

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

BUILDINGS AND ROADS.

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

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Schedule of the probable requirements of the Madras Presidency on account of Military Works for 1888-89—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.	Total.						
						Works in progress.	New works.	Total.								
Presidency.	Do.	Bangalore.	11	Buildings for Wheeler's shop, Royal Artillery.	C	Rs. ..	Rs. 3,100	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate is awaited.
		Do.	12	Drainage of Royal Horse Artillery grass-cutters' lines at Ulsoor and preventing the fouling of the adjacent nullah.	C	Rs. ..	2,846	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Do.	
	Do.	13	Drainage, British Infantry barracks.	C	Rs. ..	8,000	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Do.		
	Do.	14	Quarters for Senior Apothecary, North Station Hospital.	C	Rs. ..	5,300	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate of Rs. 5,300 was sanctioned in G.O., No. 3385 W., dated 27th November 1883. Item No. 19, class C works, budget of 1887-88.		
	Do.	15	Quarters for the Assistant Apothecary, North Station Hospital.	C	Rs. ..	4,773	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate of Rs. 4,773 was sanctioned in G.O., No. 338 W., dated 5th April 1884. Item No. 20, class C works, budget of 1887-88.		
Nilgiri.	Do.	Wellington.	16	Gymnasium, 2nd Royal Fusiliers.	C	Rs. ..	10,000	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate is awaited. Item No. 7, class C works, budget of 1887-88.	
		Do.	17	Infectious-disease ward and cook-house, station hospital.	C	Rs. ..	6,140	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. 4, class C works, budget of 1887-88.	
Do.	Do.	Do.	18	Alterations and additions to military prison and adjoining buildings.	C	Rs. ..	11,260	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate is awaited. Item No. 5, class C works, budget of 1887-88.	
Do.	Do.	Do.	19	Swimming bath, British Infantry.	C	Rs. ..	7,644	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate of Rs. 7,644 was sanctioned in G.O., No. 2434 W., dated 19th October 1885. Item No. 3, class C works, budget of 1887-88.	
Do.	Do.	Do.	20	Quarters for Bandmaster, British Infantry.	C	Rs. ..	3,520	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Do.	
Do.	Do.	Do.	21	Quarters for schoolmaster, British Infantry Regiment.	C	Rs. ..	2,950	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Do.	
Do.	Do.	Do.	22	Quarters for schoolmistress, British Infantry Regiment.	C	Rs. ..	2,950	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Do.	
Do.	Do.	Do.	23	Armourers' shop for the Arsenal.	C	Rs. ..	4,650	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate is awaited. Item No. 6, class C works, budget of 1887-88.	

European Troops in the Plains—Permanent—cont.

1) Accommodation for Troops—Buildings for									
Presidency.	Fort	St.							
Do. ..	Do. ..	Do. ..	24	Repairs to floors of B, C and D blocks, family quarters.	C	..	10,070	..	..
Do. ..	Do. ..	Do. ..	25	Constructing coach-houses and stables for the use of officers.	C	..	15,770	..	..
Chingleput.	St. Thomas' Mount.	Do. ..	26	A wheeler and collar makers' shop for the west barracks.	C	..	5,660	..	..
Do. ..	Do. ..	Do. ..	27	Sergeants' mess for east barracks.	C	..	6,000	..	..
Do. ..	Do. ..	Do. ..	28	Quarters for 3 medical subordinates attached to the station hospital.	C	..	8,000	..	..
Do. ..	Do. ..	Do. ..	29	Quarters for the head-quarter's staff, Royal Artillery.	C	..	12,000	..	..
Do. ..	Do. ..	Do. ..	30	General improvements to the drains of the cantonments.	C	..	10,000	..	..
Do. ..	Do. ..	Do. ..	31	Battery office for P/1st, Royal Artillery, east barracks.	C	..	5,000	..	..
Do. ..	Do. ..	Do. ..	32	Raising the roof of harness room, troop lines.	C	..	4,200	..	..
Do. ..	Do. ..	Do. ..	33	Wooden shed at the proof range.	C	..	2,820	..	..
Do. ..	Do. ..	Do. ..	34	Converting the disused gun-shed between the north barracks and main guard into a coffee shop, recreation-room and library.	C	..	2,520	..	..
Do. ..	Pallavaram.	Do. ..	35	One mortuary room for each of the 3 hospitals, Nos. 1 to 3.	C	..	3,000	..	..
Do. ..	Poonamallee.	Do. ..	36	Warrant officers' quarters.	C	..	3,500	..	..
Do. ..	Do. ..	Do. ..	37	Two staff sergeants' quarters, first class.	C	..	6,000	..	..
Do. ..	Do. ..	Do. ..	38	Coffee shop ..	C	..	9,000	..	..
Presidency.	Bangalore.	Do. ..	39	Additions, &c., to public buildings, Madras Infantry Regiment for a Pioneer Regiment.	A	12,000	..	..	..
Do. ..	Do. ..	Do. ..	40	Public buildings for a regiment of Native Cavalry.	B	..	15,000	..	..
1) Accommodation for Native Troops.									

(1) Accommodation for Troops—Buildings for

(1) Native Troops.

Schedule of the probable requirements of the Madras Presidency on account of Military Works for 1888-89—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.							Total.
						Works in progress.	New works.	Total.								
(1) Accommodation for Native Troops.	Trichinopoly.	Trichinopoly.	41	Store-rooms and workshop, &c., for 4th Pioneers.	B	Rs. ..	Rs. 4,900	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate is awaited. Item No. 43, class C works, budget of 1887-88.	
	Presidency.	Madras ..	42	Constructing 4 latrines, 2 for males and 2 for females, Perambur lines.	B	..	3,000	..	..	..	..	..	..	..	Estimate is awaited. Item No. 39, class C works, budget of 1887-88.	
	Do.	Do.	43	Flushing drains of Native Infantry lines at Rayapuram.	C	..	4,300	..	..	..	..	..	..	..	Estimate of Rs. 4,300 was sanctioned in G.O., No. 1397 W., dated 4th June 1884. Item No. 40, class C works, budget of 1887-88.	
	Chingleput.	Pallavaram.	44	Magazine for Madras Infantry Regiment on standard plan.	C	..	4,500	..	..	..	..	..	..	..	Estimate of Rs. 4,900 was sanctioned in G.O., No. 334 W., dated 8th Feb. 1886. Item No. 41, class C works, budget of 1887-88.	
	Do.	Do.	45	Armourers' shop for Madras Infantry Regiment.	C	..	2,880	..	..	..	..	..	..	..	Estimate of Rs. 2,880 was sanctioned in G.O., No. 3149 W., dated 22nd Dec. 1884. Item No. 42, class C works, budget of 1887-88.	
(2) Ordnance Works.	Vizianagaram.	Vizianagaram.	46	Regimental store-room for Native Infantry, including storage for camp equipment.	C	..	3,480	..	..	..	..	..	..	..	Estimate of Rs. 3,480 was sanctioned in G.O., No. 2628 W., dated 27th Oct. 1884. Item No. 35, class C works, budget of 1887-88.	
	West Coast.	Mangalore.	47	Providing drains for the lines of Native Infantry.	C	..	11,710	..	..	..	..	..	..	..	Estimate is awaited. Item No. 38, class C works, budget of 1887-88.	
	Bellary ..	Bellary ..	48	Constructing six double quarters for the Staff Sergeants attached to the Ordnance Department.	A	10,000	..	..	..	..	..	..	..	..	Estimate of Rs. 42,420 was sanctioned in G.O., No. 1650 W., dated 18th June 1887. Item No. 8, class B works, budget of 1887-88.	
	Presidency.	Fort St. George.	49	Magazines. ..	A	33,000	..	..	..	..	..	..	..	..	Estimate is under reference. Rs. 17,000 provided for the current year—vide Item No. 9, class B works, budget of 1887-88.	
	Bellary ..	Bellary ..	50	Converting the old regimental hospital now used as a Government school into quarters for nine warrant officers, Ordnance Department.	C	..	20,380	..	..	..	..	..	..	..	Estimate is awaited.	
(3) Commissariat Buildings.	Presidency.	Madras ..	51	Extra accommodation as store-rooms in the Gun Carriage Factory.	C	..	6,000	..	..	..	..	..	..	..	Estimate is awaited. Item No. 45, class C works, budget of 1887-88.	
	Do. ..	Do. ..	52	Providing sun-shades to all exposed doors and windows in the Ordnance Lines.	C	..	4,160	..	..	..	..	..	..	..	Estimate of Rs. 4,160 was sanctioned in G.O., No. 2248 W., dated 22nd August 1887.	
	Do. ..	Do. ..	53	Shed for the camp equipment.	B	..	6,935	..	..	..	..	..	..	..	Estimate of Rs. 6,935 has been received and is under disposal. Item No. 51, class C works, budget of 1887-88.	
	West Coast.	Calicut ..	54	Transport sheds	B	..	3,310	..	..	..	..	..	..	..	Estimate is awaited. Item No. 46, class C works, budget of 1887-88.	
	Presidency.	Bangalore.	55	Quarters for a Conductor, Transport Department.	C	..	5,800	..	..	..	..	..	..	..	Estimate of Rs. 5,800 was sanctioned in G.O., No. 992 W., dated 16th April 1886. Item No. 47, class C works, budget of 1887-88.	
(4) Staff and Miscellaneous.	Do. ..	Do. ..	56	Quarters for an Ambulance Sergeant near Cattle lines, Transport Department.	C	..	3,000	..	..	..	..	..	..	..	Estimate is awaited. Item No. 48, class C works, budget of 1887-88.	
	West Coast.	Malapuram.	57	Constructing a cattle shed for the Commissariat Department.	C	..	4,000	..	..	..	..	..	..	..	Estimate is awaited.	
	Presidency.	Madras ..	58	Lines for transport attendants.	C	..	48,000	..	..	..	..	..	..	..	Estimate is awaited. Item No. 49, class C works, budget of 1887-88.	
	Do. ..	Do. ..	59	Workshops and sheds for carts, doolies, &c., Transport Department.	C	..	40,680	..	..	..	..	..	..	..	Estimate is awaited. Item No. 50, class C works, budget of 1887-88.	
	Do. ..	Do. ..	60	Quarters for a Conductor, Commissariat Department.	C	..	4,000	..	..	..	..	..	..	..	Estimate is awaited.	
(5) Fortifications.	Chingleput.	Guindy ..	61	Quarters for station butcher attached to slaughter-house.	C	..	4,740	..	..	..	..	..	..	..	Estimate is awaited. Item No. 53, class C works, budget of 1887-88.	
	Presidency.	Teynampet.	62	Constructing a wheat godown.	C	..	5,950	..	..	..	..	..	..	..	Estimate is awaited. Item No. 52, class C works, budget of 1887-88.	
	North Arcot.	Vellore ..	63	Constructing a draw-bridge and gate for the fort.	A	2,867	..	..	..	..	..	..	..	..	Estimate of Rs. 6,450 was sanctioned in G.O., No. 528 W., dated 7th March 1885. Item No. 11, class B works, budget of 1887-88.	
	Presidency.	Fort St. George.	64	Facing the enceinte of Fort St. George with Portland cement.	B	..	5,000	..	..	..	..	..	..	..	Estimate is awaited. Item No. 55, class C works, budget of 1887-88.	
	West Coast.	Malapuram.	65	Converting Malapuram into a fortified station.	C	..	5,000	..	..	..	..	..	..	..	Estimate is awaited. Item No. 57, class C works, budget of 1887-88.	
(6) Fortifications.	Presidency.	Fort St. George.	66	Demolition of Wallajah ravelin and two lunettes.	C	..	7,426	..	..	..	..	..	..	..	Estimate is awaited. Item No. 56, class C works, budget of 1887-88.	
	Do. ..	Do. ..	67	Constructing a draw-bridge at north gate.	C	..	2,680	..	..	..	..	..	..	..	Estimate is awaited. Item No. 58, class C works, budget of 1887-88.	
	Nilgiri ..	Ootacamund.	68	Water-supply, Lawrence Asylum.	C	..	7,000	..	..	..	..	..	..	..	Estimate is awaited. Item No. 54, class C works, budget of 1887-88.	
	..	..	69	Reserve with Government for incomplete Major Works.	..	15,300	..	..	..	..	..	..	..	..	..	
						87,524	4,90,444	5,77,968	1,50,000	7,27,968	3,50,000	2,47,867	16,165	..	13,42,000	

List of Military Works estimated to cost Rs. 2,500 each or under, and for which funds are required in the Public Works budget for 1888-89.

Division or district.	Station.	Description of buildings, &c., and for what corps or departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
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	
	Do. ...	Improvements to military prison.	810	When funds are available.
	Do. ...	Putting up 13 ventilator windows in the mess-room of the officers' mess-house of the British Regiment.	600	
	Do. ...	Enclosing verandah in the office of the Examiner, Medical Accounts.	960	
	Madras ...	Ordnance store-room—Beach ...	1,250	Necessary.
	Do. ...	Huts, infectious disease—Station hospital.	750	
	Do. ...	Regimental school—Perambūr lines, Madras Infantry.	1,375	When funds are available.
	Do. ...	Shed to hold fire-engine at the Government Bakery.	820	
	Do. ...	Iron railings to passage in the Storekeeper-General's record-room—Commissary-General's office.	670	Approved.
	Do. ...	Godown, wheat, &c. ...	1,785	
	Do. ...	Drainage—Bakery premises ...	950	When funds are available.
	Do. ...	Gram-boiling shed—Mule lines.	1,500	
	Do. ...	Latrine for hospital—Rāyapuram lines.	1,000	
	Do. ...	Converting one Sub-Conductor's quarters, Commissariat Department, to Conductor's quarters by adding a room 18' x 16'.	576	
	Do. ...	Store-room to 3 warrant officers and 4 sergeants' quarters—Commissariat Department.	1,000	
	Do. ...	Additional latrine accommodation—Army Clothing Department.	536	
	Do. ...	Granite stone foundation for machinery to wheel-wrights' shop—Gun Carriage Factory.	890	
	Do. ...	Laying on Red Hills water in pipes to the quarters of the Conductor and Mechanical Engineer at the Government Bakery, Teynampet.	560	Approved.
	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. Very necessary.

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

Division or district.	Station.	Description of buildings, &c., and for what corps or departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
Eastern District—cont.	St. Thomas' Mount.	Constructing a second verandah to the harness room attached to east barracks, Royal Artillery.	Rs. 1,170	When funds are available.
	Do. ...	Constructing two store-rooms and two cook-rooms to recreation-room, library and coffee shop, east barracks.	700	Approved.
	Do. ...	Drains in stables, east barracks.	800	
	Do. ...	Improving lightning-conductor, Reserve Powder Magazine.	640	
	Do. ...	Coating the pillars of Royal Artillery stables in the east and west barracks.	880	
	Do. ...	Constructing three line-gear rooms for Royal Artillery stables, east barracks.	1,140	
	Do. ...	Converting the vacant family quarters, south barracks, into quarters for medical subordinates doing duty at the station hospital.	1,070	
	Pallāvaram ...	Tiled-shed ...	636	When funds are available.
	Poonamallee...	Alteration—Barracks ...	1,000	
	Do. ...	Wall, new—Family quarters ...	1,000	
	Do. ...	Constructing new walls between the latrines of the family quarters.	730	
	Do. ...	Providing lightning-conductor to the station hospital.	2,400	Approved.
	Do. ...	Improving drains in cantonment	1,500	
	Do. ...	Bullocks shed—Commissariat Department.	510	
	Vizianagram...	New magazine—Madras Infantry.	1,530	Very necessary.
	Do. ...	Improvements to hospital—Madras Infantry.	515	When funds are available.
	Do. ...	Improvements to ventilation—Madras Infantry.	545	
	Do. ...	Contagious disease shed ...	917	Approved.
	Berhampore...	Building for Commissariat stores and office.	1,200	When funds are available.
	Arkōnam ...	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.
	Do. ...	Quarters, Battery—Quarter-master Sergeant, Royal Horse Artillery.	1,100	Desirable.
	Do. ...	Cook-house—Sergeants' mess, field batteries.	1,470	Necessary.
	Do. ...	Latrine for men—Stables, field batteries.	620	
	Do. ...	Board floor, recreation-room—Royal Horse Artillery.	1,240	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	

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 ...	Latrine for followers ...	RS. 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	
	Do. ...	Improving place of arms and hospital.	700	
	Do. ...	Improving Staff Sergeants' quarters.	2,000	When funds are available.
	Do. ...	Improving Sergeant Butcher's quarters.	525	Very necessary.
	Do. ...	Improving road from race-course barracks to slaughter-house.	1,400	When funds are available.
	Do. ...	Additions to accommodation in Transport lines.	1,545	Urgently required.
	Do. ...	Converting Sergeants' quarters into Sub-Conductors' quarters.	1,000	Very necessary.
	Do. ...	Two grass-sheds for the two field batteries.	920	Unauthorised, but desirable.
	Do. ...	Constructing a stone drain in forage yard and levelling ground.	1,440	Approved.
	Do. ...	Preparing a boarded floor in the room now used as a fencing room.	800	
	Do. ...	Lining with stone the drain east and west of barrack limits, parade barracks.	1,538	Desirable.
	Do. ...	New drains in Transport lines to carry off water.	1,100	Approved.
	Do. ...	A room suitable for an office for the Quarter-master at north end of Quartermaster's stores, British Infantry.	2,160	
	Do. ...	Drains around the Married and Staff Sergeants' quarters, &c., British Infantry at St. John's Hill Barracks.	710	
	Do. ...	Quarters for the station butcher.	2,000	
	Bellary ...	Additions to the gate conductor's office—Arsenal, Bellary.	1,464	Approved.
	Do. ...	Renewal floor, No. II Magazine, Fort.	616	Very necessary.
	Do. ...	Reflooring Commissariat store-rooms with asphalt.	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. ...	Guard-room for hospital guard-Station Hospital.	1,200	Very desirable.
	Do. ...	Compound wall for the quarters of the Army Hospital Corps.	1,346	When funds are available.
	Do. ...	Compound wall with two gates to enclose female hospital attached to Station Hospital.	1,300	
	Do. ...	Compound wall for medical subordinates' quarters—Station Hospital.	535	
	Do. ...	Enlarging a well in the cantonment.	854	

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.	Bellary ...	Converting No. 5 division workshop in the Arsenal into an office for the gate conductor.	RS. 1,464	When funds are available.
	Wellington ...	Renewing floors of latrines and school block.	1,680	Necessary.
	Do. ...	Enlarging purveyors' stores ...	2,000	Very necessary.
	Do. ...	Cooking stoves for Staff Sergeants' quarters.	536	
	Do. ...	Supplying cooking stove, Sergeants' mess.	800	Desirable.
	Do. ...	Laying on drinking water to hospital.	2,226	Approved.
	Do. ...	Masonry drain from Barracks square to Engineer's office.	510	
	Do. ...	Shed for dhooly-bearers and dhooly.	2,300	Approved, but estimate seems very high.
	Cannanore ..	Alterations and improvements to the Government bakery.	2,117	Desirable.
	Calicut ...	Stable and harness-room for 12 mules for the Commissariat Department at West Hill barracks.	1,900	Approved, but something on a cheaper scale should be provided.
	Do. ...	Road to Transport lines	1,000	Approved, if such a road is found necessary when a site for the new lines is finally settled.
	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	Very necessary.
	Malapuram ...	Converting beer godown into a gymnasium for detachment	790	
	Do. ...	Providing a platform and pump to well.	1,110	Approved.
	Do. ...	Compound wall for infectious disease ward.	725	
	Mettupalayam.	Sick-cart shed—Commissariat Department.	1,500	Approved.
	Quilon ...	Renewing floor of hospital ...	1,970	Desirable.
	Do. ...	An armourers' shop—Madras Infantry.	1,700	When funds are available.
	Do. ...	Two solitary cells ...	1,245	Approved.
	Mangalore ...	Reflooring hospital—Madras Infantry.	695	When funds are available.
	Do. ...	Additions to armourers' workshop.	790	
	Do. ...	Constructing permanent verandah for the Quartermaster's store, Native Infantry.	630	
	Do. ...	Putting a tar composite floor in place of arms in lieu of the existing wooden floor—Native Infantry.	653	
Belgaum District.	Do. ...	Constructing parapet walls to two wells, erecting nine dustbins and providing six designation boards for Hospital ward—31st Light Infantry.	671	Approved.
	...	Lump sum provision for works costing below Rs. 500 each.	32,343	
Total			1,50,000	

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

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

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

* Major works, classes A, B and C.

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

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

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

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

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

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

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

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

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

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

CLASS A.

WORKS commenced, for completion of which grants are required.

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

OOTACAMUND,
8th September 1887.

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

CLASS B.

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

Command.	Station.	Item No.	Work.	Cost.	Remarks.
Bangalore division.	Bangalore ..	1	Public buildings for a Madras Cavalry Regiment.	RS. 15,000	Item 6, class B, budget of 1887-88.
Southern district..	Calicut ..	2	A new barrack with subsidiary buildings for 30 men.	20,000	
Eastern district ..	Poonamallee ..	3	Improving old barracks ..	5,000	Item 31, class C, budget of 1887-88.
Do. ...	Fort St. George.	4	Remodelling drainage ..	10,000	Item 14, class C, budget of 1887-88.
Do. ...	Do. ...	5	Facing enceinte with Portland cement.	5,000	Item 56, class C, budget of 1887-88.
Do. ...	Madras ..	6	Shed, Camp Equipage Depot ..	6,935	Item 51, class C, budget of 1887-88.
Southern district..	Calicut ..	7	Transport sheds ..	3,310	Item 46, class C, budget of 1887-88.
Do. ...	Trichinopoly ..	8	Store-rooms and workshop, &c., for 4th Pioneers.	4,900	Item 43, class C, budget of 1887-88.
Eastern district ..	Madras ..	9	Constructing four latrines, two for males and two for females, Perambur lines.	3,000	Item 39, class C, budget of 1887-88.
Bangalore division.	Bangalore ..	10	New saddle-room, British Cavalry ..	4,500	
Eastern district ..	Fort St. George.	11	Sundry works in connection with extra accommodation, British Infantry and Royal Artillery.	20,000	

OOTACAMUND,
8th September 1887.

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

CLASS C.

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

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

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

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

OOTACAMUND,
8th September 1887.

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

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

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

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

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

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

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

(True Extract.)

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

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

Exd. J. Moses.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of (1887) Madras.
PUBLIC WORKS.

Dated October, 6th.

Recd.

Encl.

G.O., 6th Oct 1887, No. 2624 W.

OCTOBER.

Military Works

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

Mr. Genl's office,
Patacamund 7th May 1888.

23A

Col. M. Protheroe, C.B., C.S.I.,
Offg. Quarter Master General.

To

The Secretary to Government
Military Deptt.

Sir,

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

Two Estimates amounting to Rs. 3680/-
each for constructing quarters for the School
Master and Schoolmistress respectively of
the British Infantry Regiment at Bellary,
with specification, report and site plan.

The works are included in the
Schedule issued with the Preliminary
Issue of the Budget for 1888/89 items band 7
class C, but probably it will never be necessary
to have them carried out, as later on when
the married quarters in the British Infantry
Barracks now temporarily allotted to sundry
purposes can be made available, they might

be

be converted into staff Sergeant
quarters and thus save the ere
of new buildings.

I have the honor to be,

Sir,

Your obedt. Servant,

Wm. Thomas Colne,

Offg. Quarter Master Genl.

AR.

F.S.C. required.

Current No. 4514Letter No. 3125Dated 9th May 1888From the Secy to Govt: Milly: Dept:

From the L.M.C.'s letter it appears that three buildings with minor repairs required - The 1st is

NOTE OF REMARKS.
 Another for the 2nd & 3rd to be bought

The two Estimated
 for the 1st & 2nd amounts
 to Rs 3680 each, or
 Rs 7360 for both.

provide for constructing
 Quarters for the School
 Master & School Mistress
 of the British Infantry
 Regiment stationed
 at Bellary -

These two works
 are included in the
 Schedule of Military
 requirements for the
 year 1888-89 vide
 G.O. No 2624 W & 6th
 October 1887 -

The buildings are
 to be constructed
 in accordance with

E.1PW 4514/
1888No. 1524 W & 23rd May
1888

type design No 71A

As far as can
be checked the rates
quoted in the estimate
are fair -

The estimate is
counter-signed by
the Quarter Master
General and approved
by Govt. in the
Military Dept.:-

C.M.P.
15/5/88

MILITARY (1888.) DEPARTMENT.

W.C.N. 4514

No. 3377



No 3125
Approved and
transferred to the Public
Works Department for
disposal

(By order)

A. K. M. Herbert Br. Genl.

Secretary to Government

Out account
9 May/88

From

THE QUARTER MASTER GENERAL,

OOTACAMUND,

To

THE SECRETARY TO GOVERNMENT,

MILITARY DEPARTMENT.

No 1524 W.d/23-5-1888

Dated 7th
Received 9th

may
15.5.88

No. 1823 A

Enclosures

+12
(+1 plan)

Forwards for sanction and transfer to the
Public Works Department for disposal, plan
and estimate *for consty. pro.*
for the school master & m^{rs}
respty. of the B. I. Dept
at Bellary -

17/5
5/5 56: V.
11/5
17/5

15/5/88
17/5

2624 waf 6. 10. 87

No. 15

B

From the Asst. Engineer
From the Asst. Engineer
Gent's letter above
Gent's letter above
recorded it appears
recorded it appears
that the quarters
that the quarters
estimated for will
estimated for will
probably not be
probably not be
required the
required the
place and estimates
place and estimates
will therefore be
will therefore be
returned to the
returned to the
Suptg. Engrs. III
Suptg. Engrs. III
Circle to be
Circle to be
brought forward
brought forward
should necessity
should necessity
arise hereafter
arise hereafter
and hereafter.

17/5/87
S.E. III Circle with 11 enclosures
S.E. III Circle with 11 enclosures
Truly Yrs. 17/5
Truly Yrs. 17/5

17/5
17/5

Public Works Department.

No 1606 C dated 10th May 1887.

Circular Memorandum.

- It having been pointed out that the practice of charging the pay of maistries to more than one work is contrary to the code rules, the Chief Engineer desires to be furnished by the 1st March in each year with a statement showing the total cost of the petty supervision establishment proposed to be employed on general duties in each circle.
1. The cost should be divided under the heads "Original Works" and "Repairs".
 2. A statement for the present year should be submitted as soon as possible
 3. On receipt of the required information, the necessary transfer of funds from Works to Establishment will be made.

(By Order)

W. B. Addelman Captain R.E.

Dy. Chief Engineer P. W. D.

To
The Suptg. Engineers,
Consgr. Archt. to Govt.
Examiner P. W. Accounts.

309

The Supply Department
Vance Co

2802

27 March 1888
4 April 1888

Received of the
Supply Department
the sum of \$100.00
for the purchase of
the same. This is
in full payment of
the bill rendered
on the 27th inst.
and is subject to
the order of the
Supply Department.

No. 1606 C d / 10-5-87

1888 .

P. W. DEPARTMENT.

Current No. 3119

From

The Suptg. Engineer
V circle.

ENCLOS.—

No. 5505

Dated 27 March 1888

Received 4 April 1888

SUBJECT.

Requesting sanction to the higher rate of pay viz: Rs 50 per mensem being passed to Murgesa Row a Maistry in the Trivellore Sub. Div. - Chingleput Div. employed in supervising the levelling & laying out work in the Red Hills Minor Basin from August to Nov-87 & to the same being charged to Establishment.

DISPOSAL.

No. 1465 C Dated 6 April 1888

To

C

For favour of remarks.

(2d) W. L. C. B.

4-4-88

Septd

6/4

D.W.

No 5505.

Superintending Engineer's Office

V circle Madras

Bangalore 27 March 1888

From

Colonel H. M. Tibart R.E.

Supt Engineer V circle

To

The Chief Engineer

Public Works Department.

Sir,

The Executive Engineer, Chingleput Division employed one Murgesa Row a Maistry on Rs 25/- in the Trivellore Sub Division from August to November 1887 in supervising the levelling and laying out work in the Red Hills Minor Basin, under Honorary Assistant Engineer Mr Mahomed Kasim Saib. The Executive Engineer states that the Maistry's pay while so employed was to be Rs 50 per mensem. and asks for my sanction to this higher rate of pay for the period in question under Code para 935 rule 5. I find that I have no power to give the sanction asked for

for

I have pointed out to the Executive Engineer the irregularity of his procedure in not obtaining previous sanction to the Draistroy's employment on the increased rate of pay.

Your Most Obedt. Servant

Supp: Engineer & circle

The pay of the
maintaining at Rs 50 per
mensem, from August
to November 1867, will
be admitted as a charge
to be met in the acct.
of 1867-68.

2. The irregular
action of the San Juan
is noticed with dis-
approval

Para 935 seems to apply.
The man was employed on
one unit. Why does STE
say that he cannot sanction.

1000Cu

S. S. V mile
East of Wa

R.O.N. No. 969
7-4-88

No. 1465C d/17 April 1888

To
C

For favour of
remarks.

Wm
4.4.88
D.W.

No. 1333
12.4.88.

To W.

The pay of the maistry
will be admitted as a charge to
"Establishment" if sanctioned by
Government. It cannot be charged
to works, as the conditions of P.W.D.
Code para 935 have not been fulfilled.

C.
12/4
89.
12/4.

PMC No. 3438
3449



From
The Superintending Engineer
5th Circle

To
The Chief Engineer
P.W. Department

Dated 24th }
March 1888.
Resd

13.4.88

No. 1612C d/17-4-88

No. 5505

Murugesu Row Maistry
in the Chingleput Division.
Requests sanction to the
increased rate of pay of
— being charged under
establishment.

To

No. 1612C d/17 April 1888 No. 5

Memo

With reference
letter from the P.S. V
Circle No. 5303 d/17
27 March 1888, the
undersigned has the
honor to draw attention
to para 186 of the
P.W. Code, & to inquire
whether an estimate,
including the maistry's
pay, for the levelling
& other works of the
Red Hills minor
Basin, cannot be
framed & sanctioned
in the usual way.
The maistry's
pay would then

Good
Come under the provision
of Code para 935.

MUR
16.4.88

unrecd

No. 1465 C d/6-4-88
No. 1606 C d/10-5-87

18/4

No. 1612 C d/17 April 1888

23/4
ATD. S

SW

No. 599.

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Bangalore
Chopale, 14 May 1888.

From
Colonel H. M. Tibart. R.E.

To
THE Chief Engineer
P. W. Department.

SIR,

Enclosures.

With reference to your Memo-
-randum No 1612 C dated 17 April
1888 I have the honor to state that
the laying out of work in the Red Hills
Grinos basin - on which the Maistry
was employed was not such as is
provided for by Code para 186. The
Maistry was employed in laying out many
sanctioned works in the Grinos basin.
In accordance with your circular No
1606 C dated 10 May 1887 certain sums
were set apart from the grants for works,
for Establishment to meet the pay of
Maistries

This apparently
cannot now
be done.

Maistries employed on more than one
work at a time. I would suggest that
the Maistry's pay be met from this
provision.

I have the honor to be,
Sir,

Your Most Obedt. Servant

Herbert A. B. B.
Superintending Engineer
V Circle

Cre 3434

Sir,

This case does not
come within the provision
of Code para 935, be-
cause there is no estimate
against which ^{man's} ~~work~~ the
pay can be charged.
He appears to have
been employed on
levelling operations.

Not approved
however the S. E. might
be asked why the
estimate for the Survey
should not be
formed & submitted
for sanction under
code para ~~148~~ ¹⁴⁶ - the
Maistry's pay being
included in the
estimate. Cre
14.4.98

Yes. the man was clearly employed
on some specific work. (M. B. B.)

No 1612 C of 17. 4. 88.
1465 C of 6. 4. 88
1606 C of 10. 5. 87

Recd Croz 3119
3438
4582

No 1525 W. d. 23rd
May 1888
PB

The pay of the
Maistry at Rs 50. per mensem
from August to November 1887
will be admitted as a
charge to establishment in
the accounts of 1887-1888.

2. The irregular action
of the Executive Engineer in
employing the man without
sanction, is noticed with
disapproval.

DE
25/5/88
18/5/88
S. E. I Circle
Examines P.W. Accounts.
10/5/88 11/5/88 12/5/88 13/5/88 14/5/88 15/5/88 16/5/88 17/5/88 18/5/88 19/5/88 20/5/88 21/5/88 22/5/88 23/5/88 24/5/88 25/5/88 26/5/88 27/5/88 28/5/88 29/5/88 30/5/88 31/5/88

From P.W.C. No 4582
THE SUPERINTENDING ENGINEER,
V Circle,
To THE Chief Engineer
P.W. Department.

Dated 14th May 1888.
Recd. 16th May

ENCLOSURES.

No 1525 W. d. 23rd May 1888

No. 599.

Pay of Maistry Employed
on Red Hills Tank Work.

States that the
may be met from the pro-
vision set apart from the
grants for works for Estab-
lishment.

With order.