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Govt. 9624-25

Date - 6-10-1887

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9624-25-1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

From Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 8th September 1887, No. 3176 A.

I have the honor, by order, to forward for submission to Government the schedules * of requirements on military works in connection with the Imperial budget estimate of the Public Works Department for the year 1888-89.

* Major works, classes A, B and C.

2. The major works have been classified in the same way as last year, only those being entered in class A which this office has reason to know will require allotments in the coming year.

3. Of the class A works the following seem to require some remarks :—

I. *Public buildings for a regiment, Madras Infantry, at Bangalore.*—The buildings now in course of erection being designed for an ordinary Madras Infantry Regiment are in many respects inadequate to the wants of a Pioneer Regiment, which will in future permanently occupy the lines in question. Details of the extra requirements for which it is proposed to provide shall be submitted to Government in due course.

II. *Magazines, Fort St. George.*—This work has been entered on the assumption that Government will approve the proposals recently submitted for providing storage space for powder in a portion of the St. Thomé curtain.

4. The only works under class B which have not appeared in lists of previous years and therefore require notice are :—

I. *A new barrack for 30 men at Calicut.*—This work is not wanted in connection with the increase of the garrison at that station at one time contemplated, but because recent examination of the existing barracks has shown that they do not contain the proper space for the present garrison.

II. *New saddle-room for British Cavalry, Bangalore.*—This work is essential to provide for the extra saddles which a regiment, British Cavalry, on the increased strength is in possession of.

III. *Works in connection with extra accommodation for troops, Fort St. George.*—Proposals have again been submitted to Government for the provision of the necessary accommodation by the removal out of the Fort of the Military Accounts and Accountant-General's offices; whatever decision may be come to as regards these buildings, certain other suggestions for finding extra space will have to be adopted, and funds for these must be provided.

5. Many works shown in the class C list are certainly as important as those in class B, though the limit necessarily placed on the latter excludes them from it. If therefore the Government of India makes an unusually liberal grant in the coming year, it can be taken full advantage of.

6. In accordance with the precedent of last year, lists D and E of minor works to be removed from and added to the list of that class of works as it stood in 1886-87 are also submitted; after all that has been urged in past years and in recent correspondence regarding the necessity of specially large grants for this class of works, it will be unnecessary now to say anything on the subject to their claims.

CLASS A.

WORKS commenced, for completion of which grants are required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				Rs.	
Bangalore division.	Bangalore ...	1	Public buildings, Madras Infantry Regiment.—Additions, &c., to—for a Pioneer Regiment.	12,000	
Ceded districts ...	Bellary ...	2	Gun-shed for Royal Artillery.	8,957	
Do. ...	Do. ...	3	Staff Sergeants' quarters, Ordnance Department.	10,000	
Eastern district...	Fort St. George.	4	Magazines	33,000	
Do. ...	Vellore ...	5	Draw-bridge and gate to Fort.	2,867	
Southern district.	Wellington ...	6	Quarters for three Apothecaries.	5,400	

OOTACAMUND,
8th September 1887.

(Signed) E. FAUNCE, Brigdr.-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.
				Rs.	
Bangalore division.	Bangalore ...	1	Public buildings for a Madras Cavalry Regiment.	15,000	Item 6, class B, budget of 1887-88.
Southern district...	Calicut ...	2	A new barrack with subsidiary buildings for 30 men.	20,000	
Eastern district ...	Poonamallee ...	3	Improving old barracks	5,000	Item 31, class C, budget of 1887-88.
Do. ...	Fort St. George.	4	Remodelling drainage	10,000	Item 14, class C, budget of 1887-88.
Do. ...	Do. ...	5	Facing enceinte with Portland cement.	5,000	Item 54, class C, budget of 1887-88.
Do. ...	Madras ...	6	Shed, Camp Equipage Depôt ...	6,955	Item 61, class C, budget of 1887-88.
Southern district...	Cuddalore ...	7	Transport sheds	3,000	Item 44, class C, budget of 1887-88.
Do. ...	Trichinopoly ...	8	Store-rooms and workshop, &c., for 4th Pioneers.	4,000	Item 44, class C, budget of 1887-88.
Eastern district ...	Madras ...	9	Constructing four latrines, two for males and two for females, Purasawalkar lines.	2,000	Item 30, class C, budget of 1887-88.
Bangalore division.	Bangalore ...	10	New saddle-room, British Cavalry ...	4,000	
Eastern district ...	Fort St. George.	11	Sundry works in connection with extra accommodation, British Infantry and Royal Artillery.	20,000	

OOTACAMUND,
8th September 1887.

(Signed) E. FAUNCE, Brigdr.-General,
Quartermaster-General.

2624-25
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CLASS C.

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

Command.	Station.	Item No.	Work.	Cost.
				Rs.
Bangalore Division.	Bangalore ...	1	Quarters for schoolmaster and schoolmistress, Royal Artillery	10,240
	Do. ...	2	Quarters for a Conductor, Transport Department.	5,800
	Do. ...	3	12th Lancers.—New orderly room or conversion of Quartermaster's stores into orderly room and stores	6,500
	Do. ...	4	Transport Department.—Quarters for an Ambulance Sergeant near Cattle lines	3,000
	Do. ...	5	Battery office for Royal Horse Artillery ...	3,700
	Do. ...	6	Buildings for Wheelers' shop, Royal Horse Artillery	3,100
	Do. ...	7	Drainage of Royal Horse Artillery grass-cutters' lines at Ulsoor and preventing the fouling of the adjacent nullah	2,846
	Do. ...	8	Drainage, British Infantry Barracks	8,000
	Do. ...	9	Quarters for Senior Apothecary, North Station Hospital	5,300
	Do. ...	10	Quarters for Assistant Apothecary, North Station Hospital	4,773
Southern District.	Wellington ...	11	2nd Royal Fusiliers' gymnasium	10,000
	Mallápuram ...	12	Converting Mallápuram into a fortified station ...	5,000
	Do. ...	13	Constructing a cattle-shed for the Commissariat Department	4,000
	Ootacamund ...	14	Water-supply, Lawrence Asylum	7,000
Ceded Districts.	Bellary ...	15	Infectious-disease ward and cook-house, station hospital	6,140
	Do. ...	16	Alterations and additions to military prison and adjoining building	11,260
	Do. ...	17	Swimming bath for British Infantry	7,644
	Do. ...	18	Quarters for Bandmaster, British Infantry Regiment	3,520
	Do. ...	19	Quarters for schoolmaster, British Infantry Regiment	2,950
	Do. ...	20	Quarters for schoolmistress, British Infantry Regiment	2,950
	Do. ...	21	Armourers' shop for the Arsenal	4,650
	Do. ...	22	Converting the old Regimental Hospital now used as a Government school into quarters for nine Warrant Officers, Ordnance Department.	20,380
Eastern District.	Fort St. George.	23	Repairs to floors of B, C and D blocks, family quarters	10,070
	Do. ...	24	Demolition of Wallajah ravelin and two lunettes	7,426
	Do. ...	25	Constructing a draw-bridge at north gate ...	2,680
	Madras ...	26	Lines for transport attendants	48,000
	Do. ...	27	Workshops and sheds for carts and doolies, &c., Transport Department	40,680
	Do. ...	28	Extra accommodation as store-rooms in the Gun Carriage Factory	6,000
	Do. ...	29	Quarters for a Conductor, Commissariat Department	4,000
	Do. ...	30	Quarters for station butcher at Guindy attached to slaughter-house	4,740
	Do. ...	31	Constructing coach-houses and stables for the use of officers in Fort St. George	15,770

Works of less urgency not yet commenced, for which also grants are required—*cont.*

Command.	Station.	Item No.	Work.	Cost.
				Rs.
Eastern District—*cont.*	Madras ...	32	Flushing drains of Native Infantry lines at Rayapuram	4,300
	Saint Thomas' Mount.	33	A wheeler and collar makers' shop for the west barracks	5,660
	Do. ...	34	Sergeants' mess for east barracks	6,000
	Do. ...	35	Quarters for three medical subordinates attached to the station hospital	8,000
	Do. ...	36	Quarters for the head-quarters staff, Royal Artillery	12,000
	Do. ...	37	General improvements to the drains of the cantonments	10,000
	Do. ...	38	Battery office for Fylst Royal Artillery, east barracks	5,000
	Do. ...	39	Raising roof of harness-room, Troop lines ...	4,200
	Do. ...	40	Wooden-shed at the proof range	2,820
	Do. ...	41	Converting the disused gun-shed between the north barracks and main guard into a coffee-shop, recreation-room and library	2,520
	Pallávaram ...	42	One mortuary room for each of the three hospitals, Nos. 1 to 3	3,000
	Do. ...	43	Magazine for Madras Infantry Regiment on standard plan	4,500
	Do. ...	44	Armourers' shop for Madras Infantry Regiment.	2,880
	Poonamallee ...	45	Warrant Officers' quarters	3,500
	Do. ...	46	Two Staff Sergeants' quarters, first class ...	6,000
	Do. ...	47	Coffee-shop	9,000
	Vizianagrum ...	48	Regimental store-room for Native Infantry including storage for camp equipage	2,480
	Madras ...	49	Constructing a wheat godown at Teynampet ...	5,950
	Do. ...	50	Providing sun-shades to all exposed doors and windows in the Ordnance Lines	4,160
Belgaum District.	Mangalore ...	51	Providing drains for the lines of the Native Infantry	11,710
			Total ...	3,92,799

OOTACAMUND,
8th September 1887.

(Signed) E. FAUNCE, Brigadier-General,
Quartermaster-General.

Office note from the Examiner of Public Works Accounts, dated Madras, 16th September 1887, No. 545.

ORDER—dated 6th October 1887, No. 2624 W., Public Works.

Ordered that the schedule of requirements, under Imperial Military, for 1888-89, be forwarded to the Government of India in the Military Department.

2. With reference to paragraph 4 of G.O., No. 2077 W., dated 4th August 1887, a sum of Rs. 15,300, being the average of the grants for incomplete major works for the last five years, is entered as a reserve with the Government for distribution when the demands on account of incomplete major works of the current official year are notified.

3. The Superintending Engineers concerned will submit, with the least possible delay, plans and estimates for the unsanctioned works for which funds are applied for in the schedule.

(Here enter No. 2625 W., dated 6th October 1887.)

(True Extract.)

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

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

LETTER—to the Secretary to the Government of India, Military Department, dated Ootacamund, 6th October 1887, No. 2625 W.

In forwarding herewith the Proceedings of the Government of Madras, No. 2624 W., dated 6th October 1887, with the schedule of demands under Imperial Military for 1888-89, I am directed to solicit the special attention of the Government of India to the Proceedings of this Government forwarded with endorsement No. 2078 W., dated 4th August 1887, and to express a hope that a very liberal grant may be assigned under this service for the reasons already brought to notice.

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

Exd. J. Moses.
Spare Copies

GENERAL ACCOUNT.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated October, 6th.

Read. *Encl.*

G.O., 6th Oct. 1887, Nos. 2624, 2625 W.

OCTOBER.

Military Works

The schedules of requirements on account of — in the Madras Presidency for 1888-89, forwarded to the Government of India with remarks.

Appendix to G.O., No. 2624 W., dated 6th October 1887.

BUILDINGS AND ROADS.

SCHEDULE of the probable requirements of the Madras Presidency on account of Military Works for 1888-89.

Head of classification.	Executive Division.	Locality.	Item No.	Projects and works.	Class.	Original Works.						Repairs.	Estab-lishments.	Tools and plant.	Stores and petty.	Grants-in-Aid.	Remarks.
						Major works.			Minor works.	Total.							
						Works in progress.	New works.	Total.									
						Rs.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	
(1) Accommodation for Troops—Buildings for European Troops in the Plains—Permanent.	Bellary	Bellary	1	Garrison for Royal Artillery.	A	8,957	..	..	..	..		..	..	..	..	..	Estimate is awaited. Rs. 2,070 were provided in connection with G.O. (Ms.) No. 2484 W., dated 3rd June 1887.
	Nilgiri	Wellington.	2	Quarters for three Apothecaries.	A	6,490	..	..	..	..		..	..	..	..	..	Estimate is under revision. Rs. 10,000 allotted in the current year—vide Item No. 7, class B works, budget of 1887-88. Estimate is awaited. Item No. 10, class C works, budget of 1887-88.
	West Coast.	Calicut	3	A new barrack with subsidiary buildings for 50 men.	B	..	20,000	..	..	..		..	..	..	..	..	Estimate is awaited. Item No. 21, class C works, budget of 1887-88.
	Chingleput Presidency.	Poonamallee	4	Improving the old barracks.	B	..	5,000	..	..	..		..	..	..	..	..	Estimate is awaited. Item No. 11, class C works, budget of 1887-88.
		Fort St. George.	5	Remodelling the drainage.	B	..	10,000	..	..	..		..	..	..	..	..	Estimate is awaited.
	Do.	Do.	6	Sundry works in connection with accommodation, British Infantry and Royal Artillery.	B	..	20,000	..	..	..		..	..	..	..	..	Do.
	Do.	Bangalore	7	New saddle room, British Cavalry.	B	..	4,500	..	..	..		..	..	..	..	..	Estimate of Rs. 10,240 was submitted in G.O., No. 2484, W., dated 20th September 1886. Item No. 17, class C works, budget of 1887-88.
	Do.	Do.	8	Quarters for schoolmaster and schoolmistress, Royal Artillery.	C	..	10,240	..	..	..		..	..	..	..	..	Estimate is awaited. Item No. 18, class C works, budget of 1887-88.
	Do.	Do.	9	New orderly room on conversion of Quartermaster's stores into orderly room and stores, 12th Lancers.	C	..	6,500	..	..	..		..	..	..	..	..	Estimated is awaited.
	Do.	Do.	10	Battery office for Royal Horse Artillery.	C	..	3,700	..	..	..		..	..	..	..	..	Do.

(1) Accommodation for Native Troops

Head of classification.	Executive Division.	Locality.	Item No.	Projects and works.	Class.	Detail. Major works. Works in progress.	Detail. Major works. New works.	Detail. Major works. Total.	Detail. Minor works.	Detail. Total.	Repairs.	Establishment.	Tools and plant.	Spare pieces.	Grand Total.	Remarks.
Presidency.	Fort St. George.	24		Repairs to floors of B, C and D Blocks, family quarters.	C			10,070								Estimate is awaited.
Do. ..	Do. ..	25		Constructing cook-houses and stables for the use of officers.	C			15,770								Item No. 16, dated 3rd Nov. 1887. Item No. 21, class C works, budget of 1887-88.
Chingleput.	St. Thomas' Mount.	26		A wheeler and collar interest shop for the west barracks.	C			5,050								Estimate is awaited. Item No. 22, class C works, budget of 1887-88.
Do. ..	Do. ..	27		Sergeants' mess for east barracks.	C			6,000								Estimate is awaited. Item No. 24, class C works, budget of 1887-88.
Do. ..	Do. ..	28		Quarters for 3 medical subordinates attached to the station hospital.	C			8,000								Estimate is awaited. Item No. 25, class C works, budget of 1887-88.
Do. ..	Do. ..	29		Quarters for the head-quarter's staff, Royal Artillery.	C			12,000								Estimate is awaited. Item No. 26, class C works, budget of 1887-88.
Do. ..	Do. ..	30		General improvements to the drainage of the cantonments	C			19,000								Estimate is awaited. Item No. 28, class C works, budget of 1887-88.
Do. ..	Do. ..	31		Battery office for R'lst, Royal Artillery, east barracks.	C			5,000								Estimate is awaited. Item No. 30, class C works, budget of 1887-88.
Do. ..	Do. ..	32		Raising the roof of barrack room, Coop lines.	C			4,200								Estimate of Rs. 4,200 was sanctioned in G.O., No. 2137 W., dated 17th Dec. 1887. Item No. 27, class C works, budget of 1887-88.
Do. ..	Do. ..	33		Wooden shed at 1-pr proof range.	C			2,830								Estimate of Rs. 2,930 was sanctioned in G.O., No. 3027 W., dated 13th December 1887. Item No. 28, class C works, budget of 1887-88.
Do. ..	Do. ..	34		Converting the disused gun-shed between the north barracks and main guard into a police shop, recreation-room and library.	C			2,520								Estimate of Rs. 2,520 was sanctioned in G.O., No. 1234 W., dated 26th May 1888. Item No. 29, class C works, budget of 1887-88.
Do. ..	Pallavaram.	35		One mortuary room for each of the 3 hospitals, Nos. 1 to 3.	C			3,000								Estimate is awaited. Item No. 30, class C works, budget of 1887-88.
Do. ..	Coonamallee.	36		Warrant officers' quarters.	C			3,500								Estimate is awaited. Item No. 32, class C works, budget of 1887-88.
Do. ..	Do. ..	37		Two staff sergeants' quarters, first class.	C			6,000								Estimate is awaited. Item No. 33, class C works, budget of 1887-88.
Do. ..	Do. ..	38		Coffee shop	C			9,000								Estimate is awaited. Item No. 34, class C works, budget of 1887-88.
Presidency.	Bangalore.	39		Additions, &c., to public building, Madras Infantry Regiment for a Pioneer Regiment.	A	12,000	..									Estimate of Rs. 21,030 was sanctioned in G.O., No. 2562 W., dated 29th Nov. 1884. Item No. 2, class A works, budget of 1887-88.
Do. ..	Do. ..	40		Public buildings for a regiment of Native Cavalry.	B	..	15,000	..	..	..	..	..	..	..	..	Estimate of Rs. 30,990 was sanctioned in G.O., No. 1302 W., dated 26th May 1886. The budget grant of Rs. 10,000 for the current year has been struck within-drawn.

(1) Accommodation for European Troops in the Plains—Permanent—*cont.*

Head of classification.	Executive Division.	Locality.	Item No.	Projects and works.	Class.	Detail. Major works. Works in progress.	Detail. Major works. New works.	Detail. Major works. Total.	Detail. Minor works.	Detail. Total.	Repairs.	Establishment.	Tools and plant.	Spare pieces.	Grand Total.	Remarks.
Presidency.	Bangalore.	11		Buildings for Wheeler's shop, Royal Artillery.	C		Rs. 3,100	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate is awaited.
Do. ..	Do. ..	12		Drainage of Royal Horse Artillery Gun-carriage lines at Ulsoor and providing the following of the adjacent public latrines.	C		2,015	..	..	..	..	..	..	..	..	Do.
Do. ..	Do. ..	13		Drainage, British Infantry latrines.	C		8,000	..	..	..	..	..	..	..	..	Do.
Do. ..	Do. ..	14		Quarters for Senior Apothecary, North Station Hospital.	C		6,960	..	..	..	..	..	..	..	..	Estimate of Rs. 6,960 was sanctioned in G.O., No. 2380 W., dated 27th November 1883. Item No. 19, class C works, budget of 1887-88.
Do. ..	Do. ..	15		Quarters for the Assistant Apothecary, North Station Hospital.	C		4,713	..	..	..	..	..	..	..	..	Estimate of Rs. 4,718 was sanctioned in G.O., No. $\frac{938}{3}$ W., dated 6th April 1884. Item No. 23, class C works, budget of 1887-88.
Madras.	Wellington.	16		Gymnasium, 2nd Royal Fusiliers.	C		10,000	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 7, class C works, budget of 1887-88.
Bolary ..	Bolary ..	17		Intestine-disease ward and cook-house, station hospital.	C		6,140	..	..	..	..	..	..	..	..	Estimate of Rs. 6,140 was sanctioned in G.O., No. 330 W., dated 7th February 1884. Item No. 4, class C works, budget of 1887-88.
Do. ..	Do. ..	18		Alterations and additions to military prison and adjoining buildings.	C		11,200	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 5, class C works, budget of 1887-88.
Do. ..	Do. ..	19		Swimming bath, British infantry.	C		7,644	..	..	..	..	..	..	..	..	Estimate of Rs. 7,644 was sanctioned in G.O., No. 2434 W., dated 15th October 1885. Item No. 3, class C works, budget of 1887-88.
Do. ..	Do. ..	20		Quarters for Boardmaster, British Infantry.	C	..	3,220	..	..	..	..	..	..	..	..	Do.
Do. ..	Do. ..	21		Quarters for schoolmaster, British Infantry Regiment.	C	..	2,820	..	..	..	..	..	..	..	..	Do.
Do. ..	Do. ..	22		Quarters for ammunition-corps, British Infantry Regiment.	C	..	2,960	..	..	..	..	..	..	..	..	Do.
Do. ..	Do. ..	23		Armoury shop for the Arsenal.	C	..	4,220	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 6, class C works, budget of 1887-88.

(3) Commissariat Buildings.

(4) Staff and Miscellaneous.

(1) Accommodation for Native Troops.

(2) Quarters for Officers.

(3) Hospitals.

(5) Miscellaneous Works.

Schedule of the probable requirements of the Madras Presidency on account of Military Works for 1888-89—*contd.*

Head of estimate.	Executive Division.	Locality.	Item No.	Projects and works.	Class.	Original Works.			Major works.							Remarks.
						Works in progress.	New works.	Total.	Minor works.	Total.	Hospitals.	Establishment.	Tools and plant.	Sundries.	Grand Total.	
Trichinopoly.	Trichinopoly.	41	Store-rooms and work-shop, &c., for 41b Pioneers.	B	...	...	4,900	...	...	...	...	...	...	...	...	Estimate is awarded. Item No. 43, class C works, budget of 1887-88.
Presidency.	Madras	42	Constructing 4 latrines, 2 for inmates, Perembur Prisons, 2 for inmates and 2 for Penitentiary lines at Nungambakkam.	B	...	...	3,000	...	...	...	...	...	...	...	...	
Do.	Do.	43	Flushing drains of Native Infantry lines at Nungambakkam.	C	...	...	1,320	...	...	...	...	...	...	...	...	Estimate of Rs. 1,300 was sanctioned in G.O., No. 1387 W., dated 7th June 1884. Item No. 40, class C works, budget of 1887-88.
Chingleput.	Tyalavanam.	44	Magazine for 3 dahs Infantry Regiment on standard plan.	C*	...	...	4,500	...	...	...	...	...	...	...	...	Estimate of Rs. 4,900 was sanctioned in G.O., No. 334 W., dated 8th Feb. 1886. Item No. 41, class C works, budget of 1887-88.
Do.	Do.	45	Armourers' shop for Madras Infantry Regiment.	C	...	...	2,850	...	...	...	...	...	...	...	...	Estimate of Rs. 2,850 was sanctioned in G.O., No. 3145 W., dated 22nd Dec. 1884. Item No. 42, class C works, budget of 1887-88.
Vizagapatam.	Vizagapatam.	46	Re-timbered store-room for Native Infantry, including storage for camp equipage.	C	...	...	3,180	...	...	...	...	...	...	...	...	Estimate of Rs. 3,180 was sanctioned in G.O., No. 3529 W., dated 27th Oct. 1881. Item No. 38, class C works, budget of 1887-88.
West Coast.	Malabar.	47	Providing drains for the lines of Native Infantry.	C	...	...	11,210	...	...	...	...	...	...	...	...	Estimate is awarded. Item No. 39, class C works, budget of 1887-88.
Bellary.	Bellary	48	Constructing six double quarters for the Staff Sergeants attached to the Ordnance Department.	A	...	...	10,000	...	...	...	...	...	...	...	...	Estimate of Rs. 12,420 was sanctioned in G.O., No. 1600 W., dated 18th June 1887. Item No. 37, class C works, budget of 1887-88.
Presidency.	Fort St. George.	49	Alterations	A	83,000	...	...	...	...	...	...	...	...	...	...	Estimate is under reference. Rs. 17,000 provided for the current year—*vide* Item No. 9, class II Mil. E. works, budget of 1887-88.
Bellary	Bellary	50	Converting the old regimental hospital now used as a Government school into quarters for nine warrant officers. Ordnance Department.	C	...	...	20,380	...	...	...	...	...	...	...	...	Estimate is awaited.
Presidency.	Madras	51	Extra accommodation as store-rooms in the Gun Carriage Factory.	C	...	...	6,000	...	...	...	...	...	...	...	...	Estimate is awaited. Item No. 48, class C works, budget of 1887-88.

(8) Fortifications.

(4) Staff and Miscellaneous.

Do.	Do.	52	Protecting sun-shades to all exposed doors and windows in the Orderlies' Lines.	C	...	4,160	...	...	...	...	...	...	...	...	Estimate of Rs. 4,160 was sanctioned in G.O., No. 2218 W., dated 22nd August 1887.
Do.	Do.	53	Shed for the camp equipage.	B	...	6,925	...	...	...	...	...	...	...	...	Estimate of Rs. 6,925 has been received and is under disposal. Item No. 51, class C works, budget of 1887-88.
West Coast.	Cuttack	54	Transport sheds	B	...	3,310	...	...	...	...	...	...	...	...	Estimate is awaited. Item No. 46, class C works, budget of 1887-88.
Presidency.	Bangalore.	55	Quarters for Conductor, Transport Department.	O	...	6,500	...	...	...	...	...	...	...	...	Estimate of Rs. 6,800 was sanctioned in G.O., No. 992 W., dated 16th April 1886. Item No. 47, class C works, budget of 1887-88.
Do.	Do.	56	Quarters for an Ambulance Sergeant near Cattle Lines, Transport Department.	O	...	3,000	...	...	...	...	...	...	...	...	Estimate is awaited. Item No. 48, class C works, budget of 1887-88.
West Coast.	Malappuram.	57	Constructing a cattle shed for the Commissariat Department.	C	...	4,000	...	...	...	...	...	...	...	...	Estimate is awaited.
Presidency.	Madras	58	Tanks for transport attendants.	C	...	18,000	...	...	...	...	...	...	...	...	Estimate is awaited. Item No. 49, class C works, budget of 1887-88.
Do.	Do.	59	Workshops and sheds for carts, doolies, &c., Transport Department.	C	...	40,680	...	...	...	...	...	...	...	...	Estimate is awaited. Item No. 50, class C works, budget of 1887-88.
Do.	Do.	60	Quarters for a Conductor, Commissariat Department.	C	...	4,000	...	...	...	...	...	...	...	...	Estimate is awarded.
Chingleput.	Guindy	61	Quarters for station butcher attached to slaughter-house.	C	...	4,740	...	...	...	...	...	...	...	...	Estimate is awarded. Item No. 53, class C works, budget of 1887-88.
Presidency.	Teynampet.	62	Constructing a wharf ecdown.	C	...	6,950	...	...	...	...	...	...	...	...	Estimate is awaited. Item No. 52, class C works, budget of 1887-88. Estimate of Rs. 6,450 was sanctioned in G.O., No. 628 W., dated 7th March 1885. Item No. 11, class B works, budget of 1887-88.
North Arcot.	Vellore	63	Constructing drain-bridge and gate for the fort.	A	2,867	...	...	...	...	...	...	...	...	...	Estimate is awarded. Item No. 56, class C works, budget of 1887-88.
Presidency.	Fort St. George.	64	Facing the enciente of Fort St. George with Portland cement.	B	...	5,000	...	...	...	...	...	...	...	...	Estimate is awarded. Item No. 55, class C works, budget of 1887-88.
West Coast.	Malappuram.	65	Converting Malappuram into a fortified station.	C	...	5,000	...	...	...	...	...	...	...	...	Estimate is awarded. Item No. 57, class C works, budget of 1887-88.
Presidency.	Fort St. George.	66	Demolition of Wallajah's ravelin and two inner bastions.	C	...	7,426	...	...	...	...	...	...	...	...	Estimate is awarded. Item No. 58, class C works, budget of 1887-88.
Do.	Do.	67	Constructing a drawbridge at north gate.	C	...	2,680	...	...	...	...	...	...	...	...	Estimate is awarded. Item No. 59, class C works, budget of 1887-88.
Nilgiri	Ootacamund	68	Water-supply, Lawrence Asylum.	C	...	7,000	...	...	...	...	...	...	...	...	Estimate is awaited. Item No. 54, class C works, budget of 1887-88.
...	...	69	Reserve with Government for incomplete Major Works.	...	15,300	...	...	...	...	...	...	...	...	...	
			Total ..		87,524	4,90,444	5,77,968	1,50,000	7,27,968	3,60,000	2,47,867	16,165	...	...	13,42,000

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 1888-89.

Division or district.	Station.	Description of buildings, &c., and for what corps or departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Eastern District.	Fort St. George.	Store-room, forge workshop—Arsenal.	520	When funds are available.
	Do. ...	A new bridge across trench in new park—Arsenal.	810	
	Do. ...	Room alterations for theatre ...	1,000	
	Do. ...	Pipes to carry off main water from the barracks—Officers' quarters, &c.	990	Recommended.
	Do. ...	Improvements to military prison.	810	When funds are available.
	Do. ...	Putting up 13 ventilator windows in the mess-room of the officers' mess-house of the British Regiment.	600	
	Do. ...	Enclosing verandah in the office of the Examiner, Medical Accounts.	960	Approved.
	Madras ...	Ordnance store-room—Beach ..	1,250	Necessary.
	Do. ...	Huts, infectious disease—Station hospital.	750	When funds are available.
	Do. ...	Regimental school—Perambúr lines, Madras Infantry.	1,375	
	Do. ...	Shed to hold fire-engine at the Government Bakery.	820	Approved.
	Do. ...	Iron railings to passage in the Storekeeper-General's record-room — Commissary-General's office.	670	
	Do. ...	Godown, wheat, &c.	1,785	When funds are available.
	Do. ...	Drainage—Bakery premises ..	950	
	Do. ...	Gram-boiling shed—Mule lines.	1,500	
	Do. ...	Latrine for hospital—Ráyapuram lines.	1,000	
	Do. ...	Converting one Sub-Conductor's quarters, Commissariat Department, to Conductor's quarters by adding a room 18' × 16'.	576	
	Do. ...	Store-room to 3 warrant officers and 4 sergeants' quarters—Commissariat Department.	1,000	
	Do. ...	Additional latrine accommodation—Army Clothing Department.	536	Approved.
	Do. ...	Granite stone foundation for machinery to wheel-wrights' shop—Gun Carriage Factory.	890	
	Do. ...	Laying on Red Hills water in pipes to the quarters of the Conductor and Mechanical Engineer at the Government Bakery, Teynampet.	560	
	St. Thomas' Mount.	Commissariat—Wells, &c., public cattle depôt.	1,200	When funds are available.
	Do. ...	Royal Artillery — Lightning conductor, Magazine.	1,500	Most important.
	Do. ...	Closing up archway, gun-shed —P. Battery, 1st Brigade.	560	Very necessary.
	Do. ...	Improvements to Sergeants' quarters — Reserve Powder Magazine.	585	*Vide* G.O., No. 2557 W., dated 21st November 1885. Very necessary.

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 or departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Eastern District—*cont.*	St. Thomas' Mount.	Constructing a second verandah to the harness room attached to east barracks, Royal Artillery.	1,170	When funds are available.
	Do. ...	Constructing two store-rooms and two cook-rooms to recreation-room, library and coffee shop, east barracks.	700	Approved.
	Do. ...	Drains in stables, east barracks.	800	
	Do. ...	Improving lightning-conductor, Reserve Powder Magazine.	640	
	Do. ...	Coating the pillars of Royal Artillery stables in the east and west barracks.	880	
	Do. ...	Constructing three line-gear rooms for Royal Artillery stables, east barracks.	1,140	
	Do. ...	Converting the vacant family quarters, staff barracks, into quarters for medical subordinates doing duty at the station hospital.	1,070	
	Pallávaram ...	Tiled-shed	636	When funds are available.
	Poonamallee...	Alteration—Barracks	1,000	
	Do. ...	Wall, new—Family quarters ...	1,000	
	Do. ...	Constructing new walls between the latrines of the family quarters.	730	
	Do. ...	Providing lightning-conductor to the station hospital.	2,460	
	Do. ...	Improving drains in cantonment	1,500	Approved.
	Do. ...	Bullocks shed—Commissariat Department.	510	
	Vizianagram...	New magazine—Madras Infantry.	1,530	Very necessary.
	Do. ...	Improvements to hospital—Madras Infantry.	515	When funds are available.
	Do. ...	Improvements to ventilation—Madras Infantry.	545	
	Do. ...	Contagious disease shed ...	917	Approved.
	Berhampore...	Building for Commissariat stores and office.	1,200	When funds are available.
	Arkónam ...	Improving drains outside the compounds of the rest-house.	560	Approved.
Bangalore Division.	Bangalore ...	Royal Artillery—Latrine, Staff Sergeants' 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.	620	
	Do. ...	Board floor, recreation-room—Royal Horse Artillery.	1,240	
	Do. ...	Stone floor to gun-shed, &c. ...	1,160	
	Do. ...	Two Riding Schools	1,156	Necessary. Estimate already sanctioned by Government.
	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.

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 or departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Bangalore Division—*cont.*	Bangalore ...	Latrine for followers	1,600	Necessary.
	Do. ...	North Station Hospital—Quarters for men of Army Hospital, Native Corps.	750	
	Do. ...	South Station Hospital—Quarters for men of Army Hospital Native Corps.	994	
	Do. ...	Improving piece of arms and hospital.	700	
	Do. ...	Improving Staff Sergeants' quarters.	2,000	When funds are available.
	Do. ...	Improving Sergeant Butcher's quarters.	525	Very necessary.
	Do. ...	Improving road from race-course barracks to slaughter-house.	1,400	When funds are available.
	Do. ...	Additions to accommodation in Transport lines.	1,545	Urgently required.
	Do. ...	Converting Sergeants' quarters into Sub-Conductors' quarters.	1,000	Very necessary.
	Do. ...	Two grass-sheds for the two field batteries.	920	Unauthorised, but desirable.
	Do. ...	Constructing a stone drain in forage yard and levelling ground.	1,440	Approved.
	Do. ...	Preparing a boarded floor in the room now used as a fencing room.	800	
	Do. ...	Lining with stone the drain east and west of barrack limits, parade barracks.	1,538	Desirable.
	Do. ...	New drains in Transport lines to carry off water.	1,100	Approved.
	Do. ...	A room suitable for an office for the Quarter-master at north end of Quartermaster's stores, British Infantry.	2,160	
	Do. ...	Drains around the Married and Staff Sergeants' quarters, &c., British Infantry at St. John's Hill Barracks.	710	
	Do. ...	Quarters for the station butcher.	2,000	
	Bellary ...	Additions to the gate conductor's office—Arsenal, Bellary.	1,464	Approved.
	Do. ...	Renewal floor, No. II Magazine, Fort.	616	Very necessary.
	Do. ...	Reflooring Commissariat store-rooms with asphalte.	670	
	Do. ...	Drain pipes required to be fitted around the buildings to carry off rain-water from the roofs.	1,690	Desirable.
Ceded Districts.	Do. ...	Skittle alley	1,600	When funds are available.
	Do. ...	Guard-room for hospital guards—Station Hospital.	1,260	Very desirable.
	Do. ...	Compound wall for the quarters of the Army Hospital Corps.	1,346	When funds are available.
	Do. ...	Compound wall with two gates to enclose female hospital attached to Station Hospital.	1,306	
	Do. ...	Compound wall for medical subordinates' quarters—Station Hospital.	535	
	Dor ...	Enlarging a well in the cantonment	864	

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 or departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Ceded dist.—*cont.*	Bellary ...	Converting No. 5 division workshop in the Arsenal into an office for the gate conductor.	1,464	When funds are available.
	Wellington ...	Renewing floors of latrines and school block.	1,680	Necessary.
	Do. ...	Enlarging purveyors' stores ...	2,000	Very necessary.
	Do. ...	Cooking stoves for Staff Sergeants' quarters.	536	
	Do. ...	Supplying cooking stove, Sergeants' mess.	800	Desirable.
	Do. ...	Laying on drinking water to hospital.	2,226	
	Do. ...	Masonry drain from Barracks square to Engineer's office.	510	Approved.
	Do. ...	Shed for dhooly-bearers and dhooly.	2,300	Approved, but estimate seems very high.
	Cannanore ...	Alterations and improvements to the Government bakery.	2,117	Desirable.
	Calicut ...	Stable and harness-room for 12 mules for the Commissariat Department at West Hill barracks.	1,200	Approved, but something on a cheaper scale should be provided.
	Do. ...	Road to Transport lines	1,000	Approved, if such a road is found necessary when a site for the new lines is finally settled.
Southern Districts.	Do. ...	Extension of present wash and bath houses for the detachment.	950	Approved.
	Do. ...	Servants' houses and stables for Apothecary's quarters, West Hill.	990	
	Do. ...	Lines for Native Army Hospital for eight men.	1,056	
	Malapuram ...	Converting beer godown into a gymnasium for detachment	790	Very necessary.
	Do. ...	Providing a platform and pump to well.	1,110	
	Do. ...	Compound wall for infectious disease ward.	725	
	Mettupálayam.	Sick-cart shed—Commissariat Department.	1,500	Approved.
	Quilon ...	Renewing floor of hospital ...	1,970	Desirable.
	Do. ...	An armourers' shop—Madras Infantry.	1,700	When funds are available.
	Do. ...	Two solitary cells	1,245	Approved.
	Mangalore ...	Reflooring hospital—Madras Infantry.	695	When funds are available.
	Do. ...	Additions to armourers' workshop	790	
	Do. ...	Constructing permanent verandah for the Quartermaster's store, Native Infantry.	630	
Belgaum District.	Do. ...	Putting a tar composite floor in place of arms in lieu of the existing wooden floor—Native Infantry.	653	
	Do. ...	Constructing parapet walls to two wells, erecting nine dust-bins and providing six designation boards for Hospital ward—31st Light Infantry.	671	Approved.
	... ...	Lump sum provision for works costing below Rs. 500 each.	32,343	
		Total	1,50,000	

E

List of Military works estimated to cost Rs. 3500 each or under, and for which funds are required in the P.W. Budget for 1888/89 in addition to those at pages 5.7.8 & 9 of P.M.G. No. 2497 W of 25th September 1886.

Division or District.	Station	Description of buildings &c. and for what Corps, or Detachments intended.	Approximate Estimate of Cost.	Remarks by the Commander in Chief.
Southern	Bangalore	Four drains in Stone & brick lines to carry off water	1100	" Approved "
	Wellington	Masonry drain from Barracks Square to Engineer's office	510	" Approved "
	do	Shed for Dooly bearers at Dhooly	2300	" approved, but Estimate seems very high "
	Caliaut	~~Removing Light Army Conductors off Magazine West the Barracks~~	Under Execution 730	" approved "
	Caliaut do	Road to Transport Lines	1000	" approved if such a road is found necessary when site for the new lines is finally settled "
	Malapuram	Compound wall to Infectious disease Ward	725	" approved "
	Caliaut	Extension of Quarters and Bath houses for the Detachment	960	" approved "
	do	Servants' houses and Stables for 4 Corps' Quarters Hospital	990	" approved "
	do	Cookhouse for the new Hospital for 6 men	1056	" approved "

	do	Furnishing an oak Counting Room Counters Desk & Counters & Desk for Clerks Lighting a room 18×16	576	" Satisfactory "
	do	Office Room & 3 Rooms attached with a Store Quarter Counters & Desk Partitions	1000	" Satisfactory "
	do	Alterations Fitting necessary on Iron Store Ceiling Partitions	536	" Satisfactory "
	Plumbing	Furnishing two Store Rooms and Two Counters & Reception Room Fitting up the Shop Fixtures.	700	" Satisfactory "
	Repairs	Furnishing Stairs in Counting Room	1570	" Satisfactory "
	Painting	Painting all Outside Work	917	" Satisfactory "

Brooklyn

	Plumbing	Store Cash Office. Counters Desk.	1520	" Satisfactory "
	Painting	Painting Entrance Counters & Desk Partitions Painting Office Fixtures	1000	" Satisfactory "
	Plumbing	Furnishing two Store Rooms & two Bath Rooms & Water Closet	1000	" Satisfactory "
	do	Alterations Fitting necessary on Iron Store Ceiling Partitions	671	" Satisfactory "
	Painting	Painting Counters Desk & Partitions Painting Office Fixtures	700	" Satisfactory "
	Painting	Painting all Outside Work	1570	" Satisfactory "
	Plumbing	Furnishing Gas Fixtures	1000	" Satisfactory "

~~Madras~~		Repairing roof of artillery godowns in the Camp Equipage Depot, Madras	873	Executive
Madras	Do	Granite stone foundation for machinery to wheelwrights shop Gun Carriage Factory	890.	
St. Thomas' Mount		Drains in stable, East Barracks	800	
Madras		Laying on Red Hill water in pipes to the Quarters of the Conductor and Mechanical Engineer at the Government Dairy, Egmore Depot	560	"Approved"
~~St. Thomas' Mount~~		~~Providing granite stone for and laying same for the stables in the East and West Barracks~~	~~1045~~	Under Execution
	Do	Improving Lightning Conductor Room Powder Magazine	640	
St. Thomas Mt.		Coating the pillars of Royal Artly Stables in East and West Barracks	880.	
	do.	Constructing 3 Line gear Rooms for R. A. stables East Barracks	1140.	
Fort St George		Enclosing verandah in the office of the Examiner Medical accounts	960.	"Approved"
Arkonam		Improving drains outside the compounds of the Rest House	560.	
Poonamallee		Bullock shed Commissariat Department.	510.	
			30,305	

Eastern

Southern

POULAIN
83

E2
1147259
15

E3
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15

D

Return to Order

List of Military works estimated to cost Rs. 2500 each or under, which will have to be removed from the List at pages 6, 7, 8 & 9 of P.M.G. 2497 W of 25th September 1886.

Division or District	Station	Description of building & use and for what Corps or Department needed	Approximate Estimate of cost		Reason for removal.
Eastern Dt.	Madras	Constructing water troughs & laying in Red Hills water pipe for the new Town Lines in the Padrapet plain	820	√	Funds allotted.
	Fort St. George	Mess House verandah — Completion of	1900	√	do
	Vepery	Store room for Camp Equipage of 1 Mt. Regt	1510	√	May stand over.
	do	School House on Standard plan	1230	√	
Southern Dt.	Cannanore	Alterations & additions to the Divisional Office Quarter Master General's Department	1577	√	Not now required Head Quarters having been transferred to Wellington
	do	Station Hospital sinking a well	700	√	not now required
	do.	Replacing the present flooring of the European Infantry cells with concrete in Cannanore and asphalte.	1100	√	work completed
	do	Replacing the Laterite flooring of the Recreation Room with concrete in Cannanore & asphalte. Europ. Infty.	2146	√	work completed.
	do.	Constructing a compound wall and provision of a jungle wood ceiling to the roof of the Regimental Cells.	756	√	Not now required
	Malapuram	Converting wood godown into a Barrack	985	√	Included in General Estimate for Barracks at Malapuram P.G. 7th D. No. 1316 of 5th March '87 & No. 5928 dy 23rd Septr. '86.
	do	Cells for in connection with the slaughter house	612	√	
	Calicut	Converting Cook room into a Barrack	1010	√	Funds allotted.
Ceded Dts.	Bellary	Alterations and additions to Armourer's shop, Light Cavalry	700	√	Not necessary at present.

Ex. Mr. Gen'l Office
Ootacamund
8th Septr. '87

A. Nunns
Brigr. Genl
Quarter Master Genl

Ordnance Works.	Residency	Fort St. George.	45	Construction of a new magazine in the Wallajah Line.	A	26,420	..	..	..	..	..	..	..	..	..	..	..	..	Estimate of Rs. 26,420 was submitted to Government of India for sanction (*vide* G.O., No. 2249 W., dated 17th May 1880). Item No 14, class B works, budget of 1886-87.
	Bellary	Bellary	46	Twelve staff sergeants' quarters, Ordnance Department.	B	..	16,000	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited.
	Residency	Madras	47	Coal store, Ordnance Department.	B	..	9,000	..	..	..	..	..	..	..	..	..	..	..	Do.
	Do.	Do.	48	Compound-wall round the gun-powder factory.	C	..	20,200	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 39, class C works, budget of 1886-87.
	Do.	Do.	49	Extra reconstruction as store rooms in the gun-powder factory.	C	..	6,000	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 40, class C works, budget of 1886-87.
	Residency	Bangalore	50	Quarters for a Conductor, Transport Department.	C	..	7,800	..	..	..	..	..	..	..	..	..	..	..	Estimate of Rs. 7,800 was sanctioned in G.O., No. 992 W., dated 16th April 1886. Item No. 51, class C works, budget of 1886-87.
Commissariat Buildings.	Do.	Do.	51	Quarters for ambulance sergeant near cattle lines, Transport Department.	C	..	3,000	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do.	Madras	52	Lines for transport attendants.	C	..	15,000	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 49, class C works, budget of 1886-87.
	Do.	Do.	53	Workshops and sheds for carts, doolies, &c., Transport Department.	C	..	5,500	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 50, class C works, budget of 1886-87.
	Do.	Do.	54	Construction of a shed at the Camp Equipage Depôt.	C	..	5,300	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 48, class C works, budget of 1886-87.
	Do.	Teynampet.	55	Construction of a wheat godown.	C	..	5,900	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 40, class C works, budget of 1886-87.
	Chingleput.	Guindy	56	Quarters for station butchers attached to slaughter-house.	C	..	4,730	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 52, class C works, budget of 1886-87
Fortifications.	Presidency.	Fort St. George.	57	Facing the escarpe of Fort St. George with Port-land cement.	D	..	7,000	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited.
	North Arcot.	Vellore	58	Draw-bridge and gate for the fort.	B	..	6,460	..	..	..	..	..	..	..	..	..	..	..	Estimate of Rs. 6,460 was sanctioned in G. O., No. 528 W., dated 7th March 1885. Item No. 51, class C works, budget of 1886-87.
Miscellaneous.	Residency	Fort St. George.	59	Demolition of Wallajah ravelin and two luntettes.	C	..	7,420	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 53, class C works, budget of 1886-87.
	Nilgiri	Ootacamund.	60	Water-supply, Lawrence Asylum.	C	..	7,000	..	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 55, class C works, budget of 1886-87.
				Total ..	..	73,046	4,12,084	4,56,780	1,20,000	6,05,730	3,50,000	2,19,817	9,553	..	11,86,100				

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 1887-88.

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Eastern district.	Fort St. George.	Store-room, forge workshop—Arsenal.	520	
	Do. ...	Railage to miscellaneous workshop, &c.—Arsenal.	700	When funds are available.
	Do. ...	A new bridge across trench in new park—Arsenal.	810	
	Do. ...	Improving store-godowns—Arsenal.	700	Very necessary. Estimates already sanctioned by Government.
	Do. ...	Do. do	847	
	Do. ...	Alterations to lower story barracks for armourer shop.	2,007	Very desirable.
	Do. ...	Mess-house verandah—Completion of.	1,900	
	Do. ...	1. room alterations for theatre.	1,000	When funds are available.
	Do. ...	Pipes to carry off main water from the barracks—Officers' quarters, &c.	990	Recommended.
	Do. ...	Improvements to military prison.	810	When funds are available.
	Do. ...	Putting up 13 ventilator windows in the mess-room of the officers' mess-house of the British Regiment.	600	
	Madras ...	Ordnance store-room—Beach ...	1,250	Necessary.
	Do. ...	Huts, infectious disease—Station hospital.	750	When funds are available.
	Do. ...	Dispensary—Veterinary department, Body Guard.	1,860	
	Do. ...	Regimental school—Perambúr lines, Madras Infantry.	1,375	
	Do. ...	Armourer shops—Perambúr lines, Madras Infantry.	2,000	
	Do. ...	Shed to hold fire-engine at the Government Bakery.	820	Approved.
	Do. ...	Constructing two servants' quarters to each of the Sub-Conductor's quarters of the Commissariat department in the Ordnance lines.	1,145	When funds are available.
	Do. ...	Constructing a water trough and laying in Red Hills water to it for the new Transport lines in the Pudupet plain.	820	
	Do. ...	Godown, wheat, &c.	1,785	
	Do. ...	Drainage—Bakery premises ...	950	
	Do. ...	Gram-boiling shed—Mule lines.	1,500	
	St. Thomas' Mount.	Commissariat—Wells, &c., public cattle depôt.	1,200	
	Do. ...	Royal Artillery—Lightning conductor, Magazine.	1,500	Most important.
	Do. ...	Closing up archway, gun-shed—P. Battery, 1st Brigade.	560	Very necessary.
	Do. ...	Improvements to Sergeants' quarters — Reserve Powder Magazine.	690	*Vide* G.O., No. 1233 W., dated 28th May 1885. Very necessary.
	Do. ...	Constructing a second verandah to the harness rooms attached to east barracks, R.A.	1,170	When funds are available.

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, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Eastern district—*cont.*	Pallávaram ..	Camp Equipage store—Madras Infantry.	1,500	When funds are available.
	Do. ...	School—Madras Infantry ...	1,230	
	Do. ...	Tiled shed	636	
	Poonamallee ...	Alteration—Barracks	1,000	
	Do. ...	Wall, new—Family quarters ...	1,000	
	Do. ...	Constructing new walls between the latrines of the family quarters.	730	
	Do. ...	Providing lightning conductor to the Station hospital.	2,400	
	Vizianagrum ...	New magazine — Madras Infantry.	1,530	Very necessary.
	Do. ...	Improvements to hospital—Madras Infantry.	515	When funds are available.
	Do. ...	Improvements to ventilation—Madras Infantry.	545	
	Berhampore ...	Building for Commissariat stores and office.	1,200	
Bangalore division.	Bangalore ...	Royal Artillery—Latrine, Staff Sergeants' 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.	620	
	Do. ...	Board floor recreation room—Royal Horse Artillery.	1,240	
	Do. ...	Stone floor to gun-shed, &c. ...	1,160	
	Do. ...	Stone drains—Staff Sergeants' quarters.	564	Necessary. Estimates already sanctioned by Government.
	Do. ...	Two Riding schools	1,156	
	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.
	Do. ...	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.	756	
	Do. ...	Improving place of arms and hospital.	700	
	Do. ...	Improving Staff Sergeants' quarters	2,000	When funds are available.
	Do. ...	Improving Sergeant Butcher's quarters.	525	Very necessary.
	Do. ...	Improving road from race-course barracks to slaughter-house.	1,400	When funds are available.
	Do. ...	Additions to accommodation in Transport lines.	1,545	Urgently required.
	Do. ...	Converting Sergeants' quarters into Sub-Conductors' quarters.	1,000	Very necessary.
	Do. ...	Two grass-sheds for the two field batteries.	920	Unauthorised but desirable.

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, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			49717 Rs.	
Bangalore division—*cont.*	Bangalore ...	Constructing a stone drain in forage yard and levelling ground.	1,440	Approved.
	Do. ...	Preparing a boarded floor in the room now used as a fencing room.	800	
	Do. ...	Lining with stone the drain east and west of barrack limits, parade barracks.	1,538	Desirable.
	Wellington ...	Renewing floors of latrines and school block.	1,680	Necessary.
	Do. ...	Enlarging purveyor's stores ...	2,000	Very necessary.
	Do. ...	Cooking stoves for Staff Sergeants' quarters.	536	
	Do. ...	Supplying cooking stove, Sergeants' mess.	800	Desirable.
	Do. ...	Laying on drinking water to hospital.	2,226	
	~~Bellary~~ ...	~~Alterations and additions to Armourers' shop, Light Cavalry Regiment.~~	~~700~~	~~Urgently wanted. The execution of this work will do away with necessity for new building.~~
	Bellary Do. ...	Renewal floor, No. II Magazine, Fort.	616	
	Do. ...	Reflooring Commissariat storerooms with asphalte.	670	Very necessary.
	Do. ...	Drain-pipes required to be fitted around the buildings to carry off rain water from the roofs.	1690 ~~1,500~~	Desirable.
Coded districts.	Do. ...	Skittle Alley	1,600	When funds are available.
	Do. ...	Guard-room for hospital guard, Station hospital.	1,200	Very desirable.
	Do. ...	Compound wall for the quarters of the Army Hospital Corps.	1,346	
	Do. ...	Compound wall with two gates to enclose female hospital attached to Station hospital.	1,300	
	Do. ...	Compound wall for medical subordinates' quarters, Station hospital.	535	When funds are available.
	Do. ...	Enlarging a well in the cantonment.	854	
	Do. ...	Converting No. 5 division workshop in the Arsenal into an office for the Gate Conductor.	1464 ~~1,750~~	
Western district.	~~Cannanore~~ ...	~~Station hospital—Sinking well.~~	~~700~~	~~Strongly recommended.~~
	~~Do.~~ ...	~~Replacing the present flooring of the European Infantry cells with concrete in chunam and asphalte.~~	~~1,100~~	~~Approved.~~
	~~Do.~~ ...	~~Replacing the laterite flooring of the recreation room with concrete in chunam and asphalte, European Infantry.~~	~~2,110~~	~~When funds are available.~~
	~~Do.~~ ...	~~Constructing a compound wall and provision of a jungle-wood ceiling to the roof of the regimental cells.~~	~~750~~	~~Desirable.~~
	~~Do.~~ ...	Alterations and improvements to the Government Bakery.	2,117	

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, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			74,129 Rs.	
	~~Cannanore~~ ...	~~Alterations and additions to the divisional offices of the Quartermaster-General's department.~~	~~1,677~~	~~Desirable.~~
	Malapuram ...	Converting beer godown into a gymnasium for detachment.	790	All very necessary.
	~~Do.~~ ...	~~Converting wood godown into a bakery.~~	~~595~~	
	Do. ...	Providing a platform and pump to well.	1,110	
	~~Do.~~ ...	~~Cattle pen in connection with slaughter-house.~~	~~612~~	~~Desirable.~~
	~~Calicut~~ ...	~~Converting cook-room into a bakery.~~	~~840~~	~~Urgent.~~
	Do. ...	Stable and harness-room for 12 mules for the Commissariat department at West Hill Barracks.	1,900	Approved, but something on a cheaper scale should be provided.
Western district—*cont.*	Quilon ...	Renewing floor of hospital ...	1,970	Desirable.
	Do. ...	An Armourers' shop, Madras Infantry.	1,700	When funds are available.
	Do. ...	Two solitary cells	1,500	Approved.
	Mangalore ...	Reflooring hospital, Madras Infantry.	695	When funds are available.
	Do. ...	Additions to Armourers' workshop.	790	
	Do. ...	Constructing permanent verandah for the Quartermaster's store, Native Infantry.	630	
	Do. ...	Putting a tar composite floor in place of arms in lieu of the existing wooden floor, Native Infantry.	653	
	...	~~Lump sum provision for works costing below Rs. 500 each.~~	~~9,909~~ 32 343	
			Total ...	1,20,000 1,52,000

Urgent

No. 3082 C.

Government of Madras.

PUBLIC WORKS DEPARTMENT,

Chepâk, 13th September 1887.

OFFICE NOTE.

From W

To C

With reference to the accompanying two lists of Military Union works proposed by the Quarter Master General for execution during 1888-89 please state if there are any works that are completed or under execution during the current official year.

2. A very early return of the lists is particularly requested.

W 13/9/87

Dw

To D.W. No 545-A/16-9-87
Encl—2

The Lists are returned with

W/13/9

3.

the works that are completed and under execution noted in pencil.

c.

No 3082. 13.9.87
" 20788 4.8.87
" 26977 & 24958 25.9.86
" 22694 26.8.87.

6-29-9-87 R. 6. 10-87

8WC № 7257

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R 16-9-87

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Received in the Secretary's Office
9 SEP 87

QUARTERMASTER-GENERAL'S OFFICE,
Octacamund,
8th September 1887.

Read the following Letter.

No. 3176 A

From Brigr Genl E. Faunce,
QUARTERMASTER-GENERAL,

To

THE SECRETARY TO GOVERNMENT,
Public Works DEPARTMENT.

SIR,

Major Works
Classes A. B. & C.

I have the honor, by order, to forward for submission to Government the Schedules of requirements on Military Works in connection with the Imperial Budget Estimate of the P.W.D. for the year 1888/89.

2. The Major works have been classified in the same way as last year, only those being entered in Class A which this Office has reason to know will require allotments in the coming year.

3.

3. Of the class A works the following seem to require some remarks.

1. Public Buildings for a Regiment Madras Infantry at Bangalore.

The buildings now in course of erection being designed for an ordinary Madras Infantry Regiment are in many respects inadequate to the wants of a Royal Regiment which will in future permanently occupy the lines in question. Details of the extra requirements for which it is proposed to provide shall be submitted to Government in due course.

II Magazine Fort Saint George.

This work has been entered on the assumption that Government will approve the proposals recently submitted

for

for providing storage space for powder in a portion of the Saint Thomé Curtain

4. The only works under class B which have not appeared in lists of previous years and therefore require notice are –

I A new Barrack for 30 men at Calicut. This work is not wanted in connection with the increase of the garrison at that station at one time contemplated, but because recent examination of the existing Barracks has shewn that they do not contain the proper space for the present garrison.

II New Saddle Room for British Cavalry — Bangalore.

This work is essential to provide

for

for the extra saddles which a Regiment British Cavalry on the increased strength is in possession of -

III. Works in connection with extra accommodation for Troops: Fort Saint George - Proposals have again been submitted to Government for the provision of the necessary accommodation by the removal out of the Fort of the Military Accounts and Accountant Generals' Offices; whatever decision may be come to as regards these Buildings, certain other suggestions for finding extra space will have to be adopted, and funds for these must be provided.

5. Many works shown in the class list are certainly as important

as

as those in Class B, though the limit necessarily placed on the latter excludes them from it. If therefore the Government of India makes an unusually liberal grant in the coming year it can be taken full advantage of.

6. In accordance with the precedent of last year, lists D & E of minor works to be removed from and added to the list of what class of works as it stood in 1886/87 are also submitted, after all what has been urged in past years and in recent correspondence regarding the necessity of specially large grants for

this

this class of work, it will be unnecessary now to say any thing on the subject of their claims.

I have the honor to be, Sir, Your obedt. Servant,

L. Morris

Brigr. Genl. & Quarter Master Genl.

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Military (1887) Department.

No. 6716 & 7110

From

THE QUARTERMASTER-GENERAL,

To

THE SECRETARY TO GOVERNMENT,

P.W. ~~Military~~ DEPARTMENT.

No. 3176-A

Dated 5th September.
Recd. 9 —

Amount of 2497 Rupees 2498

ENCLOSURES. 5.

Submitting Schedules of Milly. works requirements for 1888

Rec'd Sept. 20-7-87 P.W. 6-10-87

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Class A

Works commenced, for completion of which grants are required.

Command	Station	Item No	Work	Cost	Remarks.
Bangalore Division	Bangalore	1	Public Buildings Madras Infantry Regiment - additions & to for a Pioneer Regiment -	12000	✓
Ceded Districts	Bellary	2	Gymkhed for Royal Artillery -	8957	✓
Ceded Districts	Bellary	3.	Staff Sergeants Quarters Ordnance Department -	10,000	✓
Eastern District	Fort Saint George	4	Magazines -	33 000	✓
Eastern District	Vellore	5	Drawbridge and Gate to Fort -	2867	✓
Southern District	Wellington	6	Quarters for 3 Apothecaries -	5400	✓

Quarter Master General's Office
Octacamund
8th September 1887

T. Hennell
Brigadier General,
Quarter Master General.

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Class. B.

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

Command	Station	Item No	Work	Cost	Remarks.
Bangalore Distt.	Bangalore	1.	Public Buildings for a Madras Cavalry Regt.	15,000	Item 6 class B Budget of 1887/88
Southern District	Calicut	2.	a new Barrack with subsidiary buildings for 30 men	20,000	
Eastern District	Poonamallee	3.	Improving old Barracks	5000	Item 37 class C Budget of 1887/88.
do	Fort St George	4.	Remodelling drainage	10,000	Item 14 class C Budget of 1887/88.
do	do	5.	Facing enceinte with Port. land cement	5000	Item 56 class C. Budget of 1887/88.
do	Madras	6.	Shed Camp Equipage Depot	6935	Item 51 class C. Budget of 1887/88
Southern District	Calicut	7.	Transport Sheds	3310	Item 46 class C Budget of 1887/88.
			Store rooms & workshop for Artificers	4000	
Eastern District	Madras	9.	Constructing 4 Latrines 2 for males & 2 for females Pycambur Lines.	3000	Item 39 Class C Budget of 1887/88.
Bangalore Distr.	Bangalore	10.	New Saddle Room British Cavalry	4500	
Eastern District	Fort St George	11.	Sundry works in connection with extra accommodation British Infantry and Royal artillery	20,000	

Qr. Mr. Genls Office
Ootacamund
8th Septr 87

Brigr. Genl
Quarter Master Genl

Class C

Works of less urgency not yet commenced for which also grants are required. 7

Command	Station	Item No	Work	Cost	Remarks.
Bangalore Division	Bangalore	1	Quarters for Schoolmaster and Schoolmistress Royal Artillery	10240	✓
	do	2	Quarter for a Conductor Transport Department	5800	✓
	do	3	12 Lancers - New orderly room or Conversion of Quarter Masters stores into orderly room and stores	6500	✓
	do	4	Transport Department - Quarter for an Ambulance Sergeant near Cattle lines	3000	✓
	do	5	Battery Office for Royal Horse Artillery	3700	✓
	do	6	Quarters for Married Staff Royal Horse Artillery	3100	✓
	do	7	Drainage of Royal Horse Artillery grass Cutters Lines at Ellesor and preventing the flooding of the adjacent Nullah	2846	✓
	do	8	Drainage British Infantry Barracks	8000	✓
	do	9	Quarters for Senior Apothecary North Station Hospital	5300	✓
	do	10	Do - for Assistant Apothecary - do -	4773	✓
Southern Division	Wellington	11	2nd Royal Sweepers - Gymnasium	10000	
	Malapuram	12	Converting Malapuram into a fortified station	5000	✓
	do	13	Constructing a cattle shed for the Commissariat Department	4000	✓
	Coimbatore	14	Water supply Lawrence Asylum	7000	✓
Ceded Districts	Bellary	15	Inspections disease ward and Cookhouse Station Hospital	6140	✓
	do	16	Alterations and additions to Military prison and adjoining building	11260	✓
	do	17	Swimming bath for British Infantry	7644	✓
				104303	

Ceded Districts

Bellary	18	Quarters for Bandmaster British Infantry Regiment	1,04303 3520	✓
do	19	Quarters for Schoolmaster British Infantry Regiment	2950	✓
do	20	do for school mistress do	2950	✓
do	21	Armourer's shop for the arsenal	4650	✓
do	22	Converting the old Regimental Hospital now used as a Government school into Quarters for 9 warrant Officers Ordnance Department	20,380	✓
Fort Saint George	23	Repairs to floors of B.C. and D Blocks family Quarters	10070	✓
do	24	Demolition of Wallajah Ravelin and two bastions	7426	✓
do	25	Constructing a drain from the at north gate	2,080	
Madras	26	Lines for Transport attendants	48000	✓
do	27	Workshops and sheds for Cart and doolies &c Transport Department	40680	✓
do	28	Extra accommodation as store rooms in the Gun Carriage Factory	6000	✓
do	29	Quarter for a Conductor Commissariat Department	4000	✓
do	30	Quarters for Native Butcher at Guindy, attached to Slaughter house	4740	✓
do	31	Constructing Coach houses and Stables for the use of Officers in Fort Saint George	15770	✓
do	32	Flushing drains of Native Infantry Lines at Royapuram	4,300	✓
			282449	

Eastern Quarters

S.S.O.

Q.C.G.-23

Eastern Division

Saint Thomas Mount	33	A Wheeler and Collar makers shop for the West Barracks	2,82,419 5660	✓ ✓
do	34	Sergeants Mess for East Barracks	6000	✓
do	35	Quarters for 3 Medical Subordinates attached to the Station Hospital	8000	✓
do	36	Quarters for the Head Quarters Staff Royal Artillery	12000	✓
do	37	General Improvements to the drains of the Cantonments	10000	✓
do	38	Battery Office for 9th Royal Artillery East Barracks	5000	✓
do	39	Raising roof of harness room Roof Liner	4200	✓
do	40	Wooden shed at the Proof range	2820	✓
do	41	Converting the disused gun shed between the North Barracks and main guard into a Coffee shop, Recreation Room and Library	2520	✓
Pallavaram	42	One Mortuary room for each of the 3 hospitals Nos 1 to 3	3000	✓
do	43	Magazine for Madras Infantry Regiment on Standard plan	4500	✓
do	44	Armourers shop for Madras Infantry Regiment	2880	✓
Pommalles	45	Warrant Officers Quarters	3500	✓
do	46	Two Staff Sergeants Quarters Surat Class	6000	✓
do	47	Coffee shop	9000	✓
Vizianagram	48	Regimental Store room for Native Infantry including Storage for Camp Equipage	3480	✓
Madras	49	Constructing a wheat godown at Toynampett	5950	✓
			376929	

Eastern Division

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Eastern District				3,76,929
	Madras	50	Providing punkahs to all exposed doors and windows in the Ordnance Lines	4160
Belgaum District	Mangalore	51	Providing drains for the lines of the Native Infantry	11,710
				3,92,799

Quarter Master General's Office
Ootacamund 8th September 1887.

V. Nicholls
Brigadier General
Quarter Master General

B-24
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No. 2624

PUBLIC WORKS DEPARTMENT.

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PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 6th October 1887

READ the following

From the Quarter Master General. H. E. No: 3176 A d/8th September 1887.
Office note from the Examiner of P. W. Accounts. H. E. No: 5454/18th September 1887.

Ordered that the schedule of requirements under Imperial Military for 1888-89 be forwarded to the Govt. of India in the Military Department.

2. With reference to G. O. No: 2077 W dated 4th August 1887 a sum of Rs. 15,300 being the average of the grants for incomplete major works for the last five years, is entered as a reserve with the Govt. for distribution when the demands on account of incomplete major works of the current official year are notified.

3. The Supdg. Engineers concerned will submit, with the least possible delay, plans and estimates for the unsanctioned works for which funds are applied for in the schedule.

H. E. No: 282 W dated 6 Oct 1887

To
Supdg. Engineers
The Examiner of P. W. Accts
" Military Deptt.
" Financial Deptt.

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Military Works Grants for 1888-89

1

From

The Secy to the Govt of India
Military Department

To,

I am forwarding herewith the Proceedings of the Govt of Madras No 2320 W dated 6th October 1887 with the schedule of demands under Imperial Military for 1888-89, I am directed to solicit the special attention of the Govt of India to the Proceedings of this Govt forwarded with endorsement No 2078 W dated 4th August 1887, and to express the hope that a very liberal grant may be assigned under this service for reasons already brought to notice.

Very

Wright

Secy

Dr

Secy Govt

Decr 7/10/87

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PUBLIC WORKS