

Proceduras de...

Nº 3931-H d/15 Dec/88.

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W. A.

works mentioned

The ~~Commission~~

presented over

will be ^{omitted} ~~made~~

for Class C works
of the Project - now
under preparation

Nº 3931-H d/15 Dec/88

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hr
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W. A.

18/12

with disposal

Military Buildings.

No. 83/3

Government of Madras.

MILITARY DEPARTMENT,

Fort St George the 11. December 1888

From the Quarter Master General, to the Secretary to Government, Military Department, No. 4748a, dated Ootacamund, 7th December 1888.

The Commander-in-Chief having accorded his approval to a proposal to convert one of the married ranges British Infantry lines at Bellary, into suitable quarters for the Staff Sergeants of the British Infantry Regiment at that Station, the cost being met from the grant for Minor Works placed at the disposal of the Officer Commanding,

Item 12 Quarters for Bandmaster, British Infantry - - - - - Rs. 4075
Item 13 Quarters for Schoolmaster, British Infantry - - - - - Rs. 2950
Item 14 Quarters for Schoolmistress British Infantry - - - - - Rs. 2950

I am desired to point out that the works marginally noted, entered in the

Schedule forming the appendix

was a departmental account General.

O. G. 3105 W, dated 4th October 1888, (M.D. N^o 7033)
dated 23rd Idem) will not in consequence be
now required and may be eliminated
therefrom.

Order:— Communicated to
the Public Works Department, with
reference to O. G. N^o 3105, dated 4th Oct.
1888.

(True Extract)

A. Henry Herbert Brigden
Secretary to Government

Le

The Public Works Department

Judicial Department

No 3931-H of 15 Decr/88.

No. 12815 ✓

MILITARY WORKS.
ACCOUNT.

Gobt. of {1888} Madras.

PUBLIC WORKS.

Dated October, 4th.

Recd.

Encl.

G.O., 4th Oct. 1888, Nos. 3105,
3106 W.

OCTOBER.

Schedule of requirements
on account of Military Works
for 1889-90

Forwarding —.

2/12

18/12

with list

4TH OCTOBER 1888, Nos. 3105, 3106 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Military Works.
Account.

READ—the following papers:—

From Brigadier-General M. PROTHEROE, C.B., C.S.I., Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 8th September 1888, No. 3268 A.

I have the honor, by order, to forward, for submission to Government, the schedules of requirements in Military Works in connection with the Imperial budget estimate of the Public Works Department for the coming official year.

2. The works have been classified in the usual manner, but as all the class C works in the list attached to the final issue of the budget for the current year * are still required, it has been considered unnecessary to remunerate them, and it will therefore be understood that the schedule of these works now forwarded is merely supplementary to the list above referred to. Similarly the list (D) will be understood to show what minor works are required in addition to those of the list at pages 6, 7, 8 and 9 of appendix to G.O., No. 2642 W., dated 6th October 1887, as it will stand after the works enumerated in list E have been removed from it.

3. The works in class B which require special notice are the following:—

I. *Public buildings for a regiment of Native Cavalry, Bangalore.*—The return of the 1st Madras Lancers from Burma, without relief, in the coming cold season will result in the location of a Madras Cavalry regiment at Bangalore once more, and the public buildings sanctioned for it † should now be provided without delay.

† G.O., No. 1302 W., dated 25th May 1886.

II. *Works in connection with provision of increased accommodation for troops in Fort St. George.*—The necessity for these works is very urgent and, as the Government of India seems unwilling to make a special grant for them, it has been thought as well to include them in the schedule for provision of funds in ordinary course.

III. *New saddle rooms for Madras Cavalry regiment at Bellary.*—The Government Order quoted in the remark column against this work will show its urgency.

IV. *Institutes of British corps.*—The Commander-in-Chief has now under his consideration the detailed proposals in connection with these, and he feels sure Government will concur with him in thinking it most desirable that early measures should be taken towards providing the necessary accommodation, so far as is possible, without prejudice to other urgent works.

V. *New rest-house and site for rest-camp, Guntakal.*—The break of gauge at Guntakal and its increased importance as a junction station makes it desirable that the rest-house and camp required between Arkónam and Wadi (now at Gooty) should be placed there in the future.

VI. *Alterations to Rifle range, Veysarpady.*—The large expenditure (Rs. 9,530) already incurred in providing these ranges will be wasted unless the additional works considered necessary to render them safe for use are carried out; moreover ranges conveniently placed with reference to lines of Native troops at Madras are most desirable, as these troops now have to go to Pallavaram for practice.

X. *Accommodation for two companies, Madras Infantry, in the Fort at Vellore.*—The transfer of the Nagpur force to Bombay, which will shortly be carried out, will set free a regiment, Madras Infantry, to garrison Pallavaram, St. Thomas' Mount and Vellore, so that the accommodation which it has been decided to provide * for the detachment in the fort at the last-named station should be prepared for it at once.

* Proceedings of Government, Military Department, No. 5209, dated 25th August 1887.

4. The new barracks proposed to be provided for a wing, British Infantry, at St. Thomas' Mount have not been included in the schedule as they have not yet been definitely sanctioned, and because even if they had been, funds for them could not be found out of an ordinary grant, but must be provided by a special grant.

ENCLOSURES.

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

Command.	Station.	Item No.	Work.	Cost.
Southern district	Malapuram	1	Barracks for a detachment to accommodate 50 additional men.	RS. 20,000
Eastern district	Poonamallee	2	New barracks	20,000
Southern district	Wellington	3	Quarters for three Apothecaries.	9,500
Bangalore division	Bangalore	4	Addition to public buildings, Madras Infantry Regiment, for a Pioneer Regiment.	5,000

OOTACAMUND,
8th September 1888.

(Signed) D. J. S. McLEOD, Lieut.-Colonel,
Deputy Quartermaster-General.

CLASS B.—Works of special urgency not yet commenced for which funds are absolutely required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
Bangalore division	Bangalore	1	Public buildings for a Madras Cavalry Regiment.	RS. 20,000	Item 6, class B works, budget of 1887-88, and item 41, class C works, budget of 1888-89.
Eastern district	Fort St. George.	2	Sundry works in connection with extra accommodation, British Infantry.	12,345	Item 24, class C works, budget of 1888-89.
Ceded districts	Bellary	3	New saddle rooms for a Madras Cavalry Regiment.	15,000	G.O., No. 1288 W, dated 2nd May 1888.
Madras	Presidency	4	Institutes of British Regiments and Batteries in the Presidency.	30,000	
Ceded districts	Guntakal	5	New rest-house and site for rest-camp	6,705	
Eastern district	Madras	6	Alterations to Rifle Range at Veysarpady	6,130	G.O., M.D., No. 875, dated 8th February 1888.
Ceded districts	Bellary	7	Swimming-bath, British Infantry	7,644	Item 3, class C works, budget of 1888-89.
Do.	Do.	8	Alterations and additions to Military Prison	3,980	Item 2, class C works, budget of 1888-89.
Eastern district	Madras	9	Workshops and sheds for carts and Cattle Transport Department.	20,000	Item 55, class C works, budget of 1888-89.
Do.	Vellore	10	Providing accommodation in the Fort for two companies, Native Infantry.	3,490	Estimate before Government.

OOTACAMUND,
8th September 1888.

(Signed) D. J. S. McLEOD, Lieut.-Colonel,
Deputy Quartermaster-General.

CLASS C.—List of Major Works of less urgency not yet commenced for which funds are also required in addition to those printed in the schedule circulated with the final issue of the budget for 1888-89.

Command.	Station.	Work.	Cost.
Bangalore division ..	Bangalore	One block of two quarters for two Sergeants, "Queen's Own" Sappers and Miners ...	3,000
Ceded districts ...	Bellary	New guard-room for station hospital ...	4,290
		New wing places-of-arms for two regiments, Madras Infantry ...	60,000
		Purveyor's quarters for the station hospital. Quartermaster's store and office on standard plan for British Infantry Regiment ...	3,046
		A ward to accommodate 35 men, station hospital ...	25,000
	Wellington	Quarters for 32 men, Army Hospital, Native corps ...	20,000
		Quarters for Milling Engineer, Commissariat Department ...	12,380
		A bakery ...	7,500
Southern district.	Calicut	A new barrack with subsidiary buildings for 30 men ...	6,860
		Quarters for 11 men of the Army Hospital, Native corps ...	20,000
	Cannanore	Quarters for a Sub-Conductor attached to Army head-quarters ...	3,670
		Converting the Sapper hospital building on Stonehouse hill into quarters for two Sergeant Instructors, Nilgiri Volunteer Rifles. Wash-house to be built outside the barracks in lieu of the north and south wash-houses inside ...	7,500
	Ootacamund	Garrison bazaars to be done away with and new cook-houses built on site ...	3,690
		Mule-shed at Transport lines, Pudupet ...	2,500
Eastern district ...	Fort St. George.	Quarters for two Sergeants at Pudupet ...	4,500
		Constructing a new road from the Mount Road direct to the slaughter-house, Saidá-pet ...	11,210
	Madras		3,500
			3,468

OOTACAMUND,
8th September 1888.

(Signed) D. J. S. McLEOD, Lieut.-Colonel,
Deputy Quartermaster-General.

Office note from the Examiner, Public Works Accounts, dated 24th Sept. 1888, No. 2299.

ORDER—dated 4th October 1888, No. 3105 W., Public Works.

Ordered that the schedule of requirements on account of Military Works in the Madras Presidency for 1889-90 be forwarded to the Government of India in the Military Department.

2. It is observed that the marginally-noted works which the Government in the Military Department desired to be undertaken in the current year and for which the Government of India were requested to provide a special allotment (*vide* para. 4 of G.O., No. 2612 W., dated 24th August 1888) have not been included by the Quartermaster-General in his schedule. As no reply has yet been received from

Converting the block of buildings containing the Main guard, No. 6, Captain's quarters and Ordnance officer's quarters, Fort St. George, into barracks for single men.
Converting the old Adjutant-General's office block, Fort St. George, into barracks for single men.

the Government of India, and as there is no probability of funds becoming available in the current year, the works have been included in the schedule.

3. The Superintending Engineers concerned should lose no time in submitting the necessary plans and estimates for the unsanctioned works included in the schedule, as none of them can find place in the budget estimates for 1889-90 unless plans and estimates have been previously sanctioned.

(Here enter No. 3106 W., dated 4th October 1888.)

(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, 4th October 1888, No. 3106 W.

In forwarding herewith the Proceedings of this Government, No. 3105 W., dated 4th October 1888, and the schedule of requirements on account of Military Works for 1889-90, I am directed to invite the attention of the Government of India to para. 4 of the Quartermaster-General's letter printed with the Proceedings herewith forwarded, and to request that a special grant may be assigned for the new barracks proposed to be provided for a wing of British Infantry at St. Thomas' Mount. I am also directed to request that a liberal grant may be assigned for 1889-90, in order that many important works now kept back for want of funds may be undertaken in the year.

2. The demands on account of Ordnance Works have not been included in the schedule, as neither the Director-General nor the Inspector General of Ordnance has reported the requirements of the Ordnance Department. It is, however, presumed that the Director-General of Ordnance will submit the schedule of requirements on account of Ordnance buildings direct to the Government of India (*vide* para. 4 of his letter No. 90 E., dated 2nd January 1888, printed with the Proceedings forwarded to the Government of India with letter No. 190 W., dated 17th January 1888), and that a separate grant will be provided for the Ordnance Works required for 1889-90.

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

Exd. J. Henricus.
Spare Copies

MILITARY WORKS.
ACCOUNT.

Gobt. of (1888) Madras.
PUBLIC WORKS.

Dated October, 4th.

Recd.

Encl.

G.O., 4th Oct. 1888, Nos. 3105,
3106 W.

OCTOBER.

Schedule of requirements
on account of Military Works
for 1889-90

Forwarding —.

MILITARY WORKS.
ACCOUNT.

Gobi. of {1888} Madras.
PUBLIC WORKS.

Dated October, 4th.

Recd.

Encl.

G.O., 4th Oct. 1888, Nos. 3105,
3106 W.

OCTOBER.

Schedule of requirements
on account of Military Works
for 1889-90

Forwarding —.

Appendix to G.O., No. 3105 W., dated 4th October 1888.

BUILDINGS AND ROADS.

SCHEDULE of the probable requirements of the Madras Presidency on account of Military Works for 1889-90.

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	ORIGINAL WORKS.					Repairs.	Estab-lish-ment.	Tools and plant.	Sus-pense.	Grand Total.	Remarks.
						Major works.		Minor works.		Total.						
						Works in progress.	New works.	Total.	Minor works.							
1. Accommodation for European troops on the Plains.	West Coast.	Malapuram.	1	Barracks for a detachment of British Infantry to accommodate 50 additional men.	A	Rs. 20,000	..	..	..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate of Rs. 1,88,712 was sanctioned in G.O., No. 2538 W., dated 18th August 1888. Item No. 2, class A works, budget of 1888-89.
	Nilgiri	Wallington.	2	Quarters for three Apothecaries.	A	9,500	..	..	..	..	..	..	..	..	..	Estimate of Rs. 16,000 was sanctioned in G.O., No. 2448 W., dated 13th August 1888. Item No. 1, class B works, budget of 1888-89.
	Chingleput.	Poonamallee	3	New barracks	A	20,000	..	..	..	..	..	..	..	..	..	Revised estimate of Rs. 1,72,674 has been received and is under consideration. Item No. 2, class B works, budget of 1888-89.
	Presidency.	Fort St. George.	4	Sundry works in connection with extra accommodation, British Infantry.	B	..	12,345	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 24, class C works, budget of 1888-89.
	Do.	Do.	5	Converting the block of buildings containing the main guard, No. 6, Captains' quarters and Ordnance officers' quarters into barracks for single men.	B	..	6,785	..	..	..	..	..	..	..	..	Estimate of Rs. 5,785 was sanctioned in G.O., No. 2612 W., dated 24th August 1888.
	Do.	Do.	6	Converting the old Adjutant-General's office block into barracks for single men.	B	..	5,400	..	..	..	..	..	..	..	..	Estimate of Rs. 5,400 was sanctioned in G.O., No. 3000 W., dated 9th November 1887.
	..	..	7	Institutes of British Regiments and Batteries in the Presidency.	B	..	30,000	..	..	..	..	..	..	..	..	Estimates are awaited.
	Bellary	Bellary	8	Swimming-bath, British Infantry.	B	..	7,644	..	..	..	..	..	..	..	..	Estimate of Rs. 7,644 was sanctioned in G.O., No. 2434 W., dated 19th October 1888. Item No. 3, class C works, budget of 1888-89.
	Do.	Do.	9	Alterations and additions to the Military prison.	B	..	3,980	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 2, class C works, budget of 1888-89.
	Do.	Do.	10	Guard-room for the station hospital.	C	..	4,290	..	..	..	..	..	..	..	..	Estimate of Rs. 4,290 was sanctioned in G.O., No. 1384 W., dated 11th May 1888.

Schedule of the probable requirements of the Madras Presidency on account of Military Works for 1889-90—cont.

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	ORIGINAL WORKS.					Repairs.	Estab-lish-ment.	Tools and plant.	Sus-pense.	Grand Total.	Remarks.
						Major works.			Minor works.	Total.						
						Works in progress.	New works.	Total.								
Bellary ..	Bellary ..	11	Infectious disease ward, cook-house and station hospital.	C	Rs. ..	Rs. 6,140	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate of Rs. 6,140 was sanctioned in G.O., No. 320 W., dated 7th February 1884. Item No. 1, class C works, budget of 1888-89.	
Do. ..	Do. ..	12	Quarters for Bandmaster, British Infantry.	C	..	4,075	..	..	..	..	..	..	..	..	..	Estimate of Rs. 4,075 was sanctioned in G.O., No. 1441 W., dated 16th May 1888. Item No. 5, class C works, budget of 1888-89.
Do. ..	Do. ..	13	Quarters for Schoolmaster, British Infantry Regiment.	C	..	2,950	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 6, class C works, budget of 1888-89.
Do. ..	Do. ..	14	Quarters for Schoolmistress, British Infantry Regiment.	C	..	2,950	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 7, class C works, budget of 1888-89.
Do. ..	Do. ..	15	Purveyor's quarters for the station hospital.	C	..	3,046	..	..	..	..	..	..	..	..	..	Estimate of Rs. 3,046 was sanctioned in G.O., No. 771 W., dated 7th March 1888.
Nilgiri ..	Wellington.	16	Quartermaster's stores and office on standard plan for British Infantry Regiment.	C	..	25,000	..	..	..	..	..	..	..	..	..	Estimate is awaited.
Do. ..	Do. ..	17	A ward to accommodate 35 men, station hospital.	C	..	20,000	..	..	..	..	..	..	..	..	..	Do.
Do. ..	Do. ..	18	Gymnasium, 2nd Royal Fusiliers.	C	..	10,000	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 8, class C works, budget of 1888-89.
Do. ..	Ootacamund	19	Quarters for a Sub-Conduc- tor attached to the Army head-quarters.	C	..	7,500	..	..	..	..	..	..	..	..	..	Estimate is awaited.
Do. ..	Do. ..	20	Converting the Sapper hos- pital building on Stone- house hill into quarters for 2 Sergeant Instructors N.V. Rifles.	C	..	3,600	..	..	..	..	..	..	..	..	..	Estimate of Rs. 3,600 was sanctioned in G.O., No. 1068 W., dated 9th April 1888.
Do. ..	Wellington.	21	Quarters for 3 Hospital Pur- veyors.	C	..	4,750	..	..	..	..	..	..	..	..	..	Estimate of Rs. 4,750 was sanctioned in G.O., No. 615 W., dated 21st February 1888. Item No. 49, class C works, budget of 1888-89.
West Coast.	Calicut ..	22	A new barrack with subsi- diary building for 30 men.	C	..	20,000	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 9, class C works, budget of 1888-89.

For European Troops on the Plains, Permanent—cont.

1. Accommodation for Troops—Buildings

Presidency.	Bangalore.	23	One block of two quarters for two Sergeants, "Queen's Own" Sappers and Miners.	C	..	3,000	..	..	..	..	..	..	..	..	..	Estimate is awaited.
Do. ..	Do. ..	24	Quarters for Schoolmaster and Schoolmistress, Royal Artillery.	C	..	10,240	..	..	..	..	..	..	..	..	..	Estimate of Rs. 10,240 was sanctioned in G.O., No. 2384 W., dated 20th September 1886. Item No. 28, class C works, budget of 1888-89.
Do. ..	Do. ..	25	New orderly-room or conversion of Quartermaster's stores into orderly-room and stores, 12th Lancers.	C	..	6,500	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 29, class C works, budget of 1888-89.
Do. ..	Do. ..	26	Battery office for Royal Horse Artillery.	C	..	5,680	..	..	..	..	..	..	..	..	..	Estimate of Rs. 5,680 was sanctioned in G.O., No. 2906 W., dated 17th September 1888. Item No. 30, class C works, budget of 1888-89.
Do. ..	Do. ..	27	Buildings for wheelers' shop, Royal Artillery.	C	..	3,100	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 31, class C works, budget of 1888-89.
Do. ..	Do. ..	28	Quarters for the Senior Apothecary, North Station Hospital.	C	..	5,300	..	..	..	..	..	..	..	..	..	Estimate of Rs. 5,300 was sanctioned in G.O., No. 3385 W., dated 27th November 1883. Item No. 34, class C works, budget of 1888-89.
Do. ..	Do. ..	29	Quarters for the Assistant Apothecary, North Station Hospital.	C	..	4,773	..	..	..	..	..	..	..	..	..	Estimate of Rs. 4,773 was sanctioned in G.O., No. 938-2 W., dated 6th April 1884. Item No. 35, class C works, budget of 1888-89.
Do. ..	Fort St. George.	30	Wash-houses to be built outside the barracks in lieu of the north and south wash-houses inside.	C	..	2,500	..	..	..	..	..	..	..	..	..	Estimate is awaited.
Do. ..	Do. ..	31	Garrison bazaars to be done away with and new cook-houses to be built on the site.	C	..	4,500	..	..	..	..	..	..	..	..	..	Do.
Do. ..	Do. ..	32	Repairs to floors of B, C and D blocks, family quarters.	C	..	10,070	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 25, class C works, budget of 1888-89.
Do. ..	Do. ..	33	Construction of coach-houses and stables for the use of officers.	C	..	15,770	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 26, class C works, budget of 1888-89.
Chingleput.	Poonamallee.	34	Warrant officers' quarters.	C	..	3,500	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 11, class C works, budget of 1888-89.
Do. ..	Do. ..	35	Two Staff Sergeants' quarters, first class.	C	..	6,000	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 12, class C works, budget of 1888-89.
Do. ..	Do. ..	36	Coffee-shop.	C	..	9,000	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 13, class C works, budget of 1888-89.
Do. ..	Pallavaram.	37	One mortuary-room for each of the three hospitals, Nos. 1 to 3.	C	..	3,000	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 14, class C works, budget of 1888-89.
Do. ..	St. Thomas' Mount.	38	A wheeler and collar-maker's shop for the west barracks.	C	..	6,660	..	..	..	..	..	..	..	..	..	Estimate of Rs. 6,660 was sanctioned in G.O., No. 2717 W., dated 3rd November 1884. Item No. 15, class C works, budget of 1888-89.

Schedule of the probable requirements of the Madras Presidency on account of Military Works for 1889-90—*cont.*

I. Accommodation

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7. General Cantonment Works.

Schedule of the probable requirements of the Madras Presidency on account of Military Works for 1889-90—cont.

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.							
						Works in progress.	New works.	Total.	Total.							
7. General Cantonment Works—cont.	Presidency.	Bangalore.	70	Drainage of Royal Horse Artillery Grass-cutters' lines at Ulsoor and preventing the fouling of the adjacent nullah.	C	Rs. 2,846	Rs. 8,112	Rs. 10,958	Rs. 4,300	Rs. 15,258	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 29,558	Estimate of Rs. 2,846 was sanctioned in G.O., No. 1261 W., dated 1st May 1888. Item No. 32, class C works, budget of 1888-89.	
	Do.	Do.	71	Drainage, British Infantry barracks.	C	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 4,300	Rs. 18,600	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 32,900	Estimate of Rs. 8,112 was sanctioned in G.O., No. 9615 W., dated 24th August 1888. Item No. 33, class C works, budget of 1888-89.	
	Do.	Fort St. George.	72	Remodelling the drainage.	C	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 4,300	Rs. 18,600	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 32,900	Estimate of Rs. 8,112 was sanctioned in G.O., No. 9615 W., dated 24th August 1888. Item No. 33, class C works, budget of 1888-89.	
	Do.	Madras.	73	Flushing drains of Native Infantry lines at Rajapuzam.	C	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 4,300	Rs. 18,600	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 32,900	Estimate of Rs. 8,112 was sanctioned in G.O., No. 9615 W., dated 24th August 1888. Item No. 33, class C works, budget of 1888-89.	
Chingleput.	St. Thomas Mount.		74	General improvements to the drains of the cantonment.	C	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 4,300	Rs. 18,600	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 32,900	Estimate of Rs. 8,112 was sanctioned in G.O., No. 9615 W., dated 24th August 1888. Item No. 33, class C works, budget of 1888-89.	
	West Coast.	Malapuan.	75	Constructing a fortified post.	C	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 4,300	Rs. 18,600	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 32,900	Estimate of Rs. 8,112 was sanctioned in G.O., No. 9615 W., dated 24th August 1888. Item No. 33, class C works, budget of 1888-89.	
Presidency.	Fort St. George.		76	Demolition of Wallajah ravelin and two lunettes.	C	Rs. 7,426	Rs. 4,487	Rs. 11,913	Rs. 4,300	Rs. 16,213	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 28,513	Estimate of Rs. 7,426 was sanctioned in G.O., No. 3114 W., dated 18th November 1897. Item No. 38, class C works, budget of 1888-89.	
	Do.	Do.	77	Constructing a draw-bridge at the north gate.	C	Rs. 4,487	Rs. 10,000	Rs. 14,487	Rs. 4,300	Rs. 18,787	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 33,087	Estimate is awaited. Item No. 59, class C works, budget of 1888-89.	
Do.	Do.		78	Demolition of out-houses, clearance of ditch and completion of walls.	C	Rs. 10,000	Rs. 12,350	Rs. 22,350	Rs. 4,300	Rs. 26,650	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 40,950	Estimate of Rs. 4,487 was sanctioned in G.O., No. 2447 W., dated 13th August 1888. Item No. 60, class C works, budget of 1888-89.	
Nalgiri.	Ootacamund.		79	Water-supply, Lawrence Asylum.	C	Rs. 15,957	Rs. 6,14,543	Rs. 6,30,500	Rs. 1,50,000	Rs. 7,80,500	Rs. 10,000	Rs. 4,300	Rs. 14,300	Rs. 7,94,800	Estimate is awaited. Item No. 61, class C works, budget of 1888-89.	
	Do.	Do.		Reserve with the Government for incomplete Major Works.	..	Rs. 70,457	Rs. 6,14,543	Rs. 6,85,000	Rs. 1,50,000	Rs. 8,35,000	Rs. 3,50,000	Rs. 2,72,300	Rs. 17,700	Rs. 14,75,000	Estimate of Rs. 12,350 has been received and the sanction of the Government of India to the inclusion of the work in the budget has been applied for—vide G.O., No. 2139 W., dated 14th July 1888. Item No. 62, class C works, budget of 1888-89.	
4. Staff and Miscellaneous.				Total ..	..	Rs. 70,457	Rs. 6,14,543	Rs. 6,85,000	Rs. 1,50,000	Rs. 8,35,000	Rs. 3,50,000	Rs. 2,72,300	Rs. 17,700	Rs. 14,75,000		

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 1889-90.

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.
Eastern District.	Fort St. George.	Store-room, forge workshop—Arsenal.	Rs. 520	} When funds are available.
	Do.	A new bridge across trench in new park—Arsenal.	810	
	Do.	I. 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.	New record shelves in the office of Commissariat Accounts.	1,860	
	Do.	Constructing two solitary cells in the military prison.	2,445	Very urgently required.
	Do.	Constructing a verandah in front of the choultry gate now used as the Commissariat ration shed.	650	} Necessary.
	Madras	Ordnance store-room—Beach...	1,250	
	Do.	Huts, infectious disease—Station hospital.	750	} When funds are available.
	Do.	Regimental school—Perambur 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.	Drainage—Bakery premises...	950	} When funds are available.
	Do.	Gram-boiling shed—Mulle lines.	1,500	
	Do.	Latrine for hospital—Rayapuram lines.	1,000	
	Do.	Converting one Sub-Conductor's quarters, Commissariat Department, to Conductor's quarters by adding a room 18' x 16'.	576	} Approved.
	Do.	Store-room to 3 Warrant officers and 4 Sergeants' quarters—Commissariat Department.	1,000	
	Do.	Additional latrine accommodation—Army Clothing Department.	536	
	Do.	Granite stone foundation for machinery to wheel-wrights' shop—Gun Carriage Factory.	890	} Necessary.
	Do.	Laying on Red Hills water in pipes to the quarters of the Conductor and Mechanical Engineer at the Government Bakery, Teynampet.	560	
	Do.	Constructing sick shed (50' x 12')—Transport Department.	1,200	
	Do.	Constructing a weighing-shed (30' x 20')—Transport line, Pudupet.	1,200	} When funds are available.
	Do.	Constructing a cistern to hold Red Hills water at the Government Bakery.	530	

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.
Eastern District—cont.	Madras ...	Constructing a slinging shed in the Body Guard lines.	Rs. 836	When funds are available.
	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.	585	Vide G.O., No. 2557 W., dated 2nd November 1885.
	Do. ...	Constructing a second verandah to the harness-room attached to east barracks, Royal Artillery.	1,170	Very necessary.
	Do. ...	Constructing two store-rooms and two cook-rooms to recreation room, library and coffee-shop, east barracks.	700	When funds are available.
	Do. ...	Drains in stables, east barracks.	800	
	Do. ...	Coating the pillars of Royal Artillery stables in the east and west barracks.	880	Approved.
	Do. ...	Constructing three line-gear rooms for Royal Artillery stables, east barracks.	1,140	
	Do. ...	Converting the vacant family quarters, south barracks, into quarters for medical subordinates doing duty at the station hospital.	1,070	When funds are available.
	Do. ...	Providing granite stone flooring to the verandahs of the harness-rooms, west barracks.	540	
	Pallavaram ...	Tiled-shed ...	636	When funds are available.
	Poonamallee.	Wall, new—Family quarters ...	1,000	
	Do. ...	Constructing new walls between the latrines of the family quarters.	730	Approved.
	Do. ...	Providing lightning-conductor to the station hospital.	2,400	
	Do. ...	Improving drains in cantonment	1,500	Approved.
	Do. ...	Bullocks' shed—Commissariat Department.	510	
	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	
	Do. ...	Contagious disease shed ...	917	Approved.
	Berhampore...	Building for Commissariat stores and office.	1,200	When funds are available.
	Do. ...	Extension of the main drains, Regimental lines.	1,000	Necessary.
Bangalore Division.	Arkónam ...	Improving drains outside the compounds of the rest-house.	560	Approved.
	Bangalore ...	Royal Artillery—Latrine, Staff Sergeants' quarters, Royal Horse Artillery.	2,100	Very necessary, on sanitary grounds.

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.
Bangalore Division—cont.	Bangalore ...	Quarters, Battery—Quartermaster Sergeant, Royal Horse Artillery.	Rs. 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	Necessary. Estimate already sanctioned by Government.
	Do. ...	Stone floor to gun-shed, &c. ...	1,160	
	Do. ...	Two Riding schools ...	1,156	Very desirable.
	Do. ...	Latrine—Six seats for men at stables.	600	When funds are available.
	Do. ...	Camp equipage stores—Connecting with water-supply.	1,170	
	Do. ...	Latrine for followers ...	1,600	Necessary.
	Do. ...	North Station Hospital—Quarters for men of Army Hospital, Native Corps.	756	
	Do. ...	South Station Hospital—Quarters for men of Army Hospital, Native Corps.	924	When funds are available.
	Do. ...	Improving place-of-arms and hospital.	700	
	Do. ...	Improving Staff Sergeants' quarters.	2,000	Urgently required.
	Do. ...	Improving road from race-course barracks to slaughter-house.	1,400	
	Do. ...	Additions to accommodation in Transport lines.	1,545	Very necessary.
	Do. ...	Converting Sergeants' quarters into Sub-Conductors' quarters.	1,000	
	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	
	Do. ...	Preparing a boarded floor in the room now used as a fencing-room.	800	Approved.
	Do. ...	Lining with stone the drain east and west of barrack limits, parade barracks.	1,538	
	Do. ...	New drains in Transport lines to carry off water.	1,100	Desirable.
	Do. ...	A room suitable for an office for the Quartermaster 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	Approved.
	Do. ...	Two horse-stables for Staff Sergeants' quarters, Commissariat Department.	570	
	Do. ...	Two servants' quarters for do.	637	Necessary.

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

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.
Bangalore Division— <i>cont.</i>	Bangalore ...	Quarters for one first-class Purveyor, North Station Hospital.	RS. 800	Necessary.
	Do. ...	Do. for one second-class do.	600	
	Do. ...	Providing glazed slashes to the Staff and Married Sergeants' quarters, "Queen's Own" Sappers and Miners, at St. John's Hill.	575	
	Matigiri ...	Rebuilding the partition walls between the stalls of the forty horse-stables, Remount Depot.	890	Necessary.
	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 asphalté.	670	
	Do. ...	Drain pipes required to be fitted around the buildings to carry off rain-water from the roofs.	1,690	Desirable.
	Do. ...	Skittle alley ...	1,600	When funds are available.
	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		
Do. ...	Enlarging a well in the cantonment.	854		
Do. ...	Converting No. 5 division workshop in the Arsenal into an office for the gate conductor.	1,464		
Ceded Districts.	Do. ...	Boarding portion of floor of the gymnasium, providing new horizontal bar and fitting up racks for dumb-bells.	1,050	Desirable.
	Do. ...	Improving present Armourers' shop, Native Cavalry, by adding a browning room and opening a large window.	700	Very necessary.
	Do. ...	Skittle alley for British Infantry.	1,600	When funds are available.
	Wellington ...	Renewing floors of latrines and school block.	1,680	Necessary.
	Do. ...	Enlarging Purveyors' stores ...	2,000	Very necessary.
	Do. ...	Supplying cooking stove, Sergeants' mess.	800	Desirable.
	Do. ...	Shed for dhooly-bearers and dhooly.	2,300	Approved, but estimate seems very high.
	Do. ...	A building for manufacturing blank ammunition.	1,000	Necessary.
	Do. ...	A ward for lunatic men in the Station Hospital.	850	
	Southern Districts.	Cannanore ...	Alterations and improvements to the Government Bakery.	2,117
Calicut ...		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.

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.
Southern Districts— <i>cont.</i>	Do. ...	Road to Transport lines ...	RS. 1,000	Approved, if such a road is found necessary when a site for the new lines is finally settled.
	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	
	Do. ...	Quarters for Hospital Purveyor, West Hill barracks.	1,163	Necessary.
	Malapuram ...	Converting beer godown into a gymnasium for detachment.	790	Very necessary.
	Do. ...	Providing a platform and pump to well.	1,110	
	Do. ...	Quarters for Hospital Purveyor.	1,250	Necessary.
	Do. ...	Quarters for 7 men of the Army Hospital, Native Corps.	2,030	
	Do. ...	Converting the old contagious disease ward into quarters for the Commissariat Sergeant.	2,270	
Belgaum District.	Quilon ...	Renewing floor of hospital ...	1,970	Desirable.
	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	
	Do. ...	Putting a tar composite floor in place-of-arms in lieu of the existing wooden floor—Native Infantry.	653	Approved.
	Do. ...	Constructing parapet walls to two wells, erecting nine dustbins and providing six designation boards for hospital ward—31st Light Infantry.	671	
	Do. ...	Lump-sum provision for works costing below Rs. 500 each.	22,004	
	Total ...		1,50,000	