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GOVERNMENT OF TAMIL NADU

Public works DEPARTMENT

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4TH OCTOBER 1882, No. 2590 W., PUBLIC WORKS.

3002
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General Account.

No. 24.

READ—the following papers:—

From the Quartermaster-General of the Army, through the Military Department, dated 20th September 1882, No. 1026.
From do. do. do. dated 27th September 1882, No. 7760.

No. 25.

ORDER—dated 4th October 1882, No. 2590 W., Public Works.

Ordered that the Schedule of Military requirements on account of Public Works, under Buildings and Roads in the Madras Presidency for 1883-84, be submitted to the Government of India in the Military Department as directed in letter No. 283 A.G., dated 11th September, from the Government of India.

2. Ordered also that the list of Military Works estimated to cost below Rs. 2,500 each be printed and circulated to Superintending Engineers, in view to the necessary plans and estimates being prepared in time to admit of the grant that may be made for Minor Works in 1883-84 being utilized.

3. Superintending Engineers are also reminded that no time should be lost in the preparation and submission of the necessary plans and estimates for those unsanctioned works which have been entered in the schedule, as no work can find a place in the outgoing Budget Estimate for which plans and estimates have not been duly sanctioned.

(Here enter No. 2591 W., dated 4th October 1882.)

(True Extract.)

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

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

Exd. S. T. Austin.
Spare Copies.

GENERAL.
ACCOUNT.

Govt. of (1882) Madras.

PUBLIC WORKS.

Dated October, 4th.

Read. *Encl.*

G.O., 4th Oct. 1882, No. 2590 W.

OCTOBER.
Nos. 24-25.

Schedule of Military requirements.

Ordered that the — on account of Public Works, under Buildings and Roads in the Madras Presidency for 1883-84, be submitted to the Government of India.

Appendix to G.O., No. 2590 W., dated 4th October 1882.

36023
2

BUILDINGS AND ROADS.

SCHEDULE of the probable requirements of the Madras Presidency on account of Imperial Works for 1883-84.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Class.	Original Works. Major Works. Works in Progress.	Major Works. New Works.	Major Works. Total.	Minor Works.	Total.	Repairs.	Establishment.	Tools and Plant.	Suspense.	Grand Total.	Remarks.
				IMPERIAL ORDINARY.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
				MILITARY.												
				Barracks for European Troops at Poonamallee.												
(1) Accommodation for Troops— Buildings for European Troops in the plains— Permanent.	Chinglepat ..	Poonamallee ..	1	New double-storied Barracks for 200 men with out-houses .. .. .. New quarters for thirty families with out-houses. Do. for Apothecary .. .. Alterations to existing buildings and demolitions.	A.	1,00,000	..	1,00,000	..	1,00,000	..	..	..	..	..	Estimate of Rs. 2,70,506, sanctioned by the Government of India, Register No. 38 M.W. of 1878-79. G.O., No. 495 W. of 20th February 1879. Item No. 1, Class A. Works of Budget of 1882-83.
	Do. ..	St. Thomas' Mount.	2	New Barracks for Royal Artillery ..	A.	1,00,000	..	1,00,000	..	1,00,000	..	..	..	..	..	Estimate of Rs. 1,27,750, sanctioned in G.O., No. 1304 W. of 25th July 1882. Item No. 2, Class A. Works of Budget of 1882-83.
	Do. ..	Do. ..	3	Plunge bath for do. ..	B.	..	12,600	12,600	..	12,600	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	4	Cooly shops, three in number, one for each north, south and the new Artillery Barracks.	A.	..	9,000	9,000	..	9,000	..	..	..	..	..	Do.
	Do. ..	Do. ..	5	Stables for horses for two Field Batteries ..	A.	..	89,190	89,190	..	89,190	..	..	..	..	..	Estimate awaited. Item No. 1, Class C. Works of Budget of 1882-83.
	Do. ..	Do. ..	6	Raising main walls, &c., of the east and west harness rooms of Troop lines.	B.	..	4,200	4,200	..	4,200	..	..	..	..	..	Estimate of Rs. 4,200, sanctioned in G.O., No. 3137 W. of 17th December 1881.
	Coimbatore ..	Malapuram ..	7	Barracks for Detachment, British Infantry, to accommodate 100 men.	A.	55,000	..	55,000	..	55,000	..	..	..	..	..	Estimate of Rs. 90,830, sanctioned in G.O., No. 1840 W. of 18th July 1882. Item No. 3, Class A. Works of Budget of 1882-83.
	Do. ..	Do. ..	8	Canteen for do. do.	B.	..	5,000	5,000	..	5,000	..	..	..	..	..	Estimate awaited. Item No. 3, Class E. Works of Budget of 1882-83.
	Do. ..	Do. ..	9	Gymnasium for do. do.	B.	..	5,000	5,000	..	5,000	..	..	..	..	..	Estimate awaited. Item No. 4, Class C. Works of Budget of 1882-83.
	Do. ..	Cannanore ..	10	Plunge bath for the British Infantry ..	B.	..	4,670	4,670	..	4,670	..	..	..	..	..	Estimate of Rs. 4,670, sanctioned in G.O., No. 418 of 10th February 1876. Item No. 5, Class C. Works of Budget of 1882-83.
	Do. ..	Do. ..	11	Improving latrines of the British Infantry Regiment.	B.	..	2,780	2,780	..	2,780	..	..	..	..	..	Estimate of Rs. 2,780, sanctioned in G.O., No. 1056 of 4th April 1879. Item No. 6, Class C. Works of Budget of 1882-83.
	Do. ..	Do. ..	12	Boarded doors to the Hospital of the British Infantry.	B.	..	6,500	6,500	..	6,500	..	..	..	..	..	Estimate awaited. Item No. 7, Class C. Works of Budget of 1882-83.
	Bellary ..	Bellary ..	13	Constructing stables for one Field Battery.	A.	21,500	..	21,500	..	21,500	..	..	..	..	..	Estimate awaited. Item No. 6, Class A. Works of Budget of 1882-83.
	Do. ..	Do. ..	14	Infectious ward of station hospital ..	B.	..	5,000	5,000	..	5,000	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	15	New gun shed with Collar makers and Wheeler's shop combined for the Royal Artillery.	B.	..	23,000	23,000	..	23,000	..	..	..	..	..	Estimate awaited. Item No. 13, Class C. Works of Budget of 1882-83.
	Do. ..	Do. ..	16	New pattern punkahs for half Battalion of British Infantry.	A.	1,758	..	1,758	..	1,758	..	..	..	..	..	Estimate of Rs. 5,000, sanctioned in G.O., No. 427 W. of 11th February 1879. Item No. 8, Class A. Works of Budget of 1882-83.
	Presidency ..	Bangalore ..	17	Alterations and additions to wash-houses for the British Infantry.	A.	..	12,560	12,560	..	12,560	..	..	..	..	..	Estimate of Rs. 12,560, sanctioned in G.O., No. 1102 W. of 7th May 1880. Item No. 8, Class C. Works of Budget of 1882-83.
	Do. ..	Do. ..	18	Garrison Gymnasium of the Fourth Class ..	A.	..	44,600	44,600	..	44,600	..	..	..	..	..	Estimate of Rs. 44,600, sanctioned in G.O., No. 1560 of 21st June 1876. Item No. 9, Class C. Works of Budget of 1882-83

the Madras Presidency on account of Imperial Works for 1883-84—*cont.*

Class.	Ordinary Works. Major Works. Works in Progress.	New Works.	Total.	Minor Works.	Total	Establishment.	Establishment.	Tools and Plant.	Suspense	Grand Total.	Remarks.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
D.	..	6,120	6,120	..	6,120	..	..	..	..	..	Estimate of Rs. 6,120, sanctioned in G.O., No. 3066 W. of 2nd December 1879. Item No. 10, Class C. Works of Budget of 1882-83.
A.	..	1,60,000	1,60,000	..	1,60,000	..	..	..	..	..	Estimate of Rs. 1,500, sanctioned in G.O., No. 1484 W. of 24th June 1882. Estimates for other works awaited. Item No. 11, Class C. Works of Budget of 1882-83.
A.	..	2,930	2,930	..	2,930	..	..	..	..	..	Estimate of Rs. 2,930, sanctioned in G.O., No. 3066 W. of 2nd December 1879.
A.	..	17,100	17,100	..	17,100	..	..	..	..	..	Estimate awaited.
A.	..	4,830	4,830	..	4,830	..	..	..	..	..	Do. do.
A.	..	3,300	3,300	..	3,300	..	..	..	..	..	Do. do.
A.	..	6,000	6,000	..	6,000	..	..	..	..	..	Estimated awaited. Item No. 9, Class A. Works of Budget of 1882-83.
A.	..	4,800	4,800	..	4,800	..	..	..	..	..	Estimate awaited.
A.	..	3,600	3,600	..	3,600	..	..	..	..	..	Do. do.
A.	..	3,120	3,120	..	3,120	..	..	..	..	..	Estimate of Rs. 3,120, sanctioned in G.O., No. 1372 W. of 4th June 1374. Item No. 14, Class C. Works of Budget of 1882-83.
A.	..	3,120	3,120	..	3,120	..	..	..	..	..	Estimate awaited. Item No. 10, Class A. Works of Budget of 1882-83.
B.	..	15,000	15,000	..	15,000	..	..	..	..	..	Estimated awaited. Item No. 16, Class C. Works of Budget of 1882-83.
A.	..	10,000	10,000	..	10,000	..	..	..	..	..	Estimate awaited. *Vide* letter to the Government of India, No. 1956 W. of 2nd August 1882.
A.	..	3,360	3,360	..	3,360	..	..	..	..	..	Estimate under consideration.
A.	..	3,500	3,500	..	3,500	..	..	..	..	..	Estimate of Rs. 3,500, sanctioned in G.O., No. 2155 W. of 31st August 1881. Item No. 16, Class C. Works of Budget of 1882-83.
B.	..	2,695	2,695	..	2,695	..	..	..	..	..	Estimate of Rs. 2,695, sanctioned in G.O., No. 2266 W. of 14th September 1881. Item No. 17, Class C. Works of Budget of 1882-83.
A.	..	12,000	12,000	..	12,000	..	..	..	..	..	Estimate awaited. *Vide* letter to Government of India No. 1956 W. of 2nd August 1882.
B.	..	3,200	3,200	..	3,200	..	..	..	..	..	Estimate awaited.
A.	..	30,000	30,000	..	30,000	..	..	..	..	..	Do. do.
B.	..	3,000	3,000	..	3,000	..	..	..	..	..	Do. do.
B.	..	3,100	3,100	..	3,100	..	..	..	..	..	Do. do.
B.	..	4,800	4,800	..	4,800	..	..	..	..	..	Do. do.
A.	..	4,030	4,030	..	4,030	..	..	..	..	..	Estimate of Rs. 4,030, sanctioned in G.O., No 2413 W. of 16th September 1882.
A.	..	4,940	4,940	..	4,940	..	..	..	..	..	Estimate of Rs. 4,940, sanctioned in G.O., No. 2222 W. of 30th August 1882.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Works for 1883-84—*cont.*

39d2-3/3

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Class.	Ordinary Works.					Repairs.	Establishment.	Tools and Plant.	Suspense.	Grand Total.	Remarks.
						Major Works.			Minor Works.	Total.						
						Works in Progress.	New Works.	Total.								
				IMPERIAL ORDINARY—*cont.*		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
				MILITARY—*cont.*												
				Improvements to the Gun Powder Factory.												
(2) Ordnance Works—*cont.*				Composition Mills, one group, viz :—												
				1 Charcoal Pulverizing room												
				1 Sulphur do.												
			43	1 Mixing room	A.	..	21,050	21,050	..	21,050	..	..	..	..	..	
				1 House for 8 H.P. engine with two boilers.												
				1 Tank												
				Glazing and dusting houses, one group, viz. :—												
				1 Glazing house												
				1 Dusting do.												
			44	1 House for 12 H.P. engine and two boilers.	A.	..	92,000	92,000	..	92,000	..	..	..	..	..	Estimate of Rs. 1,99,305, sanctioned in G.O., No. 2740 of 31st October 1879, No. 428 W. of 17th February 1881, No. 2489 W. of 10th October 1881, No. 2913 W. of 13th June 1881, No. 425 W. of 10th February 1882, and No. 1399 W of 5th June 1882. Further estimates awaited. Item No. 16, Class A. Works of Budget of 1882-83.
	Presidency ..	Madras ..		1 Watch-house												
				1 Deposit Magazine												
				1 Tank												
				Complete with traverses, tramways, roads, &c.												
				Incorporating Mills, one group, Nos. 4, viz. :—												
				6 Mill rooms												
			45	1 House for 25 H.P. engine with two boilers.	A.	..	50,000	50,000	..	50,000	..	..	..	..	..	
				1 Green Charge Deposit Magazine ..												
				2 Watch-houses												
				1 Tank												
				Complete with tramways and roads.												
			46	1 Master Worker's house	A.	..	16,170	16,170	..	16,170	..	..	..	..	..	
			47	1 Master Refiner's do.	A.	..	15,000	15,000	..	15,000	..	..	..	..	..	
				Pebble-cutting house—												
			48	1 Granulating house to be converted into a Pebble-cutting machine house.	A.	..	8,000	8,000	..	8,000	..	..	..	..	..	
				New additional compound walls												
			49	2 Bridges	A.	..	22,300	22,300	..	22,300	..	..	..	..	..	
(3) Commissariat Buildings.	Bellary ..	Bellary ..	50	Slaughter house and hanging shed for meat	A.	..	7,210	7,210	..	7,210	..	..	..	..	..	Estimate awaited. Item No. 18, Class A. Works of Budget of 1882-83.
	Do. ..	Madras ..	51	Sheds for the public cattle and lines for their attendants.	B.	..	70,000	70,000	..	70,000	..	..	..	..	..	Estimate awaited. Item No. 19, Class C. Works of Budget of 1882-83.
	Coimbatore ..	Mulapuram ..	52	Quarters for a Commissariat Staff Sergeant	B.	..	4,000	4,000	..	4,000	..	..	..	..	..	Estimate awaited. Item No. 20, Class C. Works of Budget of 1882-83.
	Presidency ..	Madras ..	53	New slaughter house	B.	..	17,580	17,580	..	17,580	..	..	..	..	..	Estimates awaited.
	Do. ..	Do. ..	54	Quarters for Station Butcher	B.	..	4,740	4,740	..	4,740	..	..	..	..	..	Do. do.
	Do. ..	Do. ..	55	Quarters for the Warrant and Non-Commissioned officers.	B.	..	30,000	30,000	..	30,000	..	..	..	..	..	Estimate awaited.
(4) Stud ..	Salem ..	Hosúr ..	56	Rebuilding sick line stables	B.	..	23,000	23,000	..	23,000	..	..	..	..	..	Do. do.
			57	Minor Works		..	..	..	1,13,131	1,13,131	..	..	..	..	..	
				Total, Military ..		2,78,268	3,53,053	11,31,321	1,13,131	12,44,444	*2,95,000	3,54,072	22,092	..	19,16,608	

*Of this amount Rs. 20,000 are required for repairs to the Gun Powder Factory at Madras. Vide letter to Government of India, No. 1956 W. of 2nd August 1882.

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

Appendix to G.O., No. 2590 W. of 4th October 1882.

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 1883-84.

Division or District.	Station.	Description of Buildings, &c., and for what Corps or Department needed.	Approximate Estimate of Cost.	Remarks by the Standing Barrack Committee as to the necessity of the buildings, references to former applications, Orders of Government, &c.	Remarks by the Officers Commanding Divisions or Districts.	Remarks by the Commander-in-Chief.
			Rs.			
		Body Guard.—Dispensary for Veterinary Department.	1,300	.....	Recommended	When funds are available.
		Gun Powder Factory.—Breaking down house.			Recommended as being apparently portion of the scheme for thorough renewal of Gun Powder Factory, *vide* items entered in list of Major Works.	Approved.
		1 Breaking down machine	500	O.G., No. 59 of the 7th January 1874 ..		
		1 House for 6 H.P. engine and boiler.				
		Powder Magazine, one wooden flooring and thorough repair.	1,100	O.G., No. 1501 of the 31st March 1875 ..		Approved.
	Madras ..	*Commissariat Department.*—A detached godown for the storage of wheat with verandahs on both sides in Government Bakery.	800	There is no place at present, should emergency demand the storage of wheat without endangering the safety of the "bread stuffs" by the introduction of weevils into the main building.	Recommended as being a great necessity.	Approved.
		The levelling of the Bakery compound and a system of drainage to carry off the washings of the Bakery.	950	There is no drainage, water lodges, and for sanitary purposes it is necessary that the ground should be levelled and a proper system of drains laid down.	Recommended	When funds are available.
		Sinking a well, erecting a meat and trough apparatus, Public Cattle Depôt.	500	Required in the Public Cattle Depôt in consequence of there being no water nearer than a tank 250 yards distance from the lines which in the hot season is perfectly dry, during the period the bullocks have to be taken to the river for water.	Recommended when funds are available.	When funds are available.
Eastern District.	St. Thomas' Mount.	Lavatories on the standard plan for the North Barracks.	2,000	Urgently required for these barracks	Recommended. These Barracks have no proper lavatories.	Very necessary.
		Lavatories on the standard plan for South Barracks.	2,000	Do. do.	Do. do.	Do.
		Latrine for Native Infantry Regiment.	2,400	At present none	Recommended, but to be held in abeyance until it is decided as to the garrison of Pallâvaram.	A latrine is most necessary when funds are available.
	Pallâvaram ..	An Armourer's Workshop required for Native Infantry Regiment.	820	Do.		
	Poonamallee ..	Lighting Conductors on the new Hospital.	1,500	Very urgently required, the building is about the highest point in the station.	Recommended	Very desirable.
		Small dead-house (standard plan) for Hospital 25th Regiment, Madras Native Infantry.	855	This want has long been felt. No arrangements whatever exist at present for separating the dead from the living during the few hours that must necessarily elapse before arrangements can be made for interment. Considered very desirable.	To be held in abeyance until it is known for certain whether Vellore is to be kept up as a Military Station or not.	This seems desirable.
		Alternative.				
	Vellore ..	Do. do. same plan, using cheaper materials, such as jungle-wood instead of teak, brick in mud instead of in chunam, venetianed instead of glazed windows, &c. Basement to be raised 1 foot instead of 2 feet.	540			

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 1883-84—*cont.*

Division or District.	Station.	Description of Buildings, &c., and for what Corps or Department needed.	Approximate Estimate of Cost.	Remarks by the Standing Barrack Committee as to the necessity of the buildings, reference to former applications, Orders of Government, &c.	Remarks by the Officers Commanding Divisions or Districts.	Remarks by the Commander-in-Chief.
			Rs.			
Eastern District—*cont.*	Bellary	One wall to the Military Hospital, 7th Regiment, Native Infantry.	1,010	There is no wall or proper fence separating the hospital from a small village which adjoins it to which patients in hospital can find easy access. A proper wall is therefore absolutely necessary, proposed in the year 1875. Approved when funds are available.	Approved	Approved.
	Berhampore ..	Latrine for Guard-room	20	There is no latrine for the use of the men of the Quarter Guard. A latrine is absolutely necessary as the men have to go upwards of a quarter of a mile at present into the fields.	Do.	Do.
		School-house	500	Required a school-house for the use of the Regimental school, the present building (regimental property) having fallen in and being otherwise unsuited for the purpose.	.....	Do.
	Mangalore ..	Forge trough and cupola to Armourer's Workshop also a screen as per clause E, paragraph 15 of G.O.C.C., No. 12 of 26th February 1874.	500	Estimate sanctioned.—*Vide* Proceedings of Madras Government, dated 4th December 1875, but the work has not been taken in hand pending orders from Government in the Public Works Department.	Required for the purposes of the Armourer's shop.	When funds are available.
		A tiled shed required for the men to sit under at the cook-room which has been converted into a coffee-room.	360	There is at present no such convenience for the men and something of the kind is much needed.	Recommended as a temporary arrangement until the permanent buildings are erected.	Approved.
	Malapuram ..	The present hospital latrine being too far off a new one to be built close to the hospital.	94	The present is far away for such patients as are very sick.	Recommended unless new barracks and hospital are to be built.	Do.
	Calicut ..	Introducing dry-earth system ..	753	An important work	Not urgently required ..	Most important.
Western District.		Improved ventilation in Lunatic Prisoners and Ophthalmic wards for the Station Hospital.	350	Very desirable	Not required at present ..	When funds are available.
		Urinals of corrugated iron for the Sergeants' Mess.	250	Much required as there is no place at present near the mess to which the Non-Commissioned Officers can resort, specially required in the wet weather.	Recommended	Approved.
		Do. Canteen	350	Required on sanitary grounds	Do.	Do.
	Cannanore ..	Three latrines for the use of the men and families of the Native Regiment.	240	These latrines are absolutely necessary and a sum of Rs. 240 has been allotted for the work which will be undertaken by the Public Works Department.	Do.	Do.
		A shed for Military cows for the Station Hospital	20	Much required especially during the monsoon, it being considered necessary that the milk should be drawn in the presence of a hospital orderly to prevent the possibility of adulteration.	Do.	Do.
		European Infantry.—Band Master Sergeant's quarters.	2,350	G.O., No. 3668, 2nd December 1879. ,, ,, 6357, 6th ,, ,, Required to complete accommodation, but not urgently wanted.	Recommended the rooms of the vacant married quarters be altered to that requirement.	1 concur.
		Agram Barrack Hospital.—Stables for the Medical Subordinates attached to Royal Artillery and Cavalry.	1,000	These are much wanted. The subordinates now have temporary erections which are objectionable.	..	When funds are available.
		Field Batteries, Royal Artillery.—Cook-house Sergeant's Mess and quarters.	1,870	Desirable	Desirable	Do.
		Royal Artillery.—Bullock sheds for three Batteries.	1,160	Estimate approved by Commander-in-Chief, 4th May 1882. Desirable.	Do.	Do.
		Royal Artillery—Agram Barracks. Ration shed.	Estimate 1,750	O.G., No. 1232, 14th May 1872. Desirable. No place or shed for issuing rations.	..	Do.
		European Infantry.—Roofing the corrugated iron urinals, Parade Barracks.	Do. 1,320	O.G., No. 3365, 21st July 1876 ,, ,, 4389, 30th August ,, ,, ,, 2611, 26th September ,, ,, ,, 2742, 11th October ,, } Desirable ..	Necessary	Do.
		Commissariat.—One coal shed 40 × 20.	App. Estc. 2,100	Desirable. Required for fuel of Bakery engine ..	Recommended	Do.
		A high wall round the compound grain godown.	Do. 2,500	Do. There is only a low wall which can be scaled at any point.	Do.	Do.
		Servants' rooms to Staff Sergeant's quarters.	1,000	Desirable. These are much wanted	Do.	Approved.
		Shed for boiling gram for mules ..	App. Estc. 700	O.G., No. 1747, 12th May 1867. Desirable. Reported to be requisite.	Do.	When funds are available.
		A high wall round the straw yard ..	App. Estc. 1,320	Desirable. Reported to be requisite	Do.	Do.
		Queen's Own Sappers and Miners.—Floor of European Non-Commissioned Officers' quarters relaid.	Do. 900	Do. Floors uneven	.....	Do.
Bangalore Division.	Bangalore ..	Hospital lavatory and increased surgery accommodation.	Do. 1,000	Do.	.....	Do.
		South Station Hospital.—Two stalls for horses.	300	Do. Entered in list 1882-83	.....	Do.
		Native Infantry.—Hospital lavatories.	App. Estc. 2,000	Do.	.....	Do.
		Royal Horse Artillery.—Latrines to Staff Sergeants' quarters.	2,100	The present latrines are offensive and badly arranged. Their demolition and reconstruction on the standard plan was recommended last year by a Board convened for the purpose of inquiring into the matter. The Deputy Surgeon-General was one of the members of the Board.	Very desirable	Recommended.
		Stone drains for forage yard and lines.	1,440	Estimate and plan submitted and sanctioned in G.O. No. 3063, 2nd December 1879, but no funds allotted up to date. Much required to carry off water.	Needed	When funds are available.
		European Infantry.—Latrine for Native followers.	1,500	There is no latrine for Native followers and the Committee consider one absolutely necessary.	Very necessary	Recommended.
		Fourth Regiment, Native Infantry.—Latrines for hutting lines.	1,600	Considered by the Committee very essential. The Assistant Quartermaster-General will select the site.	Do.	Do.
		Enlarging school-room	545	.....	Necessary	When funds are available.
	Wellington ..	Supplying fire valve with branch and four cisterns to married quarters as there is no means of extinguishing a fire.	1,100	Indispensable. Very necessary in case of fire, recommended in 1877, recommended in 1882.	Indispensable	Recommended.

1882-83

Immediate

QUARTERMASTER-GENERAL'S OFFICE,
Fort St. George
11th October 1880

No. 7094

From

THE QUARTERMASTER-GENERAL,

To

THE Secretary to Government
Public Works Department

SIR,

I have the honor, by order, to forward herewith the Schedules of Military Works, Major and Minor, required to be provided for in the Budget List of 1884/85.

2 Sir Frederick Roberts is about to address Government in the Military Department on the subject of the several large works of importance which are in his opinion of special urgency and for execution of which he hopes funds may be made available next year, but meanwhile your attention is invited to them by their entry in red ink in the Schedules.

I have the honor to be,
Sir,
Your Obedient Servant,

D. S. McLeod Major
for Quarter Master General.

List of Military Works estimated to cost Rs. 2,500 each or upwards, and for which funds are required in the Public Works Budget for 1883-84—*cont.*

Estimate.	Remarks by the Standing Board of Commissioners to whom applications for Grants of Government do Grant.	Remarks by the Officer in charge of the Division.	Remarks by the Officer making Provision in Budget.	Remarks by the Quarter-master-General-in-Chief.
Rs.				
2,500	Strongly recommended by Medical Officer as a matter of amusement and comfort to the Troops. Sanctioned in 1877, but cannot be carried out for want of funds.	Required when funds are available.	Do.	Strongly recommended.
1,946	O.O., No. 709, of 28th August 1877. Sanctioned when funds are available.	Not urgently required	Do.	When funds are available.
500	Recommended in 1882	Recommended	Do.	Recommended.
500	Recommended by Committee, 1882	Urgently required	Do.	Very urgent.
2,350	Do. do.	Needed	Do.	Do.
1,200	O.O., No. 945, dated 24th August 1876. Desirable, recommended by the Commissariat Officer.	May stand over	Do.	When funds are available.
866	O.O., No. 1749, dated 23rd July 1872. Desirable.	Recommended	Do.	Recommended.
3,670	O.O., No. 2309, dated 28th November 1876. Desirable.	May stand over	Do.	When funds are available.
1,125	New gunhalls are much required in the station hospital. First brought forward in 1876 when the present gunhalls were condemned.	Recommended	Do.	Very desirable.
782	First brought forward in 1881. Quartermaster-General's No. 657 of 4th June 1881.	Recommended	Do.	When funds are available.
1,600	One cookhouse only is at present provided. The kitchen is too far from the men, did it give sufficient cook accommodation at all times.	A latrine is much required, but Rs. 1,500 would build houses for 40 or 50 men and their families.	Do.	Do.
1,200	This is much wanted for the use of the sick in hospital. The present arrangement is unsatisfactory.	Recommended	Do.	Do.
1,000	This is too small for the members now on the school books. It is inconvenient in the matter of examination and unfit for its purpose. It is not a public building and the Regiment pays Rs. 4-8-0 month rent for it.	Recommended	Do.	Do.
600	Where is none and one is much wanted	Not urgently needed at present.	Do.	Do.

(Signed) JOHN EWING, Lieut.-Colonel,
Offg. Quartermaster-General.

ORGANIZED
September 1882.

A 854 W 4.10.83
750 C 17.9.83
22 C 5.10.83
1093 C 6.10.83
2149 D 12.10.83

Pol Pin 8843.

No

From

The Quarter Master General

To

The Secretary to Government
Public Works Department

Dated 11th
Rec'd 12th October.

No. 7094

With 2 Enclosures.

Forwards Schedules of Military Major and Minor Works to be provided for in the Budget List of 1884/85.

Pol

QUARTERMASTER-GENERAL'S OFFICE,
Fort Saint George,
13th October 1883.

No. 7151

3002-3
8

From

THE QUARTERMASTER-GENERAL,

To

THE Secretary to Government,
Public Works Dept.

SIR,

In continuation of this Office letter No. 7094 dated 11th instant, I have the honor, by order, to forward a supplementary Schedule of Military Major Works, providing for the construction of New Barracks for the Royal Artillery at St. Thomas' Mount. -

I have the honor &c.,
Sir,
Your Obed't. Servant,
D.J. Macleod Major
Offg. Deputy Q.M. Genl.

Pol

1889.

From P.W.C. No. 5905

The Hon. Genl.

To The Secy: of Govt.

P.W.D.

Ad 13
Rf 13 } Rets

Encls: 1

No. 7157

Forwards a supplementary Schedule of Bridge Works, providing for the construction of new Bdg: for the R. A. at St. Thos Mount.—

B

[Earl. Wks. Form No. 111.]

[Rev. Wks. Form No. 111.]

GOVT. OF MADRAS.

1883

P. W. DEPT.

300/11

Supplemental Schedule of Military Works estimated to Cost more than Rs 2500 and for which funds are required in the Public Works Budget for 1884/85

300/10

Station	Description of Buildings &c and for what Corps or Depôt needed	Estimated Cost	Remarks by the Standing Committee as to the urgency of the Buildings, Improvements &c &c	Remarks by the Officer Commanding Division or District	Remarks by the Commander-in-Chief
Eastern Circuit	St Thomas's Mount	New Barracks for Royal Artillery	£7,700	Work in progress	Completion necessary. Approved—

Quarter Master General's Office
Fort St George 13th October 1883

D'Sweedeck Major
Offg Deputy D.W. Generals

[Exr. Wks. Form No. 111.]

GOVT. OF MADRAS. } 1883 . { P. W. DEPT.

EXAMINER, P. W. ACCOUNTS.

Madras, October 13th 1883.

OFFICE NOTE No. 734.

To

W.

The only work in the list herewith returned on which outlay has been incurred and recorded in the books of this Office is "Constructing a Dead House in the Compound of the Garrison Hospital of the Native Infantry Regiment at Vellore"- Estimate Rs. 900- outlay on this work amounts to Rs. 901-4-6 but no Completion Report has yet been submitted.

C.

KEEP WITH Genl. No.

dated 18 .

No. 1750 C

PUBLIC WORKS DEPARTMENT.

1500-1/12

To

The
Quarter Master General
Madras

Chepauk, 5th Feb 1884.

No. 1750 C dated 17th September 1883.

THE undersigned has the honor to invite attention to the ~~Letter~~ ~~Order~~ ~~Memo.~~ noted on the margin, and to request that the reply may be expedited.

(By Order.)

Capt.
~~Lieut.~~ R.E.,
~~Dy.~~ Under Secretary to Government.

Inspects 3/10

Re 175-8 ag 12-9-83

To C.

Office Note

C.No. 8843

Re 2147 Rec'd 12 Sept 83

Please state if any of the works entered in the accompanying list of Military Works, are completed, or are under execution in the current official year.

The very early dates of the Returns particularly suggested

Cl.

Ld. F. Ma

12/10

Secy

17/19

note list

Schedule of Works for 1884/85

Re 175-sc ag 17-2-93

308 D 3"
1A

Schedule of a
for 1884

Instr

In the 17th of last month, the Quartermaster General was asked to expedite the despatch of the Schedules of Major and Minor Works, to be included in the Estimates (Imperial Military) for 1884-85. But the returns have not been received as yet. Would D.W. write a reminder to be sent upon for the Schedules -

Minute
3/10

Yes - I think a reminder might be sent

CJ.
3/10

Reminder sent 3/10

St. George.	A Shed of masonry to be erected on the Ball Alley of the European Regiment. ? ? X	9,800	very much needed and might be erected within the space of the Ball Alley situated on the East of the Barracks which afforded is not used by the men.	Recommended.	Strongly	funds are available 3502/94
—	An Armourer's shop required to be built on the Standard plan for the European Infantry Regiment. ? ? X	5,000	The is much required, as the present Armourer's Shop is merely a make-shift. New one to be built on Standard plan, this has been reported last year by both the Asst. Adjutant General for Musketry and Chief Civil Master Armourer as not being on Standard plan.	Recommended.	When available	
Madras	Improvements to the Gun Powder Factory X	2,24,105	O.G. N° 4020. W. dated 15th October 1878 page 2, N° 7. O.G. N° 4020. W. Dated 15th October 1878, page 2, N° 8. O.G. N° 3157 dated 28 June 1882. O.G. N° 4020. W. dated 15th October 1878, page 2, N° 9. O.G. N° 425 W dated 16th February 1882. P.W. O.G. N° 59 dated 9th January 1874.	Recommended	As available	
	The present Wheel shop of the Gun Carriage Factory requires to be Knocked down and a building 100 x 60 erected, standing only on pillars, open all round, similar to the Blacksmiths' Shops but the North and East sides protected from the North East Monsoon. Some of the material of the present Wheel Shop to be utilized.	4,000	The present Wheel Shop is in a dilapidated and leaky condition and does not admit light on cloudy days, great inconvenience is felt during rainy days, this work therefore appears necessary.	Recommended.	As available	
	Commissariat Department					
	New Slaughter House - - - - - -	17,580	Very urgently required. The present site is too far off and strongly objected to by the Supt: Govt: Farms. No proper supervision can be exercised at present over supply of meat. Arrangements are being made to convert the Offices lately occupied by the Supy. Engineer on the South side of the Adyar River into a Slaughter House &c. O.G. N° 4622 dated 17th July 1880 O.G. N° 1127 dated 9th March 1882.	Recommended as already approved of by H.E. the Commander-in-Chief.	There is no objection to building ground for objection of a new Slaughter House in general. From the	
	Quarters for Station Butcher - - -	4,740				
		2				

adras	Sheds for the Public Cattle and Lines for the attendants.	4,000	Stables for the mules have been built on the Beach, but there is no accommodation herein for the bullocks. Lines should also be built for the attendants as they cannot but themselves in the neighbourhood.	Recommended	When available	Funds are available 3802/94
Public Buildings for 3 Warrant & Non Commissioned Officers		20,230	Are most urgently required. Estimate approved by H.E. the Commander-in-Chief and sent to Chief Engineer S.D. Circle vide Lr. No. [illegible] dt. 11 May 1892. No. 231/3639	Recommended. Estimate Sanctioned vide G.O. No. 386 W dated 2nd July 1893. P.W.	Urgent	
22nd Regiment N.I. Trincomalee						
1 new Regimental School at the Trincomalee Lines.		2,500	Are to meet required	Recommended	When available	
26th Regiment N.I. Rayaramma						
Two Latrines one on the North and one on the South side of the Regimental Lines at Rayaramma.		3,000	New Latrines are much required, but the site should be selected by a committee as it is thought that the site suggested is the best.	Recommended.	Appr	
Lines bound Constructing Stables for 2 Field Batteries.		10,000	The present arrangements of the Lines afford no shelter for the horses during inclement weather, the necessity for a [illegible] stable has been brought to the notice of the Commander-in-Chief vide G.O. No. 1956 W. (P.W.) 3rd August 1892. G.O. No. 1183 W. (P.W.) 26th April 1893.	Recommended.	Urgent but Estimate to be prepared No. 29 26 Ma	

major general.

[illegible] Mhow	Plunge Baths. New Barracks. X	12,600	The other Barracks have Plunge Baths, so is much required for the new Barracks and viz: Water supply would also be required. The Well and double moat apparatus is recommended. Re-entered this year for the following reasons. The Plunge Baths that were reformed to above has become so leaky that the Contractor absolutely refuses to fill them. One large one is necessary for the 2 Light Field Batteries in the Royal Artly. Lines. length 45 feet by 20 feet, breadth, present one has made 4 feet and 8 feet in depth.	Recommended	When funds are available. 3602-18
Ahmednagar	One Mortuary Room for each of the 3 Hospitals. No. 1613. X	3,000.	Here is at present no accomodation where to conduct post-mortem examinations. The Committee consider it absolutely necessary that a "Dead House" for each of the following Hospitals should be built as soon as possible:- No. 1. European Artly. Veteran Bn. Hospital. No. 2. Native Infantry Regimental Hospital. No. 3. Native Infantry Depot Hospl.	Recommended.	When funds are available.
	Regimental Magazine for a Native Infantry Regt: on the Standard plan. 6.3- X	4,500	At present none	Recommended strongly. At present there is no proper magazine, a portion of the Store-room is used as a Magazine	Approved

Store —	Armourers Shop for a Native Infantry Regiment on the Standard plan.	2,900	Recommended for immediate execution - D.T. No 4834 dated 8th September 1881.	Much needed	Approved. 2002-19
	School House for a Native Infantry Regiment	4,000	The building is very much needed for the use of the Regiment in garrison, as the Mahal in the Fort at present occupied as a School is a considerable distance from the Lines.	Much needed	When funds are available. Cost seems high.
Penang-	Regimental Store Room to be included as Storage for Camp Equipage	5,000	The building now in use as a Store Room is to be confined, the doubtful Lane to be Kept in an old condemned building, the present Regimental Store Room is too old to be enlarged, walls being cracked.	Recommended	Approved - but seems expensive.
Bangalore	Native Cavalry				
	Accommodation for one Regt. N. Cavalry		At present the Regiment is provisionally accommodated in bold ranges of stabling Lines for the purpose which are in every way unsuitable	Recommended	Recommended for very early provision the location of a Native Cavalry Regt. at Bangalore being a permanent arrangement.
	Race of Arms & Armourers Shop.				
	Store 7,165				
	Horse Infirmary 5,800				
	Magazine 2,750				
	Guard Room 3,540				
	School 1,715				
	Water trough 510				
	" Wells 2,320				
	Roads, drains, preparation of site 5,000	29,600			
	Native Infantry				
	Accommodation for one Regt. (less magazine)	14,610.	There is no accommodation for another N.I. Regt. which is about to be added to the garrison by the return home Detail of the 4th Regt. N.I. The Magazine Accommodation required will be provided for in the building for the Cavalry	Recommended	early provision of the building is absolutely necessary
	Entrenchment as place of refuge including Ordnance Depot	8,000.	Recommended R (16.8). D.T. 5231 of 26/9/83	Strongly recommended	Approved for early expenditure as a Major General

	Sappers and Miners				
	Regimental Latrines	3,960	Urged for several year past. Existing Latrines are offensive + defective.	Urgently needed	Much required
	Addition to Regimental School	3,600	Recommended in 1882. Much needed present accommodation far too Cramped.	Much needed	The Estimate seems high.
	Garrison				
	2 New Gymnasiums	41,600	Desirable - no proper Gymnasium Obs. No 161 of 10 Jany 1876 — " — " 633 of 7 Feby 1876 — " — " 1560 of 21st June 1876 — " — " 4770 of 29th Sept 1876.	Desirable but at present the Cavalry + Infantry have each a Barrack Room at their disposal for a Gymnasium	Very desirable, but the Estimate is too high.
	Medical Dept.				
	Quarters for Senior Apothecary North Station Hospital	4,830	Recommended First in 1882, considered absolutely necessary that these grades should reside, on the Hospital Premises so as to be close at hand in case of need.	Necessary	Approved.
	Quarters for Assistant Apothecary North Station Hospital	3,300			
	Royal Engineers				
	Accommodation for Det. R.E.:- Place of arms + Guard Room 3,450 Cells 920 Store Room 2,200 School Room 2,600 Magazine 660 Armourer's Shop 2,330	14,260	Work necessary - in the event of Lines being constructed or for fixed new Site - first time brought forward.	Necessary in the new Lines have been constructed	At present Magazine and Armourer's Shop for the two Regts. should be provided
	Accommodation for 2nd Regt. as above	9,200 14,260.	Necessary in the event of a third Regt. being brought to Bermuda.	Necessary when the third Regt. arrives.	
	2 Latrines for 21st Regt. R.E.	5,200	Required for the Regiment - first time brought forward.	Latrines required, but the cost appears excessive	Approved but the cost is too much - a simple Kind of Latrine is preferred as in order that it can be removed as occasion may require

Wellington	Gymnasium	X	21,835	Strongly recommended by the Medical Officer as a means of Amusement and recreation to the men. The work was also recommended in 1877, 1882 & 1883	Very desirable, but to stand over agreeably to Commander-in-Chiefs Orders.	When funds are available. 2,082-3/31
"	Bakery	X	65,000.	G.G. No. 2211 W. of 10 Augt. 83 G.G. N. 1082 (M.D.) of 23 — G.G. N. 5401 of 5th October 1883.	Very necessary.	Strongly recommended for early execution
Bellary	**Royal Artillery**					
	Stables for one Field Battery	X	9,570	G.G. N. 1262 W. of 30 April 1882. G.G. N. 2099 W. of 1 August 1883 G.G. N. 2444 W. of 1 Septr. 1882 Estimate prepared.	Recommended	Approved.
	Station Hospital					
	Infectious Disease Ward	X	5,000.	An Estimate has been prepared for a Room 16' x 13' with a Verandah to contain Store Room and Orderly Room.	Recommended	When funds are available.
	2nd Regiment L. Cavalry.					
	Armorers Shop	X	2,695.	Estimate sanctioned in G.G. N. 2266 of 14th September 1881, and included in Budget Works for 1883/84. G.G. N. 2590 of 4 October 1882.	Recommended	When funds are available.
	Royal Artillery & British Infantry.					
	Pipes and Cisterns to supply water from the Artesian Well to British Troops	X	3,000.	At present the water is carried in a masonry and Brick Work Channel over 1200 yards in length the leakage is very great and the Channel is constantly stopped by roots of grass &c. The supply of Water is limited, though of excellent quality. An Estimate is being prepared.	This will be a great improvement over the present system and is strongly recommended.	Approved.

	Royal Artillery & British Infy				
	Completion of system of drainage of Wash Lines	3,000	A revised and more economical Estimate is being worked out by the Superintending Engineer, 3rd Circle	Much required, as by the present system the water lodges when it leaves the drain in the soil and becomes very offensive.	When funds are available. 760 25 / 22
	Commissariat Dept.				
	Converting the old Artillery Stables into a Bakery and making a Well for the same	8,270	Very necessary. Estimate sanctioned by order of the Commander-in-Chief. Of. No. 2213 W. of 10 August 1883	Very desirable	Approved - Very desirable.
	Station Hospital.				
	Providing Boarded Floor	5,570	Recommended by the Medical Authorities. Of. No 2590 W. of 4½ October 1882 Of. No 3335 W. of 16th December 1882. Of. No 2533 of 4th May 1883.	Necessary.	When funds are available.
	European Infantry Barracks				
	Plunge Bath on Standard plan	4,690	A Bath is much needed for the use of the men. The open Bath cut out of the Laterite on the shore is quite useless. Of. No 2590 W. of 4 October 1882 Of. No 418 of 10 February 1876	Desirable	When funds are available.

Pallapuram.	Barracks for Dett. British Infantry				
	To accommodate 100 men - - - - - P.T.	90,830.	The Detachment at present is temporarily housed. Approved by Commander-in-Chief in last year's List. G.O. N. 1840 W. of 18th July 1882 G.O. N. 2590 W. of 4th October 1882 G.O. N. 2533 of 4th May 1883.	Necessary	Approved. 1002-3/23
	Canteen - - - - - - - - - - P.T.	5,000.	The present Canteen was formerly a Arrack Godown. Approved by Commander-in-Chief in last year's List. G.O. N. 1840 W. of 18th July 1882 G.O. N. 2590 of 4th October 1882. G.O. N. 2533 of 4th May 1883.	Very desirable	Approved.
	Commissariat Deptt.				
	Quarters for Staff Sergeants - P.T.	4,000.	The present quarters are quite unsuitable, they were, Hospital Purveyor's Stores. The Store Room now used is unsafe. Approved by Commander-in-Chief in last year's list. G.O. N. 136 W. of 13th January '82.	Very desirable	Approved.
Pallon	Native Infantry Barrack				
	Magazine - - - - - - - - P.T.	3,560.	present building is in a most serviceable condition and would be more to be repaired than attached. It lets in the rain to a great extent and is extremely damp during the monsoon. Included in last year's Budget.	Desirable	Desirable, but the amount seems larg

Quilon	Native Infantry Barrack Store Room	5,000.	...gently required, the present ... having been condemned by ... Public Works Department. ...proved plan sent in	Desirable	When funds are available 3602/94

Generals Office
the 11th October 1893

D.J. Lowlcock
Major
for Quarter Master General.

	A Verandah to Section E. Main W. Store		Very much needed for the storage of serviceable Fire Engines which are now kept out	Recommended	Appro	ceive -
	A Store Room in the Forge to Shop	8	Very much needed the present one being too small	Recommended	Appro	essary. Should Sanitary the has not ecessary judgement
	Railings to Miscellaneous Workshop and a door between them and Armourers Shop	79	Very much needed	Recommended	Appro	
Fort Saint George	A Shed in the New Park	440	Very much needed for painting Carriages	Recommended	Appro	
	The Verandah of the European Infantry Officers Mess House to be extended	1900	Required as the present Verandah is too small.	Recommended. The Mess House has a very small Verandah and would be much improved by a Verandah along the Sea face of the building.	Appro	
	A good water tap for the Quarters of the Supdt of Fire Engines.	200	Very much needed	Recommended	Appro	Calle -
	Body Guard					
	Dispensary for Veterinary Department for Body Guard	1300	Nil	Recommended	When funds are	
	Gun Powder Factory					
	Breaking down House	500.	Ref No 39 dated 7th January 1874	Recommended as being apparently portion of the Scheme for the thorough renewal of the Gun Powder Factory. These items in the List of Major Works		
Madras	1 Breaking down Machine					
	1 House for 6 Horse power Engine & Boiler.				Appro	
	Powder Magazine	1100	Ref No 1501 dated 31st March 1876			
	Wooden flooring and thorough repair					

	Laying pipes to the quarters of the Employés at the Fort Pitcher Factory for conveying steam water &c	1000	Work pressingly & essential	Recommended	Approved
	Alterations to the present granulating house & the placing upon it a set of the new (Old pattern) granulating Machine lately put in it	1500	The granulating Machine now in use is found unsatisfactory for large grain powder and it is proposed to present the Old Machine.	Recommended	Approved
Madras	Arbitrary Expenditure Arbitrary Expenditure for the Government Battery ~~Asiatic Estimate for the Storage of wheat with remarks in both Estimates on the Government Battery~~	1788 1788	There is no place at present. Should emergency demand the storage of wheat without endangering the safety of the bread stuffs by the introduction of weevils into the main building. Separate Estimate sent to Government on 4th May 1883 Cy No 170 — 17th March 1883	Recommended	Approved
	The levelling of the Battery Compound and a system of drainage to carry off the washing of the Battery	950	There is no drainage - water lodges, and for sanitary purposes it is necessary that the ground should be levelled and a proper system of drains laid down.	Recommended	When funds are available
St Thomas's Mount	Sinking a Well, erecting a Mont and Freight apparatus, Public Cattle Depot	800	Required in the Public Cattle Depot in consequence of there being no water nearer than a tank 250 yards distance from the Lines which in the hot season is perfectly dry, during the period the bullocks have to be taken to the pier for water.	Recommended when funds are available.	When funds are available.

Presidency Division	Arcot	Lavatories on the Standard plan for the North Barracks	2000	Urgently required for the Barracks	Recommended that the Barracks have no proper Lavatories	Approved
	do	Lavatories on the Standard plan for the South Barracks	2000	Urgently required for the Barracks		
	Vellore	Constructing a Dead House in the Compound of the Garrison Hospital of the Native Infantry Regiment	900	Obs. No 237 dated 15th March 1853	Much Needed	Other funds are available
		Bath Room for Hospital of the Native Infantry Regiment	360	Much required there being accommodation which could be used for the purpose	Recommended	Approved
		Hospital Wall to be completed	296	Present wall encloses three sides of the Hospital, while on the South side and nearest the Regimental Lines there is none. Wall is Completed, all ingress and egress will be confined to the regular entrance and a Sentry will kept over the movements of patients.	Recommended	Approved
	Vizianagram	3 Public Latrines viz One for Men in the Left Wing and 2 for Women one in each Wing on dry Earth system	2255	Much required there being at present only one latrine for men in the Right Wing sanctioned vide Proceedings Madras Government No 292 dated 28th January 1854 Rs 765 for one Completion sanction for three more asked for	Recommended	Approved

Vizianagram	Powder Magazine with surrounding wall on Standard plan.	1990	...ed the present Magazine having been Condemned and having no protecting walls with it. The shelves being built into the walls are continually attacked by white ants	Recommended	Approved
	Armourer Work Shop	900	Work prepared the work having been sanctioned. Vide Proceedings Madras Government No. 1111 dated 17th April 1876. progress of work stopped on account of famine in 1877 and not since completed.	Recommended	Approved
Berhampore	A Wall to the Military Hospital of the Native Infantry Regiment.	1016	There is no wall or fence separating the Hospital from a small village which adjoins it to which patients in hospital can find easy access. A proper wall is therefore absolutely necessary. Approval when funds are available. Vide Extract from List of Works for 1878/79 Ultimate Sanctioned for 9.0 to 1088 dated 5th April 1883.	Recommended	Approved
	School house for a Native Infantry Regiment	960	A School house is absolutely required for the use of the Regiment the present building (Regimental property) having fallen in and being utterly unsuited for the purpose G.O. No. 3764 dated 6th July 1883. P.W. No. 1760 dated 25th June 1883	Recommended	Approved

	Remarks - Nature of Work				
Mangalore	Forge trough & Cupola in the Armourer Smiths Shop also a Screen as per Clause 6 para 13 of G.O. 866 of 12 dated 12th February 1874.	730	Original Estimate for Rs 500 of sanctioned Mem. Pub. Gl. Secretary No 2183 dated 13 September 1876 G.O. No 2590 W dated 4 October 1882	Required	When funds are available
	European Barracks				
Calicut	Introducing Dry Earth System	758.	An important work. G.O. No 2590 W. dated 4th October 1882	Important	Most important
	European Infantry				
Cannanore	Replacing the Laterite flooring of the Recreation Ramp with Concrete in Chunam and Asphalte	2140	Recommended by the Latterite pounded rapidly. Sanctions in abeyance	Depends on the result of the experiment made with these materials in the Mt Base of Arms	Necessary
	Replacing the present flooring of the School room with Concrete in Chunam and Asphalte	770	Recommended the Laterite flooring pounded rapidly	Seems desirable	Necessary
	Replacing the present wooden railings round the Barracks with open laterite work	639	Recommended on economic grounds. the wooden railings are expensive and require constant renewal. Sanctioned by Commander in Chief	Desirable	Necessary
	Replacing the present flooring of the European Infantry Mess with Concrete in Chunam and Asphalte.	1100	Recommended. Laterite flooring to be pounded rapidly. Sanction in abeyance	Dependent on results of the experiment made in the Mt place of Arms with these materials	Necessary

	Sinking a Well ...	664	Another well is required as the water supply is very scanty during the hot weather. Sanctioned by Commander in Chief	Recommended	Very Necessary.
Cannanore	Raising the parapet of the Magazine & build on a level with its ends & making the Gun Room from inside to enclose the ditch.	1900	Desirable as a precautionary measure	Recommended	Very desirable.
Dilon	New Armoury Shed ...	1700	Much needed. The existing building is insufficient to present requirements. Arms cannot be cared for.	Desirable	Very Necessary
Bangalore	New Latrine for the Staff Sergeants Quarters, Both, the present One being old & condemned on Sanitary grounds ...	2100	Very necessary. This was condemned by a Board of which Dy Surgeon General was a Member. Recommended in 1882	Urgently required	Recommended
	Gaton Shed for Field Batteries ...	1700	Dy No 1232 of 21 May 1879. Much required. Arms foreign & native.	Desirable	When funds are available

A Battery Staff Sergeants Quarter for R.H.A. One more required is now desirable	1100	very necessary. There is at present no quarter for Battery Paints & Marks Sergeant. The Committee recommend the Conversion of the present Camp Store into a quarter the Camp Stores being removed into the Field Artillery Barracks. First time recommended.	Conversion recommended	Approved. 1023/32
Stone steps to forge yard Barrack Lines. Retd	1440	Vide No 2088 of 2nd Dec 1879 Line Engineer	Desirable	When funds are available
Cook Houses for Sergeants Messes of 2 Field & 1 Battalion. One desirable	1470	very necessary. First brought forward in 1882	Very necessary	Approved
Bangalore				
For Royal Sappers				
To provide a Gymnasium and fencing room	1500	very necessary. Recommended that half of the Field Artillery Quarter Guard Room be converted into a Regimental Gymnasium & fencing gallery. First time brought forward	Strongly recommended	When funds are available.
A Cabinet with 12 Seats for use of the Mess whilst at Station is indispensable	1200	very necessary. First time brought forward	Six Seats urgently required	Six Seats approved
Commissariat Department				13
To build, or provide present building with such (built for a Native) Quarters for the Station Butcher	520	very necessary if the Station Butcher is to live at the slaughter house. First time brought forward	Desirable	When funds are available

To improve the road leading from Slaughter houses to Circular road & near Cavalry Barracks to enable meat Carts to travel to and fro without beating down or injuring meat in getting	1400	Necessary	Desirable when funds are available	When funds are available

Transport Department

The speedy Construction in the Transport Cattle Lines of a Shed for Carts and Bullocks A Saddle Room Store Room all being urgently required for the storage of Saddles, Cart gear &c and for protection of Carts and Bullocks Bangalore	1200	The adaptation of existing Camel Sheds which are more than are now required for Camels into these buildings is very necessary. The Mules (other than cart ones) should be picketted in regular Mule lines, South of Transport store and Officers quarters and only such Mules left under shelter as may have been brought forward	Necessary - so far as recommended by Committee	Approved

Army Hospital Corps

Thirty three huts to be erected in the vicinity of the South Station Hospital	924			
Twenty Seven huts near the North Station Hospital and absolutely necessary for the use of the Men of the Native Army Hospital Corps doing duty in Bangalore Cleared 20th para 24 Army Circulars 30th November 1882	756	That these requirements have been brought forward	Necessary on the Corps being embodied	Approved

3002 2/23

	Medical Department					
Bangalore	Stables for Medical Subordinates attached to R.A and Cavalry South station Hospital	1000	Much required. Improving Shelter necessary if the Medical Subordinates are entitled to Shelter		when funds are available	
	Foot Artillery					
	Roofing the Corrugated iron Kennels in Barrack Square	1320	Rs N° 3665 dated 21 July 1876 " N° 4383 " 30 August 1876 " N° 2611 " 28 Sept 1876 " N° 2732 " 11 October 1876 Strongly urged by the Med Authorities	Urgently required	Approved.	
	Salaries for native Pensioners	1600	First recommended in 1852 and raised two being now present to this Establishment	Required	Approved	
	1st Regiment Madras					
Ootacamund	Magazine	2000	Work necessary to the event of Line being enlisted & a proper new Site That time brought forward	Required for the 30th N.I. as the Lines of the Regiment are Commenced	Approved	
	Third Regiment Madras					
	Magazine	2000	Necessary on the event of other Regts being brought to Trichinopoly That time brought forward	Will be required upon the arrival of the third Regiment	Approved	
	Armoury Shops for both Regiments each	2000	Required That time brought forward	Will be required upon the arrival of the third Regiment	Approved	

	Removing the present Concrete floors of Rooms Nos 1, 2, 3, 4 & 5 Barrack and School Blocks and replacing the same with 12 square tiles	1680	Cfy No 1329 of 1880 dated 8th June 1874 Recommended 1882. Very necessary the present Concrete flooring is falling to pieces	Very necessary		Approved
	Bath Rooms to Nos 1, 2, 3, 4 & 5 Blocks for Lay Pupils	2350	Recommended 1881 & 1882 Very necessary Lay pupils from the Married Quarters have to walk bare footed across the Parade Ground to their bathing room	Very desirable		Approved
	Brick tiled flooring instead of present Concrete to Centre passage leading from Married Quarters to Kitchens	1000	Recommended 1882 Very necessary the present flooring is damp and foul	Desirable		Approved
	Barrack Square to be enlarged as the space in front of present Barracks for Bedding, Clothing &c is limited	2000	Recommended 1882 Necessary	Necessary		Approved
Wellington	Supplying Cooking Stoves to Staff Sergeants Mess similar to those for Married Quarters	600	Very necessary. First time brought forward	Very desirable		Approved.
	Supplying Cooking Range to Sergeants Mess capable of Cooking for 30 Sergeants	800	Very necessary First time brought forward	Desirable		Approved
	Compound Walls and Fortifications to the Commissariat Buildings	1280	Cfy No 2345 of 26 Aug 1878. Desirable	Not urgently required		When funds are available
	Drainage Works near Barracks	1822	Cfy No 1798 of 28 July 1877. Desirable much wanted	Recommended		When funds are available
	Erecting a Stone Reservoir and Laying pipes between Springs and Outlet of Spring water supply	2070	Cfy No 1809 of 28 Nov 1876. Desirable	Desirable		When funds are available
Bellary	School	1300	The present building is wanting in room and sanitation. Rs 1000 was the Amount of Estimate in Budget List for 1883/84 for 100 — detailed, but provision has since been made for 130 — Cfy No 2590 W. dated 4th October 1882	This is very much required the present building being quite unsuitable		When funds are available

	2nd Regiment Field Artillery				
	Latrine for the Left Wing	1500	The present one is inconveniently situated for this half Battn and there is not sufficient seat accommodation for the whole Regiment. Ord. No 2590 W dated 4th October 1882	Recommended, but the Estimate appears very high. The Latrine is much required.	Estimate seems expensive. 3002/86
	Native Infantry Hospital				
	2 small Cook rooms for use by 25th & 27th Regiments	600	A temporary arrangement for utilizing an unused latrine has been practised, but has not been found to answer. There is no other place available, and a cook-house is absolutely necessary. The latrine is to be pulled down & the site included in the Hospital Works for 1883/84 and the amount (approximate) is for Rs 1200. The cook is for 2 small sheds against the compound wall. Ord. No 2590 W dated 4th October 1882	To turn a latrine even an unused one, and for a temporary arrangement, into a Cook Room, seem to me altogether unsuitable and objectionable. Two small Cook houses are undoubtedly required	Cook houses very necessary. Should there be no objection on sanitary grounds and if the Latrine has not been in use there seems no reason why the proposed arrangement should not answer.
Bellary.					
	Ordnance Depot				
	Cook room, Godown and Privy for Laboratory Sergeants Quarters. Cook houses to the quarters of Ex is under Engineer's attached to the Ordnance Depot.	600	These quarters have been recently formed from a portion of the Depot Store and are devoid of the accommodation asked for. Ordnance sanctioned see Ord. No 2600 W dated 4th October 1882	Must be prepared and is therefore recommended	When funds are available
	Native Hospital.				
	Compound Wall.	1600	There is at present no fence round this Hospital to ensure the privacy of the inmates. This Hospital is close to the Station Hospital and the European Infantry Barracks.	This is I think very much required. There is absolutely nothing to prevent a passer by seeing the patients in their beds. Privacy is also required for the patients walking about of an evening and for washing of beds & linen.	Very desirable

Quarter Master General's Office
Fort St George 4th October 1882

D. J. Sawdon Major.
for Quarter Master General.

Schedule of Annual Works
for 1884/85.

3002-3
37

Appendix to G.O. No 3002 W

Buildings & Roads.

Schedule of the probable Requirements of the Mad

Head of Classification	Executive Division	Locality	Item No	Projects and Works	Class			
(1) Accommodation for Troops — Buildings for European Troops on the Establishment.	Trichinopoly Fourteenmile &		1a	Imperial Ordinary Military. Barracks for European Troops at Samanallee. New double-Storied Barracks for 200 men with out houses New quarters for 30 families with out Houses. ——do—— for Apothecary —— do —— for Quarter Master's Office & Cookhouses & existing buildings and demolitions	A	40,000	"	40,000
	do	St. Thomas Mount	2a	New Barracks for Royal Artillery	A	60,000	"	60,000
	Coimbatore	Mallapuram	3a	Barracks for detachment British Infantry to accommodate 100 Men	A	80,000	"	80,000

Carried over —

Estimate of Rs 270,506 sanctioned by the G.O. of Regis. No 38 M. W of 1878-79. G.O. No 465 W of 19th February 1879 Item No. 1 Class A Works of Budget of 1883.84 - Work discontinued pending consideration of the question of the retention of the depot. Vide G.O. No 2533 W dated 10th September 1883 -

Estimate of Rs 127,750 sanctioned in G.O No 1894 W of 25th July 1882. Item No 2 Class A Works of Budget of 1883.84.

Estimate of Rs 90,830 sanctioned in G.O. No 1840 W of 18th July 1882. Item No 3 Class A. Works of Budget of 1883.84.

3002-3/39

				Brought forward			90000	80000	
Presidency	Bangalore	3/4	Alterations and additional Barrack houses for the British Infantry	A	4500	"	4500		Estimate of Rs 12,000 sanctioned in G.O. No. 1182 W of 7th May 1880. Item No. 1 Class B. Works of Buildings of 1883-84.
do	Fort St. George	4/5	A Covered Gymnasium to be erected in the Ball Alley of the European Regiment	A	9800	"	9800	9800	Estimate amended Item No. 17 Appendix B. Budget of 1883-84
do	do	5/6	An Armoury shop, on the Standard plan, for the European Infantry Regiment	B	5000	"	5000	5000	Estimate amended
Chingleput	St Thomas Mount	6/7	Constructing six blocks of Stables for two field batteries of Royal Artillery	A	20160	"	20160	20160	Estimate of Rs 20,160 sanctioned in G.O. No 2747 W of 15th October 1883.
do	do	7/8	Plunge bath for Royal Artillery	B	12600	"	12600	12600	Estimate amended Item No 1 Appendix B. Budget of 1883-84
Presidency	Bangalore	8/9	Garrison Gymnasium of the Fourth Class	B	44800	"	44800	44800	Estimate of Rs 44,800 sanctioned in G.O. No 1560 of 21st June 1876. Item No 12 Appendix B. Budget of 1883-84
do	do	9/10	Quarters for Senior Apothecary North station Hospital	B	4830	"	4830	4830	Estimate amended Item No 15 Appendix B. Budget of 1883-84
				Carried over.			86,430	96,990	101,490

Alterations for Troops Buildings for European Troops

			Brought forward			84,500	6990	181490	
Bellary	Bellary	10	Works of Three Stables for Royal Artillery at	A.		2000	at	2000	Estimate of Rs 10000 sanctioned in G.O. No 2099 of 1st August 1883. Item No 10 Appendix B. Budget of 1883. 84 —
Do	Do	11	Infectious disease ward of Station Hospital	B			at	8000	8000	Estimate cancelled. Item No 8 Appendix B. Budget of 1883. 84
Do	Do	12	Pipes and Cisterns to supply water from the Artesian Well to British Troops.	B			at	3000	3000	Estimate cancelled
Do	Do	13	Completion of Septime of drain. age of Wash houses	B			at	3000	3000	Estimate cancelled
Coimbatore	Commence	14	Plunge-baths for British Infantry	B			at	4690	4690	Estimate of Rs 4690 sanctioned in G.O. No 618 of 10th February 1876 Item No 5 Appendix B. Budget of 1883. 84
Do	Madapuram	15	Cantine for detachment British Infantry	B			at	5000	5000	Estimate cancelled Item No. 3 Appendix B. Budget of 1883. 84
			Carried over			86,500	120	180	20,780	

Brought forward 96,600 12,680 207,180

8

8002-3/11

Estimates for Barracks and Quarters for European Troops and Ordnance Buildings for European Troops and Ordnance Stores

Nilgiri	Wellington	16	Extending the 6" main pipe from the barrack square to the married quarters at	A	9,600	"	9,600	Estimate of Rs 9530 sanctioned in G.O. No 198 W of 18th January 1892 Item No 23 Appendix B. Budget of 1892-93
Do	Do	14	Gymnasium at	B	"	15000	15,000	Estimate awaited
							95,600 12,680 222,180	

Carried over

			Brought forward			69900	135680	231,580	
Presidency	Madras	18	New Regimental School at the Perambore Lines.	B	—	2500	2500		Estimate amended 3002-3/12
do	do	19	Two Latrines for the Regimental Lines at Royapuram	B	—	3000	3000		Estimate amended
do	Pallavaram	20	One mortuary room for each of the three Hospitals Nos 1 & 3	B	—	3000	3000		Estimate amended Item No 29 Appendix B. Budget of 1882-83
do	do	21	Regimental Magazine on the Cantonment plain	B	—	4500	4500		Estimate amended
Presidency	Madras	22	School House for a Native Infantry Regiment	B	—	5000	5000		Estimate amended
Presidency	Bangalore	23	Accommodation for Regiment of Native Cavalry. Place of Arms and Quarter Guard Rs 7165 Hospital — 5800 Infirmary — 2750 Magazine — 3540 School room — 1715 School — 570 Water supply — 2320 Water Work — 5800 Drains Rooms &c — 29,610	A	—	29610	29610		Estimate amended Item No 24 Appendix B. Budget of 1882-83
do	do	24	Accommodation for one Regiment of Native Infantry (Line Magazine)	A	—	6610	6610		Estimate amended
			Carried over			99,900	69,790	29,370	

			Brought forward			165300	147890	293190	
Trichinopoly	Bangalore	25	Regimental Latrines for Recruits from Lashkar and Allowances	A		3960	"	3960	Estimate available Item No. 25 Appendix B. Budget of 1883-84
Trichinopoly	Trichinopoly	26	Accommodation for one Regiment of Native Infantry Place of Arms and Guard room — Rs 6,450 Cells — " 920 Store room — " 2200 School room — " 2650 Magazine — " 650 Armourer Shop — " 2330 17200	A			17200	17200	Estimate available 3002 3 / 43 Item No 28 Appendix B. Budget of 1883-84
do	do	27	Accommodation for a third Regiment of Native Infantry as above	A			17200	17200	Estimate available
do	do	28	Two Latrines for Native Infantry Regiment	B			5200	5200	Estimate available Item No 33. Appendix B. Budget of 1883-84
Bellary	Bellary	29	Armourers Shops for a Regiment of Native Cavalry	B			2695	2695	Estimate available
Coimbatore	Ootacamund	30	Magazine for Native Infantry Barracks	B			3560	3560	Estimate available
do	do	31	Store room for do	B			5000	5000	Estimate available
North Arcot	Vellore	32	Armourers Shops for a Regiment of Native Infantry	B		1980	"	1980	Estimate for Rs 2000 sanctioned in G.O. No 1547 dated 20th June 1881
Vizagapatam	Vizianagram	33	Regimental Store Room, to be included as Storage for Camp Equipage	B			5000	5000	Estimate available.
			Carried over			1918402	537453	53585	

				Brought forward			101,840	253,745	355,585	
1	Presidency	Fort St. George	36	Mounting ordnance	A	32,000	"	32,000		Estimate of Rs 62035 sanctioned in G.O. No 2970 W of 19th October 1883 - Item No 2 Class B Works - Budget of 1883-84 3602-3 14
x	Do	Madras	35	Completing the emplacements and improving the Store Rooms &c. of the Coast Batteries	A	22,300	"	22,300		Estimate of Rs 62,320 sanctioned in G.O. No 1661 W of 13th June 1883 Item No 36 Appendix B. Budget of 1883-84
x	Do	Do	36	Improvements to the Gun powder Factory - Further estimate required. Glazing & drying House, one Group. Incorporating Mills, one Group. Dressing House. Pebble entering house Grain Cutting house to be converted into a Pebble entering Machine house. Two additional Compressed Wells Two Bridges.	A	25,000	"	25,000		The Coast sanction brought up the total sanctions to Rs 226,655. G.O. No 2748 W of 1st October 1883. Item No 4 Class A Works. Budget of 1883-84 Further estimate is awaited.
1	Do	Do	37	Improvements to the wheel shop of the Gun Carriage Factory	B	6,000	"	6,000		Estimate awaited.
				Carried over			178,140	257,745	433,885	

Redistribution of works

			Brought forward			£140	25745	23.885
Pondicherry	Gunnady	38	Converting the late Engr. Depôt Office at Gunnady into a Commissariat Storekeeper House	B	..	1180	1180	
do	Madras	39	Quarters for Station Butcher	B	..	4740	4740	
do	do	40	Sheds for Public Cattle and huts for their attendants	B	..	2000	2000	
do	do	41	Quarters for three Warrant and five Non commissioned Officers of the Commissariat Depôt.	B	..	2640	2640	
Nilgiri	Wellington	42	Bakery &c	A	..	1800	1800	
Coimbatore	Cannanore	43	Converting the old Artillery Stables at Cannanore into a Bakery and erecting a mill	A		2660	..	2660
do	Malapuram	44	Quarters for Commissariat Staff Depôt	B	..	4000	4000	

Carried over. £78800 335023 513625

1882-3 / 45

Estimate for Rs 11800 sanctioned in G.O. No 1399 W of 12th May 1883. Item No. 43 Appendix B. Budget of 1883. 84

Estimate awaited. Item No 44 appendix B. Budget of 1883. 84

Estimate awaited

Estimate of Rs 26740 sanctioned in G.O. No 1836 W of 2nd July 1883 - Item No 42 Appendix B. Budget of 1883. 84 myles correction

Estimate ~~of Rs 65000 sanctioned in G.O. No 2210 W of 10th August 1883 Item No 42 Appendix B Budget of 1883 84~~

Estimate of Rs 7660 sanctioned in G.O. No 2213 W of 10th August 1883 Item No 41 Appendix B of Budget of 1883. 84.

Estimate awaited.

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Fortifications

Bangalore printed

Bangalore 65 Entrenchment on place of defence including ordnance depot
Fortifications —— Rs 16,000
Ordnance building — " 14,900
Laboratory —— " 1880

Total Rupees

Dated 24th October 1883.

3302-7
1/16

B

East Presidency on account of Imperial Works for 1884-85.

Original Works					Repairs	Establishment	Tools & Plant	Stationery	Grain & Fuel	Remarks
Major Works			Minor Works	Total						
Works in Progress	New Works	Total								
178800	335025	513825								
"	32780	32780								Estimate for Rs 32780

178800 335025 513825 54,600 12,15 25,000 [illegible] .. 1,925

No 3002-3 PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 24 Oct 1883

READ the following

Letter from the Secretary to Govt
to Govt
— do — do —
Office Memt June Despatch Nos

} M. P. No. 7094 of 11th October 1883
} M. P. No 7151 of 13th October 1883
} M. P. No 730 of 13th October 1883

Ordered that the Schedules of Military Requirements on account of the Public Works Department in the Madras Presidency be forwarded to the Govt of India in the Military Department in compliance with their No 922 M.W of the 21st September 1883.

2. Ordered also that the list of Military Works estimated to cost below Rs 2500 each be printed and circulated to the Superintending Engr, in order that the necessary plans and estimates being

prepared, and submitted
for sanction -

8. The Superintending Engineer concerned, will take immediate steps for the preparation and submission for sanction of estimates for all unsanctioned works included in the Schedule -

Ch.
15/10

Re Lr 3003 dated 24th Dec 1883.
Forwarded -

Ref to
Engineer circle
to Madras D.83
Dr. Ce. RA
Ex
10/11.

To Superintending Engineer
" the Planning & W. Accounts
" the Building Officer
" the Financial Officer

G.O.Ms 3002 - 3003
dt 24-12-1883

Surveyor
13/10

5005

Plant-House

11 x 5 ft.

20 ft

26" ext 1938 No 03002w

30033w

To

Schedule of Requirements

Ordered that the —

Secretary of Public

Works be requested

to forward to this Board

Schedule of Sub Agreement

Forwarding the — entered

into with — in the sum of

£ for 1004/05