superintending Engineer
2nd Circle.

2nd Circle.

B. Statement of requirements on account of incomplete works for 1885/86 and of new works sanctioned but not yet commenced for the official year 1886-87.

Division	Item No.	Name of work	Amount of Estimate	Number and date of sanction	Past expenditure	Balance of Estimates	Amount applied for 1886-87. For incomplete works	Amount applied for 1886-87. For New works	Amount allotted for 1886-87. For incomplete works	Amount allotted for 1886-87. For New works	Item No.	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13
		Civil Buildings, Roads & Services. Minor Works.										
Kistna Western	1	Post Office at Duggirala	900	G.O. No. 1910 W. of 9th July 1883, and G.O. No. 2415 W. of 14th October 1884	143	757	757	.			1	
Nellore	2	Quarters for Post Master at Gudur	1260	G.O. No. 665 W. of 12th March 1886	28	1,232	1,232	.			2	
		Total	2160	.	171	1989	1989	.				

Supg. Engineer's Office,
2nd Circle, Camp Kudumarru
19th May 1886

F.J.
25.5.86

[illegible] Buchanan, Major R.E.
Offg. Superintending Engineer,
2nd Circle

Statement showing Minor works grant required for anticipated outlay during the year 1886-87
Imperial Military and Other Services

Divisions	Minor works						Remarks
	Military	Civil Buildings			Communications	Miscellaneous public Improvement	
		Postal	Telegraph	Salt			
Bellary	1000	"	100	"	"	"	
Cuddapah	"	"	"	"	"	"	
Kurnool	"	"	"	"	"	"	

Superintending Engineer's Office 3rd Circle
Camp [illegible]
8th May 1886

Lieutt Col R.E.
Superintending Engineer 3rd Circle

To
The Chief Engineer
P.W. Department Madras

2nd Circle,

Statement showing incomplete Imperial works for 1886-87.

Statement showing Repair Grant required for anticipated outlay during the year 1886-87
Imperial Military and Other Services

Division	Repairs Military	Civil Buildings Postal	Telegraph	Salt	Communications	Miscellaneous Public Improvements	Remarks
Bellary	25,000	200	200	.	.	.	
Cuddapah	.	200	.	.	.	.	
Kurnool	.	200	.	.	.	.	

Superintending Engineers Office 3rd Circle
Camp Ramandrug
8th May 1886

Lieut Col R.E.
Superintending Engineer 3rd Circle

To The Chief Engineer
Public Works Department

From
The Superintending Engineer
3rd Circle
Ramandrug

To
The Chief Engineer
P.W. D.
Madras

Dated 8 } May 1886
Recd }

Statement showing grant required under "Imperial minor works" for 1886—87

From
The Superintending Engineer
IV Circle

Dated 11th } May 1886
Recd }

No. 142
E.W.

Imperial -

Statement of require-
-ments on account of In
-complete works for 1885-86
and for new works sanctione
but not commenced & which
are recommended for exe-
-cution 1886-87 under ——

From
The Superintending Engineer
3rd Circle

To
The Chief Engineer
P.W. Department
Madra

Dated & } May 1886
Recd }

Statement shewing a
allotment required under
Imperial Repairs for 1886-8

No. 142/3W

Abstract of requirements on account of Incomplete works for 1885-86 for new works sanctioned but not commenced & which are recommended for execution in 1886-87.

Division Item No.		Name of work	Amount of Estimate	No. & date of sanction	Past Expenditure	Balance of Estimate	Amount applied for 1886-87		Remarks
							Incomplete works	Uncommenced works	
Nilgiris	1	Bakery at Wellington	32,000	G.O. No 1838 W / 24-7-84	24,074	7,926	6,100	-	
	2	Alterations to the school Hospital attached to Lawrence Asylum	31,538	Do No 3281 W / 12-12-82	-	31,538	-	31,538	Orders received to include the work in the statement of demand in G.O. No 60 W of 7th January/86.
	3	Adding two lying-in wards to Station Hospital at Wellington	3036	Do No 1573 W / 6-7-83	-	3036	-	3,036	Considered urgent by the military authorities. Vide G.O. No 2445 W / 28-11-83
	4	Laying a pipe from the drinking water cistern to the Station Hospital at Wellington	2226	Do No 893 W / 3-6-85	-	2226	-	2226	Sanctioned for execution when funds are available.
	5	Improving & altering the Hospital & Nursery Dormitories of male & female branches, Lawrence Asylum	1,700	Do No 2370 W / 25-9-84	134	1,566	1,566	-	
	6	Constructing five bath rooms to Paymaster sergeants Quarters Wellington	895	Do No 1337 W / 21-8-83	330	565	565	-	
		Total					8,231	36,800	
West Coast	7	Improving the magazine & fixing lightning conductors to the Madras Infantry magazine at [illegible]	3,880	Do No 552 W / 3-3-86	-	3,880	-	3,880	
		C.O.					-	3,880	

62

Minor Works

				B forward	"	3880
8	Fixing iron dampers to the Oven of the Governmt Bakery at Cannanore	750	S. E Register No 13 of 84-85	92	658	658 "
9	Converting the Beer godown at Mallapuram into a Gymnasium shed	790	G.O. - 348 W / 13-2-85	"	790	" 790
10	Constructing a platform & pump for a well at the Mallapuram barracks	1110	Do No 1034 W / 9-5-85	"	1110	" 1110
11	Forming a soldiers garden at Mallapuram	220	S. E Register No 9 of 85-86	"	220	" 220
12	Converting the godowns attached to married quarters into a cook room West Hill Barracks Calicut	40	Do No 29 of 85-86	"	40	" 40
13	Deepening a well in the Cholera camping ground at Mallapuram	410	G.O. No 1403 W / 16-5-85 Do No 35 of 85-86	"	410	" 410
14	Constructing a slaughter house and a hanging shed at the West Hill Barracks Calicut	1954	G.O. No 2548 W / 9-11-85	"	1954	" 1954
15	Converting into a bakery the cook room at the West Hill Barracks Calicut	1010	S. E Register No 53 of 85-86	"	1010	" 1010
16	Improving the well below married quarters	150	Do No 2845 W / 27-11-85	"	150	" 150
17	Building an urinary for the Station Hospital at Cannanore	68	S. E No 25 of 83-84	"	68	" 68
				C. O	658	9632

West Coast

B. forward ——— 658 9632

West Coast

18 Sinking a well in the compound of station Hospital at Cannanore	700	S.E. Register No 43 of 84-85	"	700	"	700
19 Building an urinary for the plunge bath of the R.A. Barracks Cannanore	30	Do No 24 of 83-84	"	30	"	30
20 Alterations to the floor of the ovens of the Government Bakery at Cannanore	440	Do No 22 of 84-85	"	440	"	440
21 Constructing laterite drains to the Govern^t Bakery at Do	200	Do No 33 of 84-85	"	200	"	200
22 Providing a compound wall and wooden ceiling for the European Infantry cells at Cannanore	756	G.O. No $\frac{325\ W}{5\text{-}2\text{-}85}$	"	756	"	756

West Coast

23 Constructing a permanent verandah for the Quarter Master stores Native Infantry Regiment at Mangalore	630	S.E. Regr No 38 of 84-85	"	630	"	630
24 Substituting asphalte for chunam in the flooring of the wards & surgery of the Hospital attached to the N.I. Regiment Mangalore	695	Do No 39 of 84-85	"	695	"	695
25 Flooring with tar composite the N. Infantry place of arms at Mangalore	653	G.O. No $\frac{285\ W}{6\text{-}2\text{-}85}$	"	653	"	653

C. over ——— 658 13736

			B. forward				658	13736	
West Coast	26	Deepening well on cholera Hill at Malliapuram	605	"	.	605	"	605	These Estimates have been submitted to the Military authorities for countersignature
	27	Do Do Do Do	610	"	"	610	"	610	
	28	Constructing a compound wall and supplying furniture to church at Malliapuram	1370	"	"	1370	"	1370	
	29	Converting the 5 family quarters of No 2 Block at the West Hill barracks Calicut into Commissariat staff sergeants quarters & store rooms	650	G.O. No $\frac{841 W}{6-4-85}$	"	650	"	650	

Imperial Civil

30	Constructing a Post office at Kalpetti	2910	G.O. No $\frac{523 W}{16-2-83}$	.	2910	"	2910	
	Total					658	19881	

Coimbatore	31	Improvements to the Rest House at Podanur	850	G.O. No $\frac{2324 W}{7-10-85}$	73	777	777	"
	32	Constructing two cisterns to hold water for fire engines at the Remount Depot. Mataguri	1330	Do No $\frac{961 W}{23-4-85}$	200	1130	1130	"
		Total					1907	"
		Grand Total					10796	56681

65

B forward ——— 658 13736

26 Deepening well on cho-
[illegible]

Statement of Lump sum grants for Minor works and Repairs

Divisions	Amounts applied for							
	Minor works				Repairs			
	Military	Civil Buildings			Military	Civil Buildings		
		Postal	Tele-graph	Salt		Postal	Tele-graph	Salt
Nilgiri Division	"	"	"	"	25,000	1000	"	"
West Coast "	1000	200	"	"	37,700	500	"	"
Coimbatore "	"	"	"	"	4,000	600	"	"
Total	1000	200	"	"	66,700	2100	"	"

Supdg. Engineer's Office, 4th Circle,
Coimbatore 11th May 1886

Beatty, Colonel R.E.
Superintending Engineer, 4th Circle

To,
The Chief Engineer
P. W. Department

66

Statement of requirements for 1886-87 on account of Incomplete Major works of 1885-86 & New works sanctioned but not Commenced.

Division	Item No	Name of Work	Amount of Estimate	Number & date of Sanction	Past Expenditure	Balance of Estimate	Amount applied for 1886-87 for Incomplete works	Amount applied for 1886-87 for New works	Remarks
Presidency	1.	Alterations to Coast Batteries	} 14265	G.O. No 2126 of 11th Sept/85	6219	8046	8046	..	
		Balance required R.					2021		To complete the work

Madras }
C.: Supr's office }

To
The Chief Engineer

W. Hurton
Supg: Engineer C.D.

ants for Minor works and Repairs

B forward —— 658 13736

Statement of requirements for 1886-87 on account of Incomplete Major New works of 1885-86.

Division	Item No.	Name of work	Amount of Estimate	Number and date of Sanction	Past Expenditure	Balance of Estimate	Amount applied for 1886-87	Remarks
North Arcot.	1	Supplying materials for the Sanitary improvements in the Court yards of Sepoy Lines at Vellore	2110	G.O. No. 1466 W. 19/4/86.	503	1607	1607	Contingent upon a Native Infantry regiment being posted to Vellore.
Chingleput.	2	Improving the roof of the Family Quarters at Poonamallee	1157	G.O. No. 1377 W. 3/6/84	313	844	844	

No. 572

Supdg: Engineer's Office 5th Circle. Dated 11 May 1886. K.S.

To the Chief Engineer P. W. Deptt.

W. H. Walker Col. R.E.
Supdg Engineer 5th Circle

From
The Supg: Engineer 5th Circle

To
The Chief Engineer P.W.D.

dated 11th May 1886
Recd

No. 571

Statement of requirements for 1886-87 on account of incomplete Major works of 1885-86 & of New works sanctioned but not commenced.

From

The Deputy Engine

5th Circl

To

The Chief Engine

P. W. Deptt.

Dated 11th } May 1886.
Despd. }

No 572

Statement of requi-
rements for 1886-87 on
account of incomplet
Minor Irr. works of
1885-86.

Statement shewing the funds applied for in lump sums for Minor New works for anticipated outlay during 1886-87.

		Minor New Works		
Division	Military	Civil Buildings	Postal Telegraph etc.	Remarks
Presidency	(a) 7000	.	.	(a) There are many estimates sanctioned under Minor New Works awaiting funds.
Chingleput	(c) 5000	.	.	(c) There are several works sanctioned which cannot be commenced for want of funds.
South Arcot	.	.	.	
North Arcot	(d) 3500	500	.	(d) There are several works sanctioned which cannot be executed for want of funds.

Supg Engrs Office
5th Circle.
Dated 11 May 1886.

No 57

To
The Chief Engineer
P. W. Department.

K.S.

W Hunter.
Col R.E.
Superintending Engineer
5th Circle

From

The Supdg Engineer
3rd Circle.

To

The Chief Engineer
P. W. Deptt

Dated 11 } May 1886.
Recd }

No 57

Statement showing the Funds applied for in Lump Sums for Minor New Works for anticipated outlay during 1886-87.

Statement showing the Funds applied for in lump sums for Repairs for anticipated outlay during 1886-87.

Divisions	Repairs				Remarks
	Military	Civil Buildings			
		Public	[illegible]	[illegible]	
Presidency	(a) 75,000	.	.	.	(a) Includes Rs 26,000 on account of Compensation of House rent for Military and Medical Subordinates and Rs 16,000 for Municipal tax on Military Buildings & Rs 9,000 for Special Repairs as per G.O. No 1052 W. dated 30th April 1886.
Chingleput	20,000	.	.	.	
South Arcot	200	200	.	.	
North Arcot	1,000	500	.	.	

Supdg Engr's office
5th Circle

No 574

To the Chief Engineer

W. Hutton

Ch/ [illegible]

From

The Supdg Engineer
5th Circle

To

The Chief Engineer
P. W. Deptt

Dated 11th }
Recd. } May 1886.

No 574

Statement showing the funds applied for in lump sums for Repairs for anticipated outlay during 1886-87.

No. 952

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Chepauk, 7 June 1886.

From

THE SUPERINTENDING ENGINEER,
V CIRCLE,

To

THE Chief Engineer
P. W. Department.

SIR,

Enclosures

The Executive Engineer Presidency Division reports that a sum of Rs 100 is sufficient to complete the Fort Armament works and that the balance viz 2864 from the Budget grant of Rs 2964 of the current official year is not required. I have therefore the honor to surrender the Rs 2864 for transfer elsewhere.

2. The Executive Engineer requests that a sum of Rs 2031 may be re-appropriated to the Coast Batteries from the Rs 2864 surrendered from the Fort Armament grant.

but

but a Sum of Rs 2021 has been asked for the Coast batteries in my Statement of Demands for incomplete works of 1885-86 No 671 dated 11th May 1886.

I have the honor to be
Sir,
Your Most Obdt Servant
W. Thornton Colonel
Superintending Engineer
3d Circle

From [illegible]

THE SUPERINTENDING ENGINEER,

V CIRCLE,

To

THE Chief Engineer
P.W. Department

Dated 7 June 1886
Recd.

ENCLOSURES —

No. 952

Surrender of Funds.

Reports certain — for transfer elsewhere under Imperial Military P.W.

R

15-6-86 [illegible]

SUPERINTENDING ENGINEER'S OFFICE,
5TH CIRCLE, MADRAS,
~~Chepauk~~, 7th June 1886

No. 964

FROM

THE SUPERINTENDING ENGINEER,
5TH CIRCLE,

To

THE Chief Engineer
P.W. Department.

SIR,

Enclosures.

I have the honor to request that you will be so good as to appropriate a sum of Rs 22-0-0 under Imperial Civil Buildings Telegraph Repairs for the North Arcot Division for carrying out repairs to the thatched roof of the Telegraph Office at Vellore requisitioned for by the Superintendent of Telegraphs Bangalore Division.

I have the honor to be
Sir,
Your most Obed. Servant,
W Wetherton
Col. R.E.
Superintending Engineer

From [illegible]

The Superintending Engineer,

Circle,

To

The Chief Engineer
P.W. Department

Dated 9th June 1886
Recd 10 June

No. 964

Telegraph Office
at Vellore

Requests funds
for appropriation under
Imperial Civil Buildings
Telegraph Office Madras
Dn for carrying out
repairs to the thatched
roof of the —

Appendix to G. O. No. [illegible] W.D. 3rd June 1886.

A. Statement showing amounts applied for and those granted under Imperial Military and Civil Works 1

—	Amounts applied for								Amounts granted								Remarks
	Minor Works				Repairs				Minor Works				Repairs				
	Military	Civil Works			Military	Civil Works			Military	Civil Works			Military	Civil Works			
		Postal	Telegraph	Salt		Postal	Telegraph	Salt		Postal	Telegraph	Salt		Postal	Telegraph	Salt	
Ganjam	-	-	-	-	-	150	-	-	-	-	-	-	-	150	-	-	
Rushikulya at	500	-	-	-	1000	350	-	-	-	-	-	-	1000	350	-	-	
Vizagapatam	700	100	-	-	2,000	500	500	-	-	-	-	-	2,000	300	500	-	
Eastern Godavari	-	-	-	-	400	300	300	-	-	-	-	-	400	300	300	-	
Central — do —	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Western — do —	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Eastern Kistna	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Western — do —	-	-	-	-	-	150	250	-	-	-	-	-	-	150	250	-	
Gudivada	-	-	-	-	-	-	300	-	-	-	-	-	-	-	300	-	
Nellore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ganjam Project	-	-	-	-	-	388	-	-	-	-	-	-	-	300	-	-	
Buckingham Canal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bellary	1000	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cuddapah	-	-	-	-	25,000	200	200	-	-	-	-	-	25,000	200	200	-	
Kurnool	-	-	-	-	-	200	-	-	-	-	-	-	-	200	-	-	
Nilgiri	-	-	-	-	-	200	-	-	-	-	-	-	-	200	-	-	
Coimbatore	-	-	-	-	25,000	1000	-	-	-	-	-	-	25,000	800	-	-	
[illegible]	-	-	-	-	4,000	600	-	-	-	-	-	-	4,000	400	-	-	
West Coast	1,000	200	-	-	37,000	500	-	-	-	-	-	-	37,000	500	-	-	
North Arcot	3,500	500	„	„	3,000	500	42	„	„	„	„	„	3,000	350	42	„	
South Arcot	„	—	„	„	200	200	„	„	„	„	„	„	200	200	„	„	
Chingleput	5,000	„	„	„	30,000	„	„	„	„	„	„	„	30,000	„	„	„	
Presidency	7,000	„	„	„	1,75,000	„	„	„	„	„	„	„	1,75,000	„	„	„	
Tanjore	„	„	„	„	600	200	„	„	„	„	„	„	600	200	„	„	
Trichinopoly	200	„	„	„	5,000	„	„	„	„	„	„	„	5,000	„	„	„	
Negapatam	„	„	„	„	640	„	„	„	„	„	„	„	640	„	„	„	
Madura	„	„	„	„	180	100	„	„	„	„	„	„	180	100	„	„	
Ramnad	„	„	„	„	240	„	„	„	„	„	„	„	240	„	„	„	
Tinnevelly	„	„	„	„	720	300	100	„	„	„	„	„	720	300	100	„	
Consg. Architect	„	„	„	„	„	„	„	„	„	„	„	„	„	„	„	„	
Officers commanding Divisions & Districts	„	„	„	„	„	„	„	„	7937	„	„	„	„	„	„	„	
Director General of Post Office	„	„	„	„	„	„	„	„	„	6,816	„	„	„	„	„	„	
Director General of Telegraphs	„	„	„	„	„	„	„	„	„	„	698	„	„	„	„	„	
Reserve with the Govt.	„	„	„	„	„	„	„	„	„	„	„	„	475	„	3,308	„	
Total	18,900	800	100	„	309,980	5,838	1,692	„	~~[illegible]~~ 7937	6,816	698	„	3,10,465	5,000	5,000		

B. — Statement of requirements on account of Imperial Incomplete works for 1885-86 and of New Works sanctioned but not yet commenced

Division	Item No.	Name of Work	Amount of estimate	Number and date of sanction	Past expenditure	Balance of estimate	Amount applied for 1886-87		Amount allotted		Item No.	Remarks
							For Incomplete Works	For New Works	For Incomplete Works	For New Works		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Imperial Civil Works Minor Works										
Kistna Western	1	Post Office at [illegible]	900	G.O. No. [illegible] 1st July 1880	160	787	787	..	787	[illegible]	1	From minor works grant
Nellore	2	Quarters for a postmaster at [illegible]	1,260	G.O. No. 1804 W d/ 2nd November	28	1,232	1,232	..	1,232		2	Do — Do — Do
Tanjore	3	Extending post office at Kumbakonam for the accommodation of Telegraph office	..					1,000	..	..	3	No funds available. Estimate [illegible]
Madura	4	Constructing a 6th class post office at Batlagundu	1,340	G.O. No. [illegible]	160	1,178	1,178	..	1,178	..	4	From minor works grant
Ramnad	5	Additions to Post office building, Ramnad	780	Do — Do		780		780	..	..	..	[illegible] No funds available [illegible]
		Total			..	..	3,104	1,780	[illegible]			
		Major Works.										
Godavari Eastern	1	Constructing quarters for telegraph signallers at Cocanada	34,135	G.O. No. 2099 W d/ 25th August 1884	32,311	1,824	1,824	..	1,824	..	1	From minor works grant
Do	2	Improvements to the telegraph office at Cocanada	4,000	G.O. No. 1084 W d/ 8th May 1885	2,889	1,111	1,111	..	1,111	..	2	Do — Do — Do
West Coast	3	Constructing a post office at Kalpathi	2,910	G.O. No. 523 W d/ 16th Feby 1883	..	2,910	..	2,910	..		3	No funds available
Architect	4	Consg. a telegraph office at Madras	3,19,969	G.O. No. 2789 W d/ 21st Novr. 1885	3,17,602	2,367	2,367	..	2,367	..	4	From minor works grant
Do	5	Constructing a post office at Madras	3,72,125	Do	3,63,248	8,877	8,877	..	..	..	5	Rs 9,000 were provided in G.O. No. 931 W d/ 5th April 1886.
		Total			..	..	14,179	2,910	5,302	..		
		Military Minor Works.										
Rushikulya	1	School room for a regiment of Madras Infantry at Berhampore	1,390	G.O. No. 3536 W d/ 10th December 1883	..	1,390	..	1,390		1,390	1	From minor works grant
Vizagapatam	2	Additions to regimental hospital of the 16th M. N. I. at Vizianagrum	515	G.O. No. 179 W d/ 21st Jany / 84	..	515	..	515	..	..	2	No funds available

B. — Statement of requirements on account of Imperial Incomplete Works for 1885-86 and of New Works sanctioned but not yet commenced

Division	Item No.	Name of Work	Amount of Estimate	Number and date of sanction	Cash expenditure	Balance of Estimate	Amount applied for 1886-87		Amount allotted		Item No.	Remarks
							For Incomplete Works	For New Works	For Incomplete Works	For New Works		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Imperial Military Minor Works										
Vizagapatam	3	Improvements to the regimental hospital of the 11th M. N. I. at Vizianagram	525	G.O. No. [illegible] [illegible] July [illegible]	-	525	-	525	-	-	3	No funds available
Do	4	Const. a magazine for the [illegible] at [illegible]	1530	[illegible]	-	1530	-	1530	-	-	4	Do — Do — Do
Bellary	5	Compound wall for the quarters of the Army Hospital Corps at Bellary	1268	G.O. No. 7705 W [illegible] March [illegible]	-	1268	-	1268	-	-	5	Do — Do — Do
Do	6	Compound wall with 2 gates to enclose the Female Hospital attached to the Station Hospital at Bellary	1300	G.O. No. 5562 W [illegible] Dec 1883	-	1300	-	1300	-	-	6	Do — Do — Do
Do	7	Compound wall for the medical subordinates' quarters at the Station Hospital at Bellary	535	G.O. No. [illegible] W 6 March 1884	-	535	-	535	-	-	7	Do — Do — Do
Do	8	Enlarging a well in the cantonment at Bellary	854	G.O. No. 2749 W 9th Decr 1885	-	854	-	854	-	-	8	Do — Do — Do
Do	9	Dismantling and reroofing with Mangalore tiles the coffee shop of the Royal Artillery at Bellary	1063	G.O. No. 157 W 25th Jany 1886	-	1063	-	1063	-	1063	9	From minor works grant ~~Do — Do — Do~~
Nilgiri	10	Laying a pipe from the drinking water cistern to the station hospital at Wellington	2226	G.O. No. 893 W [illegible] April [illegible]	-	2226	-	2226	-	-	10	No funds available Do — Do — Do
Do	11	Improving and altering the Hospital Nursery Dormitories of male and female branches Lawrence Asylum, Ootacamund	1700	G.O. No. 2370 W [illegible] Septr [illegible]	134	1566	[illegible]	-	1566	-	11	From minor works grant

B. – Statement of requirements on account of Imperial Incomplete Works for 1886-87 and of New Works sanctioned but not yet [illegible]

Division	Item No	Name of Work	Amount of Estimate	Number and date of sanction	Past expenditure	Balance of Estimate	Amount required for 1886-87		Amount allotted		Item No	Remarks
							Incomplete Works	For New Works	Incomplete Works	For New Works		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Imperial Military Minor Works										
Nilgiri	12	Constructing five bath rooms to Paymaster Sergeants quarters at Wellington	876	G.O. [illegible] 4th Sept 1885	221	655	655	-	655	-	12	[illegible]
West Coast	13	Fixing iron dampers to the oven of the Govt Bakery at Cannanore	-		72	658	658	-	658		13	Do — Do — Do
Do	14	Converting the beer godown at Malapuram into a gymnasium shed	790	G.O. [illegible] 13 Feby 1885	-	790	-	790	-	-	14	No funds available
Do	15	Constructing a platform and pumps for a well at the Malapuram barracks	1110	G.O. [illegible]	-	1110	-	1110			15	Do — Do — Do
West Coast	16	Forming a soldier's garden at Malapuram	220	[illegible]	-	220	-	220	"	-	16	No funds available
Do	17	Converting into a cook room the godown attached to the married quarters at the West Hill Barracks Calicut	40	Do [illegible]	-	40	-	40	-	-	17	Do — Do
Do	18	Deepening a well in the cholera camping ground at Malapuram	210	G.O. [illegible] [illegible]	-	210	-	210	-	-	18	Do — Do
Do	19	Constructing a slaughter house and hanging shed at the West Hill Barracks, Calicut	1900	G.O. [illegible]	-	1900	-	1900	-	-	19	Do — Do
Do	20	Converting into a bakery the cook room at the West Hill Barracks Calicut	1000	G.O. [illegible]	-	1000	-	1000	-	-	20	Do — Do
Do	21	Improving the well below the married quarters at [illegible]	100	[illegible]	-	100	-	100			21	Do — Do
Do	[illegible]	Building an [illegible] for the station hospital at Cannanore	88	[illegible]	-	88	-	88			22	Do — Do

3. – Statement of requirements on account of Imperial Incomplete Works for 1885-86 and of New Works sanctioned but not yet commence

Division	Item No.	Name of Work	Amount of Estimate	Number and date of sanction	Past expenditure	Balance of Estimate	Amount applied for 1886-87		Amount allotted		Item No.	Remarks
							For Incomplete Works	For New Works	For Incomplete Works	For New Works		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Imperial Military Minor Works										
West Coast	23	Sinking a well in the compound of the station hospital at Cannanore	700	G.O. No. 1778 W d/21st July 1884	-	700	-	700	-	-	23	No funds available
Do	24	Building an urinary for the plunge bath of the Royal Artillery Guards at Cannanore	30	Sites Reports 26 of 1883-84	-	30	-	30	-	-	24	Do — Do
Do	25	Alterations to the floor of the ovens of the Govt Bakery at Cannanore	440	Do No 229 of 1884	-	440	-	440	-	-	25	Do — Do
Do	26	Constructing laterite drains to the Govt Bakery at Cannanore	200	Do No [illegible]	-	200	-	200	-	-	26	Do — Do
Do	27	Providing a compound wall and wooden ceiling for the European Infantry cells at Cannanore	751	F.G. No. 34 [illegible] 5th Feby 1885								
Do	28	Constructing a permanent verandah for the Quarter Master stores N.I. Regiment at Mangalore	630	G.O. No. 1848 W d/18th July 1884	-	630	-	630	-	-	28	Do — Do
Do	29	Substituting asphalte for chunam in the flooring of the wards and surgery of the hospital attached to the N.I. Regiment at Mangalore	695	G.O. No. 1847 W d/12th July /84	-	695	-	695	-	-	29	Do — Do
Do	30	Flooring with tar composite the N.I. place of arms at Mangalore	653	G.O. No. 235 W d/5th Feby 1885	-	653	-	653	-	-	30	Do — Do
Do	31	Deepening wells on cholera hills at Malapuram	-	..	-	-	-	100	-	-	31	Do — Do Estimate is awaited
Do	32	Do — Do	-	..	-	-	-	110	-	-	32	Do — Do — Do
Do	33	Constructing a compound wall and supplying furniture to the church at Malapuram	-					1,250			33	Do — Do — Do

B. – Statement of requirements on account of Imperial Incomplete Works for 1886-87 and of New Works sanctioned but not yet commenced

Division	Item No.	Name of Work	Amount of Estimate	Number and date of sanction	Past expenditure	Balance of Estimate	Amount applied for 1886-87		Amount allotted		Item No.	Remarks
							For Incomplete Works	For New Works	For Incomplete Works	For New Works		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Imperial Military Minor Works										
West Coast	34	Converting the 6 family quarters of the 2 Block at the West Hill Barracks, Calicut into a Commissariat Staff Sergeants quarters and store rooms	680	G.O. No [illegible] 1st April 1886	-	680	-	680	-	-	34	No funds available
Coimbatore	35	Improvements to the rest house at Podanur	1190	G.O. No 4372 d/9 June 1886	73	1117	777	-	777	-	35	From minor work grant
Do	36	Constructing two cisterns to hold water for fire engines at the Remount Depot, Mettupalaiyam	1330	G.O. No 9614 d/25 April 1885	200	1130	1130	-	1130	-	36	Do — Do
North Arcot	37	Supplying materials for the sanitary improvements to the [illegible] of sepoy lines at Vellore	2,110	G.O. No [illegible] 18 Jany 1886	503	1,607	1,607	-	1,607		37	Do
~~Chingleput~~		~~Improving the roof of family quarters at Poonamallee~~	1157	G.O. No 1377W d/3 June 1884		888	-					
		Total			-	-	6,303 ~~2167~~	24,395	6,303	2,453		
		Imperial Military Major Works										
Vizagapatam	1	Constructing a store shed for the 16th Regiment, M. N. I. at Vizianagram	3,480	G.O. No 2628W d/27 Octr 1886	-	3,480	-	3,480	-	-	1	No funds available
Nilgiri	2	Bakery at Wellington	32,000	G.O. No [illegible] 29 July 1884	24,074	7,926	600	-	600	-	2	From minor works grant
Do	3	Alterations to the school hospital attached to the Lawrence Asylum, Ootacamund	31,538	G.O. No 3228W d/12 Decr 1882	-	31,538	-	31,538	-	-	3	No funds available
Do	4	Adding two lying-in wards to the station hospital at Wellington	2,836	G.O. No 1073W d/6 July 1880	-	2,836	-	2,836	-	-	4	The amount applied for has been provided in the Military Budget for 1886-87 Item No 2, Class B Works

Incomplete Works for 1886-87 and of New Works sanctioned but not yet commenced

B.– Statement of requirements on account of Imperial Incomplete Works for 1885-86 and of New Works sanctioned but not yet commenced

Division	Item No.	Name of Work	Amount of Estimate	Number and date of Sanction	Past expenditure	Balance of Estimate	Amount applied for 1886-87		Amount allotted		Item No.	Remarks
							For Incomplete Works	For New Works	For Incomplete Works	For New Works		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Imperial Military Major Works										
West Coast	5	Improving and fixing lightning conductors to the Madras Infantry Magazine at Quilon	2880	G.O. No. [illegible] d/23rd March 86	-	2880	-	2880	-	2880	5	From minor works grant
Do	6	Providing shelves and racks for the storage of ammunition in the double magazine and treasure room in the Cannanore Fort	2590	G.O. No. 2250 W d/24th Sept 84 [illegible]	2409	181	1172	-	1170	-	6	Do — Do — Do
Presidency	7	Alterations to the Coast Batteries at Madras	[illegible]	G.O. No. [illegible] [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	7	Do Do Do [illegible] provided in the budget
		Total										

No. 1575 W. 84

E. I. Form No. 22. PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 23rd June 1886

READ the following:—

From the Supdg. Engr. I Circle – dated 3rd June 1886 – No. 470 C. D.
——— Do ——— II Circle – dated 19th May 1886 – (1 statement)
——— Do ——— III Circle – dated 8th May 1886 – (2 statements)
——— Do ——— IV Circle – dated 11th May 1886 – No. 142 C. W.
——— Do ——— V Circle – dated ——— Do ——— No. 571
——— Do ——— Do ——— Do ——— No. 572
——— Do ——— Do ——— Do ——— No. 573
——— Do ——— Do ——— Do ——— No. 574
——— Do ——— Do – dated 7th June 1886 – No. 952
——— Do ——— Do ——— Do ——— No. 964
——— Do ——— VI Circle dated 22nd May 1886 No. 227 M. D.
Consg. Architect to Govt. ——— Do ——— No. 191

With the papers read above, the Superintending Engineers and the Consulting Architect submit statements of the estimated requirements, under "Imperial Military" and "Civil works", in lump sums, against each division for minor works and repairs, ~~and Tools and Plant~~, and, in detail, for incomplete works of 1885-86, and for new works proposed to be undertaken in the current official year under Imperial Military; the demands against original works amount to —

For minor works &
Improvements 18,900
incomplete minor works 2,307
do. Major works 98,97
new minor works 49,50
new major works 49,524

Total 1,90,523

and the budget grant for minor works amounts to only Rs 7,000. The Superintending Engineer I Circle has recommended a sum of Rs 7,766 from the ordinary grant for Armament in Fort St. George, it will be assumed in anticipation of sanction by the Govt. of India, and added to the grant for minor works, which with the Rs 7,000 of that amount ~~provided~~, Rs 5,894 for incomplete works, and Rs 1,837 for ~~two~~ the new works considered urgent, have been allotted; and the balance, Rs 7,787, has been placed in lump

* Vide G.O. No. 850 of 26th May/96
~~[illegible]~~ No. 850 of 25th May/96
& Mil. No. 1148 of 17th May/96

sums at the disposal of officers commanding divisions and districts, to whom Superintending Engineers will apply for funds required to meet outlay ~~over~~ on such works as are indispensably necessary to be carried out during the year.

3. The demands under Repairs amount to Rs 20,775 against the budget grant of Rs 21,465. The necessary allotment has been made as will be found in statement A. The allotment to the Presidency division includes provision for re-roofing the mess house in Fort Saint George, and for the Commissariat granary buildings on the beach at Madras.

4. A sum of Rs 846 was applied for by the Supdg Engineer V Circle) for

for improving the roof of
family quarters Poonamallee;
to the work
but as the sanction was
ordered to be cancelled,
vide G.O. No. 586 W dated
12th March 1886, no appro-
priation is necessary.

5. [illegible] under Imperial
Civil works, the demands
against original works
total amount to—

For minor works lump sum } 800
" incomplete [illegible] works 2,000
" [illegible] major works [illegible]
[illegible] for
" new major works 5,9[illegible]

Total 14,[illegible]

of which only Rs 2,086 have
been allotted for incomplete minor
works. The balance of the
budget grant, ~~[illegible]~~
for minor works, after the
above allotment, is Rs 6,000,
[illegible]
~~and it~~ is placed at the
disposal of the Director
General of Post offices,
who will allot the requisite
funds for works to be
undertaken during the

to which must be added a
sum of Rs 2,000 transferred
from the grant for a new
Post Office at [illegible]

year.

6. The demands against
original works telegraphs
amount to—

For minor works lump sum } 100
" incomplete [illegible] 5,000
" new [illegible] works 5,000

Total 10,100

7. Funds have been
allotted for all the incomplete
works to the extent of Rs
5,000; and the balance of
the budget provision ~~for~~
~~[illegible]~~ for minor works
has been placed at the
disposal of the Director
General of Telegraphs,
as shown in statement A.

8. The allotment under
repairs (Postal & Telegraphs)
will be found in statement
A. The demands of Supg.
Engineers under Postal
amount to Rs 5,838, but
have been reduced
to Rs 5,000 to bring the
same within the provision
in the budget.

Ordered

9 Ordered that copies
of these proceedings be
forwarded to the Govt of
India in the Military
and Public Works Depart-
ments

Forwarded

To
Supdg. Engineers &
The Consg. Architect to Govt
" Examiner of the P.W. Accounts
" Director General of Post Office
" Director General of Telegraphs
" Military Department

3561

Govt. of (1886) Madras.

PUBLIC WORKS.

1886-5-3

23 June 1595 W R

1596 W W

Imperial
military & Civil
Works

18/16 86

Orders on statements
of estimated requirements
in 1886-87 under
for incomplete &
minor works & repairs
~~& Tools & Plant~~

Imperial mily & Civil works.

Copies of orders on statements of
estimated requirements in 1886-87
under — for incomplete & minor works
& repairs, ~~Tools & Plant~~ [illegible]
[illegible] Govt of India in the reply [illegible]